

AGENDA FOR THE BOARD OF TRUSTEES
Tuesday, October 4, 2016, 7:30 P.M.

Call to Order
Roll Call
Pledge of Allegiance - Andrew Parpala, CVS
Proclamation – Domestic Violence Awareness Month
Deerfield Road Update
Minutes of Previous Meeting
Treasurer’s Report
Bills and Payroll
Public Comment

REPORTS

- 16-101 Report and Recommendation of the Plan Commission re: Request for a Special Use for a Self-Improvement Facility for Shredd415 at 636 Deerfield Road (Bensenville Associates, LLC and Shred415 Deerfield, LLC)

- 16-102 Report and Recommendation on the Plan Commission re: Request for an Exception to the Approved Sign Criteria for the Charles Ifergan Commercial Planned Unit Development to Allow a New East Wall Sign for American Mattress at 360 Lake Cook Road (C.I. Properties and American Mattress)

- 16-103 Report and Recommendation of the Plan Commission re: Request for Approval of a Special Use to Construct a Café in the Existing Building at Six Parkway North (Fulcrum Asset Advisors and Parkway North Center)

- 16-106 Report and Recommendation of Staff re: Creating a New Class C Liquor License for Portillo’s

CONSENT AGENDA

- 16-97-1 Ordinance Changing the Name of the Manpower Commission to the Volunteer Engagement Commission – 1R

OLD BUSINESS

- 16-96-1 Ordinance Including the Northwest Quadrant Master Plan as an Amendment to the Comprehensive Plan of the Village of Deerfield – 1R

- 16-57-2 Ordinance Adopting the 2016 Village of Deerfield Appearance Code – 2R

NEW BUSINESS

- 16-104 Authorization to Execute an IT Cyber Security Group Membership Agreement

- 16-105 Authorization to Implement Desktop Virtualization Project

Items for discussion by Mayor and Board of Trustees
Reports of the Village Manager
Adjournment

WHEREAS, domestic violence is a prevalent societal problem harming victims, their children, family, friends and communities at large; and

WHEREAS, domestic violence knows no boundaries, impacting women, men, and children of every age, race, ethnicity, economic background, sexual orientation, and belief; and

WHEREAS, nearly 1 in 4 women and 1 in 7 men in the United States have suffered severe physical violence by an intimate partner; and

WHEREAS, many victims are deprived of their autonomy, liberty, and security, and face tremendous threats to their health, safety, and economic security, and the health, safety, and economic security of their children at the hands of their batterers; and

WHEREAS, Domestic Violence Awareness Month provides an excellent opportunity for citizens to learn more about preventing domestic violence and to show support for the numerous organizations and individuals who provide critical advocacy, services, and assistance to victims; and

WHEREAS, commendation should be given to agencies like SHALVA, who assist victims of domestic violence and devote their efforts towards ending domestic violence throughout our state and nation.

NOW, THEREFORE, I, HARRIET E. ROSENTHAL, Mayor of the Village of Deerfield, do hereby proclaim the month of October 2016, as

“DOMESTIC VIOLENCE AWARENESS MONTH”

and call upon the people of Deerfield to raise awareness about the societal problem of domestic violence throughout our community and its devastating effects on families and communities, and urge all victims to seek help by calling the SHALVA 24/7 confidential helpline at 1-773-583-HOPE (4673) or visit shalvaonline.org.

Proclaimed this 4th day of October 2016.

*Harriet E. Rosenthal
Mayor*

September 19, 2016

The regular meeting of the Board of Trustees of the Village of Deerfield was called to order by Mayor Harriet Rosenthal in the Council Chambers of the Village Hall on September 19, 2016, at 7:30 p.m. The clerk called the roll and announced that the following were:

Present: Harriet Rosenthal, Mayor
Alan Farkas
Thomas Jester
William Seiden
Dan Shapiro
Barbara Struthers

Absent: Robert Nadler

and that a quorum was present and in attendance. Also present were Kent Street, Village Manager and Village Attorney Peter Coblentz.

PLEDGE OF ALLEGIANCE

Susie Wexler, Chairperson of the Manpower Commission, led those in attendance in reciting the

Pledge of Allegiance.

DEERFIELD ROAD UPDATE

Tyler Dickinson provided an update on Deerfield Road. He is confident the downtown area of

Deerfield Road will be open for vehicular traffic by the weekend. Mr. Dickinson indicated there is still a good amount of work to be completed. The focus will be from Waukegan Road, moving east, to Highland Park. He indicated they will start paving in Highland Park shortly. Mr. Dickinson indicated they are working at night, to try to trim days off the schedule. The excavation for the sidewalk on the south has begun and the pavement should start to be poured next week. Mayor Rosenthal encouraged residents to continue to shop Deerfield businesses impacted by the construction.

MANPOWER RECOMMENDATIONS

Mayor Rosenthal reported the Manpower Commission made the following recommendations:

Appearance Review Commission – Lisa Dunn as Chairperson
Family Days Commission – Michele Edelmuth
Sustainability Commission – Chenlin Zhao
Manpower Commission - Sam Solovy

Trustee Struthers moved to accept the manpower recommendations. Trustee Farkas seconded the motion. The motion passed by the following vote:

AYES: Farkas, Jester, Seiden, Shapiro, Struthers (5)

NAYS: None (0)

MINUTES OF PREVIOUS MEETING

Trustee Farkas moved to approve the minutes

from the September 6, 2016, Board of Trustees meeting. Trustee Shapiro seconded the motion. The motion passed unanimously on a voice vote.

BILLS AND PAYROLL

Trustee Struthers moved to approve the Bills and Payroll dated September 19, 2016. Trustee Farkas seconded the motion. The motion passed by the following vote:

AYES: Farkas, Jester, Seiden, Shapiro, Struthers (5)

NAYS: None (0)

PUBLIC COMMENT

There was no Public Comment on non-agenda items.

REPORTS

REPORT AND RECOMMENDATION FROM THE MANPOWER COMMISSION RE: CHANGE OF NAME TO VOLUNTEER ENGAGEMENT COMMISSION

Mr. Street reported the Manpower Commission went through a name change and became the Human Power Commission, but wanted something more accurate. Ms. Wexler stated they wanted their name to be more proactive and reactive and felt their name did not describe what they want to do. They looked into several names and decided on the Volunteer Engagement Commission as it defines what they are trying to do.

Trustee Shapiro moved to accept the report and recommendation. Trustee Struthers seconded the motion. The motion passed by the following vote:

AYES: Farkas, Jester, Seiden, Shapiro, Struthers (5)

NAYS: None (0)

REPORT AND RECOMMENDATION OF STAFF RE: BACKFLOW PREVENTION (RPZ) PROGRAM

Director of Public Works and Engineering Barbara Little reported the IEPA and Illinois Plumbing Code require all homeowners with irrigation systems to have a reduced pressure zone device that must be inspected annually. Illinois State law requires the use of RPZ for backflow prevention. All municipal governments must comply with these laws and require testing each year by a properly licensed inspector. This prevents possible contamination of the potable water system by chemicals and organic waste.

Once tested, the certification info must be entered into Village database. In June, the Village did an assessment and found 700 properties that had an irrigation system, but were not registered in the annual RPZ testing database. This means that these systems either had an RPZ device and weren't testing it, or that they did not have one at all, both putting the potable water system at risk.

Staff sent letters to all 700 property owners requesting that they get in compliance. To date, all but 140 are compliant. Staff recommends hand delivering a final-notice letter to those who have not responded to two letters staff has already sent. Water service would not be completely shut off, but water pressure would be greatly reduced. Residents with reduced water supply can have water restored after contacting the Village to discuss a reasonable timeframe to reach compliance.

Management Analyst Justin Keenan reported the first letter was mailed to residents on July 19, giving property owners eight weeks to comply. The hand-delivered letters would provide another two-week period for the property owners to contact the Village, providing a total of ten weeks to make a good-faith effort to reach compliance.

Trustee Farkas stated that this is a blunt approach and questioned why the 140 residents have not contacted the Village. He asked if they knew the potential costs and questioned whether the Village should fine those residents and provide them with a list certified installers and inspectors. Trustee Seiden was contacted by a resident who had a system installed 25 years ago, possibly before an RPZ system was required. Mr. Keenan noted that homes built before the requirement were not tracked. He does not know how many homes fall into that category. They did a survey and found homes that were not previously tracked, but need to become compliant. The Village is asking for residents with irrigation systems to be compliant to prevent possible water contamination. Trustee Seiden believes the Village should determine it is absolutely necessary and suggested being more lenient on residents' compliance. Trustee Seiden suggested speaking to the residents when delivering the letters.

Mayor Rosenthal noted the residents will have been notified twice. The Village is trying to follow the rules from the IEPA by bringing residents into compliance to protect the potable water system from contamination. If someone has an issue, they can contact the Village to discuss it. Trustee Seiden would like residents to have additional time before the Village reduces water pressure. He questioned what other Villages are doing. Mr. Keenan reported the second letter notified residents that failure to contact the Village could lead to a reduction reduced water service. He also noted that this time frame was specifically chosen as many residents with an irrigation system hire someone to come in early fall to winterize the system. RPZ inspections require the system to be on to be tested, so residents would have to pay extra if they delayed coming into compliance due to the extra cost of bringing their irrigation systems back on-line. Trustee Shapiro stated this is a public safety issue. He does not believe safety should be sacrificed as this is time-sensitive.

Trustee Jester moved to accept the report and recommendation. Trustee Shapiro seconded the motion. The motion passed by the following vote:

AYES: AYES: Jester, Shapiro, Struthers (3)
NAYS: Farkas, Seiden (2)

CONSENT AGENDA

There were no items on the Consent Agenda.

OLD BUSINESS

ORDINANCE O-16-19 INCREASING THE NUMBER OF CLASS C LIQUOR LICENSES FROM SIX (6) TO SEVEN (7) FOR ROTI MEDITERRANEAN GRILL An Ordinance increasing the number of Class C liquor licenses from six (6) to seven (7) for Roti Modern Mediterranean. Mayor Rosenthal indicated they asked for a waiver of the First Reading as they expect to open soon.

Trustee Farkas moved to waive the First Reading of the Ordinance. Trustee Struthers seconded the motion. The motion passed by the following vote:

AYES: Farkas, Jester, Seiden, Shapiro, Struthers (5)
NAYS: None (0)

Trustee Farkas moved for approval of the Ordinance. Trustee Shapiro seconded the motion. The motion passed by the following vote:

AYES: Farkas, Jester, Seiden, Shapiro, Struthers (5)
NAYS: None (0)

ORDINANCE ADOPTING THE 2016 VILLAGE OF DEERFIELD APPEARANCE CODE – 1R An Ordinance adopting the 2016 Village of Deerfield Appearance Code. First Reading. Mayor Rosenthal commended the Commission on their hard work and especially liked the graphics. She would recommend adding a table of contents or tabs to make it even more user friendly.

NEW BUSINESS

AUTHORIZATION TO EXECUTE DESIGN ENGINEERING CONTRACT FOR RICHFIELD PUMP STATION IMPROVEMENTS Ms. Little reported the Richfield Pump Station is the main water supply from Highland Park into Deerfield. The station receives water via a 24-inch influent pipe that comes in from the southwest wall of the pump station. Currently, the pipe is leaking and causing a damp environment. It is necessary to replace the influent line and add a dehumidifier. Electrical service provides power to pumps and instrumentation, but the station is not backed-up by generator. During a power outage, staff is unable to access instrumentation remotely and it must be manually operated. Staff proposes adding a battery backup unit to provide better monitoring.

Staff interviewed several engineering firms and selected Clark Dietz Engineers for a proposal. The Village received a proposal for preparation of engineering documents including design for replacement, a dehumidifier and battery backup in the amount of \$37,865. Construction would

begin in 2017. There is sufficient funding in 2016 budget to cover engineering expense. Staff is requesting authorization to execute the contract in an amount not to exceed \$37,865.

Trustee Struthers moved to authorize the execution of the design engineering contract for the Richfield Pump Station improvements in an amount not to exceed \$37,865. Trustee Jester seconded the motion. The motion passed by the following vote:

AYES: Farkas, Jester, Seiden, Shapiro, Struthers (5)

NAYS: None (0)

DISCUSSION

TRUSTEE IN THE TOWN

questions at the Farmers Market on Saturday from 9 a.m. to noon.

Trustee Seiden reported Trustee Shapiro and Trustee Nadler would be available to answer

GRANT RECEIVED

is payable over five years.

Mayor Rosenthal reported Community - The Anti-Drug received a matching grant of \$625,000, which

PLANE PULL

division in the Special Olympics of Illinois Plane Pull fundraiser.

Mayor Rosenthal complimented and congratulated the Deerfield Police Department for winning their

PUBLIC ART OPEN HOUSE

open house on September 20 at the Deerfield Library from 6 p.m. to 8 p.m. There will be 16 pieces of art on display as part of the third year of the Deerfield Public Art Program.

The Fine Arts Commission is hosting a public art

HARVEST FEST

including kid's games, face painting, a balloon twister and a touch-a-truck. Starting at 5:30 p.m., two bands will be playing and there will be free hot dogs and corn from Fresh Thyme and dessert and coffee from Nothing Bundt Cakes.

This Saturday, September 24, is Deerfield Harvest
There will be special events at the Farmers Market,

LAKE COUNTY VISITORS BUREAU

Visitors Bureau.

Mayor Rosenthal attended a luncheon at the Marriott Suites sponsored by the Lake County

LAKE COUNTY OPIATE INITIATIVE

Library.

Chief Sliozis and Mayor Rosenthal attended the Lake County Opiate Initiative event at the Deerfield

ADJOURNMENT

There being no further business or discussion, Trustee Farkas made a motion to adjourn the

Board of Trustees Meeting
September 19, 2016
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meeting. Trustee Shapiro seconded the motion. The motion passed unanimously. The meeting was adjourned at 8:19 p.m.

The next regular Board of Trustees meeting will take place on Tuesday, October 4, 2016 at 7:30 p.m.

APPROVED:

Mayor

ATTEST:

Village Clerk

TREASURER'S REPORT
August 31, 2016

HIGHLIGHT REPORT
August 31, 2016

SALES TAX (non home-rule)*

SALES MONTH	RECEIPT MONTH	2014 ACTUAL	2015 ACTUAL	2016 ACTUAL	% CHANGE PRIOR YR. PERIOD	TOTAL 12 MONTHS RUNNING	% CHANGE ANNUAL TOTALS
						3,836,803	
October	January	331,326	371,192	278,067	-25.1%	3,877,603	1.1%
November	February	268,123	270,906	315,746	16.6%	3,822,491	-1.4%
December	March	290,046	351,164	287,077	-18.2%	3,720,354	-2.7%
January	April	255,689	282,558	330,267	16.9%	3,692,259	-0.8%
February	May	238,998	218,180	256,915	17.8%	3,599,134	-2.5%
March	June	304,788	283,631	248,202	-12.5%	3,643,974	1.2%
April	July	298,666	301,171	271,834	-9.7%	3,579,887	-1.8%
May	August	311,357	296,960	328,464	10.6%	3,627,596	1.3%
June	September	335,985	376,785		12.1%	3,666,331	1.1%
July	October	348,688	293,576		-15.8%	3,630,902	-1.0%
August	November	431,169	329,032		-23.7%	3,601,565	-0.8%
September	December	345,199	317,104		-8.1%	3,633,069	0.9%
TOTAL		3,760,034	3,692,259	2,316,572			-5.3%
YTD Subtotal		2,298,993	2,375,762	2,316,572			

MAJOR REVENUE SOURCES

Revenue Items	August	Fiscal YTD	Projected YTD	Variance	FY Budget	Current FY Projection
Sales Tax (non-HR)	415,526	3,358,585	3,333,333	25,252	5,000,000	5,000,000
Home Rule Sales Tax	329,973	2,806,073	2,766,667	39,406	4,150,000	4,150,000
Water Sales	389,679	2,302,632	2,826,667	(524,035)	4,240,000	4,000,000
Interest*	14,478	145,254	123,333	21,921	185,000	185,000
Sewer Use Charge	246,951	1,666,212	1,913,333	(247,121)	2,870,000	2,700,000
Hotel Tax	211,534	1,375,194	1,266,667	108,527	1,900,000	2,000,000
Electric Utility Tax	123,639	840,849	833,333	7,516	1,250,000	1,250,000
State Income Tax	0	1,253,067	1,133,333	119,734	1,700,000	1,800,000
Building Permits	398,210	1,068,020	616,667	451,353	925,000	1,200,000

*All budgeted funds (excluding police pension)

OPERATING FUNDS (GENERAL, WATER, SEWER, GARAGE) SUMMARY

Revenues	2,739,250	19,988,931	19,491,971	496,960	29,444,253	29,444,253
Expenditures	2,115,041	19,512,687	20,009,117	(496,430)	32,126,113	32,126,113

REVENUES AND EXPENDITURES

Sales tax net of rebate increased from last month and the same period of the prior two years. The YTD amount is slightly lower than prior year due to non-recurring activity in the prior year. Received a portion of the 2nd installment of property tax. Water and Sewer billings increased from last month as expected. Hotel tax is consistent last month. Telecom tax continues to exceed prior YTD amounts. Electric Utility tax increased from the same period of last year. State Income tax was received in a prior month. Building permit revenue increased due to commercial renovations. Large expenditures during the month include engineering & construction costs for infrastructure projects and a Police vehicle.

CASH AND INVESTMENTS

As of August 31, 2016, 100% of available cash was invested at an estimated average annualized interest rate of 0.54 compared to an average rate of 0.30% for the 90-day Treasury bill.

CASH POSITION ANALYSIS

August 31, 2016

TOTAL CASH AND INVESTMENTS

	CURRENT MONTH	PRIOR MONTH	CHANGE	EXPLANATION
OPERATING FUNDS				
GENERAL	18,562,040	17,913,843	648,198	Property tax, building permits
ENHANCED 911	1,059,533	1,080,255	(20,722)	
WATER	(1,466,155)	(1,523,291)	57,136	
SEWER	389,027	343,094	45,933	
REFUSE	405,468	467,344	(61,876)	
PARKING LOTS	267,416	271,778	(4,362)	
GARAGE	531	(10,665)	11,196	
VEH & EQUIP	5,035,664	5,116,089	(80,425)	
DEBT SERVICE	1,577,772	1,397,462	180,310	Property tax
TOTAL ALL OPERATING	25,831,296	25,055,909	775,388	
CAPITAL FUNDS				
INFRASTRUCT REPLACE.	8,377,782	8,560,834	(183,052)	
MOTOR FUEL TAX	654,281	612,339	41,942	
TOTAL ALL CAPITAL	9,032,063	9,173,173	(141,110)	
TOTAL CAP. AND OPER.	34,863,359	34,229,081	634,278	
OTHER FUNDS				
POLICE PENSION	42,149,540	42,250,398	(100,858)	
EAST SHORE RADIO	124,159	102,735	21,424	
2011 B SINKING FUND *	2,942,133	2,943,813	(1,680)	
IMET LIQUIDATING TRUST	651,616	651,616	0	

* Restricted for payment of 2011B bonds in 2028

Village of Deerfield
Expenditure Report - August 31, 2016 - 67% of Year

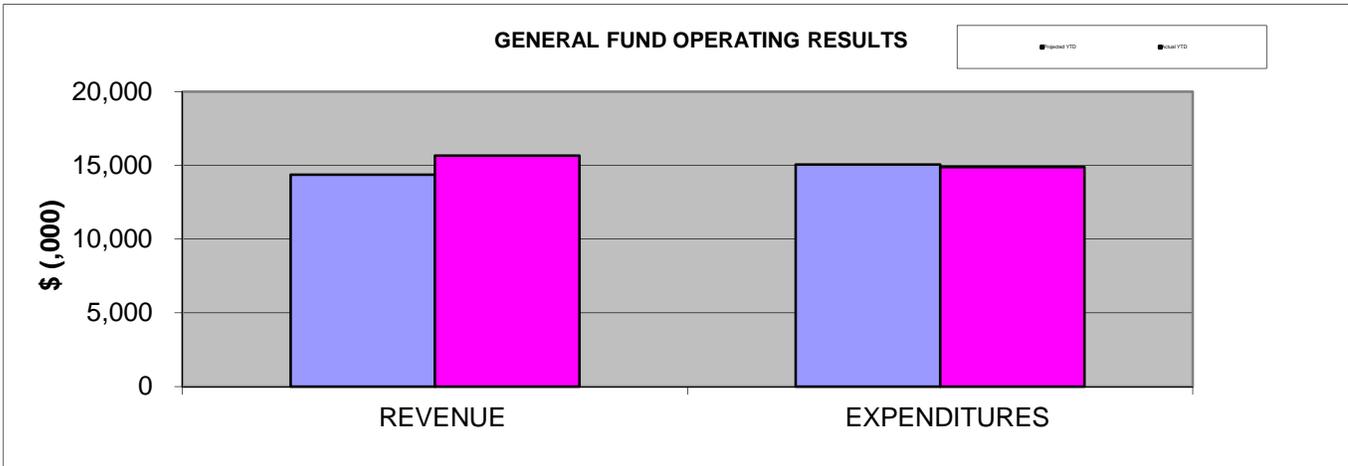
FUND/DEPARTMENT (function)	August Expenditures	Projected Y-T-D	Actual Y-T-D	Variance	Budget 2016	% of Budget	Prior Year %
10 GENERAL FUND							
Finance	259,122	4,996,810	5,344,642	(347,832)	8,607,652	62.1%	68.2%
Administration	231,967	1,126,777	1,169,678	(42,901)	1,690,166	69.2%	58.4%
Comm. Development	84,968	837,333	735,948	101,385	1,256,000	58.6%	60.7%
Engineering	69,554	439,087	386,522	52,565	658,630	58.7%	53.3%
Street	230,926	1,863,263	1,993,707	(130,444)	2,794,894	71.3%	68.6%
Police	620,994	5,797,936	5,246,978	550,958	9,696,904	54.1%	53.1%
TOTAL GENERAL	1,497,531	15,061,206	14,877,475	183,731	24,704,246	60.2%	59.8%
54 SEWER							
Administration	24,861	378,106	408,034	(29,928)	567,159	71.9%	69.3%
Cleaning & Maint.	27,027	201,667	219,265	(17,598)	302,500	72.5%	62.7%
Construction	30,263	248,800	247,844	956	373,200	66.4%	52.2%
Treatment Plant	134,548	1,099,457	1,009,464	89,993	1,649,186	61.2%	61.5%
TOTAL SEWER	216,699	1,928,030	1,884,607	43,423	2,892,045	65.2%	62.0%
50 WATER							
Administration	29,527	417,925	435,260	(17,335)	626,888	69.4%	63.4%
Main & Hydrant Maint.	75,596	395,133	426,283	(31,150)	592,700	71.9%	73.1%
Distribution	264,590	1,839,800	1,574,315	265,485	2,759,700	57.0%	60.7%
Meter Maintenance	6,849	94,600	94,028	572	141,900	66.3%	40.2%
TOTAL WATER	376,562	2,747,459	2,529,886	217,573	4,121,188	61.4%	58.8%
70 GARAGE	24,249	272,423	220,719	51,704	408,634	54.0%	53.8%
TOTAL PUBLIC WORKS	848,436	6,811,174	6,628,919	182,255	10,216,761	64.9%	62.0%
17 ENHANCED 9-1-1	16,004	305,258	184,891	120,367	457,887	40.4%	39.5%
58 REFUSE	107,049	985,465	879,116	106,349	1,478,198	59.5%	57.6%
60 PARKING LOT (village)	11,907	95,733	82,161	13,572	143,600	57.2%	47.9%
60 PARKING LOT (combined)	9,960	118,967	92,731	26,236	178,450	52.0%	43.8%
22 INFRAS. REPLACE.	839,560	9,170,421	4,225,614	4,944,807	13,755,632	30.7%	65.3%
14 MFT	0	329,333	0	329,333	494,000	0.0%	11.4%
80 POLICE PENSION	222,083	1,854,200	1,741,094	113,106	2,781,300	62.6%	63.0%
21 VEH/EQUIP REPLACE.	29,721	409,561	354,166	55,395	614,342	57.6%	41.1%
35 DEBT SERVICE	0	988,837	988,837	0	4,130,774	23.9%	25.0%

Village of Deerfield
Revenues vs Expenditures
August 31, 2016

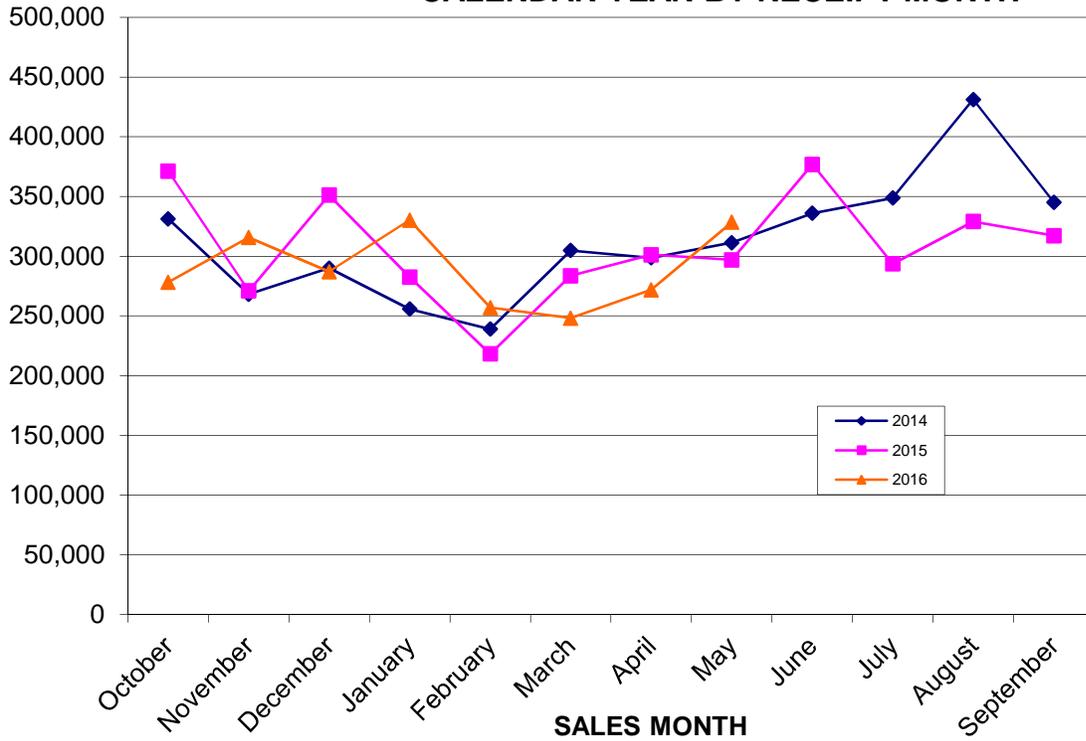
(Amounts x 1,000)

FUND:	2016		2015	
	ACTUAL	PROJECTED	ACTUAL	ACTUAL
	Month	Y-T-D	Y-T-D	Y-T-D
10 GENERAL				
Revenues:				
Property Taxes	171	2,046	2,046	0
St Income Tax	0	1,133	1,254	1,331
Sales Tax (non HR)	416	3,333	3,359	3,126
Electricity Tax	124	833	842	856
Telecomm Tax	156	833	1,317	864
HR Sales Tax	247	2,067	2,104	1,915
Hotel Tax	212	1,267	1,376	1,371
Interest Earnings	8	70	63	49
Fees & Fines	32	201	224	196
Vehicle Licenses	6	363	363	321
Building Permits	398	617	1,068	640
Other Rev	247	1,595	1,651	1,688
REVENUE	2,017	14,358	15,667	12,357
EXPENDITURES	1,498	15,061	14,877	12,858
Contribution to Fund Balance	519	(703)	790	
54 SEWER				
REVENUES	255	1,949	1,699	1,664
EXPENDITURES	217	1,928	1,885	1,755
Contribution to Fund Balance	38	21	(186)	
50 WATER				
REVENUES	438	2,915	2,392	2,309
EXPENDITURES	377	2,747	2,530	2,799
Contribution to Fund Balance	61	168	(138)	
70 GARAGE				
REVENUES	29	270	231	214
EXPENDITURES	24	272	221	241
Contribution to Fund Balance	5	(2)	10	
22 REPLACEMENT (Infrastructure)				
REVENUES	189	5,931	7,828	8,760
EXPENDITURES	840	9,170	4,226	7,778
Contribution to Fund Balance	(651)	(3,239)	3,602	
14 MFT				
REVENUES	42	285	308	248
EXPENDITURES	0	329	0	112
Contribution to Fund Balance	42	(44)	308	
80 POLICE PENSION				
REVENUES	130	1,063	3,517	(397)
EXPENDITURES	222	1,854	1,741	1,622
Contribution to Fund Balance	(92)	(791)	1,776	

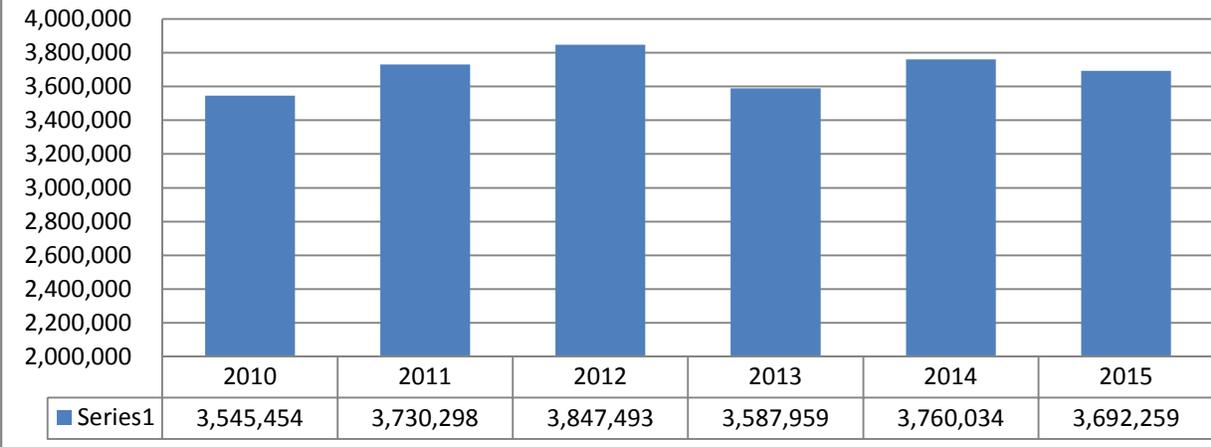
FUND:	ACTUAL Month	2016		2015	
		PROJECTED Y-T-D	ACTUAL Y-T-D	ACTUAL Y-T-D	ACTUAL Y-T-D
58 REFUSE					
REVENUES	42	833	830	910	
EXPENDITURES	107	985	879	864	
Contribution to Fund Balance	(65)	(152)	(49)		
35 DEBT SERVICE					
REVENUES	180	2,510	2,509	2,224	
EXPENDITURES	0	989	989	860	
Contribution to Fund Balance	180	1,521	1,520		
60 PARKING					
REVENUES	14	166	170	169	
EXPENDITURES	22	215	175	167	
Contribution to Fund Balance	(8)	(49)	(5)		
17 ENHANCED 9-1-1					
REVENUES	26	224	203	235	
EXPENDITURES	16	305	185	247	
Contribution to Fund Balance	10	(81)	18		
21 VEH/EQUIP REPLACE					
REVENUES	63	501	503	466	
EXPENDITURES	30	410	354	217	
Contribution to Fund Balance	33	91	149		



**SALES TAX RECEIPTS - REGULAR 1%
CALENDAR YEAR BY RECEIPT MONTH**



**SALES TAX RECEIPTS NET OF REBATE- REGULAR 1%
CALENDAR YEAR RECEIPT MONTH**



**BILLS & PAYROLL
FOR THE
OCTOBER 4, 2016
VILLAGE BOARD MEETING**

Vendor	Invoice #	Description	Org	Obj	Total Invoice
303 TAXI, L.L.C.	34193	TAXI SUBSIDY PROGRAM	101210	5384	5,225.00
A LAMP CONCRETE CONTRACTORS	15496	TRASH ASSISTANCE - DEERFIELD RD	222082	5910	2,208.75
A LAMP CONCRETE CONTRACTORS	15499	2016 STREET REHAB PROJ/PAY#4/082916-093016	142050	5910	150,423.02
A LAMP CONCRETE CONTRACTORS	15499	2016 STREET REHAB PROJ/PAY#4/082916-093016	222082	5910	121,085.88
A LAMP CONCRETE CONTRACTORS	15502	DEER LK & ESTATE REHAB/PH III/PAY#4/082916-091516	222082	5910	<u>249,129.85</u>
					522,847.50
ABC HUMANE WILDLIFE CONTROL	182727	WASP CONTROL	102050	5421	150.00
ADAMS, SCOTT OR LORI	555590	TREE APPLICATION REFUND	100001	4232	75.00
ADORAMA CAMERA	19159086	CAMERA CASE - INVESTIGATIONS	106033	5810	155.00
ADORAMA CAMERA	19159482	CAMERA - INVESTIGATIONS	106033	5810	<u>1,115.85</u>
					1,270.85
ADVANCED TREECARE	1031-10024i	TREE AND STUMP REMOVAL	102037	5365	13,759.00
ADVANCED TREECARE	1031-10053i	TREE AND STUMP REMOVAL	102037	5365	250.00
ADVANCED TREECARE	1031-10378i	TREE AND STUMP REMOVAL	102037	5365	<u>787.00</u>
					14,796.00
ALAN F. FRIEDMAN, PH.D. INC	091916	PRE-EMPLOYMENT SCREENING	106010	5363	777.78
ALL-TYPES ELEVATORS INC	9808736	ELEVATOR MAINT PW/ENG - AUG 16	102010	5320	52.00
ALL-TYPES ELEVATORS INC	9808736	ELEVATOR MAINT PW/ENG - AUG 16	502010	5320	52.00
ALL-TYPES ELEVATORS INC	9808736	ELEVATOR MAINT PW/ENG - AUG 16	542010	5320	<u>52.00</u>
					156.00
ALVAREZ INC	80832	LANDSCAPE MAINT - RAIN GARDENS/MESIC PRAIRIE AREA	542052	5320	1,918.94
AMERICAN CHARGE SERVICE	98984	TAXI SUBSIDY PROGRAM	101210	5384	1,430.00
AMY CHARLSON DESIGN	091516.4	HARVEST FEST 2016 DIRECT MAIL CARD	101210	5335	200.00
AQUAFIX INC	19417	DIGESTER CHEMICAL ADDITIVE	542052	5422	3,437.50
ARAMARK REFRESHMENT SERVICES	511171	COFFEE - PW/ENG	102010	5450	15.13
ARAMARK REFRESHMENT SERVICES	511171	COFFEE - PW/ENG	102110	5450	15.10
ARAMARK REFRESHMENT SERVICES	511171	COFFEE - PW/ENG	502010	5450	15.13
ARAMARK REFRESHMENT SERVICES	511171	COFFEE - PW/ENG	542010	5450	<u>15.13</u>
					60.49
ARTHUR J. GALLAGHER RISK MNGMNT SRVCS INC	1899776	ENVIRONMENTAL LIABILITY POLICY: OCT 16 - SEP 17	102010	5350	3,015.00
ARTHUR J. GALLAGHER RISK MNGMNT SRVCS INC	1899776	ENVIRONMENTAL LIABILITY POLICY: OCT 16 - SEP 17	542010	5350	<u>3,015.00</u>
					6,030.00
ATOMATIC MECHANICAL SERVICES INC	SRV16-13516	HVAC REPAIR	101330	5322	721.00
BANNERVILLE USA	21894	RECYCLE LIGHT POLE BANNER	101330	5410	187.50
BANNERVILLE USA	22090	HARVEST FEST BANNERS	101210	5387	<u>535.00</u>
					722.50
BARSKY, CHARLES	457728/52993	75 SEQUOIA/DEPOSIT REFUND	910000	2423	5,000.00
BERG, CARL	556127	TREE APPLICATION REFUND	100001	4232	75.00
BERNSTEIN, MARK	553432/56547	1412 GREENWOOD/DEPOSIT REFUND	910000	2423	500.00
BLAZING STAR INC	366	MONARCH PLEDGE - EDUCATIONAL EVENT SPEAKER	101210	5387	150.00
BMW PLUMBING, INC.	77068	BUILDING MAINTENANCE	106010	5320	49.00
BMW PLUMBING, INC.	77079	BUILDING MAINTENANCE	106010	5320	289.00
BMW PLUMBING, INC.	81602	BUILDING MAINTENANCE	106010	5320	<u>408.00</u>
					746.00
BOLLINGER LACH & ASSOCIATES INC	18081-14	BRIERHILL RD RECON/PH II/080116-083116	222082	5362	7,243.73
BURK, ERIC	08122016	MISC TRAVEL EXP REIMB: MAY 16 - AUG 16	101111	5332	199.22
BURK, ERIC	09142016	TRAVEL EXP REIMB - IGOA CONF/MICA MEETING	101111	5211	<u>677.28</u>
					876.50
BURNS, GLENN	554611/56650	1176 ROBBIE CT/DEPOSIT REFUND	910000	2423	200.00
CALL ONE	1119314-091516	HARDLINE TELECOM - SEP 16	101111	5540	134.73
CALL ONE	1119314-091516	HARDLINE TELECOM - SEP 16	101330	5540	72.78
CALL ONE	1119314-091516	HARDLINE TELECOM - SEP 16	102010	5540	104.13
CALL ONE	1119314-091516	HARDLINE TELECOM - SEP 16	102110	5540	104.13
CALL ONE	1119314-091516	HARDLINE TELECOM - SEP 16	106010	5550	279.89
CALL ONE	1119314-091516	HARDLINE TELECOM - SEP 16	502010	5540	279.76
CALL ONE	1119314-091516	HARDLINE TELECOM - SEP 16	542010	5540	33.68
CALL ONE	1119314-091516	HARDLINE TELECOM - SEP 16	542052	5540	184.77
CALL ONE	1119314-091516	HARDLINE TELECOM - SEP 16	602019	5550	38.72
CALL ONE	1119314-091516	HARDLINE TELECOM - SEP 16	702050	5540	35.74
CALL ONE	1119314-091516	HARDLINE TELECOM - SEP 16	930000	2150	<u>1,872.48</u>
					3,140.81
CAPLAN, BEN OR NANJI	555510	TREE APPLICATION REFUND	100001	4232	75.00
CARLISLE PLACE LLC	46-0645/REF	UTILITY ACCOUNT CREDIT BALANCE REFUND	540000	1270	44.85
CASPI, ILAN	10-0780/REFUND	UTILITY ACCOUNT CREDIT BALANCE REFUND	500000	1270	109.65
CDW GOVERNMENT INC	FHM3838	PRINTER TONER - BOOKING AREA	106010	5460	159.72
CHICAGO TRIBUNE MEDIA GROUP	CTCM577717	LEGAL NOTICE: AMERICAN MATTRESS/CI PROPS/090816	101330	5336	44.29

Vendor	Invoice #	Description	Org	Obj	Total Invoice
CINTAS	022364187	MATS - PW/ENG/TRN STN	102010	5320	96.46
CINTAS	022364187	MATS - PW/ENG/TRN STN	102038	5320	96.45
CINTAS	022364187	MATS - PW/ENG/TRN STN	502010	5320	96.46
CINTAS	022364187	MATS - PW/ENG/TRN STN	542010	5320	96.46
CINTAS	022364188	CLOTHING - OSTMAN	542010	5130	30.20
CINTAS	022364189	MATS - WRF	542052	5320	99.23
CINTAS	022367174	MATS - VH	101111	5320	64.45
CINTAS	022370186	MATS - VH	101111	5320	64.45
					<u>644.16</u>
CIRAL, DANIEL P.	462045/53392	321 EARLS CT/DEPOSIT REFUND	910000	2423	5,000.00
COMCAST CABLE	46140918	VOICE TRUNK SERVICE (VH) - SEP 16	101111	5540	18.98
COMCAST CABLE	46140918	VOICE TRUNK SERVICE (VH) - SEP 16	101210	5540	18.98
COMCAST CABLE	46140918	VOICE TRUNK SERVICE (VH) - SEP 16	101330	5540	18.98
COMCAST CABLE	46140918	VOICE TRUNK SERVICE (VH) - SEP 16	102010	5540	3.80
COMCAST CABLE	46140918	VOICE TRUNK SERVICE (VH) - SEP 16	102110	5540	9.49
COMCAST CABLE	46140918	VOICE TRUNK SERVICE (VH) - SEP 16	106010	5550	18.98
COMCAST CABLE	46140918	VOICE TRUNK SERVICE (VH) - SEP 16	502010	5540	2.84
COMCAST CABLE	46140918	VOICE TRUNK SERVICE (VH) - SEP 16	542052	5540	2.84
					<u>94.89</u>
COMED	0210000007-082316	A/C 0210000007 07/22/2016 TO 08/23/2016	542052	5510	33.51
COMED	0263148072-081916	A/C 0263148072 07/21/2016 TO 08/19/2016	502031	5510	101.10
COMED	0297076067-082416	A/C 0297076067 07/25/2016 TO 08/24/2016	542052	5510	82.57
COMED	0441157035-081916	A/C 0441157035 07/21/2016 TO 08/19/2016	102050	5510	35.44
COMED	0593070056-081916	A/C 0593070056 07/21/2016 TO 08/19/2016	102050	5510	33.03
COMED	0603118092-082316	A/C 0603118092 07/23/2016 TO 08/22/2016	542052	5510	31.44
COMED	0744127017-082416	A/C 0744127017 07/25/2016 TO 08/24/2016	542052	5510	43.48
COMED	1093039047-081916	A/C 1093039047 07/21/2016 TO 08/19/2016	602038	5510	19.19
COMED	1695047067-081716	A/C 1695047067 07/19/2016 TO 08/17/2016	102050	5510	2,536.91
COMED	2055118031-081916	A/C 2055118031 07/21/2016 TO 08/19/2016	102050	5510	35.01
					<u>2,951.68</u>
COMMUNICATIONS REVOLVING FUND	T1703080	COMMUNICATIONS SERVICES - JUL 16	176020	5550	506.40
CORTESI, JAMES	538530/55829	1042 FAIR OAKS/DEPOSIT REFUND	910000	2423	500.00
CORTESI, JAMES	550678/56309	1042 FAIR OAKS/DEPOSIT REFUND	910000	2423	500.00
					<u>1,000.00</u>
CPS COMPANIES/CHICAGO PARTS & SOUND LLC	785506	SQUAD BRAKE STOCK	702050	5470	297.32
CRAFTWOOD LUMBER CO	221771	WASP SPRAY	101210	5460	4.99
CRAFTWOOD LUMBER CO	221771	WASP SPRAY	106010	5460	4.99
					<u>9.98</u>
CUMMINS NPOWER LLC	711-36274	GENERATOR MAINTENANCE	106010	5320	4,269.35
DEERFIELD DAVIS DEVELOPMENT LLC	490719/53696/1ST	1331 HOLLY/DEPOSIT REFUND	910000	2423	5,000.00
DEERFIELD DAVIS DEVELOPMENT LLC	492261/53970/A	1331 HOLLY/DEPOSIT REFUND	910000	2423	6,500.00
DEERFIELD DAVIS DEVELOPMENT LLC	492261/53970/B	1331 HOLLY LN/DEPOSIT REFUND	910000	2423	200.00
					<u>11,700.00</u>
DEVRIES, STEPHEN	553635/56522	520 CARRIAGE WAY/DEPOSIT REFUND	910000	2423	200.00
DIXON ENGINEERING, INC	16-0990	WATER TOWER (VERIZON) ANTENNA INSPECTION #1	101210	5365	950.00
DOUGLAS TRUCK PARTS	19185	SHOP AIR HOSE	702050	5440	119.95
DOUGLAS TRUCK PARTS	19339	LIGHTS - T-3	702050	5470	23.93
					<u>143.88</u>
EBROON, DAVID OR KAREN	556311	TREE APPLICATION REFUND	100001	4232	75.00
EMERING, SCOTT	556896	TREE APPLICATION REFUND	100001	4232	75.00
FERGUSON WATERWORKS	0209345	HYDRANT METERS	502050	5421	2,352.45
FITZGERALD, DAVID	1546	EXP REIMB - PUBLIC ART OPEN HOUSE	101210	5387	18.69
FITZGERALD, DAVID	2511	EXP REIMB - PUBLIC ART OPEN HOUSE	101210	5387	99.55
FITZGERALD, DAVID	209948	EXP REIMB - PUBLIC ART OPEN HOUSE	101210	5387	40.38
					<u>158.62</u>
GADDY, ROBERT	22-0425/REFUND	UTILITY ACCOUNT CREDIT BALANCE REFUND	500000	1270	183.66
GALLS LLC	006000104	APPAREL: CACHOLA	106034	5130	93.30
GASVODA & ASSOC INC	16IS0535	SERVICE CALL - WRF	542052	5322	1,094.80
GB SPRINKLER SYSTEMS INC	48986	SPRINKLER REPAIRS	102037	5914	1,876.00
GEWALT-HAMILTON ASSOCIATES INC	4382.815-3	NORTH AVE/PHASE III/072516-082116	222082	5362	25,268.05
GEWALT-HAMILTON ASSOCIATES INC	4625.100-1G	NORTHWEST QUADRANT PARKING PLAN	101210	5365	3,259.00
					<u>28,527.05</u>
GMIS ILLINOIS	1057	GMIS CONFERENCE FEE - MULVANY	101210	5331	250.00
GOLDBERG, BETH AND RICHARD	554023/56388	40 COLONY LN/DEPOSIT REFUND	910000	2423	500.00
GOLDBERG, BETH AND RICHARD	554023/TMR	40 COLONY/TREE MITIGATION REFUND	100001	4462	2,250.00
					<u>2,750.00</u>
GOLDING, JAMES L	553467/56521	1664 GARAND DR/DEPOSIT REFUND	910000	2423	200.00
GOVT FINANCE OFFICERS ASSN	0143002-09062016	DUES - BURK	101111	5330	190.00

Vendor	Invoice #	Description	Org	Obj	Total Invoice
GRAINGER INC	9218638105	DRIVE BELTS - WRF	542052	5470	62.55
GRAINGER INC	9225382697	HVAC REPAIR	101210	5322	<u>54.64</u>
					117.19
GRAPHIC ARTS STUDIO INC	71554	HARVEST FEST DIRECT MAILER	101210	5335	1,236.00
GRAYBAR ELECTRIC COMPANY INC	987230399	LED LIGHT FIXTURES	102050	5421	4,883.20
GREENFIELD, ERIC	541792/56045	1685 LAKE ELEANOR/DEPOSIT REFUND	910000	2423	500.00
GROUNDHOG UTILITY CONSTRUCTION	526297/11295	WATER METER DEPOSIT REFUND LESS USAGE	500001	4452	(156.88)
GROUNDHOG UTILITY CONSTRUCTION	526297/11295	WATER METER DEPOSIT REFUND LESS USAGE	910000	2425	<u>850.00</u>
					693.12
GS SYSTEMS INC	13410	SCADA SOFTWARE	542052	5370	3,057.80
GUY SCOPELLITI ORIGINAL LANDSCAPING CO.	29713	CLEAN UP - 1219 CARLISLE PLACE	101210	5365	233.75
GUY SCOPELLITI ORIGINAL LANDSCAPING CO.	29770	REMOVE STRAW BLANKET AND CLEAN UP - WOODVALE	102037	5365	<u>720.00</u>
					953.75
HAVEY COMMUNICATIONS, INC	6773	F-150 EQUIPMENT	211150	5860	9,273.55
HAVEY COMMUNICATIONS, INC	6790	VEHICLE MAINTENANCE	106034	5326	<u>65.00</u>
					9,338.55
HBK WATER METER SERVICE, INC	16-638	LARGE WATER METER TESTING	502054	5365	5,938.55
HI FI EVENTS INC	BSE-54328	HARVEST FEST STAGE - FINAL PAYMENT	101210	5387	2,000.00
HI FI EVENTS INC	BSE-54329	HARVEST FEST HEADLINER BAND	101210	5387	<u>3,500.00</u>
					5,500.00
HOBBS, VALERIE J.	24-0620/REFUND	UTILITY ACCOUNT CREDIT BALANCE REFUND	500000	1270	68.61
HOME DEPOT CREDIT SERVICES	0593957	CONDUIT/MATERIALS - WRF	542052	5470	172.31
HOME DEPOT CREDIT SERVICES	3060288	OPERATING SUPPLIES - LIGHT BULBS	101111	5460	46.92
HOME DEPOT CREDIT SERVICES	3060288	OPERATING SUPPLIES - LIGHT BULBS	101330	5460	7.82
HOME DEPOT CREDIT SERVICES	3060288	OPERATING SUPPLIES - LIGHT BULBS	106010	5460	101.67
HOME DEPOT CREDIT SERVICES	6064453	TRAIN STATION MAINT MATERIALS	102038	5320	113.80
HOME DEPOT CREDIT SERVICES	9022289	LUMBER AND SUPPLIES	502050	5421	67.68
HOME DEPOT CREDIT SERVICES	9202624	CREDIT MEMO RETURNED ITEM(S) - WRF	542052	5470	<u>(32.84)</u>
					477.36
HUFF & HUFF INC	0724714	DFLD RD PUMP STN UST REPL DESIGN/THRU 082616	222082	5362	119.50
ILLINOIS SECTION AWWA	200024849	SEMINAR - GEHRKE/LENZ	502010	5210	84.00
ILLINOIS STATE POLICE	083116	FINGERPRINT FEES	106010	5387	119.00
INSIGHT PUBLIC SECTOR	1100497470	LAPTOP - INVESTIGATIONS	106033	5810	1,397.93
JELLI GOODS LLC	2044D	HARVEST FEST T-SHIRTS	101210	5387	300.00
JETT, RICHARD	09132016	TRAINING TRAVEL EXP REIMB - IGFOA CONF/NORMAL, IL	101111	5211	533.48
JG UNIFORMS, INC	6438	BODY ARMOR: FOSTER	106034	5130	688.71
JG UNIFORMS, INC	6451	RETIREMENT BADGE	106034	5130	187.75
JG UNIFORMS, INC	6452	BADGE: #26 HAT SHIELD	106010	5130	73.00
JG UNIFORMS, INC	6454	BADGE: #26 CHEST BADGE	106010	5130	87.50
JG UNIFORMS, INC	6455	APPAREL: KUCEBA	106020	5130	57.00
JG UNIFORMS, INC	6456	APPAREL: SLIOZIS	106010	5130	<u>66.95</u>
					1,160.91
JOHN WILEY & SONS, INC	761313	CHILD & ADOLESCENT PSYCHOPHARMACOLOGY UPDATE	106033	5213	99.50
KATZ, DANIEL AND JILL	478407/53896/1	1319 STRATFORD/DEPOSIT REFUND	910000	2423	200.00
KEEFER, GUY	555140	TREE APPLICATION REFUND	100001	4232	75.00
KIESLER'S POLICE SUPPLY INC	0804219	AMMUNITION	106034	5460	3,766.52
KRATOS PUBLIC SAFETY & SECURITY	SM25041	DOOR ACCESS SERVICE CALL - WRF	542052	5322	917.98
KUK, KAE	554801	TREE APPLICATION REFUND	100001	4232	75.00
LAKE COUNTY RECORDER	2016-00049684	COPY PLAT/DOC 2632407	101330	5365	5.00
LAKE COUNTY RECORDER	2016-00049825	COPY PLAT - DOC988996/COPY VIA EMAIL - DOC2644068	101330	5365	14.00
LAKE COUNTY RECORDER	2016-00049939	REC FEE - TAYLOR JUNCTION PLAT OF RESUBDIVISION	101330	5365	77.00
LAKE COUNTY RECORDER	2016-00051067	COPY PLAT/COPY VIA EMAIL - DOC 2179958	101330	5365	11.00
LAKE COUNTY TREASURER	430020861	TRAFFIC SIGNAL MAINT: 06/01/2016 THRU 08/31/2016	102050	5611	<u>2,420.28</u>
					2,527.28
LAPPORTE, RONALD OR GINNY	555610	TREE APPLICATION REFUND	100001	4232	75.00
LAWSON PRODUCTS INC	9304353305	OPERATING SUPPLIES	502050	5421	186.10
MACK, CHARLES AND CYNDE	551231/55419	1233 BLACKTHORN/DEPOSIT REFUND	910000	2423	200.00
MACK, CHARLES AND CYNDE	551459/55419	1233 BLACKTHORN/DEPOSIT REFUND	910000	2423	<u>500.00</u>
					700.00
MAG CONSTRUCTION	16-064	SPLITTER BOX REPAIR PROJECT	222082	5990	49,875.00
MANOR HOMES OF DEERFIELD HOA	555239	TREE APPLICATION REFUND	100001	4232	75.00
MCESSY INVESTMENT COMPANY	090216	PRISONER MEALS: AUG 16	106010	5460	65.84
MCHENRY ANALYTICAL WATER LABORATORY, INC	591702	INDEPENDENT LAB TESTING	542052	5365	45.00
MENONI & MOCOJNI, INC.	1203752	HAND TOOLS	502050	5421	121.50
MERTES, WILLIAM OR ELIZABETH	555139	TREE APPLICATION REFUND	100001	4232	75.00
METLIFE	SEP16	DENT/SEP16/KM057128160001	100000	1613	(413.27)
METLIFE	SEP16	DENT/SEP16/KM057128160001	100000	2437	1,793.53
METLIFE	SEP16	DENT/SEP16/KM057128160001	100000	2438	1,089.96
METLIFE	SEP16	DENT/SEP16/KM057128160001	100000	2439	60.21
METLIFE	SEP16	DENT/SEP16/KM057128160001	100000	2439	3,995.66
METLIFE	SEP16	DENT/SEP16/KM057128160001	730000	2061	<u>10,455.42</u>
					16,981.51

Vendor	Invoice #	Description	Org	Obj	Total Invoice
MOSCONI - ENRICO LANDSCAPE CONTRACTORS INC	T33215	TREE REMOVAL - HEATHER CENTER ISLAND	102050	5365	200.00
MOSCONI - ENRICO LANDSCAPE CONTRACTORS INC	T33216	WEED CONTROL - RAIN GARDEN	102050	5365	340.00
MOSCONI - ENRICO LANDSCAPE CONTRACTORS INC	T33217	WEED CONTROL - TRAIN STATION	102038	5320	560.00
MOSCONI - ENRICO LANDSCAPE CONTRACTORS INC	T33218	EXCAVATE/WRAP/TRANSPORT TREES	102037	5914	<u>1,920.00</u>
					3,020.00
MURRAY AND TRETTEL INC	0916-71	WEATHER STATION	102010	5320	1,575.00
NAPA AUTO PARTS - WHEELING	405586	STOCK FILTERS	702050	5470	43.20
NAPA AUTO PARTS - WHEELING	406073	STOCK FILTERS	702050	5470	48.72
NAPA AUTO PARTS - WHEELING	406074	STOCK FILTERS	702050	5470	<u>4.06</u>
					95.98
NORTH SHORE GAS	3500001963721-081816	A/C 3500001963721 07/15/2016 TO 08/16/2016	542052	5520	1,249.94
NORTH SHORE GAS	3500025944094-081916	A/C 3500025944094 07/19/2016 TO 08/19/2016	502031	5520	238.15
NORTH SHORE GAS	8500044844380-081916	A/C 8500044844380 06/17/2016 TO 08/19/2016	101111	5520	<u>71.83</u>
					1,559.92
NORTHWEST POLICE ACADEMY	090816	TRAINING: (7) PARTICIPANTS	106010	5212	210.00
OFFICE DEPOT	862709188001	OFFICE SUPPLIES	101111	5450	183.62
O'LEARY'S CONTRACTORS EQUIPMENT & SUPPLY	188206	TOOTH ASSEMBLY FOR BOBCAT	102050	5322	122.78
O'LEARY'S CONTRACTORS EQUIPMENT & SUPPLY	188206	TOOTH ASSEMBLY FOR BOBCAT	502050	5322	122.76
O'LEARY'S CONTRACTORS EQUIPMENT & SUPPLY	188206	TOOTH ASSEMBLY FOR BOBCAT	542031	5322	122.78
O'LEARY'S CONTRACTORS EQUIPMENT & SUPPLY	188251	BUCKET FOR BOBCAT	102050	5322	605.00
O'LEARY'S CONTRACTORS EQUIPMENT & SUPPLY	188251	BUCKET FOR BOBCAT	502050	5322	605.00
O'LEARY'S CONTRACTORS EQUIPMENT & SUPPLY	188251	BUCKET FOR BOBCAT	542031	5322	605.00
O'LEARY'S CONTRACTORS EQUIPMENT & SUPPLY	188260	STRAINER BASKETS	502050	5421	<u>201.00</u>
					2,384.32
OPTIMIST CLUB OF DEERFIELD	2016-2017	DUES: GLOWACZ	106020	5330	99.00
OSTMAN, JASON	7299	CLOTHING REIMBURSEMENT	542010	5130	49.61
OTTENFELD, MARSHALL	555299-REFUND	REFUND RPZ PAYMENT - NOT REQUIRED	500001	4452	45.00
PAGEFREEZER SOFTWARE INC	INV-2903	SOCIAL MEDIA ARCHIVING SERVICE	101210	5370	<u>3,788.00</u>
PASALIS, PETER AND INNA	545674/56039	1330 CHARING CROSS/DEPOSIT REFUND	910000	2423	200.00
PASALIS, PETER AND INNA	545675/56039	1330 CHARING CROSS/DEPOSIT REFUND	910000	2423	<u>500.00</u>
					700.00
PERMA-LIFE	1638	WINDOW REPAIR - TRAIN STATION	102038	5321	1,425.00
PETER BAKER & SON CO.	13191	BLACK TOP	502050	5421	720.63
PETERSON, RONALD	553632/56563	1153 KENTON RD/DEPOSIT REFUND	910000	2423	200.00
PETTY CASH - POLICE	092216	RECONCILE & REPLENISH PETTY CASH	106010	5212	45.00
PETTY CASH - POLICE	092216	RECONCILE & REPLENISH PETTY CASH	106010	5460	276.70
PETTY CASH - POLICE	092216	RECONCILE & REPLENISH PETTY CASH	106020	5211	54.00
PETTY CASH - POLICE	092216	RECONCILE & REPLENISH PETTY CASH	106020	5212	20.00
PETTY CASH - POLICE	092216	RECONCILE & REPLENISH PETTY CASH	106033	5211	11.00
PETTY CASH - POLICE	092216	RECONCILE & REPLENISH PETTY CASH	106034	5130	32.97
PETTY CASH - POLICE	092216	RECONCILE & REPLENISH PETTY CASH	106034	5211	<u>352.69</u>
					792.36
PINSKY, STEFFANIE AND GREG	486564/TMR	325 KINGSTON/TREE MITIGATION REFUND	100001	4462	5,275.00
PINSKY, STEFFANIE AND GREG	547375/TMR	325 KINGSTON/TREE MITIGATION REFUND	100001	4462	<u>281.25</u>
					5,556.25
POLICE LAW INSTITUTE	13059	MONTHLY TRAINING	106034	5212	4,992.00
QUILL CORPORATION	9135781	OFFICE SUPPLIES	102110	5450	27.00
QUILL CORPORATION	9135781	OFFICE SUPPLIES	502010	5450	128.79
QUILL CORPORATION	9135781	OFFICE SUPPLIES	542010	5450	<u>40.68</u>
					196.47
RADICOM	102542	RADIO REPAIR	176020	5323	332.50
RED'S GARDEN CENTER INC	19706	TOPSOIL	502050	5421	165.00
RED'S GARDEN CENTER INC	19714	TOPSOIL	502050	5421	<u>198.00</u>
					363.00
REDZONE ROBOTICS	INV-11088	YES PROGRAM/11 OF 17	222082	5990	28,681.86
RITTER, GERALD AND ROBERTA	541239/55970	937 FOREST/DEPOSIT REFUND	910000	2423	500.00
RJN GROUP INC	13	I/ REDUCTION PROGRAM PHASE V THRU 09/02/2016	222082	5362	4,477.50
RJN GROUP INC	11229210-02-A	II REDUCTION PROGRAM 2016 P/S THRU 09/02/2016	222082	5362	<u>2,075.00</u>
					6,552.50
ROGOSICH, JON	556993	TREE APPLICATION REFUND	100001	4232	75.00
ROLLIN, ARTHUR OR SANDRA	555555	TREE APPLICATION REFUND	100001	4232	75.00
ROSENTHAL, MURPHEY, COBLENTZ & DONAHUE	142M09082016	VILLAGE ATTORNEY SERVICES - AUG 16	101210	5360	10,766.61
ROTARY CLUB OF DEERFIELD	1008	DUES - STREET	101210	5330	219.00
ROTHSTEIN, JEFFREY AND BARBARA	479563/53885	407 BRIERHILL/DEPOSIT REFUND	910000	2423	200.00
RUBINO ENGINEERING INC	3062	2016 STREET REHAB/PAVEMENT CORE TESTING	102110	5362	1,419.00
RYDIN SIGN & DECAL	324134-B	TAXI INSPECTION DECALS	106010	5335	600.80
SAMPSON, VAL F.	16142	PRINTING - D-TALES SEP/OCT 2016	101210	5335	<u>1,948.00</u>
					15,303.41
SAM'S CLUB DIRECT	3165	OPERATING SUPPLIES	101210	5460	87.39
SAM'S CLUB DIRECT	3165	OPERATING SUPPLIES	101330	5460	8.74
SAM'S CLUB DIRECT	3165	OPERATING SUPPLIES	102010	5460	8.73
SAM'S CLUB DIRECT	3165	OPERATING SUPPLIES	102038	5460	34.96
SAM'S CLUB DIRECT	3165	OPERATING SUPPLIES	106010	5460	34.96

Vendor	Invoice #	Description	Org	Obj	Total Invoice
SANDBERG, THOMAS	553656/56235/1	1342 KENTON/DEPOSIT REFUND	910000	2423	500.00
SANDBERG, THOMAS	553656/56235/2	1342 KENTON/DEPOSIT REFUND	910000	2410	1,000.00
					1,500.00
SAPIR, JONATHAN	34-0530/REF	UTILITY ACCOUNT CREDIT BALANCE REFUND	500000	1270	118.33
SCIARRETTA ENTERPRISES, INC	16-185498	BRUSH CLEAN UP AND REMOVAL- LAKE COOK/WAUKEGAN	102037	5365	2,152.70
SCIARRETTA ENTERPRISES, INC	16-185500	TRIM BUSHES AND WEEDS	102050	5365	545.00
SCIARRETTA ENTERPRISES, INC	16-185501	WEED CONTROL - LAKE COOK RD	102050	5365	595.00
SCIARRETTA ENTERPRISES, INC	16-185502	TRIM BUSHES - DEERFIELD RD & CASTLEWOOD	102050	5365	210.00
SCIARRETTA ENTERPRISES, INC	16-185503	WEED CONTROL - LAKE COOK RD	102050	5365	1,600.00
SCIARRETTA ENTERPRISES, INC	16-185504	CLEAN UP - SPUR BRIDGE AT PFINGSTEN	102050	5365	420.00
SCIARRETTA ENTERPRISES, INC	16-185524	STUMP AND CHIP REMOVAL	102037	5365	850.00
SCIARRETTA ENTERPRISES, INC	16-185529	BRUSH/STUMP/CHIP REMOVAL	102037	5365	425.00
					6,797.70
SHAPIRO, STACY	37-0265/REFUND	UTILITY ACCOUNT CREDIT BALANCE REFUND	500000	1270	72.61
SHI INTERNATIONAL CORP	B05479447	LAPTOP - MECHANIC	702050	5810	1,504.00
SIMON, JODI AND STEVE	482679/TMR	850 NORTHWOODS/TREE MITIGATION REFUND	100001	4462	6,062.50
SPRING-ALIGN OF PALATINE INC	104714	REAR SPRING MAINT - #603	702050	5470	503.60
SPRING-ALIGN OF PALATINE INC	104776	REAR SPRINGS - #700	702050	5470	451.55
					955.15
ST PETER, CHRISTOPHER	54-0340/REFUND	UTILITY ACCOUNT CREDIT BALANCE REFUND	500000	1270	52.64
STRAND ASSOCIATES INC	0122935	STORM STN CONTROL PANEL REPLACEMENT: 080116-083116	222082	5362	2,791.71
STRAND ASSOCIATES INC	0122936	OPERATIONAL ASSISTANCE - AUG 16	542052	5362	755.23
STRAND ASSOCIATES INC	0122937	WILMOT RD LIFT STN DESIGN: 080116-083116	222082	5990	6,259.30
STRAND ASSOCIATES INC	0123094	COLLECTION SYSTEM CIP DEVELOPMENT: 070116 - 083116	222082	5362	2,172.79
					11,979.03
SUBURBAN ACCENTS, INC	24043	GRAPHICS - SQUAD #10	211150	5860	450.00
THE CHEVY EXCHANGE	47785	PARTS - #803	702050	5470	203.56
THELEN MATERIALS LLC	339531	STONE/CLEAN FILL DUMP	502050	5421	2,084.01
THOMSON REUTERS - WEST	834656478	CLEAR PLUS: AUG 16	106010	5370	182.99
TRC	197122	2016 MS4 COMPLIANCE /NPDES: THRU 06/24/2016	102110	5362	2,198.34
ULINE	79867584	EVIDENCE BOXES	106034	5460	165.81
ULINE	79998301	OFFICE SUPPLIES	106010	5450	131.16
ULINE	80151479	DRUG DISPOSAL BOXES	106010	5460	99.06
					396.03
UNITED RADIO COMMUNICATIONS INC	10211813-1	SQUAD RADIO MAINT	106034	5326	79.50
UNITED RENT-A-FENCE INC	17000	HARVEST FEST FENCE	101210	5387	1,680.00
URBAN FOREST MANAGEMENT INC	160844	FORESTRY SERVICES - AD HOC/AUG 16	102037	5365	1,997.50
URBAN FOREST MANAGEMENT INC	160845	FORESTRY SERVICES - PARKWAY TREES/AUG 16	102037	5365	340.00
URBAN FOREST MANAGEMENT INC	160846	FORESTRY SERVICES - INSPECTIONS/AUG 16	102037	5365	837.50
					3,175.00
URS CORPORATION	14-37807392	KATES RD BRIDGE/PH I/072316-082616	222082	5362	2,494.44
VERIZON WIRELESS	9771811356	SCADA CELLULAR SERVICE - SEP 16	502010	5540	118.30
VERIZON WIRELESS	9771811356	SCADA CELLULAR SERVICE - SEP 16	542052	5540	255.48
VERIZON WIRELESS	9771811357	PW MESSAGE BOARDS CELLULAR SERVICE - SEP 16	102110	5540	20.04
VERIZON WIRELESS	9772319741	MONTHLY CELLULAR TELECOM - SEP 16	101111	5540	21.12
VERIZON WIRELESS	9772319741	MONTHLY CELLULAR TELECOM - SEP 16	101210	5540	188.04
VERIZON WIRELESS	9772319741	MONTHLY CELLULAR TELECOM - SEP 16	101330	5540	189.17
VERIZON WIRELESS	9772319741	MONTHLY CELLULAR TELECOM - SEP 16	102010	5540	207.58
VERIZON WIRELESS	9772319741	MONTHLY CELLULAR TELECOM - SEP 16	102110	5540	253.39
VERIZON WIRELESS	9772319741	MONTHLY CELLULAR TELECOM - SEP 16	106010	5550	571.10
VERIZON WIRELESS	9772319741	MONTHLY CELLULAR TELECOM - SEP 16	106034	5550	264.84
VERIZON WIRELESS	9772319741	MONTHLY CELLULAR TELECOM - SEP 16	502010	5540	228.62
VERIZON WIRELESS	9772319741	MONTHLY CELLULAR TELECOM - SEP 16	542010	5540	228.66
VERIZON WIRELESS	9772319741	MONTHLY CELLULAR TELECOM - SEP 16	542052	5540	228.91
VERIZON WIRELESS	9772319741	MONTHLY CELLULAR TELECOM - SEP 16	702050	5540	82.67
VERIZON WIRELESS	9772319742	CELLULAR SERVICE FOR DATA DEVICES - SEP 16	101210	5540	42.38
VERIZON WIRELESS	9772319742	CELLULAR SERVICE FOR DATA DEVICES - SEP 16	101330	5540	42.38
VERIZON WIRELESS	9772319742	CELLULAR SERVICE FOR DATA DEVICES - SEP 16	102010	5540	42.38
VERIZON WIRELESS	9772319742	CELLULAR SERVICE FOR DATA DEVICES - SEP 16	102110	5540	21.19
VERIZON WIRELESS	9772319742	CELLULAR SERVICE FOR DATA DEVICES - SEP 16	106034	5550	211.89
VERIZON WIRELESS	9772319742	CELLULAR SERVICE FOR DATA DEVICES - SEP 16	176020	5550	148.32
VERIZON WIRELESS	9772319742	CELLULAR SERVICE FOR DATA DEVICES - SEP 16	502010	5540	63.57
VERIZON WIRELESS	9772319742	CELLULAR SERVICE FOR DATA DEVICES - SEP 16	542010	5540	21.19
VERIZON WIRELESS	9772319742	CELLULAR SERVICE FOR DATA DEVICES - SEP 16	542052	5540	21.18
					3,472.40

**Village of Deerfield Payroll Summary Report
SEPTEMBER 2016**

FUND 10 GENERAL FUND

FINANCE DEPARTMENT

101111	5110	REGULAR SALARIES	\$ 77,123.13
101111	5111	PART TIME SALARIES	-
101111	5112	OVERTIME SALARIES	-

ADMINISTRATION

101210	5110	REGULAR SALARIES	86,171.62
101210	5111	PART TIME SALARIES	3,884.29
101210	5112	OVERTIME SALARIES	-

COMMUNITY DEVELOPMENT

101330	5110	REGULAR SALARIES	88,855.65
101330	5111	PART TIME SALARIES	
101330	5112	OVERTIME SALARIES	436.96

STREET ADMINISTRATION

102010	5110	REGULAR SALARIES	29,558.36
102010	5111	PART TIME SALARIES	-
102010	5112	OVERTIME SALARIES	578.39

STREET SNOW & ICE REMOVAL

102036	5110	REGULAR SALARIES	-
102036	5111	PART TIME SALARIES	-
102036	5112	OVERTIME SALARIES	-

STREET FORESTRY

102037	5110	REGULAR SALARIES	-
102037	5111	PART TIME SALARIES	-
102037	5112	OVERTIME SALARIES	113.28

STREET TRAIN STATION MAINT

102038	5110	REGULAR SALARIES	828.60
102038	5111	PART TIME SALARIES	-
102038	5112	OVERTIME SALARIES	-

STREET MAINTENANCE

102050	5110	REGULAR SALARIES	64,130.78
102050	5111	PART TIME SALARIES	-
102050	5112	OVERTIME SALARIES	2,731.34

ENGINEERING DIVISION

102110	5110	REGULAR SALARIES	33,329.64
102110	5111	PART TIME SALARIES	816.00
102110	5112	OVERTIME SALARIES	\$ 3,715.51

**Village of Deerfield Payroll Summary Report
SEPTEMBER 2016**

POLICE DEPT ADMINISTRATION

106010	5110	REGULAR SALARIES	\$ 55,005.61
106010	5111	PART TIME SALARIES	-
106010	5112	OVERTIME SALARIES	-

POLICE DEPT COMMUNICATIONS

106020	5110	REGULAR SALARIES	74,185.11
106020	5111	PART TIME SALARIES	5,285.36
106020	5112	OVERTIME SALARIES	2,566.05

POLICE DEPT INVESTIGATIONS

106033	5110	REGULAR SALARIES	77,804.44
106033	5112	OVERTIME SALARIES	4,451.71

POLICE DEPT PATROL

106034	5110	REGULAR SALARIES	357,279.40
106034	5111	PART TIME SALARIES	9,328.00
106034	5112	OVERTIME SALARIES	14,530.33

POLICE DEPT SPEC DETAIL (REIMBURSED)

106061	5112	OVERTIME SALARIES	28,450.93
		TOTAL FUND 10	<u>\$ 1,021,160.49</u>

FUND 50 WATER FUND

WATER DEPARTMENT ADMINISTRATION

502010	5110	REGULAR SALARIES	\$ 27,210.54
502010	5111	PART TIME SALARIES	-
502010	5112	OVERTIME SALARIES	847.93

WATER DEPT DISTRIBUTION

502031	5110	REGULAR SALARIES	9,519.01
502031	5112	OVERTIME SALARIES	1,407.59

WATER MAIN MAINTENANCE

502050	5110	REGULAR SALARIES	23,282.47
502050	5111	PART TIME SALARIES	-
502050	5112	OVERTIME SALARIES	3,261.52

WATER METER MAINTENANCE

502054	5110	REGULAR SALARIES	7,043.00
502054	5111	PART TIME SALARIES	-
502054	5112	OVERTIME SALARIES	1,698.52
		TOTAL FUND 50	<u>\$ 74,270.58</u>

**Village of Deerfield Payroll Summary Report
SEPTEMBER 2016**

FUND 54 SEWER FUND

SEWER ADMINISTRATION

542010	5110	REGULAR SALARIES	\$ 17,557.49
542010	5111	PART TIME SALARIES	-
542010	5112	OVERTIME SALARIES	-

SEWER LINE MAINTENANCE

542031	5110	REGULAR SALARIES	21,866.30
542031	5111	PART TIME SALARIES	-
542031	5112	OVERTIME SALARIES	729.94

SEWER CLEANING

542051	5110	REGULAR SALARIES	17,099.23
542051	5111	PART TIME SALARIES	-
542051	5112	OVERTIME SALARIES	1,474.07

WASTEWATER TREATMENT FACILITY

542052	5110	REGULAR SALARIES	73,990.13
542052	5111	PART TIME SALARIES	-
542052	5112	OVERTIME SALARIES	1,611.19
TOTAL FUND 54			\$ 134,328.35

FUND 58 REFUSE FUND

REFUSE LEAF COLLECTION

582053	5110	REGULAR SALARIES	\$ -
582053	5111	PART TIME SALARIES	-
582053	5112	OVERTIME SALARIES	-
TOTAL FUND 58			\$ -

FUND 60 PARKING LOTS - RESIDENTIAL

COMM PARK COMBINED REVENUE

602019	5110	REGULAR SALARIES	\$ 1,375.23
602038	5110	REGULAR SALARIES	1,375.23
602038	5112	OVERTIME SALARIES	-
TOTAL FUND 60			\$ 2,750.46

FUND 70 GARAGE FUND

GARAGE FUND EXPENDITURES

702050	5110	REGULAR SALARIES	\$ 17,990.08
702050	5112	OVERTIME SALARIES	172.30
TOTAL FUND 70			\$ 18,162.38

TOTAL ALL FUNDS \$ 1,250,672.26

To the Finance Director:

The payment of the above listed accounts has been approved by the Board of Trustees at their meeting held on October 4, 2016 and you are hereby authorized to pay them from the appropriate funds.

(Treasurer)

REQUEST FOR BOARD ACTION

Agenda Item: 16-101

Subject: Report and Recommendation of the Plan Commission re: Request for a Special Use for a Self-Improvement Facility for Shredd415 at 636 Deerfield Road (Bensenville Associates, LLC and Shred415 Deerfield, LLC)

Action Requested: Approval for Recommendation

Originated by: Plan Commission

Referred to: Mayor and Board of Trustees

Summary of Background and Reason for Request:

The petitioners are requesting a Special Use for a 3,279 square foot self-improvement facility offering cardio and strength training exercise classes at the northwest corner of the 636 Deerfield Road building. This Special Use request was continued from earlier this year at the request of the petitioners. Shred415 is a fitness studio offering high intensity cardio and strength training. The petitioners have indicated that the studio is mostly an appointment based business, but walk-ins are accepted if space is available. The Plan Commission is recommending approval of the special use.

Reports and Documents Attached:

Recommendation
Public Hearing Minutes
Workshop Minutes
Aerial Photo
Zoning Map
Petitioner's Materials

Date Referred to Board: October 4, 2016

Action Taken: _____

RECOMMENDATION

TO: Mayor and Board of Trustees

FROM: Plan Commission

DATE: September 8, 2016

RE: Request for approval of a Class B Special Use for a self-improvement facility for Shred415 at 636 Deerfield Road

We transmit for your consideration a recommendation adopted by the Plan Commission of the Village of Deerfield on the request of the petitioners for approval of a Class B Special Use for a self-improvement facility. The Plan Commission held a public hearing on September 8, 2016. At that public hearing, the petitioners presented testimony and documentary evidence in support of the request. A copy of the public hearing and workshop minutes are attached.

In support of its request, the Plan Commission makes the following findings of fact and conclusions:

FINDINGS OF FACT

Subject Property

The subject property consists of Deerfield Shopper's Court. The property is zoned C-1 Village Center District and consists of two buildings and two separate parking areas. The buildings in Shopper's Court consist of approximately 24,973 square feet total and the Shopper's Court property is approximately 71,874 square feet in area (1.65 acres). The easternmost building contained the former Overstock Furniture Sales with approximately 13,853 square feet. The westernmost building consists of the Deerfield Bank and Trust of approximately 2,892 square feet; the vacant former RHT kitchen and bath store of approximately 1,450 square feet; the Koenig & Strey real estate office of approximately 1,600 square feet; a Chinese restaurant (Golden Star Chinese Food) of approximately 1,070 square feet; a dry cleaners (Hanalei Cleaners) of approximately 1,217 square feet; and an Italian restaurant (Italian Kitchen Restaurant) of approximately 2,814 square feet. In 2007, the Village granted approval of the Deerfield Bank and Trust Special Use, and the petitioners made façade improvements to the westernmost building along with site improvements. Earlier this year, the Village approved major renovations to the 636 Deerfield Road building which includes the conversion of the single tenant building into a multiple tenant building.

Surrounding Land Use and Zoning

North: R-3 Single Family Residence District, single family homes

South: (across Deerfield Road) C-1 Village Center District, Deerfield Centre

East: C-1 Village Center District, publicly owned parking lot (Village of Deerfield)

West: C-1 Village Center District, U.S. Bank property

Special Use for Shred415

The petitioners are requesting a Special Use for a 3,279 square foot self-improvement facility offering cardio and strength training exercise classes at the northwest corner of the 636 Deerfield Road building. This Special Use request was continued from earlier this year at the request of the petitioners. Shred415 is a fitness studio offering high intensity cardio and strength training. It offers one hour total body workout with high quality equipment. The studio employs the top fitness experts in Chicago. Shred415 classes are one hour long with 30 people maximum in a class. The proposed hours of operation are 4:45 a.m. to 9 p.m., but will vary depending on the day of the week and class demand. The petitioners have indicated the busiest times are 6 a.m. to 9:45 a.m., and the studio is mostly an appointment based business, but walk-ins are accepted if space is available. The petitioner's written description indicates the total number of employees who will be employed by the business, and the maximum number of employees working at one time is 4 to 6.

The proposed fitness studio also offers child care for patrons of the business with Wii, TV, books, and games. The studio offers hair and skin products, and apparel, accessories, and healthy snacks and drinks. The floor plan shows a 25' by 50' studio, an office, storage, a front desk, a lobby area inside the entrance, locker rooms, and a child care room.

Parking

There is a provision in the Zoning Ordinance which addresses parking requirements in the C-1 Village Center District when a change in use occurs. The Zoning Ordinance states:

"Whenever the existing use of a building, structure or premises shall hereafter be changed to a new use, parking and loading facilities shall be provided as required for such new use. However, if the building or structure was lawfully erected prior to the effective date of this Ordinance, and it is located in the C-1 Village Center District, additional parking or loading facilities are mandatory only in the event the floor area of the building or structure is increased, and then only to the extent required by the additional space. Notwithstanding anything is the foregoing paragraph, all Special Use standards set forth in Article 13.11-D shall be applicable."

The petitioners are not planning to increase the building floor area and therefore no additional parking would be required based on the above provision. Although no additional parking is required to be provided on the subject property, parking is one of the Plan Commission criteria that is taken into account as part of the establishment of a Special Use. If the petitioner needs approval of Special Uses in the future, these use will be examined on a case by case basis.

Currently, there are approximately 89 parking spaces available on the Shopper’s Court property which includes both parking areas (the large parking lot to the north of the buildings with approximately 75 parking spaces, and the small parking lot in the front Italian Kitchen and other uses with 14 spaces).

The parking requirement for a recreational use is one (1) parking space for each three (3) patrons based on the capacity of the facility in terms of the largest number of patrons on the premises at one time. The petitioners indicate there will be a maximum of 36 patrons on the premises at one time, requiring 12 parking spaces for the fitness studio portion of the facility (36 patrons /3 = 12).

Under today’s parking requirements in the Zoning Ordinance, a total of 144 spaces would be required for the entire Shopper’s Court property (the 636 Deerfield Road building, and the 646 – 660 Deerfield Road building) based on the uses on subject property:

<u>Building Areas</u>		<u>Required Parking</u>
Proposed Shredd415:	3,279 s.f.	12 spaces
Remainder of 636 Bld.:	10,574 s.f.	52.87 spaces (calculated as retail)
Real estate office:	1,600 s.f.	6.4 spaces
Bank:	2,891 s.f.	14.5 spaces
Kitchen & bath store:	1,500 s.f.	7.5 spaces
Chinese restaurant:	1,069 s.f.	8.9 spaces
Dry cleaner:	1,217 s.f.	6.1 spaces
Italian restaurant:	2,814 s.f.	35.1 spaces
Total:	24,944 s.f.	144 spaces

- Retail stores require: One (1) space for each 200 square feet of gross floor area.
- Office uses require: One (1) space for each 250 square feet of gross floor area.
- Banks require: One (1) parking space for each 200 square feet of gross floor area.
- Sit down restaurants require: One (1) parking space for each 60 square feet of gross floor area.
- Carry out restaurants require: One (1) space for each 120 square feet of gross floor area.

Village Owned Parking Lot to the East of Shoppers Court

The Village owned parking lot to the east of the Shopper's Court property and on the west side of Rosemary Terrace, across the street from the Methodist Church, currently contains approximately 50 public parking spaces. There is a 1960 agreement between the property owner (at that time National Foods), the Church, and the Village. These entities helped to create the public parking lot. In the agreement, all the parties contributed money for the new lot. The agreement did not specify that so many parking spaces were assigned to each entity – the lot was for public parking purposes. The Village maintains this public parking lot. The Village recently granted the new owner of Shoppers Court a license agreement to allow improvements on the Village owned lot in conjunction with the major renovations to the 636 Deerfield Road building.

Parking and Traffic Study

The petitioners have submitted a parking and traffic study for the 636 Deerfield Road building. The study assumes a 3,200 square foot Shred415 fitness facility and the remaining 10,800 square foot of the 636 Deerfield Road building is divided up into a 1,900 square foot martial arts studio, and 2,300 square quick service restaurant and 6,500 square feet of specialty retail. The 636 Deerfield Road building is currently vacant during the major renovations, and Shred415 will be the first use to occupy the renovated building. The study provides the existing traffic volumes (page 9), and the estimated site generated traffic volumes for the various uses (page 11, table 2 and page 13, figure 6) along with the year 2022 total projected traffic volumes (page 14, figure 7). Page 22 of the study analyzes the parking needs of the future tenants including Shred415, which the peak parking demand is 28 spaces on a weekday and 20 spaces on a Sunday according to Table 7. Table 7 also indicates the estimated parking demand for the various uses on the weekday (80 spaces) and Saturday (74 spaces). Tables 8 and 9 on pages 24 and 25 show the hourly distribution of parking demand for each of the uses which is added to the existing uses for the weekday and weekend and the study indicates that the existing parking supply is adequate for the future uses including Shred415.

Tenant Wall Signage:

Zoning Ordinance Compliance for Tenant Wall Signage

Number:

For each use occupying a ground floor, one (1) sign facing a public street, public right of way, or parking area.

Area:

Front and rear wall – 8% of the area of the building wall to which the sign is affixed or

80 square feet, whichever is greater. Sidewall – 4% of the area of the building wall to which the sign is affixed or 40 square feet, whichever is greater.

Height:

Wall signs may not project higher than the roof deck or more than 30 feet above the curb level, whichever is lower.

Maximum Distance From The Wall, and Mounting to the Wall

Business wall signs may be located on the outermost wall of the principal building on the wall. The maximum distance the Village has allowed, without a variation, is one foot away from the wall, and the wall sign must be mounted directly to the wall. The proposed wall signage for the tenants is more than one foot away from the wall, and is not mounted to the wall but sits on top of the new building element and sign variations were previously granted for future tenant signage when the sign criteria for the 636 Deerfield Road building was approved.

Sign Criteria For Tenant Business Signs in the 636 Deerfield Road Building

The Sign Criteria specifically for the 636 Deerfield Road Building was created in order to create a consistent and uniform appearance and for the mutual benefit of all tenants.

On the east, south and west facing facades, the Tenant Identification Sign(s) shall be comprised of three dimensional, fabricated channel type individual letters with white fronts and sides, and black metal backs. The individual letters of the Tenant Sign shall not exceed 24” in the event one line of text is used or 36” total height in the event two lines of text are used. The sign letters shall sit on top of the horizontal steel brow that extends 18” from the wall. The letters shall be internally lighted with all conductors, transformers etc., concealed as much as possible. The letter style and font will be the choice of the tenant. Colored tenant logos will be allowed, but limited to two colors in addition to white. For each tenant occupying the building, no more than one tenant sign facing in any single direction will be permitted except for tenants with multiple facades. Tenants with multiple facades are permitted no more than one sign per facade. At the building corners, signage letters shall not project more than 12” past the face of the particular building façade. On the north facing façade, the tenant sign shall be affixed directly to the wall and shall be externally lit with gooseneck type fixtures.

The proposed wall signs for Shred415 meets the sign criteria that was established for this building.

When the new sign criteria for this building was adopted earlier this years, the existing sign criteria for the other portion of the Shopper’s Court (to the west of the 636 Deerfield Road building - 646-660 Deerfield Road) did not change

CONCLUSIONS

Compatible with Existing Development

The Plan Commission believes that the proposed fitness studio is so planned that it will be compatible with the existing development in the area. The Plan Commission believes that the proposed use will be an amenity to Shoppers Court and to the community. The Plan Commission believes the activities proposed should not impede the normal and orderly development and improvements of surrounding properties. The Plan Commission believes the proposed business will be compatible with existing development in the area and will be a good fit for the area. The Plan Commission believes the proposed fitness use will attract users to the center who will also patronize other shops and restaurants, including future users.

Lot of Sufficient Size

The Plan Commission believes the subject property is of sufficient size for the proposed use. The Plan Commission believes the property is suitable for the proposed use and will not create a negative impact on surrounding properties.

Traffic

The Plan Commission believes that the traffic generated by the proposed business would not have an adverse traffic impact on the subject property. The proposed use's peak times will be in the early morning, when the rest of the shopping center is not busy, and the evening hours will be busier too. There will be a 15 minute gap between the classes which will help with class overlap, as most of the class that just ended should be cleared out as the new class is arriving. The Plan Commission believes that the traffic study was thorough and demonstrates this use can fit on the site with other contemplated uses and not have a negative impact on traffic. The Plan Commission believes that the proposed business will not have a negative impact on traffic in the area.

Parking and Access

The Plan Commission believes that the number of parking spaces on the subject property is adequate and the new use will not have an adverse impact on parking in the area. The Plan Commission believes that the petitioner's traffic and parking study demonstrates there will be adequate parking and will not adversely impact parking in the area. The proposed fitness studio's peak times are in the morning, and the Plan Commission believes the petitioners have demonstrated that there will be enough parking.

The vehicular access points into this development will not be changed as result of the

proposed use.

Effect on the Neighborhood

The Plan Commission believes the proposed use should not be significantly or materially detrimental to the health, safety, or welfare of the public or injurious to the other property or improvements in the neighborhood nor should it diminish or impair property values in the surrounding area. The Plan Commission believes the proposed use will not have an adverse impact on surrounding properties. The Plan Commission believes that the proposed fitness studio will be a good use for this renovated space and will be an asset to the shopping center and the Village. The Plan Commission believes the proposed use will be a nice addition to the Shopper's Court development.

Adequate Facilities

Adequate facilities (utilities, access roads) are provided on the subject property.

Adequate Buffering

The Plan Commission believes that the existing buffering on the subject property is adequate.

Not Injurious to the Character of the C-1 District as a Retail Center

The Plan Commission believes the proposed use should not be injurious to the character of the C-1 Village Center District as a retail center. The business will bring people into Shoppers Court and the Village Center who will cross shop and patronize other local stores and restaurants. The proposed fitness studio will contain a retail component.

RECOMMENDATION

Accordingly, it is also the recommendation of the Plan Commission that the petitioner's request for a Class B Special Use to permit the establishment of a fitness studio for Shred415 at 636 Deerfield Road in the Shoppers Court development be approved.

Ayes: (4) Berg, Bromberg, Moyer, Oppenheim
Nays: (0) None

Respectfully submitted,
Mary Oppenheim, Chairperson
Deerfield Plan Commission

PLAN COMMISSION
VILLAGE OF DEERFIELD

The Plan Commission of the Village of Deerfield held a Public Hearing Meeting at 7:30 P.M. on September 8, 2016 at the Village Hall, 850 Waukegan Road, Deerfield, Illinois.

Present were: Mary Oppenheim, Chairperson
Larry Berg
Al Bromberg
Jim Moyer

Absent were: Bob Benton
Elaine Jacoby
Stuart Shayman

Also present: Jeff Ryckaert, Principal Planner
Dan Nakahara, Associate Planner

Public Comment on a Non-Agenda Item

No public comment on a non-agenda item

- (1) Request for a Special Use for a Self-Improvement Facility for Shred415 Deerfield LLC.

Lawrence Freedman, attorney, Ash, Anos, Freedman & Logan, L.L.C., noted that the petitioner is seeking a Special Use for a Self-Improvement Facility. Johnathan Berger, Owner of Bensenville Associates, LLC (and owner of the 636 Deerfield Road Building), commented that tenants drive the success of commercial buildings and that he is excited to discuss his first tenant in the 636 Deerfield Road building with the Plan Commission. Mr. Berger commented that he views the 636 Building as two separate buildings: the southern portion that faces Deerfield Road as a retail building, and the northern portion as a commercial building. Mr. Berger is excited about Shred415 becoming a tenant in the 636 Building as the business fits in perfectly with the other uses that will be occupying the building; adding that in addition to Shred415 there are also three additional tenants under lease that are going to be a part of the 636 Building. Mr. Berger commented that the northern portion of the 636 Building (where Shred415 is going to reside) is a critically important tenant space for the building.

Matthew Micheli, COO, Shred415 LLC, commented that he appreciated the opportunity to be before the Plan Commission tonight, as Shred415 has been working with Mr. Berger for a long time to make opening their Deerfield location a reality, and they're very excited about this new location. Mr. Micheli commented that Shred415 is a boutique fitness studio, and gave an overview of the business. Shred415 will offer interval

training with each class being 60 minutes in duration (the studio is completely class based, and customers primarily reserve their class times in advanced). Classes are led by a certified personal trainer with a maximum of 30 participants. The space will have 15 treadmills and 15 decks on the floor and over the course of the 60 minutes, clients alternate between the treadmills and decks. The Deerfield location will be the ninth location for Shred415. Shred415 started in April of 2011 with a location in Lincoln Park, Chicago. The business has since expanded with four locations in the city, one location in Northfield (which was their first suburban location), and one location out of state in St. Louis. Shred is currently in the process of adding another out of state location in Indianapolis. Jordan Shackelford, partner of Shred415, manages the day-to-day operations of the Northfield location, and partner in the Deerfield location was in attendance to answer any questions about the operation.

Mr. Micheli noted that Shred415 LLC is a woman owned business that started in 2011 by Bonnie Micheli and Tracy Roemer. The company was started from the ground up, and continues to grow through the success of their locations and the support of their tremendous client base. The petitioners are confident that Shred415 will be a compliment to Deerfield, as Deerfield's demographic is consistent with their client demographic. Shred415 has taken the time to talk to their clients (specifically in their suburban locations: Northfield and Hinsdale) in order to gain a better understanding of their daily agendas, including how they consume and how they spend their time before and after classes at Shred. Through their client inquiries, the petitioners have found that their customers come to Shred to be a part of a community, and the friendships formed at Shred often extend beyond the classroom. Many of their customers often take the time to grab coffee together before or after class. Their customers also tend to go grocery shopping with their children after class or they bring their family and children to the studio on the weekends, and then go to lunch afterwards, or breakfast beforehand. Shred clients not only come to the studio to work out, but also spend time in and around the area patronizing other businesses. Mr. Micheli commented that they have found that Shred facilities have been a positive influence on the surrounding commercial area.

Mr. Micheli commented that they spend a significant amount of capital to build their Shred415 studios out to a Grade-A finish, and they have put a lot of effort into learning how to build better studios in order to create a more aesthetically pleasing ambience for both their clients and the surrounding community. Mr. Micheli described the general layout of a Shred415 facility, which includes a studio room, retail area (where customers can purchase apparel, water and snacks), and childcare room. The owners of Shred415 LLC consider their Shred locations a family place where families come to the studio together, and mothers and fathers come to class to work out and bring their children to Shred's on-site childcare facility. Mr. Micheli commented that on the weekends whole families come to Shred together, and have found that coming to Shred is a community-building experience for their clients. Chairperson Oppenheim asked if there was staff that supervised the children. Mr. Micheli confirmed that the childcare area was staffed during classes that offered child care (child care is not available for all classes). Anytime child care is available the area is properly staffed; with a minimum of one staff member

during child care classes; however, depending on the number of children are signed up for child care, there are as many as two and three staff members tending the child care facility.

Commissioner Bromberg asked if customers of Shred415 paid-per-class or if memberships were available for clients as well. Mr. Micheli commented that customers have the options to pay-per-class (\$25 per class), purchase one of their class packages, which includes: 3, 5, 10 and 20 class packages (the more classes included in a package, the cheaper each individual class becomes) or purchase a monthly membership. Shred has introductory monthly memberships as well as promotional class specials. Mr. Micheli commented that their goal was to create a pricing structure that accommodates anyone's needs depending on how often they like to come.

Chairperson Oppenheim asked if the classes were "drop-in classes" or if clients were required to register for classes in advanced in order to control the number of clients in each class. Chairperson Oppenheim explained that part of the Plan Commission's scrutiny of the petition is the overall effect that their business is going to have on the pedestrian and vehicle traffic coming in and out of Shopper's Court, and the overall safety of the site, especially during peak times. Mr. Micheli commented that their clients primarily sign up for classes in advances (many of which sign up months in advance in order to secure their preferred classes and class times), and that all classes max out at 30 participants (no exceptions as the work out studio can't fit more than 30 participants at once). Clients are allowed to be waitlisted for a class, and if there are open spaces to fill at the time of the class clients are moved from the waitlist to the class.

Commissioner Moyer inquired about the amount of time that was in between consecutive classes. Mr. Micheli responded that there was a fifteen-minute break between classes in order to give the class time to depart, and the new class to get situated; for example, if a class runs from 6AM to 7AM, there is a fifteen-minute break before the next class, which would start at 7:15AM. Mr. Micheli commented that early morning classes at 5AM & 6PM tend to be very busy, and 7:15AM classes can be busy depending on the day of the week, as it tends to be a harder time to commit to with respect to children's drop-offs at school and people commuting to work. Classes tend to pick back up between 8:30AM and 9:45AM. The studios times vary by location depending on the community's needs. Classes pick back up in the late afternoon again starting around 4:15PM; the Deerfield location is likely going to have 4:15PM, 5:30PM and 6:45PM class times. Mr. Micheli commented that Shred has slightly altered its class times at their Northfield location in order to accommodate their clients' schedules, and that they expect similar class times to be in demand at their Deerfield location. The last class of the night is likely to be at 6:45PM on most nights, as there doesn't tend to be a demand for late night classes in suburban locations. Mr. Micheli summarized that the peak hours for class times is the morning from 5AM through 9:45AM, and the late afternoons starting at 4:15PM.

Commissioner Berg asked if Shred was completely class based, or if clients were able to use the studio for their own individual work outs outside of class times. Mr. Micheli confirmed that Shred is all class based, and that members are not allowed to use the facilities when there is not a class going on.

Commissioner Bromberg asked Mr. Berger if the other tenants in the 636 Building were going to have different peak times than Shred415. Mr. Berger commented that based on the different types of uses in the building, and the particular businesses going into the remaining tenant spaces that the tenant peak times would differ. The other tenant on the north side of the building is expected to have an afternoon peak time, and retail tenants (which are going to take up the remaining 2/3 of the building in the front) are expected to have day time and lunch times peak times. Chairperson Oppenheim pointed out that any food service tenants would have meal time peak times, which is not a peak time for Shred, an exercise facility.

Mr. Freedman commented that the parking study was done deliberately to represent the 636 Deerfield Road Building at full tenant occupancy. Commissioner Bromberg asked if the traffic study found that an increased number of vehicles would exit the location from the northeast and go down Rosemary Terrace to Waukegan Road. Javier Millan, Senior Traffic Engineer, KLOA, responded that the traffic study estimated that during the morning peak hours (7:15AM to 8:15AM) about 25 vehicles would potentially travel north, and during the PM peak hours about 15 vehicles and then midday Saturday about 23 vehicles respectively. Mr. Millan commented that the traffic signal at Rosemary Terrace is going to be attractive to vehicle traffic exiting onto Deerfield Road from the property, since getting out onto Deerfield Road going east without a signal during rush hour can be difficult. Commissioner Bromberg agreed that the traffic signal at Rosemary Terrace would be the easiest way to exit in order to go east on Deerfield Road. Mr. Millan commented that the traffic study did not estimate any additional traffic going north on Rosemary Terrace to cut through to Waukegan Road, since the traffic signal allowed vehicles to easily exit onto Deerfield Road where vehicles can travel west to the next traffic light at the intersection of Deerfield and Waukegan. Chairperson Oppenheim commented that in the existing condition vehicle traffic does exit out of the Shopper's Court parking lot and go north onto Rosemary Terrace to get to Waukegan Road, and that her concern is if traffic is going to increase significantly from the new development of the 636 Building. Commissioner Bromberg commented that he suspects cut-through traffic is going to increase, but that it may inevitable as a result of the development of the site.

Chairperson Oppenheim asked if the traffic study included the municipal parking lot in its total numbers count for parking space availability. Mr. Millan confirmed that the municipal lot was included in their parking numbers, but the 14 parking spaces directly in front of Italian Kitchen and other uses were not included in their final parking number count. The parking study concentrated on the parking lot in the back, as well as the municipal parking lot. Chairperson Oppenheim commented that it was her understanding that their parking data was fairly conservative. Mr. Millan commented that

the data was conducted under the assumption all customers are going to be driving to the location; although they anticipate that customers may opt to walk from their homes or the train station to Shopper's Court since the location is in the downtown area.

Commissioner Moyer commented that the fifteen minutes between classes seemed like a tight transition period, and asked how confident the petitioners were that it was a sufficient amount of time. Mr. Millan commented that the fifteen minutes in between classes reduces the overlap that would occur during back-to-back classes without a transition period, and is confident that the fifteen minutes will allow for most of the first class to disperse and the second class to come in. Commissioner Moyer commented that he thought people were going to opt to walk or ride their bikes to Shred, and asked if the property owner was planning on having bike racks on site. Mr. Berger confirmed that there would be two bike racks on site. Commissioner Berg asked if any stacking difficulties were anticipated to occur at the traffic light at Rosemary Terrace during the overlap peak hours. Mr. Milan commented that the traffic analyses considered the impact that the entire 636 Building (with all tenants) would have on the traffic in that area, and found that it's not going to increase the queuing enough to affect the access drive to Rosemary Terrace.

~~(2) Request for an Exception to the Approved Sign Criteria for the Charles Ifergan Commercial Planned Unit Development to Allow a New East Wall Sign for American Mattress.~~

~~Karen Dodge, Municipal Resolutions, commented that American Mattress is seeking to place a new wall sign on the east wall of their tenant space. She explained that the stipulation that no wall sign was allowed on the east wall of the building did not come from the Village, but from the property owner's sign criteria for the building when it went through major renovations a few years ago.~~

~~American Mattress is seeking an exception to the approved sign criteria for the development to allow a new wall sign on the east wall of the building. The sign will be approximately 29 square feet and consist of the words "American Mattress" in white letters. The existing wall sign for American Mattress is located on the south wall of the building and is the same size as the proposed east wall sign. The new sign is going to be located the same distance from the corner of the building as the existing south wall sign, so the appearance will be symmetrical. She noted that the store is hard to see coming from the east driving west bound on Lake Cook Road, so the sign would be helpful to the business. American Mattress previously had a store location directly across the street, which produced \$700,000 in sales; however, the new location is only producing \$240,000. They attribute their lack of sales at the new location to inadequate signage.~~

~~Chairperson Oppenheim clarified that the refusal to allow American Mattress to have a sign on the east wall is not a part of the Village's code but an additional requirement of~~

PLAN COMMISSION
VILLAGE OF DEERFIELD

The Plan Commission of the Village of Deerfield held a Workshop Meeting at 7:30 P.M. on September 8, 2016 at the Village Hall, 850 Waukegan Road, Deerfield, Illinois.

Present were: Mary Oppenheim, Chairperson
Larry Berg
Al Bromberg
Jim Moyer

Absent were: Bob Benton
Elaine Jacoby
Stuart Shayman

Also present: Jeff Ryckaert, Principal Planner
Dan Nakahara, Associate Planner

(1a) Discussion of Shredd415 Special Use

Chairperson Oppenheim commented that it's a tight site and the coordination of the tenants' hours of operation has to fit together in a way that allows traffic to work. Chairperson Oppenheim commended the Petitioner's for the thoroughness of their traffic study, and commented that the data driven reasoning provides evidence that the additional tenant traffic should not overwhelm the existing traffic situation, and therefore, should allay any traffic concerns in the future for businesses seeking tenant space in the 636 Deerfield Road Building. Chairperson Oppenheim pointed out that even with the 15 minutes in between classes, clients of Shred may opt to leave their vehicles in the parking lot after class and walk across the street to grab coffee together, which means that more cars than anticipated may be lingering in the parking lot in between and after classes. So there may be a little more overlap than currently anticipated; however, the traffic study indicated that although the parking lot is going to be busy during peak hours, there is a sufficient amount of parking available for everyone to fit at any given time.

Chairperson Oppenheim commented that she shares Commissioner Bromberg's concern about vehicle traffic using Rosemary Terrace (going north) as a cut through to Waukegan Road; however, part of their perception right now may be skewed by the fact that everyone is tired of the construction on Deerfield Road, which has a large impact on traffic as a whole, as it has caused vehicles traffic to venture off the main roads to find circuitous routes around the construction. Commissioner Bromberg commented that the Village previously approved the 636 Deerfield Road Building as a multi-tenant use with the understanding that the change from a single tenant building to a multi-tenant building would impact the traffic in the area. Chairperson Oppenheim reiterated that the

Plan Commission had previously taken into consideration the impact that the multi-tenant building would have on the traffic area, and that their focus was to ensure that each tenant appropriately fit into the space, and she is satisfied with the Petition that everyone is going to fit, and that customers can come and go safely from the location. Commissioner Bromberg commented that neighbors have become used to the location being empty; however, although filling the building is going to impact traffic in the area, their ultimate goal is to fill tenant spaces with businesses that positively benefit the community. Chairperson Oppenheim pointed out that the site is also unique in that members of the church across the street also park in the municipal parking lot on Sunday, but the businesses are not busy on Sunday morning, so there's a lot of interconnectedness, and a really nice synergy.

Commissioner Berg motioned to approve the Special Use for a Self-Improvement Facility for Shred415 Deerfield LLC. Commissioner Moyer seconded the motion. The vote was as follows:

Ayes: (4) Berg, Bromberg, Moyer, Oppenheim
Nays: (0) None

The motions passed and this item will be on the October 3rd Village Board of Trustees Meeting agenda.

~~(2a) Discussion of American Mattress Signage~~

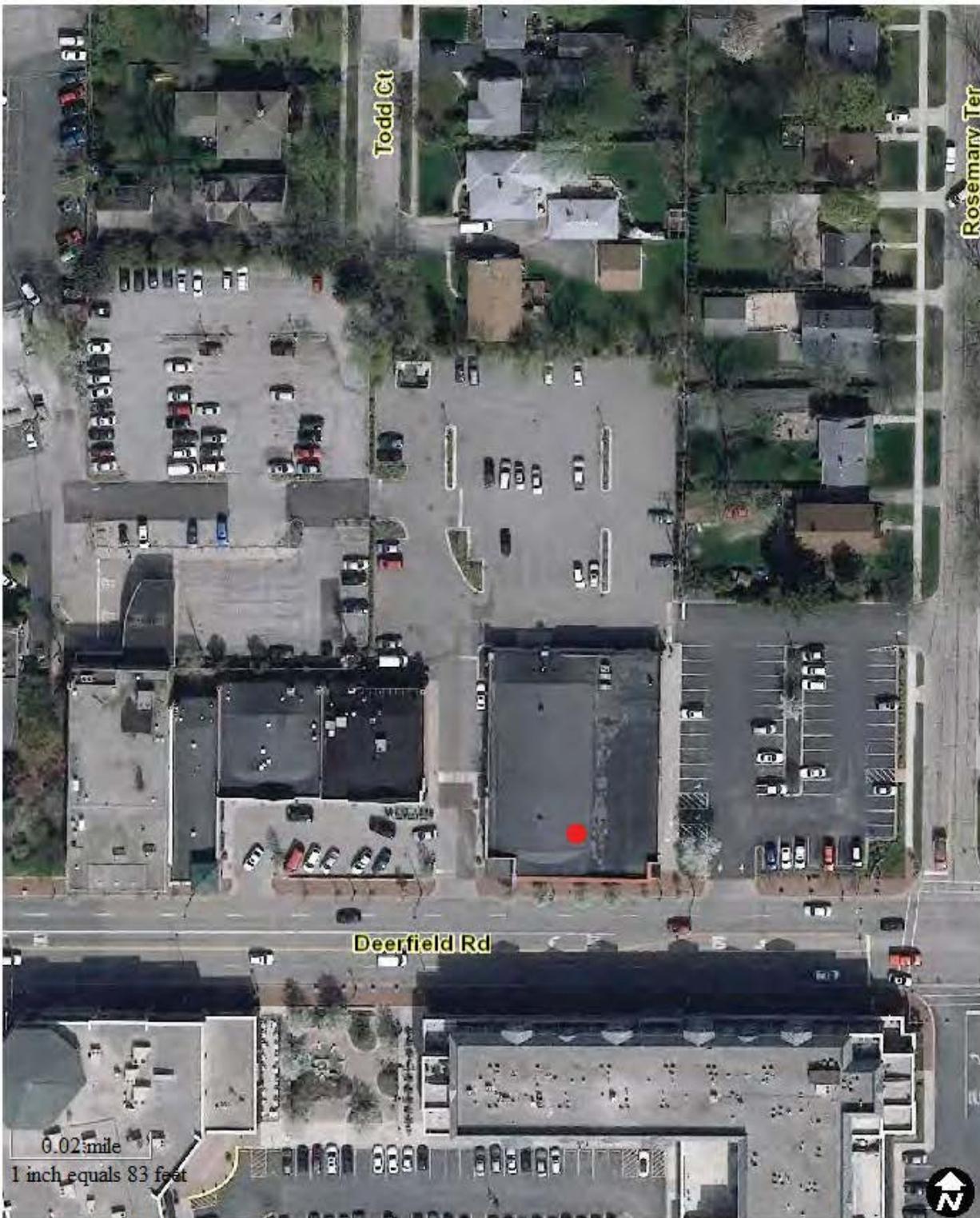
~~The Commissioners agreed the exception to the sign criteria is appropriate and the sign is well designed. Commissioner Bromberg motioned to approve an exception to the approved sign criteria for the Charles Ifergan Commercial Planned Unit Development to allow a new east wall sign for American Mattress. Commissioner Moyer seconded the motion. The vote was as follows:~~

~~Ayes: (4) Berg, Bromberg, Moyer, Oppenheim
Nays: (0) None~~

~~The motions passed and this item will be on the October 3rd Village Board of Trustees Meeting agenda.~~

~~(3) Prefiling Conference: Request to Amend the Deerfield Depot Sign Plan to Allow RTA Interagency Directional and Informational Signs at the Lake Cook Metra Station in the Deerfield Depot Planned Unit Development~~

~~Joseph Moriarty, Regional Transportation Authority (RTA), explained that for the last few years the RTA has been leading a collaborative effort with CTA, Metra, Pace and municipal governments to design and employ a system of interagency signs to help make it easier for passengers to make transfers between Metra Trains, Rapid Transit Trains and buses. The RTA is petitioning the Village of Deerfield for approval to install~~



Map created on February 4, 2016.

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Village of Deerfield 2016 Zoning Ordinance Map



Subject Property

	R-1	SINGLE FAMILY DISTRICT ONE FAMILY DWELLINGS AND ACCESSORY USES
	R-2	SINGLE FAMILY DISTRICT SAME AS R1
	R-3	SINGLE FAMILY DISTRICT SAME AS R1
	R-4	SINGLE & TWO FAMILY ONE FAMILY & TWO FAMILY DWELLINGS & ACCESSORY USES
	R-5	GENERAL RESIDENCE ONE FAMILY & TWO FAMILY DWELLINGS & ACCESSORY USES
	C-1	VILLAGE CENTER
	C-2	OUTLYING COMMERCIAL
	C-3	LIMITED COMMERCIAL OFFICE
	I-1	OFFICE, RESEARCH, RESTRICTED INDUSTRY
	I-2	LIMITED INDUSTRIAL
	P-1	PUBLIC LANDS SCHOOLS, PARKS, PUBLIC BUILDINGS & CEMETERIES

**SPECIAL USE STANDARDS FOR PROPOSED
SELF IMPROVEMENT FACILITY FOR PHYSICAL EXERCISE**

1. Compatible with Existing Development

The nature and intensity of the activities involved and the size, placement and design of any structures proposed will be so planned that the Special Use will be compatible with the existing development and will not impede the normal and orderly development and improvement of surrounding property.

- The requested special use to allow 3,200 sqf of the existing 14,000 sqf building to be used as an improvement facility for physical exercise will be compatible with the existing development and will not impede normal and orderly development and improvement of surrounding property in that, as concluded by Petitioner's traffic consultant:
 - (a) The adjacent roadways will continue to provide safe and adequate access to the property; and
 - (b) The projected parking demand can be accommodated in the on-site surface parking lot and the adjacent municipal lot.

2. Lot of Sufficient Size

The size of the lot will be sufficient for the use proposed.

- Inasmuch as both access and parking can be accommodated, as indicated by Petitioner's traffic consultant, the size of the lot will be sufficient for the proposed use.

3. Traffic

The location of the Special Use within the Village will be such that adverse effects on surrounding properties will be minimal, particularly regarding the traffic generated by the Special Use.

- As concluded by Petitioner's traffic consultant, the adjacent roadways can accommodate additional anticipated traffic, and taking into account the peak hours of operation of the proposed special use, traffic will have safe and adequate access to and from Deerfield Road, Rosemary Terrace, and the existing connection to Waukegan Road, such that there will be no adverse effects on surrounding properties.

4. Parking and Access

Parking areas will be of adequate size for the particular use and properly located, and the entrance and exit drives will be laid out so as to prevent traffic hazards and nuisances.

- As concluded by Petitioner's traffic consultant, the access to and from the property will continue to provide safe and adequate access. It is further concluded by Petitioner's traffic consultant that parking areas will be of adequate size for the special use inasmuch as the projected parking demand can be accommodated by on-site parking along with additional spaces provided by the adjacent municipal lot.

5. Effect on Neighborhood

In all respects the Special Use will not be significantly or materially detrimental to the health, safety and welfare of the public or injurious to the other property or improvements in the neighborhood, nor will it diminish or impair property values in the surrounding area.

- Based upon Petitioner's traffic consultant's conclusions, that both access and parking demand will not be negatively impacted by the proposed special use, the special use will not significantly or materially be detrimental to the health, safety, and welfare of the public or injurious to other property or improvements in the neighborhood; nor will it diminish or impair property values in the surrounding area.

6. Adequate Facilities

That adequate utilities, access roads, drainage and/or other necessary facilities have been or are being provided.

- The proposed special use will have no impact whatsoever on existing utilities, drainage, or other facilities. As concluded by Petitioner's traffic consultant, existing access roads can accommodate any additional anticipated traffic. Accordingly, adequate utilities, access roads, drainage and/or other necessary facilities have been or are being provided.

7. Adequate Buffering

Adequate fencing and/or screening shall be provided to ensure the enjoyment of surrounding properties, to provide for the public safety or to screen parking areas and other visually incompatible uses.

- The proposed special use does not require any changes to the existing buffering, such that adequate fencing and/or screening is provided to insure enjoyment of surrounding properties and to provide for public safety and to screen parking areas and other visually incompatible uses without any modifications thereto.



< **SHURED 415** >



Introduction to Shred415



- Shred415 is a woman owned business
- Shred415: The Founders
 - Bonnie Micheli and Tracy Roemer



- Shred415 is the only studio of its kind in the Chicago area
 - Unique, one hour total body workout
 - High intensity
 - Alternating cardio and strength (interval) training
 - Highest quality equipment
 - Employ the top fitness experts in Chicago
 - More than 15 different instructors and growing, with diverse fitness backgrounds
 - Experts in fitness and wellness, sports medicine, rehabilitation, MMA, physical therapy, running biomechanics, pre- and post-natal fitness, and childhood wellness
 - Work multiple Shred415 locations
 - Fast-paced workout tailored to our client's unique goals
 - Building on a unique brand
- Shred415 Class
 - One hour long
 - 24 people
 - 12 top of the line Woodway treadmills
 - 12 Reebok step benches for floor/weight training
 - One instructor (certified personal trainer)
 - Shred415 classes are for everyone (Select your own weights & Set your pace on the treadmill)



Shred415

Hours of Operation: 4:45am (the earliest time a class will begin) – 9:00pm (the latest time a class will end). These start and end times will vary depending on the day of the week and class demand.

Busiest Times: 6:00am – 9:45am.

Shred415 is primarily an appointment-based business however walk-ins are welcome, space permitting.

Number of Employees:

- 1 Manager
- 1 Assistant Manager
- 5-15 Front Desk Staff – (The range is the result of an employees desired hours per week and the number of classes being offered).
- 2-4 Cleaning Staff
- 8-12 Class Instructors

Maximum Number of Employees Working at one time will be 4-6.

Customers: Maximum number of clients in a single class is 30. Classes are run with 15-minute breaks in between each class. As a result, at transition times, there could be more than 30 clients in the studio.



[SIGN UP / LOG IN](#)

[ABOUT](#)

[LOCATIONS](#)

[INSTRUCTORS](#)

[ON-THE-GO WORKOUTS](#)

[SHOP](#)

[COMMUNITY](#)

[PRICING](#)

REACH YOUR MAX

SIGN UP TODAY TO BETTER YOUR TOMORROW

THE SHRED415 EXPERIENCE

Shred415 is for everyone. YOU select your weights; YOU set your pace on the treadmill.

Walkers, joggers and hardcore runners are all welcome in our 60-minute classes.

Our interval training workout keeps your body burning calories long after your class is over.

Shred415 is the only studio of its kind in the Midwest—and we also offer childcare.

COME SHRED WITH US!

WHAT TO EXPECT

DURING CLASS

Our 60-minute interval training classes alternate between treadmill drills on top-quality Woodway 4Fronts and strength training using hand weights, resistance bands and more.

AFTER CLASS

Each Shred415 studio offers showers, along with premium hair and skin products. In addition, our retail spaces sell apparel, accessories, and healthy snacks and drinks.

PROVEN RESULTS

During class, you will burn 500-1,200 calories—and your strength and speed will improve. If you come to Shred415 consistently, you can see results within four weeks.

HIGH-ENERGY CLASSES

Thanks to heart-pumping playlists, dim lighting and motivational instructors, you're guaranteed to torch calories and have fun.

KIDS' CORNER

Our studios offer childcare. Each Kids' Corner location boasts a Wii gaming system, a TV, books, games and more!

NO EXCUSES!

THE COMMUNITY

"IT'S NOT ALL CARDIO. IT'S NOT ALL WEIGHTS. YOU'RE GETTING A FULL TOTAL BODY WORKOUT AND SEEING RESULTS."

-SWOPE CLARK, SHRED415 CLIENT



LOCATIONS

ILLINOIS

CHICAGO / LINCOLN PARK

Within walking distance of the popular Armitage Street shopping corridor, this location includes a full locker room with showers, premium skincare products and free towel service. The studio also offers childcare with a Wii entertainment system and toys for all ages so busy parents can fit in a workout without finding a babysitter.

Getting there & parking:

There is free parking along Clybourn and Southport streets. The nearest El stop is Armitage on the Brown and Purple lines.

Phone: 773-360-8228

Email: lincolnpark@shred415.com

Address: 2150 N. Clybourn Ave., Chicago, IL, 60614

Manager: Lyndsey Coppock

To receive Lincoln Park news & updates [click here](#)

CHICAGO / WICKER PARK

Situated on one of Chicago's hippest streets, the studio is surrounded by bars, galleries, boutiques, restaurants, eclectic shops and so much more. The studio includes changing rooms and a shower with premium skincare products and free towel service.

Getting there & parking:

There is metered parking along Milwaukee Avenue. The nearest El stop is Damen on the Blue line.

Phone: 773-596-9555

Email: wickerpark@shred415.com

Address: 1444 N. Milwaukee Ave., Chicago, IL, 60622

Manager: Lauren McClintock

To receive Wicker Park news & updates [click here](#)

CHICAGO / OLD TOWN

Steps away from Wells Street's stylish boutiques, trendy bars and always-packed restaurants, this location includes a full locker room with showers, premium skincare products and free towel service. The studio also offers childcare with a Wii entertainment system and toys for all ages so busy parents can fit in a workout.

CHICAGO / SOUTH LOOP

This downtown studio is located in an open-air mall that includes premium national and local retailers, luxury lofts, a variety of restaurants and a vibrant central park. The studio has a full locker room with showers, premium skincare products and free towel service. It also offers childcare with a Wii entertainment system and toys for all ages so busy parents can fit in a workout without finding a babysitter.

NORTH SHORE

Located in quaint downtown Northfield, this location includes a full locker room with showers, premium skincare products and free towel service. The studio also offers childcare with a Wii entertainment system and toys for all ages so busy parents can fit in a workout without finding a babysitter.

HINSDALE

Just off I-294 and easily accessible from many western suburbs, this studio includes a full locker room with showers, premium skincare products and free towel service. It also offers childcare with a Wii entertainment system and toys for all ages so busy parents can fit in a workout without finding a babysitter.

MISSOURI

Getting there & parking:

There is metered parking along Wells and Division streets. The nearest El stop is Clark/Division on the Red line.

Phone: 312-291-8722

Email: oldtown@shred415.com

Address: 230 W. Division St., Chicago, IL, 60610

Manager: Sean Higgins

To receive Old Town news & updates click [here](#)

Getting there & parking:

With validation, there is free 2-hour parking in the adjacent garage.

Phone: 312-283-3980

Email: southloop@shred415.com

Address: 1136 S. Delano Court West, Suite E202, Chicago, IL, 60605

Manager: Melissa Knepp

To receive South Loop news & updates click [here](#)

Getting there & parking:

There is free parking in the attached lot.

Phone: 847-929-9545

Email: northshore@shred415.com

Address: 300 S. Happ Rd., Northfield, IL, 60093

Manager: Jordan Shackelford

To receive North Shore news & updates click [here](#)

Getting there & parking:

There is free parking in the lot behind the studio.

Phone: 630-686-1541

Email: hinsdale@shred415.com

Address: 230 E. Ogden Ave., Hinsdale, IL, 60521

Manager: Erinn Vehrs

To receive Hinsdale news & updates click [here](#)

ST. LOUIS

Located in the charming Brentwood neighborhood of St. Louis, the studio includes a full locker room with showers, premium skincare products and free towel service. The studio also offers childcare with a Wii entertainment system and toys for all ages so busy parents can fit in a workout without finding a babysitter.

Getting there & parking:

There is a garage with free parking

Phone: 314-735-0368

Email: stl@shred415.com

Address: 8384 Musick Memorial Dr., St. Louis, MO. 63144

Manager: Kristen Beracha

To receive STL news & updates click here

INDIANA

INDIANAPOLIS / CARMEL

Opening Fall 2016

Getting there & parking:

There is free parking in the attached lot.

Email: indy@shred415.com

Address: 11503 Spring Mill Rd., Carmel, IN. 46032

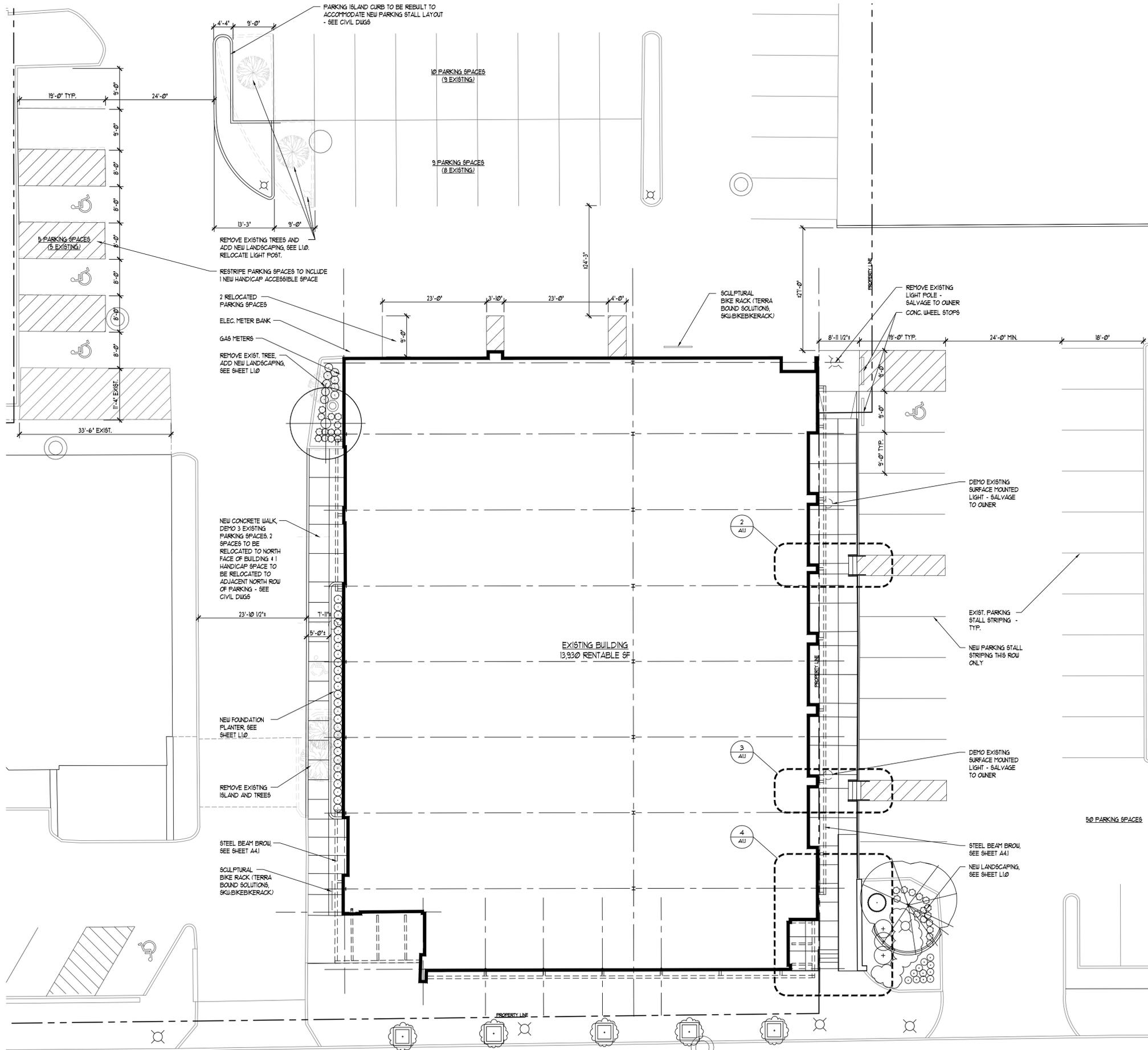
To receive Indy news & updates click here

**MORE LOCATIONS
COMING SOON**

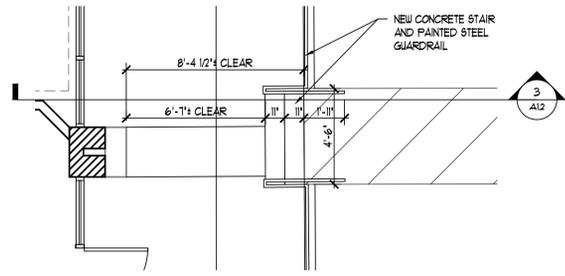


ABOUT | LOCATIONS | INSTRUCTORS | COMMUNITY | PRICING
SHOP | ON-THE-GO WORKOUTS | CONTACT

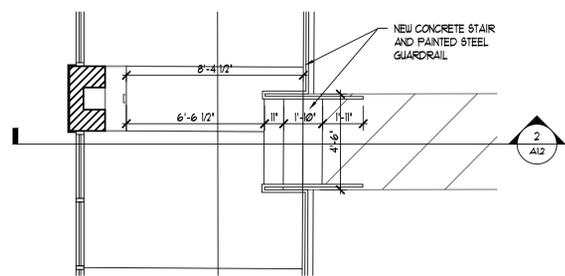
2016 SHRED415 - ALL RIGHTS RESERVED



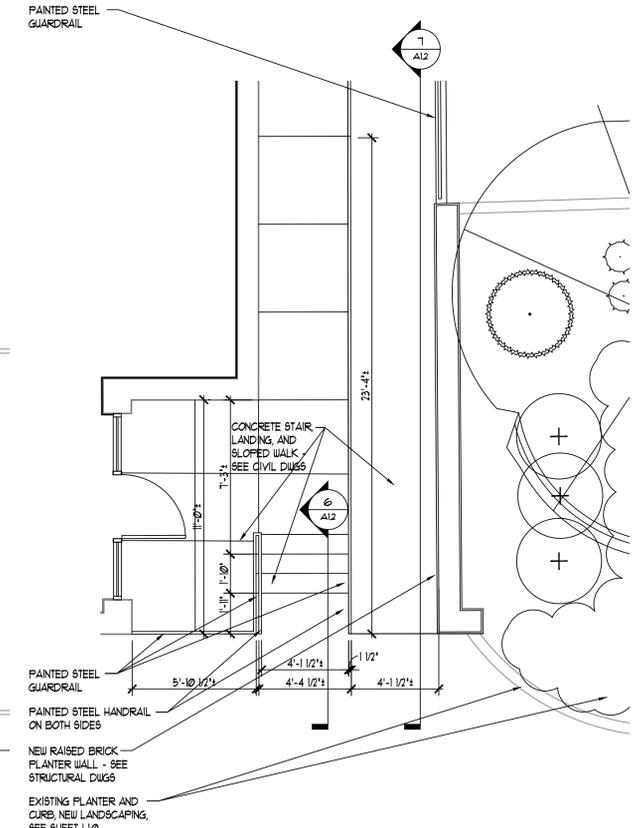
1 SITE PLAN
A1.1 3/32" = 1'-0"



2 ENLARGED STAIR & WALK PLAN
A1.1 1/4" = 1'-0"



3 ENLARGED STAIR & WALK PLAN
A1.1 1/4" = 1'-0"



4 ENLARGED STAIR & WALK PLAN
A1.1 1/4" = 1'-0"

2610 Lake Cook Road
 Suite 280
 Riverwoods, IL 60015
 Ph: (847)940-0300
 Fax: (847)940-1045

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25
 YEARS
 OF
 ARCHITECTURE

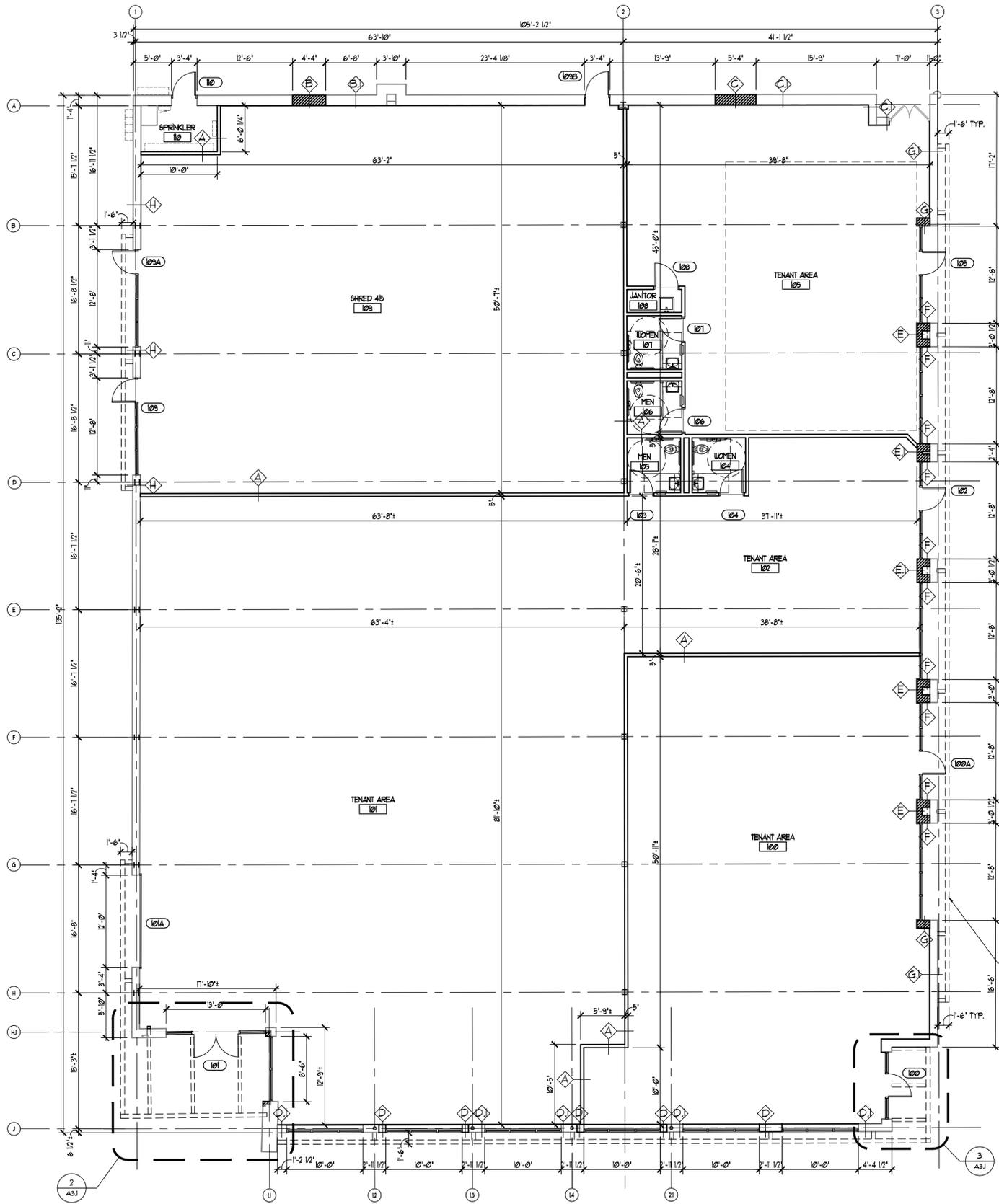
PROJECT NO.:
166.15.091

DRAWN BY: MDS
 CHECKED BY: WHB

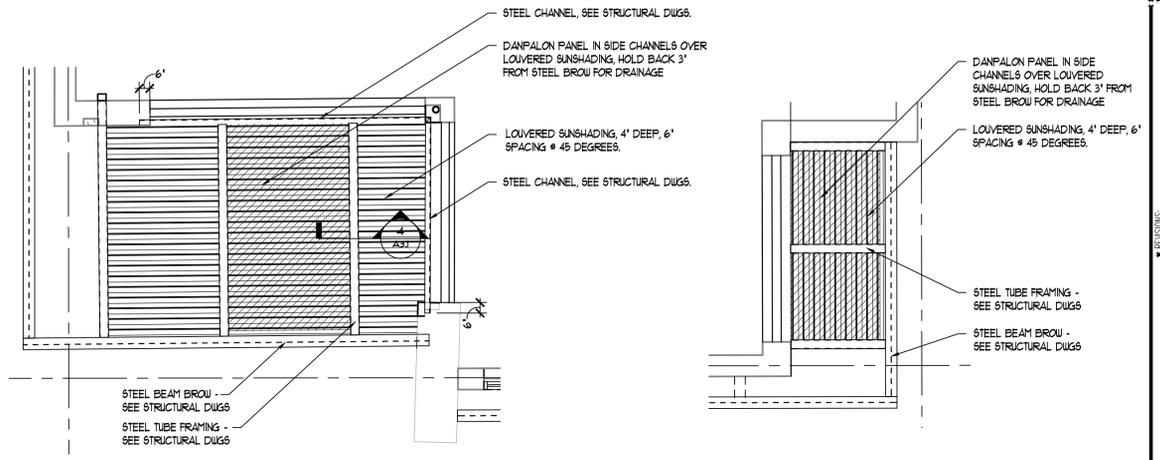
DATE:
0823.16

SHEET NO.:
A1.1

THE 636 BUILDING
 636 Deerfield Road, Deerfield, IL
SITE PLAN



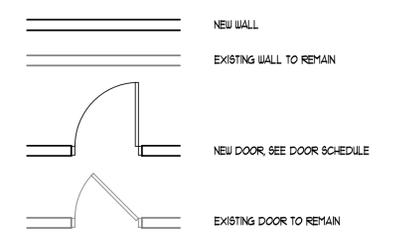
1 FLOOR PLAN
A3.1 1/8" = 1'-0"



2 ENLARGED SUNSHADING PLAN
A3.1 1/4" = 1'-0"

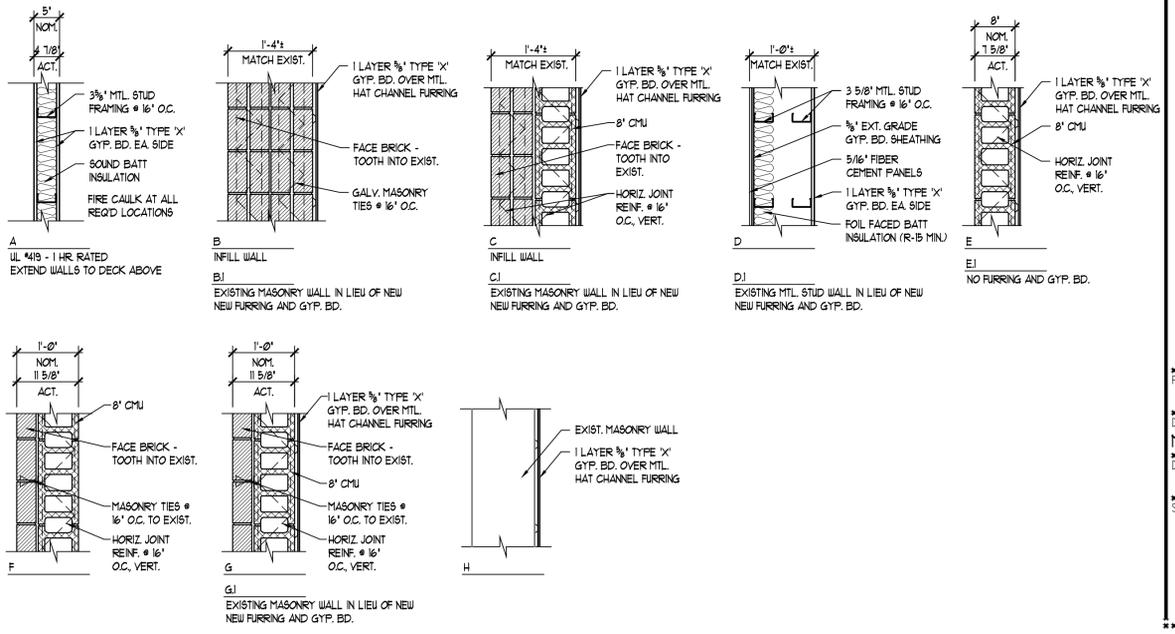
3 ENLARGED SUNSHADING PLAN
A3.1 1/4" = 1'-0"

FLOOR PLAN LEGEND



WALL TYPES

1. ALL WALLS TO BE TYPE 'A' UNLESS NOTED OTHERWISE.
2. ALL GYP. BD. TO BE 5/8" TYPE 'X' UNLESS NOTED OTHERWISE.
3. PROVIDE DEFLECTION TRACK AT UNDERSIDE OF DECK UNO.
4. PROVIDE WALL BRACING TO STRUCTURE ABOVE AS REQUIRED.
5. PROVIDE ACOUSTIC SEALANT AT TOP & BOTTOM RUNNERS AT SOUND RATED WALLS.
6. CONFIRM THE REQUIRED STUD THICKNESS PER SELECTED MFR. LOAD TABLES FOR THE WALL HEIGHTS INDICATED ON THE PLANS.



4 SUNSHADING SECTION
A3.1 1" = 1'-0"

THE 636 BUILDING
636 Deerfield Road, Deerfield, IL
FLOOR PLAN

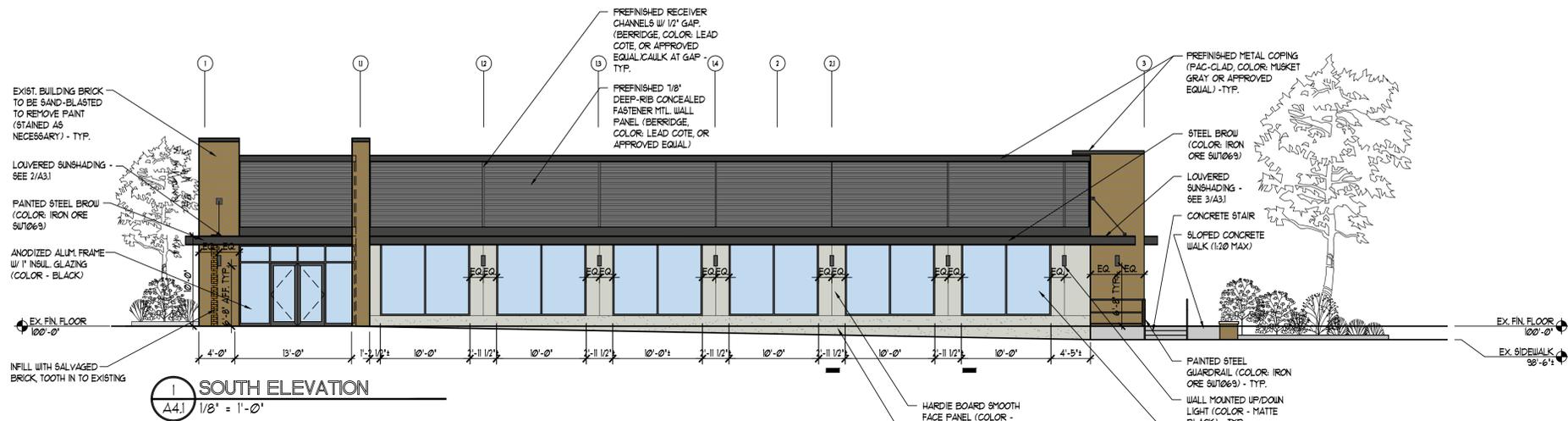
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Suite 280
Riverside, IL 60015
Ph: (847)940-0300
Fax: (847)940-1045

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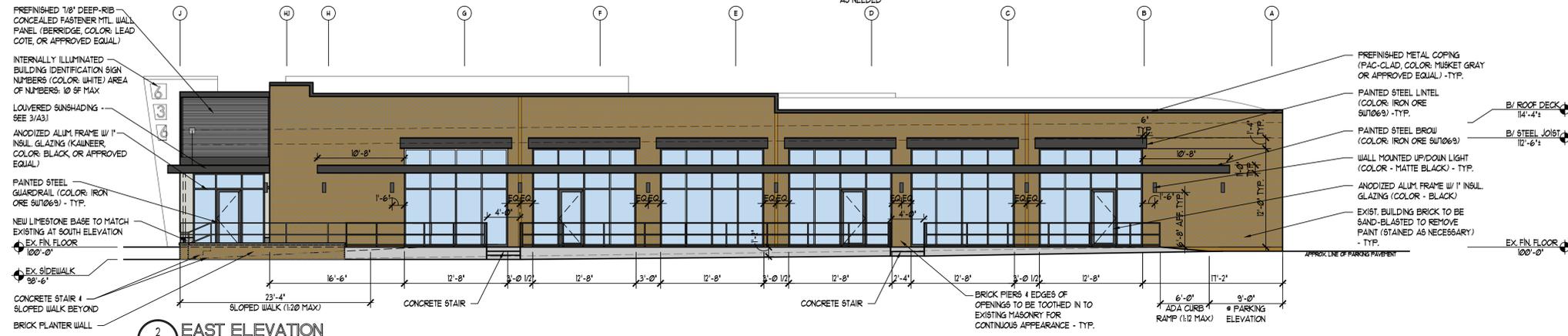


PROJECT NO.:
166.15.091
DRAWN BY: MDS
CHECKED BY: WHB
DATE: 0823.16
SHEET NO.:

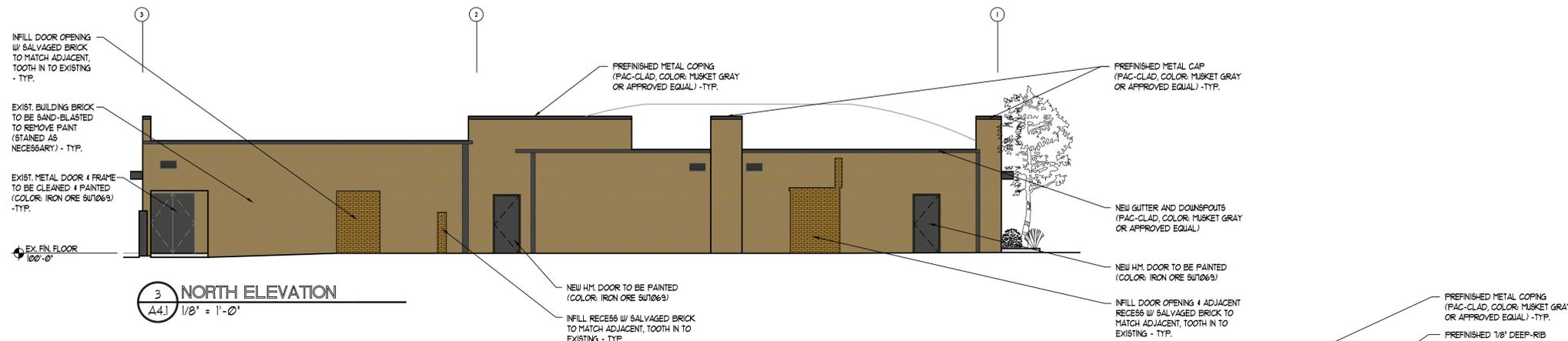
A3.1



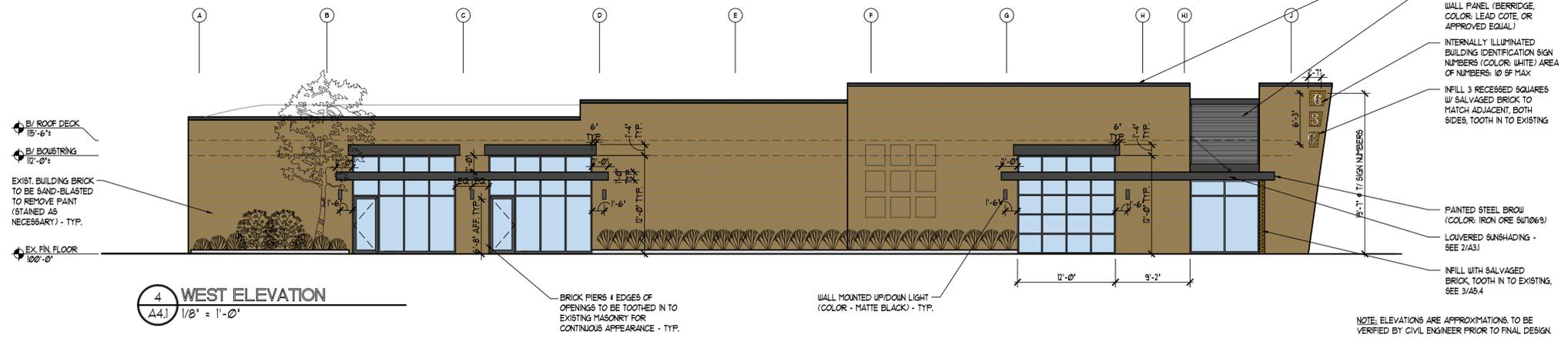
1 SOUTH ELEVATION
A4.1 1/8" = 1'-0"



2 EAST ELEVATION
A4.1 1/8" = 1'-0"



3 NORTH ELEVATION
A4.1 1/8" = 1'-0"



4 WEST ELEVATION
A4.1 1/8" = 1'-0"

NOTE: ELEVATIONS ARE APPROXIMATIONS TO BE VERIFIED BY CIVIL ENGINEER PRIOR TO FINAL DESIGN.

THE 636 BUILDING
636 Deerfield Road, Deerfield, IL
EXTERIOR ELEVATIONS

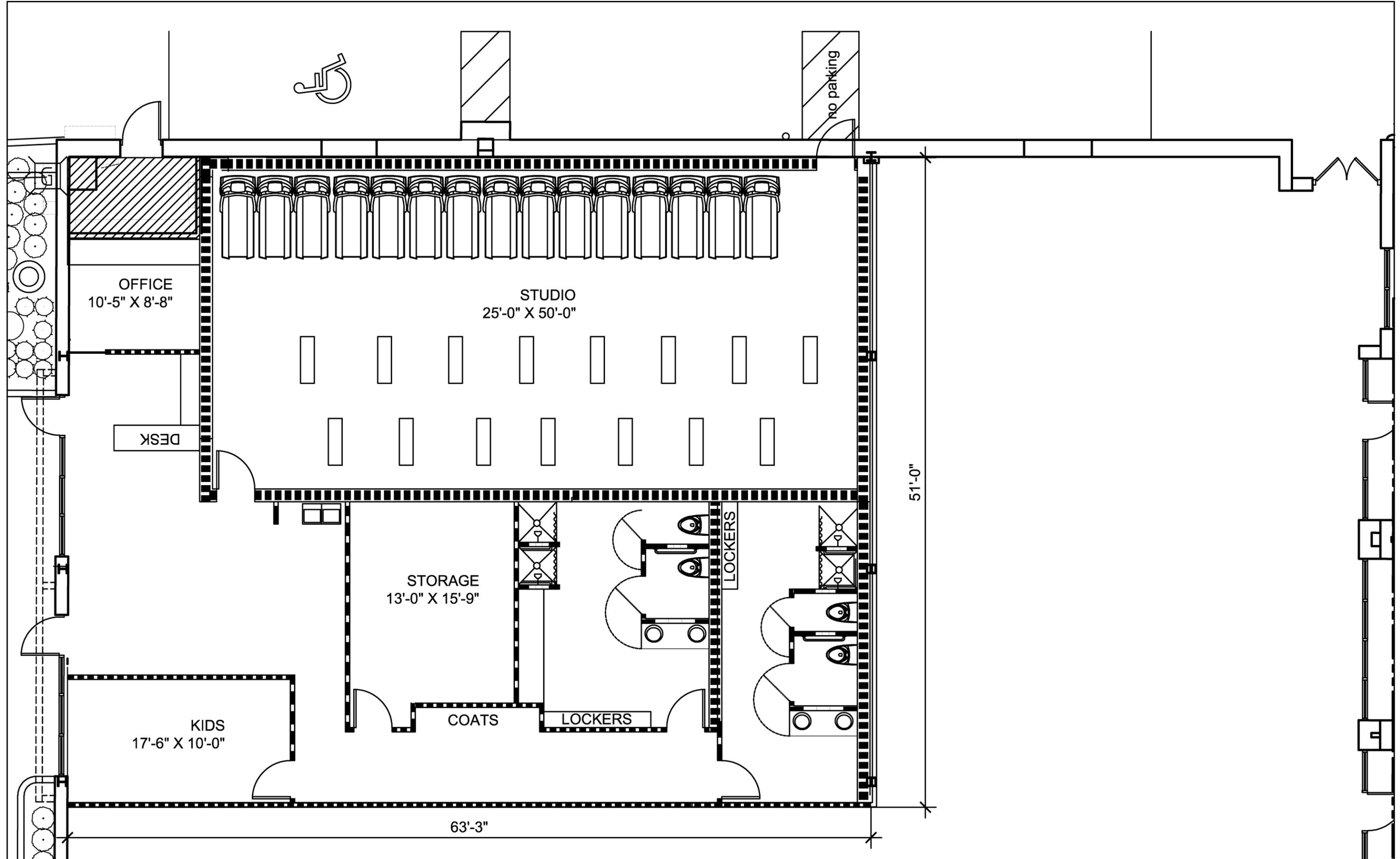
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Suite 280
Riverside, IL 60015
Ph: (847)940-0300
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PROJECT NO.: 166.15.091
DRAWN BY: MDS CHECKED BY: WHB
DATE: 0823.16
SHEET NO.:

A4.1



FORM Design Studio

ARCHITECTURE • INTERIOR DESIGN • FACILITY MANAGEMENT
 200 East Randolph Street
 Suite 5100
 Chicago, IL 60601
 TELEPHONE 773.931.8817

SHRED 415
 636 DEERFIELD ROAD
 DEERFIELD, IL

SK1.R4

DATE:
 4.20.16

SCALE:
 NTS



MEMORANDUM TO: Jonathan Berger
Bensenville Associates, Inc.

FROM: Nicholas J. Butler
Consultant

Luay R. Aboona, PE
Principal

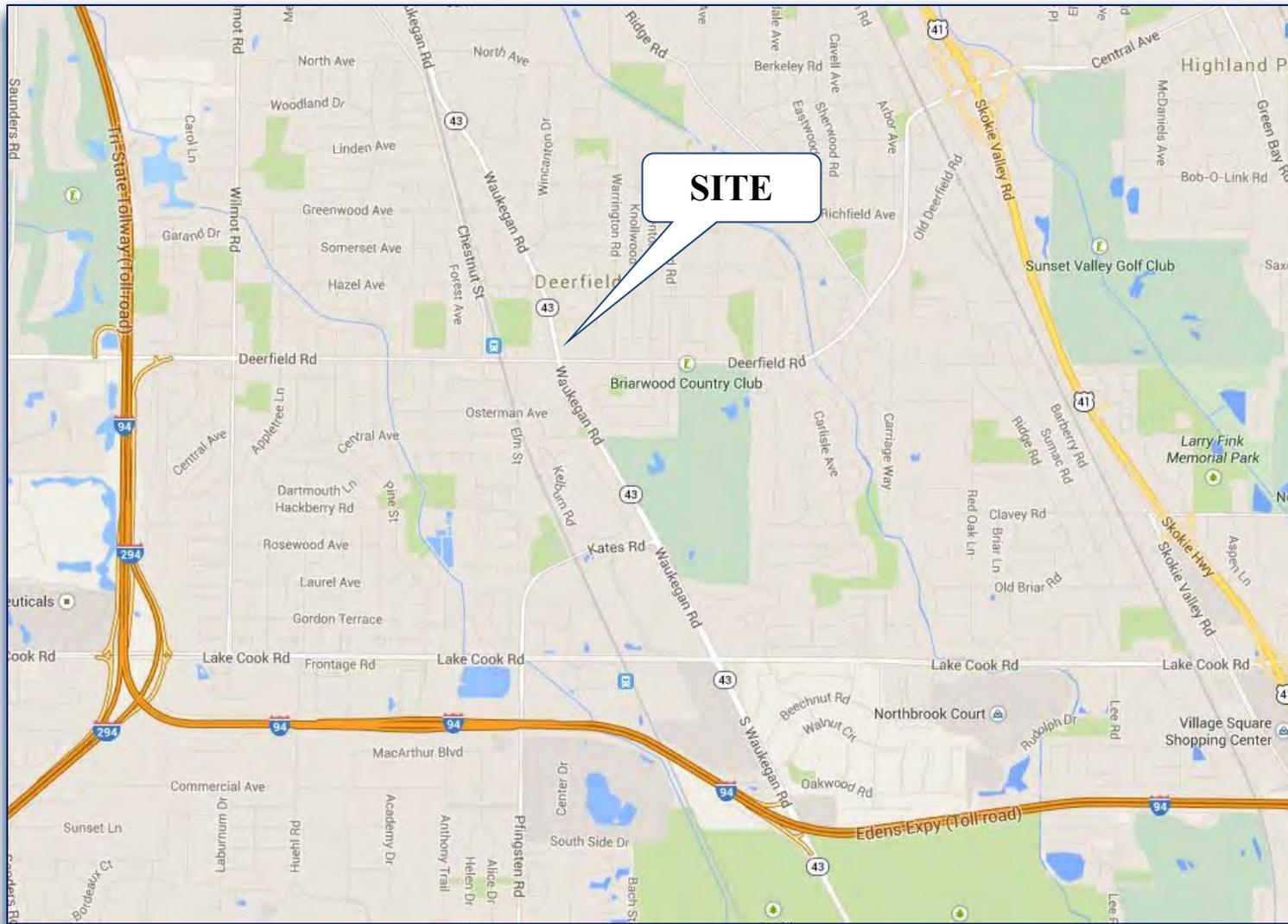
DATE: August 10, 2016

SUBJECT: Traffic and Parking Impact Study
Deerfield Shoppers Court
Deerfield, Illinois

This memorandum summarizes the results of a traffic and parking impact study conducted by Kenig, Lindgren, O’Hara, Aboona, Inc. (KLOA, Inc.) for Shred 415 located within the Deerfield Shoppers Court at 636-660 Deerfield Road in Deerfield, Illinois. The site, which currently contains a vacant building, is located on the north side of Deerfield Road approximately 250 feet west of its intersection with Rosemary Terrace. As proposed, 3,200 square-feet of the total the 14,000 square-foot commercial building will be occupied by the proposed Shred 415. For the purposes of this study, the remaining 10,800 square feet of the existing building were assumed to be occupied by a martial arts studio, a quick-service restaurant and retail space. The development is provided with a 75-space surface parking lot to the north and a 49-space municipal lot to the east. Access to the development is proposed to continue to be provided via the existing full access drive off Rosemary Terrace, the two existing full access drives off Deerfield Road, and the existing cross-access connection to Waukegan Road. **Figure 1** shows the location of the site in relation to the area roadway system. **Figure 2** shows an aerial view of the site area.

The purpose of this study was to examine background traffic conditions, assess the impact that the proposed development will have on traffic conditions in the area, and determine if any roadway or access improvements are necessary to accommodate traffic generated by the proposed development. The sections of this memorandum present the following:

- Existing roadway conditions
- A description of the proposed development
- Directional distribution of the development traffic
- Vehicle trip generation for the development
- Future traffic conditions including access to the site
- Traffic analyses for the weekday morning, weekday evening, and Saturday midday peak hours
- Recommendations with respect to adequacy of the site access system and adjacent roadway system
- Evaluation of the existing parking locations surrounding the development in accommodating the existing and projected parking demand



Site Location

Figure 1



Aerial View of Site Location

Figure 2

Existing Conditions

Transportation conditions in the site area were inventoried to obtain a database for projecting future conditions. Three general components of existing conditions were considered: (1) the geographical location of the site, (2) the characteristics of the roadways and traffic control devices in the site area, and (3) the traffic volumes on the roadways.

Site Location

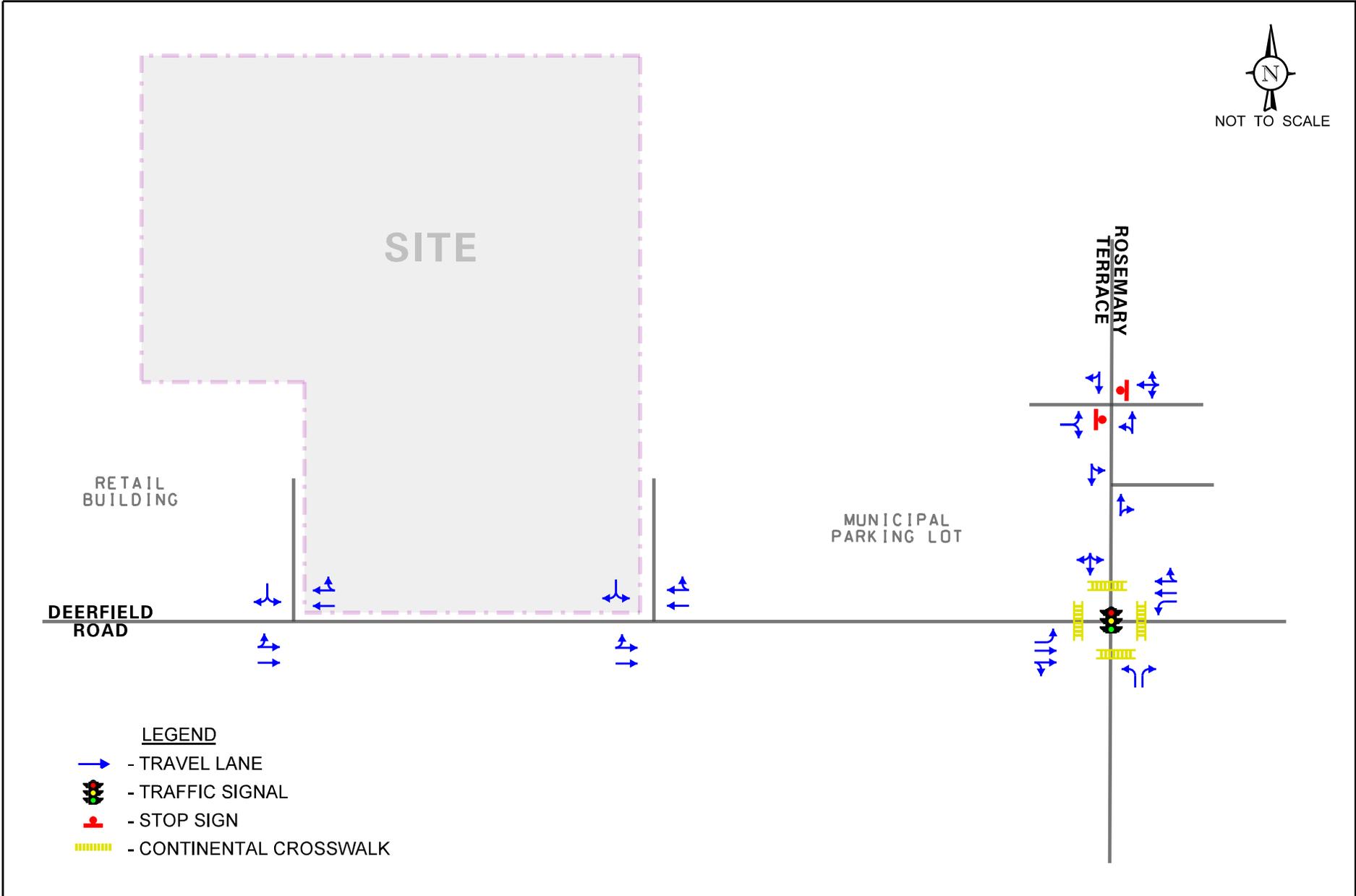
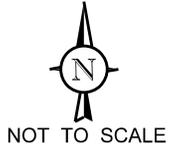
The development site is located on the north side of Deerfield Road approximately 250 feet west of Rosemary Terrace and is currently occupied by a vacant building served by two full access drives on Deerfield Road, one full access drive on Rosemary Terrace, and cross-access to Waukegan Road. The development is surrounded by retail uses to the west and south, Christ United Methodist Church and residential homes to the east, and residential homes to the north.

Existing Roadway System Characteristics

The characteristics of the existing roadways near the development are described below. **Figure 3** illustrates the existing roadway characteristics.

Deerfield Road is an east-west roadway that in the vicinity of the site provides two lanes in each direction. At its signalized intersection with Waukegan Road, Deerfield Road provides an exclusive left-turn lane, two through lanes, and an exclusive right-turn lane on the west approach and an exclusive left-turn lane, an exclusive through lane, and a shared through/right-turn lane on the east approach. Both approaches provide standard style crosswalks with pedestrian signals. At its signalized intersection with Rosemary Terrace, Deerfield Road provides an exclusive left-turn lane, an exclusive through lane, and a shared through/right-turn lane on both approaches. The west leg provides a standard style crosswalk with pedestrian walk signals. Along the north side of Deerfield Road there are three curb cuts to allow access to the adjacent parking lots. The two most easterly driveways allow full movements and the most westerly driveway allows for exiting movements only. Deerfield Road is under the jurisdiction of the Village of Deerfield, carries an average daily traffic (ADT) volume of 22,400 vehicles east of Waukegan Road and 19,700 vehicles west of Waukegan Road, and has a posted speed limit of 30 miles per hour.

It should be noted that Deerfield Road from west of Waukegan Road to east of US 41 is currently under construction for a reconstruction/rehabilitation project. The project includes the reconstruction of the roadway and the modernization of the traffic signals in the corridor. It is our understating that after the reconstruction project the roadway jurisdiction will be transferred to the Lake County Division of Transportation (LCDOT).



- LEGEND**
-  - TRAVEL LANE
 -  - TRAFFIC SIGNAL
 -  - STOP SIGN
 -  - CONTINENTAL CROSSWALK

PROJECT:
Deerfield Shoppers Court
Deerfield, Illinois

TITLE:
Existing Street Characteristics



Job No: 16-151
Figure: 3

Waukegan Road is a north-south roadway that in the vicinity of the site provides two lanes in each direction. At its signalized intersection with Deerfield Road, Waukegan Road provides an exclusive left-turn lane, two through lanes, and an exclusive right-turn lane on the south approach, and an exclusive left-turn lane, an exclusive through lane, and a shared through/right-turn lane on the north approach. Both approaches provide standard style crosswalks with pedestrian walk signals. At its unsignalized intersection with Orchard Street, Waukegan Road provides an exclusive through lane, a shared through/right-turn lane, and a standard style crosswalk on the south approach, and a shared left-turn/through lane and an exclusive through lane on the north approach. Waukegan Road is under the jurisdiction of the of the Illinois Department of Transportation (IDOT), carries an ADT volume of 12,400 vehicles north of Deerfield Road and 27,400 vehicles south of Deerfield Road, and has a posted speed limit of 30 miles per hour.

Rosemary Terrace is a north-south roadway that in the vicinity of the site provides one lane in each direction and extends from Deerfield Road north to its terminus at Westgate Road. At its signalized intersection with Deerfield Road, Rosemary Terrace provides a shared left-turn/through/right-turn lane on the north approach. An access drive is aligned opposite Rosemary Terrace to create a south leg to this intersection. This access drive provides an exclusive left-turn lane and an exclusive right-turn lane. Standard style crosswalks are provided on both approaches with pedestrian walk signals. At its unsignalized intersection with Orchard Street, Rosemary Terrace provides a shared left-turn/through lane on the south approach and a shared through/right-turn lane on the north approach. Northbound left-turn movements onto Orchard Street are prohibited from 7:00 A.M. to 9:00 A.M. and 4:00 P.M. to 6:00 P.M. on weekdays except for buses. Along the west side of Rosemary Terrace is a curb cut to allow full movement access to the adjacent parking lots that currently occupy the site. Along the east side of Rosemary Terrace is a “U” shaped one-way driveway for drop-off/pick-up operations for the Christ United Methodist Church. Rosemary Terrace is under the jurisdiction of the Village of Deerfield and has a posted speed limit of 25 miles per hour.

Existing Traffic Volumes

Due to the ongoing construction on Deerfield Road, turning movement vehicle, pedestrian, and bicycle traffic counts that were previously conducted during the weekday morning (7:00 A.M. to 9:00 A.M.), weekday evening (4:00 P.M. to 6:00 P.M.), and Saturday midday (12:00 P.M. to 2:00 P.M.) peak periods on Thursday, November 13, 2014 and Saturday, November 15, 2014 at the following intersections were utilized:

1. Deerfield Road with Waukegan Road
2. Deerfield Road with Rosemary Terrace
3. Rosemary Terrace with Orchard Street
4. Rosemary Terrace with Christ United Methodist Church/Vacant Building Access Drive
5. Deerfield Road with the three access drives between Waukegan Road and Rosemary Terrace (East Access Drive, Middle Access Drive, and West Access Drive)

From the turning movement count data, it was determined that the weekday morning peak hour generally occurs between 7:15 A.M. and 8:15 A.M., the weekday evening peak hour generally occurs between 4:30 P.M. and 5:30 P.M., and the Saturday midday peak hour generally occurs between 12:00 P.M. and 1:00 P.M. These respective peak hours will be used for the traffic capacity analyses and are presented later in this report. The traffic count summary sheets are included in the appendix. In order to account for regional growth between 2014 and 2016, these counts were increased by one percent per year (two percent total) to represent Year 2016 existing traffic volumes. The adjusted existing peak hour traffic volumes are shown in **Figure 4**.

Accident Analysis

KLOA, Inc. obtained accident data for the past five years (2010 to 2014) for the intersection of Deerfield Road with Rosemary Terrace. The accident data for the intersection is summarized in **Table 1**. A review of the accident data indicated that there were no fatalities reported.

Table 1

DEERFIELD ROAD AND ROSEMARY TERRACE ACCIDENT SUMMARY

Year	Type of Accident Frequency						Total
	Turning	Object	Rear End	Pedestrian	Sideswipe	Animal	
2010	1	-	1	1	-	-	3
2011	1	-	1	-	-	-	2
2012	2	-	-	1	-	-	3
2013	2	-	3	-	2	-	7
2014	<u>1</u>	-	<u>3</u>	-	<u>1</u>	-	<u>5</u>
Total	7	0	8	2	3	0	20
Average/Year	1.4	0	1.6	>1.0	>1.0	0	4.0

Traffic Characteristics of the Deerfield Shoppers Court

In order to properly evaluate future traffic conditions in the surrounding area, it was necessary to determine the traffic characteristics of the proposed development, including the directional distribution and volumes of traffic that it will generate.

Proposed Development Plan

As proposed, 3,200 square-feet of the existing 14,000 square-foot building will be occupied by Shred 415. For the purposes of the analyses, in order to provide conservative traffic and parking generation, the remaining 10,800 square-feet within the existing building was assumed include the following tenants:

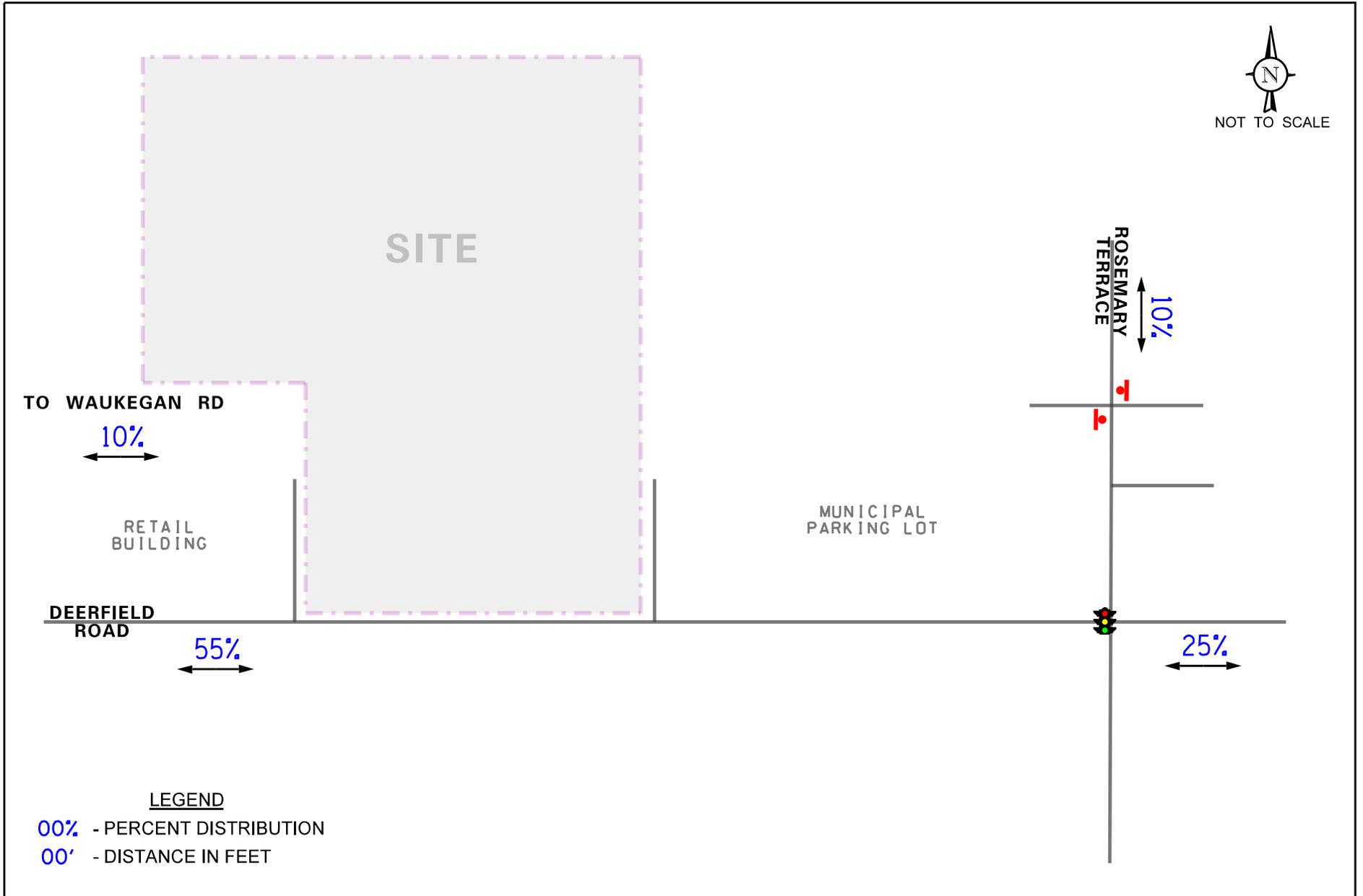
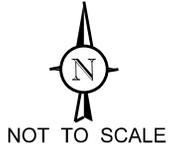
- A 1,900 square-foot martial arts studio
- A 2,300 square-foot quick service restaurant (QSR)
- 6,500 square feet of specialty retail

Access to the development will be provided via the existing access system that consists of the following:

- The existing access drive on Rosemary Terrace is located approximately 200 feet north of Deerfield Road and allows full movements in and out of the site. The access drive currently provides one inbound lane and one outbound lane with outbound movements under stop sign control.
- The existing east access drive on Deerfield Road is located approximately 150 feet west of Rosemary Terrace and allows full movements in and out of the site. The access drive currently provides one inbound lane and one outbound lane with outbound movements under stop sign control.
- The existing west access drive on Deerfield Road is located approximately 300 feet west of Rosemary Terrace and allows full movements in and out of the site. The access drive currently provides one inbound lane and one outbound lane with outbound movements under stop sign control.
- The cross-access between the site's parking lot and the adjacent parking lot to the west which will provide access to Waukegan Road.

Directional Distribution

The directional distribution of how traffic will approach and depart the site was estimated based on a combination of existing travel patterns and the orientation and physical restrictions of the surrounding roadway system. The estimated directional distribution for the development was established and is illustrated in **Figure 5**.



PROJECT:

Deerfield Shoppers Court
Deerfield, Illinois

TITLE:

Estimated Directional Distribution



Job No: 16-151

Figure: 5

Estimated Site-Generated Traffic Volumes

The peak hour traffic volumes that will be generated by the proposed Shred 415 were based on information provided regarding class schedules and sizes and KLOA, Inc.'s work on another location. Additionally, traffic estimates for the martial arts studio were based on information provided regarding class schedules and sizes, traffic estimates for the quick service restaurant were based on previous studies conducted by KLOA at other similar locations. For the specialty retail, the estimated trip generation was based on the ITE *Trip Generation Manual*, 9th Edition's trip rates for specialty retail (Land-Use Code 826). **Table 2** shows the estimated peak hour traffic to be generated by the proposed development.

Table 2
PROJECTED SITE-GENERATED TRAFFIC VOLUMES

Land-Use	Size	Weekday Morning Peak Hour			Weekday Evening Peak Hour			Saturday Midday Peak Hour		
		In	Out	Total	In	Out	Total	In	Out	Total
Shred 415	3,200 s.f.	17	17	34	22	22	44	24	24	48
Martial Arts	1,900 s.f.	<u>0</u>	<u>0</u>	<u>0</u>	<u>23</u>	<u>23</u>	<u>46</u>	<u>12</u>	<u>12</u>	<u>24</u>
Quick Service Restaurant	2,300 s.f.	5	5	10	25	20	45	32	32	63
Specialty Retail	6,500 s.f.	2	2	4	8	10	18	13	13	26
	Total	24	24	48	78	75	153	81	81	162

Projected Traffic Conditions

The total projected traffic volumes include the existing traffic volumes, increase in background traffic due to growth, and the traffic estimated to be generated by the proposed subject development.

Development Traffic Assignment

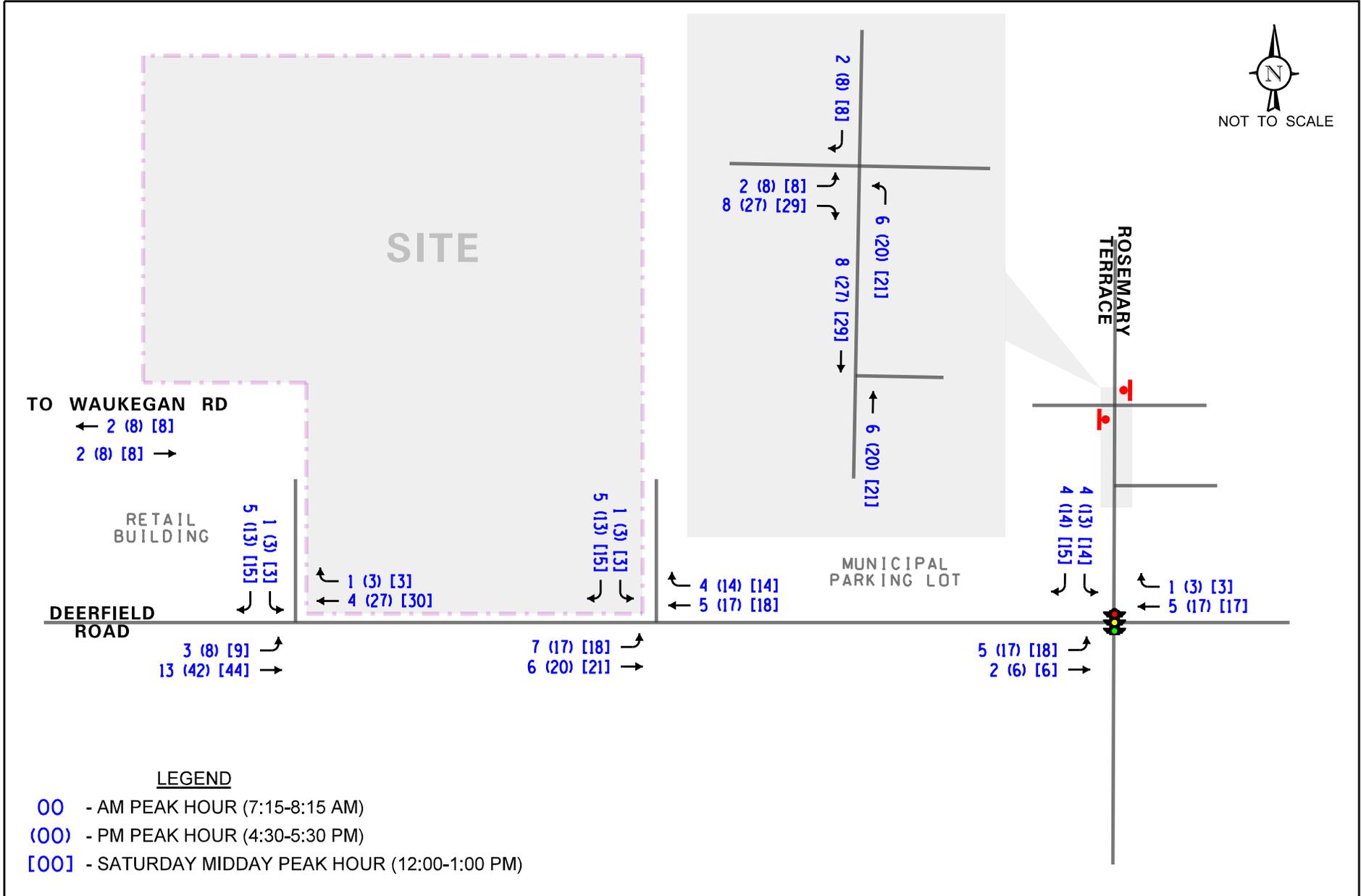
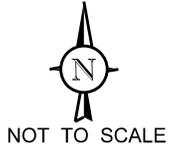
The peak hour traffic volumes projected to be generated by the proposed development were assigned to the area roadways based on the directional distribution analysis (Figure 5). **Figure 6** shows the assignment of the development-generated traffic volumes.

Background Traffic Conditions

In order to account for background growth, the Chicago Metropolitan Agency for Planning (CMAP) Year 2040 population and employment forecast was used which indicated that the existing traffic volumes will be increased by less than one-half percent per year. However, in order to provide a conservative analysis, the traffic volumes were increased by one percent per year for six years (a total of six percent) to reflect Year 2022 traffic conditions. A copy of the CMAP traffic projections can be found in the Appendix.

Total Projected Traffic Volumes

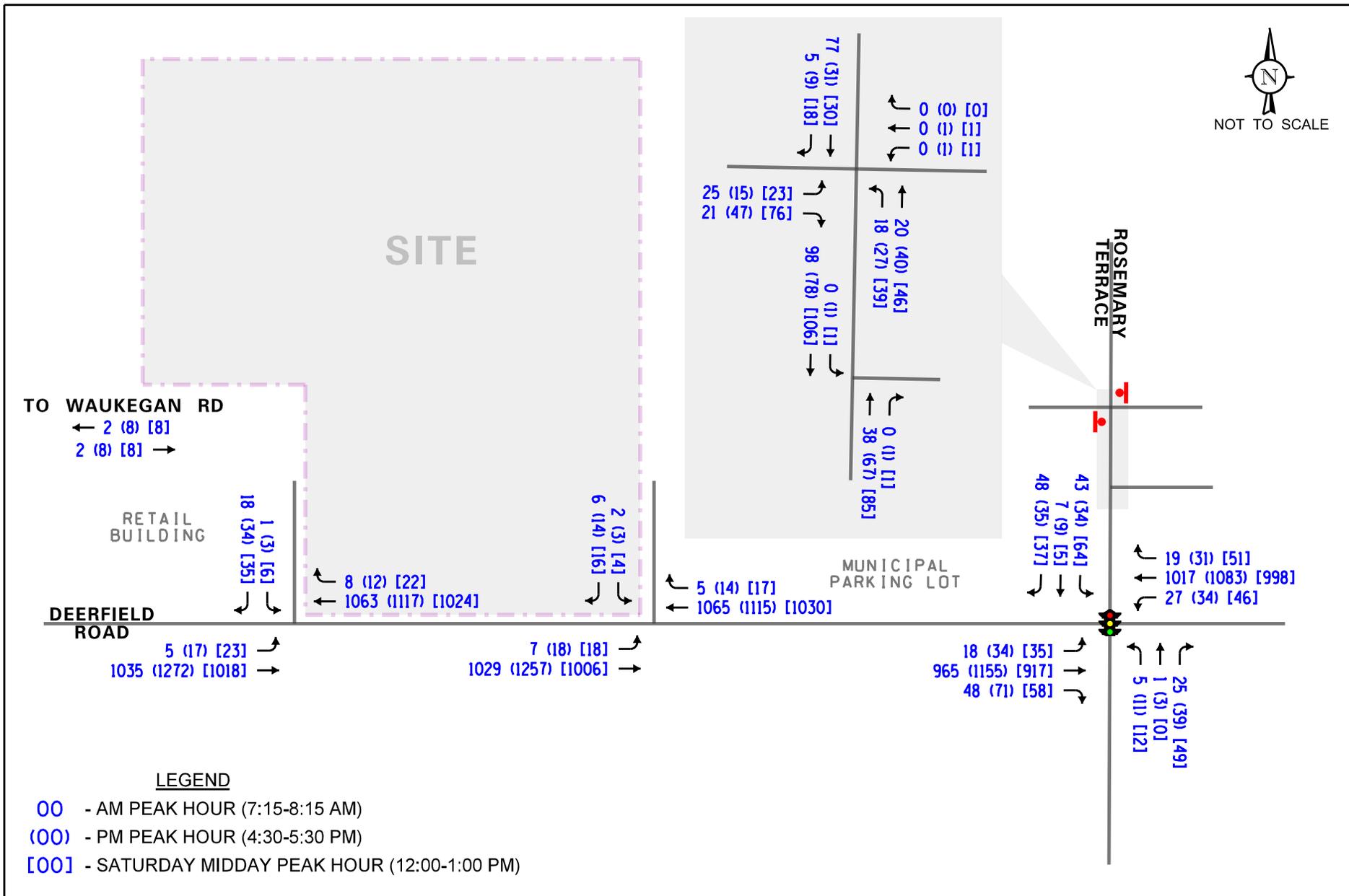
Total projected traffic volumes include the existing traffic volumes increased by six percent and the traffic estimated to be generated by the proposed subject development (Figure 6). **Figure 7** shows the total projected traffic volumes.



PROJECT:
 Deerfield Shoppers Court
 Deerfield, Illinois

TITLE:
 Estimated Site-Generated Traffic Volumes

KLOA
 Job No: 16-151
 Figure: 6



PROJECT:
 Deerfield Shoppers Court
 Deerfield, Illinois

TITLE:
 Year 2022 Total Projected Traffic Volumes

KLOA
 Job No: 16-151
 Figure: 7

Traffic Analysis and Recommendations

The following provides an evaluation conducted for the weekday morning, weekday evening, and Saturday midday peak hours. The analysis includes conducting capacity analyses to determine how well the roadway system and access drives are projected to operate and whether any roadway improvements or modifications are required.

Traffic Analyses

Roadway and adjacent or nearby intersection analyses were performed for the weekday morning, weekday evening, and Saturday midday peak hour periods for the existing (Year 2016) and future projected (Year 2022) traffic volumes.

The traffic analyses were performed using the methodologies outlined in the Transportation Research Board's *Highway Capacity Manual (HCM), 2010* and analyzed using Synchro 8 computer software. The analysis for the traffic-signal controlled intersections were accomplished using actual cycle lengths and phasings to determine the average overall vehicle delay and levels of service.

The ability of an intersection to accommodate traffic flow is expressed in terms of level of service, which is assigned a letter from A to F based on the average control delay experienced by vehicles passing through the intersection. The *Highway Capacity Manual* definitions for levels of service and the corresponding control delay for signalized intersections and unsignalized intersections are included in the Appendix of this report.

Summaries of the traffic analysis results showing the level of service and overall intersection delay (measured in seconds) for the existing and Year 2022 total projected conditions are presented in **Tables 3** and **4**, respectively. A discussion of the intersections follows. Summary sheets for the capacity analyses are included in the Appendix.

Table 3
CAPACITY ANALYSIS RESULTS—EXISTING TRAFFIC VOLUMES

Intersection	Weekday Morning Peak Hour		Weekday Evening Peak Hour		Saturday Midday Peak Hour	
	LOS	Delay	LOS	Delay	LOS	Delay
Deerfield Road and Rosemary Terrace ¹						
• Overall	B	12.6	A	9.9	B	12.3
• Northbound Approach	B	10.8	B	14.0	B	11.0
• Southbound Approach	D	39.8	D	37.3	D	45.4
• Eastbound Approach	B	12.0	B	10.1	B	12.1
• Westbound Approach	B	10.8	A	8.2	B	10.2
Rosemary Terrace and Access Drive ²						
• Eastbound Approach	A	9.1	A	8.7	A	9.0
• Westbound Approach	A	0.0	A	9.3	A	9.9
• Northbound Left	A	2.8	A	1.2	A	2.1
Deerfield Road and West Access Drive ²						
• Southbound Approach	A	8.7	A	8.8	B	11.5
• Eastbound Left	A	0.1	A	0.1	A	0.2
Deerfield Road and East Access Drive ²						
• Southbound Approach	C	18.2	A	9.8	C	16.8
• Eastbound Left	A	0.0	A	0.1	A	0.0
LOS = Level of Service Delay is measured in seconds. 1 - Unsignalized Intersection 2 - Signalized Intersection						

Table 4
CAPACITY ANALYSIS RESULTS - PROJECTED YEAR 2022 TRAFFIC VOLUMES

Intersection	Weekday Morning Peak Hour		Weekday Evening Peak Hour		Saturday Midday Peak Hour	
	LOS	Delay	LOS	Delay	LOS	Delay
Deerfield Road and Rosemary Terrace ¹						
• Overall	B	13.7	B	12.7	B	15.2
• Northbound Approach	B	10.6	B	14.3	B	11.3
• Southbound Approach	D	41.8	D	38.8	D	47.8
• Eastbound Approach	B	13.0	B	12.2	B	13.9
• Westbound Approach	B	11.8	B	11.4	B	13.4
Rosemary Terrace and Access Drive ²						
• Eastbound Approach	A	9.1	A	9.0	A	9.3
• Westbound Approach	A	0.0	A	9.9	B	10.7
• Northbound Left Turn	A	3.7	A	3.0	A	3.5
Deerfield Road and West Access Drive ²						
• Southbound Approach	B	10.1	B	12.0	B	12.8
• Eastbound Left Turn	A	0.5	A	0.7	A	0.9
Deerfield Road and East Access Drive ²						
• Southbound Approach	B	15.0	B	14.9	B	13.6
• Eastbound Left Turn	A	0.5	A	1.0	A	1.1
LOS = Level of Service						
Delay is measured in seconds.						
1 - Unsignalized Intersection						
2 - Signalized Intersection						

Discussion and Recommendations

The following summarizes how the intersections are projected to operate and identifies any roadway and traffic control improvements necessary to accommodate the development traffic.

Deerfield Road and Rosemary Terrace

The results of the capacity analyses indicate that this intersection currently operates at the satisfactory LOS B or better during the weekday morning, weekday evening, and Saturday midday peak hours. Under projected conditions, this intersection is expected to continue operating at LOS B during the peak hours. The overall delay is expected to increase by approximately three seconds. These results show that this intersection will be able to accommodate future traffic volumes and that geometric traffic control improvements will not be necessary.

Rosemary Terrace and Full Access Drive

The results of the capacity analyses indicate that the entering and exiting movements at this access drive are currently operating at a good LOS A during all three peak hours. Under projected conditions, the entering and exiting movements are expected to operate at a LOS B or better during all three peak hours. These results show that this access drive will continue to provide safe and adequate access to the development.

Deerfield Road and West Full Access Drive

The results of the capacity analyses indicate that the entering and exiting movements at this access drive are currently operating at a good LOS B or better during all three peak hours. Under projected conditions, the entering and exiting movements are expected to continue operating at a LOS B or better during all three peak hours. These results show that this access drive will continue to provide safe and adequate access to the development.

Deerfield Road and East Full Access Drive

The results of the capacity analyses indicate that the entering and exiting movements at this access drive are currently operating at an acceptable LOS C or better during all three peak hours. Under projected conditions, the entering and exiting movements are expected to operate at a LOS B or better during all three peak hours. These results show that this access drive will continue to provide safe and adequate access to the development.

Parking Analysis

In order to determine the existing parking demand within the site's parking lot (approximately 75 spaces) and the Deerfield municipal parking lot (approximately 49 spaces), parking occupancy surveys were conducted in half hour intervals on Thursday June 2, 2016 and Saturday June 4, 2016 from 9:00 A.M. to 11:30 A.M. and from 2:00 P.M. to 7:00 P.M. The results of the surveys are summarized in **Tables 5** and **6** for Thursday and Saturday, respectively.

As it can be seen from Tables 5 and 6, the existing parking supply of 124 parking spaces is more than adequate in accommodating the existing parking demand for the surrounding commercial developments. The peak occupancy on Thursday was 50 spaces (40 percent) occurring at 4:00 P.M. and the peak occupancy on Saturday was 75 spaces (60 percent) occurring at 12:00 P.M.

Table 5
 PARKING OCCUPANCY SUMMARY – THURSDAY JUNE 2, 2016

Time Period	Site Parking Lot		Deerfield Municipal Parking Lot		Total	
	Parking Occupancy	Percent Occupied	Parking Occupancy	Percent Occupied	Parking Occupancy	Percent Occupied
9:00 A.M.	23	31%	4	8%	27	22%
9:30 A.M.	23	31%	5	10%	28	23%
10:00 A.M.	27	36%	7	14%	34	27%
10:30 A.M.	26	35%	7	14%	33	27%
11:00 A.M.	28	37%	7	14%	35	28%
11:30 A.M.	29	39%	7	14%	36	29%
12:00 P.M.	38	51%	8	16%	46	37%
12:30 P.M.	40	53%	7	14%	47	38%
1:00 P.M.	34	45%	8	16%	42	34%
1:30 P.M.	30	40%	8	16%	38	31%
2:00 P.M.	29	39%	9	18%	38	31%
2:30 P.M.	23	31%	9	18%	32	26%
3:00 P.M.	23	31%	9	18%	32	26%
3:30 P.M.	20	27%	6	12%	26	21%
4:00 P.M.	31	41%	19	39%	50	40%
4:30 P.M.	24	32%	14	29%	38	31%
5:00 P.M.	19	25%	8	16%	27	22%
5:30 P.M.	10	13%	6	12%	16	13%
6:00 P.M.	20	27%	5	10%	25	20%
6:30 P.M.	19	25%	5	10%	24	19%
7:00 P.M.	20	27%	11	22%	31	25%
Inventory	75 spaces		49 spaces		124 spaces	

Table 6
 PARKING OCCUPANCY SUMMARY – SATURDAY JUNE 4, 2016

Time Period	Site Parking Lot		Deerfield Municipal Parking Lot		Total	
	Parking Occupancy	Percent Occupied	Parking Occupancy	Percent Occupied	Parking Occupancy	Percent Occupied
9:00 A.M.	11	15%	16	33%	27	22%
9:30 A.M.	15	20%	22	45%	37	30%
10:00 A.M.	18	24%	25	51%	43	35%
10:30 A.M.	18	24%	34	69%	52	42%
11:00 A.M.	20	27%	22	45%	42	34%
11:30 A.M.	22	29%	16	33%	38	31%
12:00 P.M.	47	63%	28	57%	75	60%
12:30 P.M.	32	43%	16	33%	48	39%
1:00 P.M.	39	52%	14	29%	53	43%
1:30 P.M.	37	49%	14	29%	51	41%
2:00 P.M.	31	41%	9	18%	40	32%
2:30 P.M.	24	32%	8	16%	32	26%
3:00 P.M.	19	25%	8	16%	27	22%
3:30 P.M.	11	15%	8	16%	19	15%
4:00 P.M.	13	17%	7	14%	20	16%
4:30 P.M.	19	25%	2	4%	21	17%
5:00 P.M.	32	43%	4	8%	36	29%
5:30 P.M.	39	52%	3	6%	42	34%
6:00 P.M.	37	49%	4	8%	41	33%
6:30 P.M.	31	41%	2	4%	33	27%
7:00 P.M.	23	31%	3	6%	26	21%
Inventory	75 spaces		49 spaces		124 spaces	

In order to determine the adequacy of the parking supply in meeting the parking needs of the proposed uses, KLOA, Inc. determined the parking needs for each tenant as follows:

- The Shred 415 parking needs were based on previous studies conducted for the proposed tenant. Based on the previous studies, it was determined that the peak parking demand will be 28 spaces on a weekday and 20 spaces on a Saturday.
- For the martial arts studio, the parking needs were based on the class schedules and sizes as obtained from other locations. Based on that, it was determined that the total peak parking demand will be 16 spaces on both a weekday and a Saturday.
- The parking needs for the QSR were based on the ITE’s *Parking Generation Manual*, 4th Edition as a Fast-Food Restaurant without a Drive-Through Window (Land-Use Code 933). Based on that, the peak parking demand will be 19 spaces for both a weekday and a Saturday.
- The parking needs for the specialty retail were also based on the ITE’s *Parking Generation Manual*, 4th Edition. Because there is no formation provided in the manual for specialty retail (Land-Use Code 826), information for a shopping center (Land-Use Code 820) during a non-Friday weekday (non-December) and a Saturday (non-December) were used instead. The weekday average peak period parking demand was 2.55 vehicles per 1,000 square feet of gross land area (GLA) and the Saturday average peak period parking demand was 2.87 vehicles per 1,000 square feet of GLA which results in a total peak period demand of 17 spaces on a weekday and 19 spaces on a Saturday.

Therefore, the projected parking demand for the proposed tenants will be 80 spaces on a weekday and 74 spaces on a Saturday. The peak parking demand for each use on a weekday and a Saturday is summarized in **Table 7**.

Table 7
ESTIMATED PEAK PARKING DEMAND

Land Use	Weekday Rates	Saturday Rates
Retail	17	19
Quick Service Restaurant	19	19
Shred 415	28	20
Martial Arts	16	16
Total	80	74

Parking Evaluation

Tables 8 and 9 show the hourly distribution of parking demand for each of the proposed land uses added to the total existing parking demand. The hourly distribution for Shred 415 and the martial arts studio are based on information obtained regarding class schedules, while the hourly distribution for the QSR and the specialty retail were based on the shared parking study from ULI. As can be seen from Tables 8 and 9, the existing parking supply of 124 parking spaces will be adequate in accommodating the future parking demand for both existing uses as well as the proposed tenants within Deerfield Shoppers Court. The peak occupancy on Thursday will be 114 spaces (92 percent) occurring at 4:00 P.M. and the peak occupancy on Saturday will be 122 spaces (98 percent) occurring at 1:00 P.M. It should be noted that the peak parking projections for the Shred 415 and the martial arts tenants were conservative since no reductions were applied to account for carpooling and classes were assumed to be at capacity throughout the day.

Table 8
 PROJECTED PEAK PARKING OCCUPANCY – THURSDAY

Time Period	Existing Demand	Specialty Retail	Restaurant	Shred 415	Martial Arts	Total Occupancy	Percent Occupied
9:00 A.M.	27	6	0	17	16	66	53%
9:30 A.M.	28	6	0	17	8	59	48%
10:00 A.M.	34	11	5	11	8	69	56%
10:30 A.M.	33	11	5	11	8	68	55%
11:00 A.M.	35	15	16	11	8	85	69%
11:30 A.M.	36	15	16	11	16	94	76%
12:00 P.M.	46	16	18	20	2	102	85%
12:30 P.M.	47	16	18	20	2	103	83%
1:00 P.M.	42	17	19	17	2	97	78%
1:30 P.M.	38	17	19	17	2	93	75%
2:00 P.M.	38	16	18	11	2	85	69%
2:30 P.M.	32	16	18	11	2	79	64%
3:00 P.M.	32	15	11	11	2	71	57%
3:30 P.M.	26	15	11	11	16	79	64%
4:00 P.M.	50	15	11	22	16	114	92%
4:30 P.M.	38	15	11	22	16	102	82%
5:00 P.M.	27	16	11	25	16	95	77%
5:30 P.M.	16	16	11	25	16	84	68%
6:00 P.M.	25	16	16	28	16	101	81%
6:30 P.M.	24	16	16	28	16	100	81%
7:00 P.M.	31	16	15	28	16	106	85%

Table 9
 PROJECTED PEAK PARKING OCCUPANCY – SATURDAY

Time Period	Existing Demand	Specialty Retail	Restaurant	Shred 415	Martial Arts	Total Occupancy	Percent Occupied
9:00 A.M.	27	6	6	17	16	72	58%
9:30 A.M.	37	6	6	17	16	82	66%
10:00 A.M.	43	10	11	17	16	97	78%
10:30 A.M.	52	10	11	17	16	106	86%
11:00 A.M.	42	12	16	17	16	103	83%
11:30 A.M.	38	12	16	17	16	99	80%
12:00 P.M.	45	15	19	20	16	115	93%
12:30 P.M.	48	15	19	20	16	118	95%
1:00 P.M.	53	17	19	17	16	122	98%
1:30 P.M.	51	17	19	17	16	120	97%
2:00 P.M.	40	19	17	11	16	103	83%
2:30 P.M.	32	19	17	11	16	95	77%
3:00 P.M.	27	19	11	11	2	70	56%
3:30 P.M.	19	19	11	11	0	60	48%
4:00 P.M.	20	18	11	11	0	60	48%
4:30 P.M.	21	18	11	11	0	61	49%
5:00 P.M.	36	17	11	11	0	75	60%
5:30 P.M.	42	17	11	2	0	72	58%
6:00 P.M.	41	15	16	0	0	72	58%
6:30 P.M.	33	15	16	0	0	64	52%
7:00 P.M.	26	14	15	0	0	55	44%

Conclusion

Based on the preceding analyses and recommendations, the following conclusions have been made:

- The results of the traffic analyses indicate that the studied intersections will continue operating at acceptable levels of service, which indicates that site-generated traffic will not have a significant impact on the area traffic.
- The access system serving the site will continue to provide maximum access flexibility for customers and employees.
- The existing parking supply provided by the site and the municipal lot for a total of 124 spaces will be adequate in accommodating the projected peak parking demand.

Appendix

Traffic Count Summary Sheets

CMAP Letter

Level of Service Criteria

Capacity Analysis Summary Sheets

Traffic Count Summary Sheets



Kenig Lindgren O'hara Aboona, Inc.
9575 W. Higgins Rd., Suite 400

Rosemont, Illinois, United States 60018
(847)518-9990

Count Name: Deerfield/Rosemary
Site Code:
Start Date: 11/13/2014
Page No: 1

Turning Movement Data

Start Time	Deerfield Road Eastbound						Deerfield Road Westbound						Rosemary Terrace Northbound						Rosemary Terrace Southbound						Int. Total
	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	
7:00 AM	0	2	177	10	1	189	0	3	185	1	0	189	0	2	0	6	0	8	0	4	0	10	0	14	400
7:15 AM	0	3	201	13	0	217	0	7	210	6	0	223	0	1	0	6	3	7	0	11	3	4	0	18	465
7:30 AM	0	2	201	4	0	207	0	7	255	0	0	262	0	2	1	7	1	10	0	5	2	10	0	17	496
7:45 AM	0	4	262	13	0	279	0	5	247	7	0	259	0	2	0	5	0	7	0	13	2	13	0	28	573
Hourly Total	0	11	841	40	1	892	0	22	897	14	0	933	0	7	1	24	4	32	0	33	7	37	0	77	1934
8:00 AM	0	3	232	14	0	249	0	5	199	4	0	208	0	0	0	5	0	5	0	7	0	13	0	20	482
8:15 AM	0	2	211	16	7	229	0	9	195	3	0	207	0	1	0	4	1	5	0	10	1	4	2	15	456
8:30 AM	0	6	212	24	4	242	0	12	229	8	0	249	0	3	0	7	0	10	0	10	1	5	1	16	517
8:45 AM	0	5	222	14	1	241	0	11	236	5	0	252	0	1	0	8	0	9	0	5	2	3	1	10	512
Hourly Total	0	16	877	68	12	961	0	37	859	20	0	916	0	5	0	24	1	29	0	32	4	25	4	61	1967
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4:00 PM	0	0	285	14	2	299	0	21	265	10	0	296	0	1	1	11	1	13	0	0	2	0	2	2	610
4:15 PM	0	2	225	14	0	241	0	8	233	2	0	243	0	4	0	6	0	10	0	1	1	5	0	7	501
4:30 PM	0	3	284	26	2	313	0	11	256	9	1	276	0	4	2	6	1	12	0	4	3	5	0	12	613
4:45 PM	0	5	261	12	2	278	0	7	216	5	0	228	0	1	1	10	1	12	0	7	3	2	1	12	530
Hourly Total	0	10	1055	66	6	1131	0	47	970	26	1	1043	0	10	4	33	3	47	0	12	9	12	3	33	2254
5:00 PM	0	4	304	11	4	319	0	6	259	4	0	269	0	3	0	13	0	16	0	6	1	5	0	12	616
5:15 PM	0	4	266	17	3	287	0	7	257	7	0	271	0	2	0	7	1	9	0	3	1	8	0	12	579
5:30 PM	0	5	241	10	1	256	0	6	228	3	0	237	0	0	0	13	1	13	0	9	0	2	0	11	517
5:45 PM	0	1	218	16	0	235	0	8	239	2	0	249	0	2	0	17	0	19	0	9	1	4	0	14	517
Hourly Total	0	14	1029	54	8	1097	0	27	983	16	0	1026	0	7	0	50	2	57	0	27	3	19	0	49	2229
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM	0	6	215	18	1	239	0	7	216	7	0	230	0	2	0	12	2	14	0	14	1	3	0	18	501
12:15 PM	0	1	207	8	2	216	0	8	231	13	0	252	0	2	0	11	1	13	0	8	0	7	1	15	496
12:30 PM	0	2	227	11	0	240	0	14	209	15	0	238	0	4	0	10	2	14	0	11	3	4	1	18	510
12:45 PM	0	7	188	17	1	212	0	13	249	9	0	271	0	3	0	12	0	15	0	13	1	7	0	21	519
Hourly Total	0	16	837	54	4	907	0	42	905	44	0	991	0	11	0	45	5	56	0	46	5	21	2	72	2026
1:00 PM	0	5	186	14	0	205	0	6	193	1	0	200	0	0	0	10	0	10	0	15	5	8	0	28	443
1:15 PM	0	3	184	9	4	196	0	8	203	9	0	220	0	2	2	8	4	12	0	16	1	6	3	23	451
1:30 PM	0	2	200	10	3	212	0	12	189	7	0	208	0	3	0	9	0	12	0	9	1	3	1	13	445
1:45 PM	0	5	206	14	0	225	0	13	224	6	0	243	0	2	0	8	1	10	0	7	0	6	1	13	491
Hourly Total	0	15	776	47	7	838	0	39	809	23	0	871	0	7	2	35	5	44	0	47	7	23	5	77	1830
Grand Total	0	82	5415	329	38	5826	0	214	5423	143	1	5780	0	47	7	211	20	265	0	197	35	137	14	369	12240
Approach %	0.0	1.4	92.9	5.6	-	-	0.0	3.7	93.8	2.5	-	-	0.0	17.7	2.6	79.6	-	-	0.0	53.4	9.5	37.1	-	-	-
Total %	0.0	0.7	44.2	2.7	-	47.6	0.0	1.7	44.3	1.2	-	47.2	0.0	0.4	0.1	1.7	-	2.2	0.0	1.6	0.3	1.1	-	3.0	-
Lights	0	77	5298	326	-	5701	0	211	5300	141	-	5652	0	47	7	209	-	263	0	196	33	134	-	363	11979
% Lights	-	93.9	97.8	99.1	-	97.9	-	98.6	97.7	98.6	-	97.8	-	100.0	100.0	99.1	-	99.2	-	99.5	94.3	97.8	-	98.4	97.9

Buses	0	3	49	0	-	52	0	0	49	0	-	49	0	0	0	0	-	0	0	1	0	2	-	3	104
% Buses	-	3.7	0.9	0.0	-	0.9	-	0.0	0.9	0.0	-	0.8	-	0.0	0.0	0.0	-	0.0	-	0.5	0.0	1.5	-	0.8	0.8
Single-Unit Trucks	0	2	59	3	-	64	0	2	67	2	-	71	0	0	0	2	-	2	0	0	1	1	-	2	139
% Single-Unit Trucks	-	2.4	1.1	0.9	-	1.1	-	0.9	1.2	1.4	-	1.2	-	0.0	0.0	0.9	-	0.8	-	0.0	2.9	0.7	-	0.5	1.1
Articulated Trucks	0	0	8	0	-	8	0	1	6	0	-	7	0	0	0	0	-	0	0	0	0	0	-	0	15
% Articulated Trucks	-	0.0	0.1	0.0	-	0.1	-	0.5	0.1	0.0	-	0.1	-	0.0	0.0	0.0	-	0.0	-	0.0	0.0	0.0	-	0.0	0.1
Bicycles on Road	0	0	1	0	-	1	0	0	1	0	-	1	0	0	0	0	-	0	0	0	1	0	-	1	3
% Bicycles on Road	-	0.0	0.0	0.0	-	0.0	-	0.0	0.0	0.0	-	0.0	-	0.0	0.0	0.0	-	0.0	-	0.0	2.9	0.0	-	0.3	0.0
Pedestrians	-	-	-	-	38	-	-	-	-	-	1	-	-	-	-	-	20	-	-	-	-	-	14	-	-
% Pedestrians	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-



Kenig Lindgren O'hara Aboona, Inc.
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Rosemont, Illinois, United States 60018
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Count Name: Deerfield/Rosemary
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Start Date: 11/13/2014
Page No: 4

Turning Movement Peak Hour Data (7:15 AM)

Start Time	Deerfield Road Eastbound						Deerfield Road Westbound						Rosemary Terrace Northbound						Rosemary Terrace Southbound						Int. Total
	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	
7:15 AM	0	3	201	13	0	217	0	7	210	6	0	223	0	1	0	6	3	7	0	11	3	4	0	18	465
7:30 AM	0	2	201	4	0	207	0	7	255	0	0	262	0	2	1	7	1	10	0	5	2	10	0	17	496
7:45 AM	0	4	262	13	0	279	0	5	247	7	0	259	0	2	0	5	0	7	0	13	2	13	0	28	573
8:00 AM	0	3	232	14	0	249	0	5	199	4	0	208	0	0	0	5	0	5	0	7	0	13	0	20	482
Total	0	12	896	44	0	952	0	24	911	17	0	952	0	5	1	23	4	29	0	36	7	40	0	83	2016
Approach %	0.0	1.3	94.1	4.6	-	-	0.0	2.5	95.7	1.8	-	-	0.0	17.2	3.4	79.3	-	-	0.0	43.4	8.4	48.2	-	-	-
Total %	0.0	0.6	44.4	2.2	-	47.2	0.0	1.2	45.2	0.8	-	47.2	0.0	0.2	0.0	1.1	-	1.4	0.0	1.8	0.3	2.0	-	4.1	-
PHF	0.000	0.750	0.855	0.786	-	0.853	0.000	0.857	0.893	0.607	-	0.908	0.000	0.625	0.250	0.821	-	0.725	0.000	0.692	0.583	0.769	-	0.741	0.880
Lights	0	10	850	42	-	902	0	24	879	16	-	919	0	5	1	22	-	28	0	35	7	38	-	80	1929
% Lights	-	83.3	94.9	95.5	-	94.7	-	100.0	96.5	94.1	-	96.5	-	100.0	100.0	95.7	-	96.6	-	97.2	100.0	95.0	-	96.4	95.7
Buses	0	1	21	0	-	22	0	0	16	0	-	16	0	0	0	0	-	0	0	1	0	2	-	3	41
% Buses	-	8.3	2.3	0.0	-	2.3	-	0.0	1.8	0.0	-	1.7	-	0.0	0.0	0.0	-	0.0	-	2.8	0.0	5.0	-	3.6	2.0
Single-Unit Trucks	0	1	23	2	-	26	0	0	15	1	-	16	0	0	0	1	-	1	0	0	0	0	-	0	43
% Single-Unit Trucks	-	8.3	2.6	4.5	-	2.7	-	0.0	1.6	5.9	-	1.7	-	0.0	0.0	4.3	-	3.4	-	0.0	0.0	0.0	-	0.0	2.1
Articulated Trucks	0	0	2	0	-	2	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	2
% Articulated Trucks	-	0.0	0.2	0.0	-	0.2	-	0.0	0.0	0.0	-	0.0	-	0.0	0.0	0.0	-	0.0	-	0.0	0.0	0.0	-	0.0	0.1
Bicycles on Road	0	0	0	0	-	0	0	0	1	0	-	1	0	0	0	0	-	0	0	0	0	0	-	0	1
% Bicycles on Road	-	0.0	0.0	0.0	-	0.0	-	0.0	0.1	0.0	-	0.1	-	0.0	0.0	0.0	-	0.0	-	0.0	0.0	0.0	-	0.0	0.0
Pedestrians	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	4	-	-	-	-	-	0	-	-
% Pedestrians	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100.0	-	-	-	-	-	-	-	-



Kenig Lindgren O'hara Aboona, Inc.
9575 W. Higgins Rd., Suite 400

Rosemont, Illinois, United States 60018
(847)518-9990

Count Name: Deerfield/Rosemary
Site Code:
Start Date: 11/13/2014
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Turning Movement Peak Hour Data (4:30 PM)

Start Time	Deerfield Road Eastbound						Deerfield Road Westbound						Rosemary Terrace Northbound						Rosemary Terrace Southbound						Int. Total
	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	
4:30 PM	0	3	284	26	2	313	0	11	256	9	1	276	0	4	2	6	1	12	0	4	3	5	0	12	613
4:45 PM	0	5	261	12	2	278	0	7	216	5	0	228	0	1	1	10	1	12	0	7	3	2	1	12	530
5:00 PM	0	4	304	11	4	319	0	6	259	4	0	269	0	3	0	13	0	16	0	6	1	5	0	12	616
5:15 PM	0	4	266	17	3	287	0	7	257	7	0	271	0	2	0	7	1	9	0	3	1	8	0	12	579
Total	0	16	1115	66	11	1197	0	31	988	25	1	1044	0	10	3	36	3	49	0	20	8	20	1	48	2338
Approach %	0.0	1.3	93.1	5.5	-	-	0.0	3.0	94.6	2.4	-	-	0.0	20.4	6.1	73.5	-	-	0.0	41.7	16.7	41.7	-	-	-
Total %	0.0	0.7	47.7	2.8	-	51.2	0.0	1.3	42.3	1.1	-	44.7	0.0	0.4	0.1	1.5	-	2.1	0.0	0.9	0.3	0.9	-	2.1	-
PHF	0.000	0.800	0.917	0.635	-	0.938	0.000	0.705	0.954	0.694	-	0.946	0.000	0.625	0.375	0.692	-	0.766	0.000	0.714	0.667	0.625	-	1.000	0.949
Lights	0	16	1101	65	-	1182	0	30	973	25	-	1028	0	10	3	36	-	49	0	20	7	20	-	47	2306
% Lights	-	100.0	98.7	98.5	-	98.7	-	96.8	98.5	100.0	-	98.5	-	100.0	100.0	100.0	-	100.0	-	100.0	87.5	100.0	-	97.9	98.6
Buses	0	0	7	0	-	7	0	0	3	0	-	3	0	0	0	0	-	0	0	0	0	0	-	0	10
% Buses	-	0.0	0.6	0.0	-	0.6	-	0.0	0.3	0.0	-	0.3	-	0.0	0.0	0.0	-	0.0	-	0.0	0.0	0.0	-	0.0	0.4
Single-Unit Trucks	0	0	5	1	-	6	0	0	12	0	-	12	0	0	0	0	-	0	0	0	1	0	-	1	19
% Single-Unit Trucks	-	0.0	0.4	1.5	-	0.5	-	0.0	1.2	0.0	-	1.1	-	0.0	0.0	0.0	-	0.0	-	0.0	12.5	0.0	-	2.1	0.8
Articulated Trucks	0	0	1	0	-	1	0	1	0	0	-	1	0	0	0	0	-	0	0	0	0	0	-	0	2
% Articulated Trucks	-	0.0	0.1	0.0	-	0.1	-	3.2	0.0	0.0	-	0.1	-	0.0	0.0	0.0	-	0.0	-	0.0	0.0	0.0	-	0.0	0.1
Bicycles on Road	0	0	1	0	-	1	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	1
% Bicycles on Road	-	0.0	0.1	0.0	-	0.1	-	0.0	0.0	0.0	-	0.0	-	0.0	0.0	0.0	-	0.0	-	0.0	0.0	0.0	-	0.0	0.0
Pedestrians	-	-	-	-	11	-	-	-	-	-	1	-	-	-	-	-	3	-	-	-	-	-	1	-	-
% Pedestrians	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-



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9575 W. Higgins Rd., Suite 400

Rosemont, Illinois, United States 60018
(847)518-9990

Count Name: Deerfield/Rosemary
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Turning Movement Peak Hour Data (12:00 PM)

Start Time	Deerfield Road Eastbound						Deerfield Road Westbound						Rosemary Terrace Northbound						Rosemary Terrace Southbound						Int. Total
	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	
12:00 PM	0	6	215	18	1	239	0	7	216	7	0	230	0	2	0	12	2	14	0	14	1	3	0	18	501
12:15 PM	0	1	207	8	2	216	0	8	231	13	0	252	0	2	0	11	1	13	0	8	0	7	1	15	496
12:30 PM	0	2	227	11	0	240	0	14	209	15	0	238	0	4	0	10	2	14	0	11	3	4	1	18	510
12:45 PM	0	7	188	17	1	212	0	13	249	9	0	271	0	3	0	12	0	15	0	13	1	7	0	21	519
Total	0	16	837	54	4	907	0	42	905	44	0	991	0	11	0	45	5	56	0	46	5	21	2	72	2026
Approach %	0.0	1.8	92.3	6.0	-	-	0.0	4.2	91.3	4.4	-	-	0.0	19.6	0.0	80.4	-	-	0.0	63.9	6.9	29.2	-	-	-
Total %	0.0	0.8	41.3	2.7	-	44.8	0.0	2.1	44.7	2.2	-	48.9	0.0	0.5	0.0	2.2	-	2.8	0.0	2.3	0.2	1.0	-	3.6	-
PHF	0.000	0.571	0.922	0.750	-	0.945	0.000	0.750	0.909	0.733	-	0.914	0.000	0.688	0.000	0.938	-	0.933	0.000	0.821	0.417	0.750	-	0.857	0.976
Lights	0	16	831	54	-	901	0	40	895	44	-	979	0	11	0	44	-	55	0	46	5	20	-	71	2006
% Lights	-	100.0	99.3	100.0	-	99.3	-	95.2	98.9	100.0	-	98.8	-	100.0	-	97.8	-	98.2	-	100.0	100.0	95.2	-	98.6	99.0
Buses	0	0	2	0	-	2	0	0	3	0	-	3	0	0	0	0	-	0	0	0	0	0	-	0	5
% Buses	-	0.0	0.2	0.0	-	0.2	-	0.0	0.3	0.0	-	0.3	-	0.0	-	0.0	-	0.0	-	0.0	0.0	0.0	-	0.0	0.2
Single-Unit Trucks	0	0	4	0	-	4	0	2	6	0	-	8	0	0	0	1	-	1	0	0	0	1	-	1	14
% Single-Unit Trucks	-	0.0	0.5	0.0	-	0.4	-	4.8	0.7	0.0	-	0.8	-	0.0	-	2.2	-	1.8	-	0.0	0.0	4.8	-	1.4	0.7
Articulated Trucks	0	0	0	0	-	0	0	0	1	0	-	1	0	0	0	0	-	0	0	0	0	0	-	0	1
% Articulated Trucks	-	0.0	0.0	0.0	-	0.0	-	0.0	0.1	0.0	-	0.1	-	0.0	-	0.0	-	0.0	-	0.0	0.0	0.0	-	0.0	0.0
Bicycles on Road	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0
% Bicycles on Road	-	0.0	0.0	0.0	-	0.0	-	0.0	0.0	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	0.0	0.0	-	0.0	0.0
Pedestrians	-	-	-	-	4	-	-	-	-	-	0	-	-	-	-	-	5	-	-	-	-	-	2	-	-
% Pedestrians	-	-	-	-	100.0	-	-	-	-	-	-	-	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-



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9575 W. Higgins Rd., Suite 400

Rosemont, Illinois, United States 60018
(847)518-9990

Count Name: Rosemary/Parking Lot Access
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Turning Movement Data

Start Time	Parking Lot Access Eastbound						Church Access Westbound						Rosemary Terrace Northbound						Rosemary Terrace Southbound						Int. Total
	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	
7:00 AM	0	1	0	2	1	3	0	0	0	0	0	0	0	3	1	0	0	4	0	0	15	1	0	16	23
7:15 AM	0	1	0	4	0	5	0	0	0	0	0	0	0	4	4	0	0	8	0	0	11	0	0	11	24
7:30 AM	0	0	0	4	0	4	0	0	0	0	0	0	0	1	2	0	0	3	0	0	14	1	0	15	22
7:45 AM	0	0	0	2	0	2	0	0	0	0	0	0	0	9	2	0	0	11	0	0	29	1	0	30	43
Hourly Total	0	2	0	12	1	14	0	0	0	0	0	0	0	17	9	0	0	26	0	0	69	3	0	72	112
8:00 AM	0	0	0	4	0	4	0	0	0	0	0	0	0	3	4	0	0	7	0	0	15	0	0	15	26
8:15 AM	0	0	0	2	5	2	0	0	0	0	0	0	0	1	4	0	0	5	0	0	12	1	0	13	20
8:30 AM	0	0	0	4	2	4	0	0	0	0	0	0	0	3	3	0	0	6	0	0	12	0	0	12	22
8:45 AM	0	0	0	2	0	2	0	1	0	0	0	1	0	5	4	0	2	9	0	0	7	2	0	9	21
Hourly Total	0	0	0	12	7	12	0	1	0	0	0	1	0	12	15	0	2	27	0	0	46	3	0	49	89
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	6	5	0	0	11	0	0	2	0	0	2	13
4:15 PM	0	2	0	0	0	2	0	0	0	1	0	1	0	2	1	0	0	3	0	0	5	1	0	6	12
4:30 PM	0	0	0	6	1	6	0	0	0	0	0	0	0	4	8	0	0	12	0	0	7	0	0	7	25
4:45 PM	0	0	0	6	0	6	0	1	0	0	0	1	0	3	10	0	0	13	1	0	4	2	0	7	27
Hourly Total	0	2	0	12	1	14	0	1	0	1	0	2	0	15	24	0	0	39	1	0	18	3	0	22	77
5:00 PM	0	2	0	7	0	9	0	0	0	0	0	0	0	5	2	0	0	7	0	0	6	1	1	7	23
5:15 PM	0	1	0	4	0	5	0	0	1	0	0	1	0	3	8	0	0	11	0	0	8	1	0	9	26
5:30 PM	0	2	0	6	0	8	0	0	0	0	0	0	0	1	7	0	0	8	0	0	6	2	0	8	24
5:45 PM	0	0	0	6	0	6	0	0	0	0	0	0	0	0	2	0	0	2	0	0	8	0	0	8	16
Hourly Total	0	5	0	23	0	28	0	0	1	0	0	1	0	9	19	0	0	28	0	0	28	4	1	32	89
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM	0	1	0	13	0	14	0	0	0	0	2	0	0	8	3	0	19	11	0	0	5	3	0	8	33
12:15 PM	0	4	0	10	1	14	0	1	0	0	0	1	0	8	8	0	8	16	0	0	5	0	0	5	36
12:30 PM	0	3	0	13	0	16	0	0	0	0	5	0	0	11	7	0	11	18	0	0	8	3	0	11	45
12:45 PM	0	1	0	10	0	11	0	0	1	0	3	1	0	5	9	0	11	14	0	0	11	2	0	13	39
Hourly Total	0	9	0	46	1	55	0	1	1	0	10	2	0	32	27	0	49	59	0	0	29	8	0	37	153
1:00 PM	0	3	0	13	3	16	0	1	0	0	1	1	1	2	3	0	4	6	0	0	11	4	2	15	38
1:15 PM	0	2	0	16	2	18	0	1	0	0	2	1	0	5	8	0	5	13	0	0	6	1	0	7	39
1:30 PM	0	3	0	6	0	9	0	0	0	0	1	0	0	2	6	0	2	8	0	0	7	1	0	8	25
1:45 PM	0	1	0	7	0	8	0	0	0	0	3	0	0	5	6	0	0	11	0	0	6	0	1	6	25
Hourly Total	0	9	0	42	5	51	0	2	0	0	7	2	1	14	23	0	11	38	0	0	30	6	3	36	127
Grand Total	0	27	0	147	15	174	0	5	2	1	17	8	1	99	117	0	62	217	1	0	220	27	4	248	647
Approach %	0.0	15.5	0.0	84.5	-	-	0.0	62.5	25.0	12.5	-	-	0.5	45.6	53.9	0.0	-	-	0.4	0.0	88.7	10.9	-	-	-
Total %	0.0	4.2	0.0	22.7	-	26.9	0.0	0.8	0.3	0.2	-	1.2	0.2	15.3	18.1	0.0	-	33.5	0.2	0.0	34.0	4.2	-	38.3	-
Lights	0	27	0	144	-	171	0	5	2	1	-	8	1	98	112	0	-	211	0	0	218	27	-	245	635
% Lights	-	100.0	-	98.0	-	98.3	-	100.0	100.0	100.0	-	100.0	100.0	99.0	95.7	-	-	97.2	0.0	-	99.1	100.0	-	98.8	98.1

Buses	0	0	0	0	-	0	0	0	0	0	-	0	0	0	3	0	-	3	0	0	2	0	-	2	5
% Buses	-	0.0	-	0.0	-	0.0	-	0.0	0.0	0.0	-	0.0	0.0	0.0	2.6	-	-	1.4	0.0	-	0.9	0.0	-	0.8	0.8
Single-Unit Trucks	0	0	0	3	-	3	0	0	0	0	-	0	0	1	2	0	-	3	1	0	0	0	-	1	7
% Single-Unit Trucks	-	0.0	-	2.0	-	1.7	-	0.0	0.0	0.0	-	0.0	0.0	1.0	1.7	-	-	1.4	100.0	-	0.0	0.0	-	0.4	1.1
Articulated Trucks	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0
% Articulated Trucks	-	0.0	-	0.0	-	0.0	-	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0	-	0.0	0.0	-	0.0	0.0
Bicycles on Road	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0
% Bicycles on Road	-	0.0	-	0.0	-	0.0	-	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	-	-	0.0	0.0	-	0.0	0.0	-	0.0	0.0
Pedestrians	-	-	-	-	15	-	-	-	-	17	-	-	-	-	-	-	62	-	-	-	-	-	4	-	-
% Pedestrians	-	-	-	-	100.0	-	-	-	-	100.0	-	-	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-



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Count Name: Rosemary/Parking Lot Access
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Turning Movement Peak Hour Data (7:15 AM)

Start Time	Parking Lot Access						Church Access						Rosemary Terrace						Int. Total						
	Eastbound						Westbound						Northbound							Southbound					
	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	
7:15 AM	0	1	0	4	0	5	0	0	0	0	0	0	0	4	4	0	0	8	0	0	11	0	0	11	24
7:30 AM	0	0	0	4	0	4	0	0	0	0	0	0	0	1	2	0	0	3	0	0	14	1	0	15	22
7:45 AM	0	0	0	2	0	2	0	0	0	0	0	0	0	9	2	0	0	11	0	0	29	1	0	30	43
8:00 AM	0	0	0	4	0	4	0	0	0	0	0	0	0	3	4	0	0	7	0	0	15	0	0	15	26
Total	0	1	0	14	0	15	0	0	0	0	0	0	0	17	12	0	0	29	0	0	69	2	0	71	115
Approach %	0.0	6.7	0.0	93.3	-	-	NaN	NaN	NaN	NaN	-	-	0.0	58.6	41.4	0.0	-	-	0.0	0.0	97.2	2.8	-	-	-
Total %	0.0	0.9	0.0	12.2	-	13.0	0.0	0.0	0.0	0.0	-	0.0	0.0	14.8	10.4	0.0	-	25.2	0.0	0.0	60.0	1.7	-	61.7	-
PHF	0.000	0.250	0.000	0.875	-	0.750	0.000	0.000	0.000	0.000	-	0.000	0.000	0.472	0.750	0.000	-	0.659	0.000	0.000	0.595	0.500	-	0.592	0.669
Lights	0	1	0	13	-	14	0	0	0	0	-	0	0	16	10	0	-	26	0	0	67	2	-	69	109
% Lights	-	100.0	-	92.9	-	93.3	-	-	-	-	-	-	-	94.1	83.3	-	-	89.7	-	-	97.1	100.0	-	97.2	94.8
Buses	0	0	0	0	-	0	0	0	0	0	-	0	0	0	1	0	-	1	0	0	2	0	-	2	3
% Buses	-	0.0	-	0.0	-	0.0	-	-	-	-	-	-	-	0.0	8.3	-	-	3.4	-	-	2.9	0.0	-	2.8	2.6
Single-Unit Trucks	0	0	0	1	-	1	0	0	0	0	-	0	0	1	1	0	-	2	0	0	0	0	-	0	3
% Single-Unit Trucks	-	0.0	-	7.1	-	6.7	-	-	-	-	-	-	-	5.9	8.3	-	-	6.9	-	-	0.0	0.0	-	0.0	2.6
Articulated Trucks	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0
% Articulated Trucks	-	0.0	-	0.0	-	0.0	-	-	-	-	-	-	-	0.0	0.0	-	-	0.0	-	-	0.0	0.0	-	0.0	0.0
Bicycles on Road	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0
% Bicycles on Road	-	0.0	-	0.0	-	0.0	-	-	-	-	-	-	-	0.0	0.0	-	-	0.0	-	-	0.0	0.0	-	0.0	0.0
Pedestrians	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-
% Pedestrians	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Kenig Lindgren O'hara Aboona, Inc.
9575 W. Higgins Rd., Suite 400

Rosemont, Illinois, United States 60018
(847)518-9990

Count Name: Rosemary/Parking Lot Access
Site Code:
Start Date: 11/13/2014
Page No: 6

Turning Movement Peak Hour Data (4:30 PM)

Start Time	Parking Lot Access						Church Access						Rosemary Terrace						Int. Total						
	Eastbound						Westbound						Northbound							Southbound					
	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	
4:30 PM	0	0	0	6	1	6	0	0	0	0	0	0	0	4	8	0	0	12	0	0	7	0	0	7	25
4:45 PM	0	0	0	6	0	6	0	1	0	0	0	1	0	3	10	0	0	13	1	0	4	2	0	7	27
5:00 PM	0	2	0	7	0	9	0	0	0	0	0	0	0	5	2	0	0	7	0	0	6	1	1	7	23
5:15 PM	0	1	0	4	0	5	0	0	1	0	0	1	0	3	8	0	0	11	0	0	8	1	0	9	26
Total	0	3	0	23	1	26	0	1	1	0	0	2	0	15	28	0	0	43	1	0	25	4	1	30	101
Approach %	0.0	11.5	0.0	88.5	-	-	0.0	50.0	50.0	0.0	-	-	0.0	34.9	65.1	0.0	-	-	3.3	0.0	83.3	13.3	-	-	-
Total %	0.0	3.0	0.0	22.8	-	25.7	0.0	1.0	1.0	0.0	-	2.0	0.0	14.9	27.7	0.0	-	42.6	1.0	0.0	24.8	4.0	-	29.7	-
PHF	0.000	0.375	0.000	0.821	-	0.722	0.000	0.250	0.250	0.000	-	0.500	0.000	0.750	0.700	0.000	-	0.827	0.250	0.000	0.781	0.500	-	0.833	0.935
Lights	0	3	0	22	-	25	0	1	1	0	-	2	0	15	28	0	-	43	0	0	25	4	-	29	99
% Lights	-	100.0	-	95.7	-	96.2	-	100.0	100.0	-	-	100.0	-	100.0	100.0	-	-	100.0	0.0	-	100.0	100.0	-	96.7	98.0
Buses	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0
% Buses	-	0.0	-	0.0	-	0.0	-	0.0	0.0	-	-	0.0	-	0.0	0.0	-	-	0.0	0.0	-	0.0	0.0	-	0.0	0.0
Single-Unit Trucks	0	0	0	1	-	1	0	0	0	0	-	0	0	0	0	0	-	0	1	0	0	0	-	1	2
% Single-Unit Trucks	-	0.0	-	4.3	-	3.8	-	0.0	0.0	-	-	0.0	-	0.0	0.0	-	-	0.0	100.0	-	0.0	0.0	-	3.3	2.0
Articulated Trucks	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0
% Articulated Trucks	-	0.0	-	0.0	-	0.0	-	0.0	0.0	-	-	0.0	-	0.0	0.0	-	-	0.0	0.0	-	0.0	0.0	-	0.0	0.0
Bicycles on Road	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0
% Bicycles on Road	-	0.0	-	0.0	-	0.0	-	0.0	0.0	-	-	0.0	-	0.0	0.0	-	-	0.0	0.0	-	0.0	0.0	-	0.0	0.0
Pedestrians	-	-	-	-	1	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	1	-	-
% Pedestrians	-	-	-	-	100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100.0	-	-



Kenig Lindgren O'hara Aboona, Inc.
9575 W. Higgins Rd., Suite 400

Rosemont, Illinois, United States 60018
(847)518-9990

Count Name: Rosemary/Parking Lot Access
Site Code:
Start Date: 11/13/2014
Page No: 8

Turning Movement Peak Hour Data (12:00 PM)

Start Time	Parking Lot Access Eastbound						Church Access Westbound						Rosemary Terrace Northbound						Rosemary Terrace Southbound						Int. Total
	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	
12:00 PM	0	1	0	13	0	14	0	0	0	0	2	0	0	8	3	0	19	11	0	0	5	3	0	8	33
12:15 PM	0	4	0	10	1	14	0	1	0	0	0	1	0	8	8	0	8	16	0	0	5	0	0	5	36
12:30 PM	0	3	0	13	0	16	0	0	0	0	5	0	0	11	7	0	11	18	0	0	8	3	0	11	45
12:45 PM	0	1	0	10	0	11	0	0	1	0	3	1	0	5	9	0	11	14	0	0	11	2	0	13	39
Total	0	9	0	46	1	55	0	1	1	0	10	2	0	32	27	0	49	59	0	0	29	8	0	37	153
Approach %	0.0	16.4	0.0	83.6	-	-	0.0	50.0	50.0	0.0	-	-	0.0	54.2	45.8	0.0	-	-	0.0	0.0	78.4	21.6	-	-	-
Total %	0.0	5.9	0.0	30.1	-	35.9	0.0	0.7	0.7	0.0	-	1.3	0.0	20.9	17.6	0.0	-	38.6	0.0	0.0	19.0	5.2	-	24.2	-
PHF	0.000	0.563	0.000	0.885	-	0.859	0.000	0.250	0.250	0.000	-	0.500	0.000	0.727	0.750	0.000	-	0.819	0.000	0.000	0.659	0.667	-	0.712	0.850
Lights	0	9	0	45	-	54	0	1	1	0	-	2	0	32	27	0	-	59	0	0	29	8	-	37	152
% Lights	-	100.0	-	97.8	-	98.2	-	100.0	100.0	-	-	100.0	-	100.0	100.0	-	-	100.0	-	-	100.0	100.0	-	100.0	99.3
Buses	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0
% Buses	-	0.0	-	0.0	-	0.0	-	0.0	0.0	-	-	0.0	-	0.0	0.0	-	-	0.0	-	-	0.0	0.0	-	0.0	0.0
Single-Unit Trucks	0	0	0	1	-	1	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	1
% Single-Unit Trucks	-	0.0	-	2.2	-	1.8	-	0.0	0.0	-	-	0.0	-	0.0	0.0	-	-	0.0	-	-	0.0	0.0	-	0.0	0.7
Articulated Trucks	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0
% Articulated Trucks	-	0.0	-	0.0	-	0.0	-	0.0	0.0	-	-	0.0	-	0.0	0.0	-	-	0.0	-	-	0.0	0.0	-	0.0	0.0
Bicycles on Road	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0
% Bicycles on Road	-	0.0	-	0.0	-	0.0	-	0.0	0.0	-	-	0.0	-	0.0	0.0	-	-	0.0	-	-	0.0	0.0	-	0.0	0.0
Pedestrians	-	-	-	-	1	-	-	-	-	-	10	-	-	-	-	-	49	-	-	-	-	-	0	-	-
% Pedestrians	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-	-	-	-	100.0	-	-	-	-	-	-	-	-

Deerfield Traffic Study (Retail Center Access Drives on Deerfield Road and Rosemary Terrace east of Waukegan Rd.)
Study Date: Thursday - June 2, 2016

	Deerfield Rd	Deerfield Rd	Deerfield Rd	Deerfield Rd	Deerfield Rd	Deerfield Rd	Deerfield Rd	Deerfield Rd	Deerfield Rd	Deerfield Rd	Deerfield Rd	Deerfield Rd							
	West Access	West Access	West Access	West Access	Mid Access	Mid Access	Mid Access	Mid Access	East Access	East Access	East Access	East Access	Rosemary	Rosemary	Rosemary	Rosemary			
	Outbound	Outbound	Inbound	Inbound	Outbound	Outbound	Inbound	Inbound	Outbound	Outbound	Inbound	Inbound	Inbound	Inbound	Outbound	Outbound	Total		
Movement	Right Turn	Left Turn	Right Turn	Left Turn	Right Turn	Left Turn	Right Turn	Left Turn	Right Turn	Left Turn	Right Turn	Left Turn	Right Turn	Left Turn	Right Turn	Left Turn	Vehicles		
Time																			
7:00 - 7:15 a.m.	0	0	0	0	4	2	0	0	1	1	0	0	0	4	4	0	16		
7:15 - 7:30 a.m.	2	0	0	0	4	0	3	0	0	1	1	0	1	1	2	0	15		
7:30 - 7:45 a.m.	0	0	0	0	0	0	0	1	0	0	0	0	0	4	3	0	8		
7:45 - 8:00 a.m.	0	0	0	0	6	0	2	0	0	0	0	0	1	4	4	1	18		
8:00 - 8:15 a.m.	1	0	0	0	2	0	2	1	1	0	0	0	1	2	3	1	14		
8:15 - 8:30 a.m.	0	0	0	0	3	2	1	0	0	0	0	0	2	2	7	1	18		
8:30 - 8:45 a.m.	4	0	0	0	3	0	4	0	0	0	0	3	3	3	1	1	22		
8:45 - 9:00 a.m.	1	0	0	0	3	1	2	1	0	0	2	0	4	2	2	1	19		
4:00 - 4:15 p.m.	3	0	0	1	4	1	5	2	0	0	0	0	3	0	10	3	32		
4:15 - 4:30 p.m.	4	0	1	1	3	1	1	0	0	0	0	0	1	1	1	2	16		
4:30 - 4:45 p.m.	2	2	0	0	3	0	0	4	1	0	0	0	0	3	5	2	22		
4:45 - 5:00 p.m.	5	2	0	1	5	0	2	3	0	0	0	0	0	1	6	2	27		
5:00 - 5:15 p.m.	6	1	0	0	8	0	1	1	0	0	0	1	1	1	6	2	28		
5:15 - 5:30 p.m.	2	0	0	0	4	0	5	0	0	0	0	0	0	2	2	1	16		
5:30 - 5:45 p.m.	4	0	0	0	3	0	2	3	0	0	0	0	1	1	6	0	20		
5:45 - 6:00 p.m.	4	0	0	1	1	0	2	8	0	0	0	0	2	4	3	1	26		
Morning Totals	8	0	0	0	25	5	14	3	2	2	3	3	12	22	26	5	130		
Afternoon Totals	30	5	1	4	31	2	18	21	1	0	0	1	8	13	39	13	187		
Notes: The total columns below represents all vehicles combined entering and exiting from each Access Drive																			
	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total								
	West Access	West Access	Mid Access	Mid Access	East Access	East Access	Rosemary	Rosemary	Outbound	Inbound	Total								
Time	Outbound	Inbound	Outbound	Inbound	Outbound	Inbound	Inbound	Outbound	Vehicles	Vehicles	Vehicles								
7:00 - 7:15 a.m.	0	0	6	0	2	0	4	4	12	4	16								
7:15 - 7:30 a.m.	2	0	4	3	1	1	2	2	9	6	15								
7:30 - 7:45 a.m.	0	0	0	1	0	0	4	3	3	5	8								
7:45 - 8:00 a.m.	0	0	6	2	0	0	5	5	11	7	18								
8:00 - 8:15 a.m.	1	0	2	3	1	0	3	4	8	6	14								
8:15 - 8:30 a.m.	0	0	5	1	0	0	4	8	13	5	18								
8:30 - 8:45 a.m.	4	0	3	4	0	3	6	2	9	13	22								
8:45 - 9:00 a.m.	1	0	4	3	0	2	6	3	8	11	19								
4:00 - 4:15 p.m.	3	1	5	7	0	0	3	13	21	11	32								
4:15 - 4:30 p.m.	4	2	4	1	0	0	2	3	11	5	16								
4:30 - 4:45 p.m.	4	0	3	4	1	0	3	7	15	7	22								
4:45 - 5:00 p.m.	7	1	5	5	0	0	1	8	20	7	27								
5:00 - 5:15 p.m.	7	0	8	2	0	1	2	8	23	5	28								
5:15 - 5:30 p.m.	2	0	4	5	0	0	2	3	9	7	16								
5:30 - 5:45 p.m.	4	0	3	5	0	0	2	6	13	7	20								
5:45 - 6:00 p.m.	4	1	1	10	0	0	6	4	9	17	26								
Morning Totals	8	0	30	17	4	6	34	31	73	57	130								
Afternoon Totals	35	5	33	39	1	1	21	52	121	66	187								

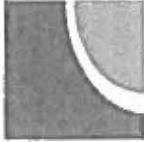
The west access drive is nearest Waukegan Road and the east access drive is nearest Rosemary and the mid access is between the two

Deerfield Traffic Study (Retail Center Access Drives on Deerfield Road and Rosemary Terrace east of Waukegan Rd.)
Study Date: Saturday - June 4, 2016

	Deerfield Rd.	Deerfield Rd.	Deerfield Rd.	Deerfield Rd.	Deerfield Rd												
	West Access	West Access	West Access	West Access	Mid Access	Mid Access	Mid Access	Mid Access	East Access	East Access	East Access	East Access	Rosemary	Rosemary	Rosemary	Rosemary	
	Outbound	Outbound	Inbound	Inbound	Outbound	Outbound	Inbound	Inbound	Outbound	Outbound	Inbound	Inbound	Inbound	Inbound	Outbound	Outbound	Total
Movement	Right Turn	Left Turn	Right Turn	Left Turn	Right Turn	Left Turn	Right Turn	Left Turn	Right Turn	Left Turn	Right Turn	Left Turn	Right Turn	Left Turn	Right Turn	Left Turn	Vehicles
Time																	
12:00 - 12:15 p.m.	4	1	0	0	7	0	4	2	0	0	1	0	4	7	17	6	53
12:15 - 12:30 p.m.	3	1	0	0	6	2	5	2	1	0	0	0	0	3	12	4	39
12:30 - 12:45 p.m.	3	0	0	0	3	1	2	5	0	0	1	0	4	1	9	3	32
12:45 - 1:00 p.m.	4	0	0	0	3	0	7	4	0	1	1	0	1	6	6	1	34
1:00 - 1:15 p.m.	2	0	0	0	2	0	4	0	1	0	1	0	2	2	5	1	20
1:15 - 1:30 p.m.	4	0	0	0	4	2	3	0	0	0	0	1	2	2	4	0	22
1:30 - 1:45 p.m.	4	0	0	0	2	0	1	0	1	0	0	0	3	1	7	3	22
1:45 - 2:00 p.m.	2	0	0	0	4	1	3	2	0	0	1	0	4	1	6	3	27
Afternoon Totals	26	2	0	0	31	6	29	15	3	1	5	1	20	23	66	21	249
Notes: The total columns below represents all vehicles combined entering and exiting from each Access Drive																	
	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total					
	West Access	West Access	Mid Access	Mid Access	East Access	East Access	Rosemary	Rosemary	Outbound	Inbound	Total						
Time	Outbound	Inbound	Outbound	Inbound	Outbound	Inbound	Inbound	Outbound	Vehicles	Vehicles	Vehicles						
12:00 - 12:15 p.m.	5	0	7	6	0	1	11	23	35	18	53						
12:15 - 12:30 p.m.	4	0	8	7	1	0	3	16	29	10	39						
12:30 - 12:45 p.m.	3	0	4	7	0	1	5	12	19	13	32						
12:45 - 1:00 p.m.	4	0	3	11	1	1	7	7	15	19	34						
1:00 - 1:15 p.m.	2	0	2	4	1	1	4	6	11	9	20						
1:15 - 1:30 p.m.	4	0	6	3	0	1	4	4	14	8	22						
1:30 - 1:45 p.m.	4	0	2	1	1	0	4	10	17	5	22						
1:45 - 2:00 p.m.	2	0	5	5	0	1	5	9	16	11	27						
Afternoon Totals	28	0	37	44	4	6	43	87	156	93	249						

The west access drive is nearest Waukegan Road and the east access drive is nearest Rosemary and the mid access is between the two

CMAP Letter



Chicago Metropolitan
Agency for Planning

233 South Wacker Drive
Suite 800
Chicago, Illinois 60606
312 454 0400
www.cmap.illinois.gov

July 6, 2016

Nicholas J. Butler
Consultant
Kenig, Lindgren, O'Hara and Aboona, Inc.
9575 West Higgins Road
Suite 400
Rosemont, IL 60018

Subject: Deerfield Road east of Waukegan Road (IL 43)
IDOT

Dear Mr. Butler:

In response to a request made on your behalf and dated July 6, 2016, we have developed year 2040 average daily traffic (ADT) projection of 20,000 for the subject location.

Traffic projections are developed using existing ADT data provided in the request letter and the results from the March 2016 CMAP Travel Demand Analysis. The regional travel model uses CMAP 2040 socioeconomic projections and assumes the implementation of the GO TO 2040 Comprehensive Regional Plan for the Northeastern Illinois area.

If you have any questions, please call me at (312) 386-8806.

Sincerely,

A handwritten signature in black ink, appearing to read 'Jose Rodriguez'.

Jose Rodriguez, PTP, AICP
Senior Planner, Research & Analysis

cc: Fortmann (IDOT)
S:\AdminGroups\ResearchAnalysis\SmallAreaTrafficForecasts_CY16\Deerfield\la-27-16\la-27-16.docx

Level of Service Criteria

LEVEL OF SERVICE CRITERIA

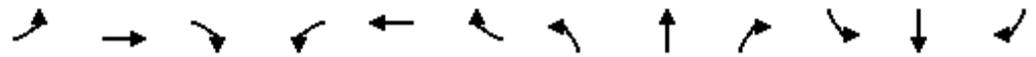
Signalized Intersections		
Level of Service	Interpretation	Average Control Delay (seconds per vehicle)
A	Favorable progression. Most vehicles arrive during the green indication and travel through the intersection without stopping.	≤ 10
B	Good progression, with more vehicles stopping than for Level of Service A.	$> 10 - 20$
C	Individual cycle failures (i.e., one or more queued vehicles are not able to depart as a result of insufficient capacity during the cycle) may begin to appear. Number of vehicles stopping is significant, although many vehicles still pass through the intersection without stopping.	$> 20 - 35$
D	The volume-to-capacity ratio is high and either progression is ineffective or the cycle length is too long. Many vehicles stop and individual cycle failures are noticeable.	$> 35 - 55$
E	Progression is unfavorable. The volume-to-capacity ratio is high and the cycle length is long. Individual cycle failures are frequent.	$> 55 - 80$
F	The volume-to-capacity ratio is very high, progression is very poor and the cycle length is long. Most cycles fail to clear the queue.	> 80.0
Unsignalized Intersections		
Level of Service	Average Total Delay (SEC/VEH)	
A	0 - 10	
B	$> 10 - 15$	
C	$> 15 - 25$	
D	$> 25 - 35$	
E	$> 35 - 50$	
F	> 50	

Source: *Highway Capacity Manual, 2010.*

Capacity Analysis Summary Sheets

Lanes, Volumes, Timings
 2: Access Drive/Rosemary Terrace & Deerfield Road

7/7/2016



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	12	908	45	25	955	17	5	1	24	37	7	41
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		0	100		0	0		0	0		0
Storage Lanes	1		0	1		0	0		1	0		0
Taper Length (ft)	25			50			25			25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.993			0.997				0.850		0.935	
Flt Protected	0.950			0.950				0.959			0.979	
Satd. Flow (prot)	1543	3414	0	1805	3493	0	0	1822	1553	0	1717	0
Flt Permitted	0.217			0.212				0.959			0.979	
Satd. Flow (perm)	352	3414	0	403	3493	0	0	1822	1553	0	1717	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		6			2				124			36
Link Speed (mph)		30			30			25				25
Link Distance (ft)		160			251			208				122
Travel Time (s)		3.6			5.7			5.7				3.3
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Heavy Vehicles (%)	17%	5%	5%	0%	3%	6%	0%	0%	4%	3%	0%	0%
Shared Lane Traffic (%)												
Lane Group Flow (vph)	14	1083	0	28	1104	0	0	7	27	0	97	0
Turn Type	pm+pt	NA		pm+pt	NA		Split	NA	Perm	Split	NA	
Protected Phases	5	2		1	6		8	8		4	4	
Permitted Phases	2			6					8			
Detector Phase	5	2		1	6		8	8	8	4	4	
Switch Phase												
Minimum Initial (s)	3.0	15.0		3.0	15.0		8.0	8.0	8.0	8.0	8.0	
Minimum Split (s)	8.0	22.0		8.0	22.0		22.0	22.0	22.0	22.0	22.0	
Total Split (s)	8.0	57.0		8.0	57.0		22.0	22.0	22.0	23.0	23.0	
Total Split (%)	7.3%	51.8%		7.3%	51.8%		20.0%	20.0%	20.0%	20.9%	20.9%	
Yellow Time (s)	3.5	4.5		3.5	4.5		4.5	4.5	4.5	4.5	4.5	
All-Red Time (s)	0.0	1.5		0.0	1.5		1.5	1.5	1.5	1.5	1.5	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0			0.0	0.0		0.0	
Total Lost Time (s)	3.5	6.0		3.5	6.0			6.0	6.0		6.0	
Lead/Lag	Lead	Lag		Lead	Lag							
Lead-Lag Optimize?	Yes	Yes		Yes	Yes							
Recall Mode	None	C-Min		None	C-Min		None	None	None	None	None	
Act Effect Green (s)	79.7	73.6		80.7	75.6			8.0	8.0		10.1	
Actuated g/C Ratio	0.72	0.67		0.73	0.69			0.07	0.07		0.09	
v/c Ratio	0.04	0.47		0.08	0.46			0.05	0.12		0.51	
Control Delay	6.1	12.1		6.0	10.9			48.5	1.1		39.8	
Queue Delay	0.0	0.0		0.0	0.0			0.0	0.0		0.0	
Total Delay	6.1	12.1		6.0	10.9			48.5	1.1		39.8	
LOS	A	B		A	B			D	A		D	
Approach Delay		12.0			10.8			10.8			39.8	
Approach LOS		B			B			B			D	
Queue Length 50th (ft)	3	223		5	172			5	0		42	
Queue Length 95th (ft)	10	308		16	310			19	0		89	
Internal Link Dist (ft)		80			171			128			42	

Lanes, Volumes, Timings

2: Access Drive/Rosemary Terrace & Deerfield Road

7/7/2016



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Turn Bay Length (ft)				100								
Base Capacity (vph)	318	2285		373	2401			265	331		295	
Starvation Cap Reductn	0	0		0	0			0	0		0	
Spillback Cap Reductn	0	0		0	0			0	0		0	
Storage Cap Reductn	0	0		0	0			0	0		0	
Reduced v/c Ratio	0.04	0.47		0.08	0.46			0.03	0.08		0.33	

Intersection Summary

Area Type: Other

Cycle Length: 110

Actuated Cycle Length: 110

Offset: 0 (0%), Referenced to phase 2:EBTL and 6:WBTL, Start of Green

Natural Cycle: 80

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.51

Intersection Signal Delay: 12.6

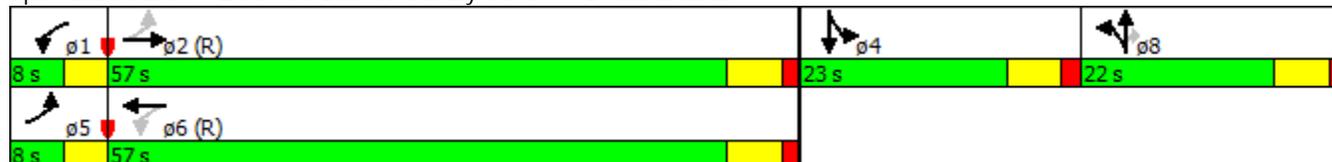
Intersection LOS: B

Intersection Capacity Utilization 54.9%

ICU Level of Service A

Analysis Period (min) 15

Splits and Phases: 2: Access Drive/Rosemary Terrace & Deerfield Road



HCM Unsignalized Intersection Capacity Analysis

3: Rosemary Terrace & Access Drive

7/8/2016



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Volume (veh/h)	2	0	12	0	0	0	11	19	0	0	73	3
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
Hourly flow rate (vph)	3	0	18	0	0	0	16	28	0	0	109	4
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								None			None	
Median storage (veh)												
Upstream signal (ft)								212				
pX, platoon unblocked												
vC, conflicting volume	172	172	111	190	175	28	113			28		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	172	172	111	190	175	28	113			28		
tC, single (s)	7.1	6.5	6.3	7.1	6.5	6.2	4.2			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.4	3.5	4.0	3.3	2.3			2.2		
p0 queue free %	100	100	98	100	100	100	99			100		
cM capacity (veh/h)	788	716	929	753	714	1052	1451			1598		

Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total	21	0	45	113
Volume Left	3	0	16	0
Volume Right	18	0	0	4
cSH	906	1700	1451	1700
Volume to Capacity	0.02	0.00	0.01	0.07
Queue Length 95th (ft)	2	0	1	0
Control Delay (s)	9.1	0.0	2.8	0.0
Lane LOS	A	A	A	
Approach Delay (s)	9.1	0.0	2.8	0.0
Approach LOS	A	A		

Intersection Summary			
Average Delay		1.8	
Intersection Capacity Utilization	18.3%		ICU Level of Service
Analysis Period (min)		15	A

HCM Unsignalized Intersection Capacity Analysis

6: Deerfield Road & West Access Drive

7/8/2016



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↕↕	↕↕↕		↕↕	
Volume (veh/h)	2	964	994	7	0	12
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Hourly flow rate (vph)	2	1015	1046	7	0	13
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type		None	None			
Median storage (veh)						
Upstream signal (ft)			335			
pX, platoon unblocked	0.90				0.90	0.90
vC, conflicting volume	1054				1562	352
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	667				1232	0
tC, single (s)	4.1				6.8	6.9
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.3
p0 queue free %	100				100	99
cM capacity (veh/h)	826				152	975

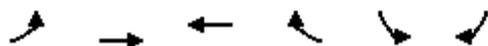
Direction, Lane #	EB 1	EB 2	WB 1	WB 2	WB 3	SB 1
Volume Total	340	676	419	419	217	13
Volume Left	2	0	0	0	0	0
Volume Right	0	0	0	0	7	13
cSH	826	1700	1700	1700	1700	975
Volume to Capacity	0.00	0.40	0.25	0.25	0.13	0.01
Queue Length 95th (ft)	0	0	0	0	0	1
Control Delay (s)	0.1	0.0	0.0	0.0	0.0	8.7
Lane LOS	A					A
Approach Delay (s)	0.0		0.0			8.7
Approach LOS						A

Intersection Summary						
Average Delay			0.1			
Intersection Capacity Utilization			38.0%		ICU Level of Service	A
Analysis Period (min)			15			

HCM Unsignalized Intersection Capacity Analysis

7: Deerfield Road & East Access Drive

7/8/2016



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↑↑↑	↑↑		↘	
Volume (veh/h)	0	964	1000	1	1	1
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	1048	1087	1	1	1
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type		None	None			
Median storage (veh)						
Upstream signal (ft)			160			
pX, platoon unblocked	0.84				0.84	0.84
vC, conflicting volume	1088				1437	544
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	718				1134	68
tC, single (s)	4.1				6.8	6.9
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.3
p0 queue free %	100				99	100
cM capacity (veh/h)	736				164	822

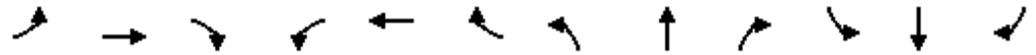
Direction, Lane #	EB 1	EB 2	EB 3	WB 1	WB 2	SB 1
Volume Total	210	419	419	725	363	2
Volume Left	0	0	0	0	0	1
Volume Right	0	0	0	0	1	1
cSH	736	1700	1700	1700	1700	274
Volume to Capacity	0.00	0.25	0.25	0.43	0.21	0.01
Queue Length 95th (ft)	0	0	0	0	0	1
Control Delay (s)	0.0	0.0	0.0	0.0	0.0	18.2
Lane LOS						C
Approach Delay (s)	0.0			0.0		18.2
Approach LOS						C

Intersection Summary						
Average Delay			0.0			
Intersection Capacity Utilization			37.7%		ICU Level of Service	A
Analysis Period (min)			15			

Intersection Sign configuration not allowed in HCM analysis.

Lanes, Volumes, Timings
 2: Access Drive/Rosemary Terrace & Deerfield Road

7/11/2016

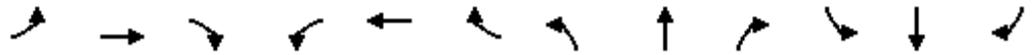


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	18	965	48	27	1017	19	5	1	25	43	7	48
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		0	100		0	0		0	0		0
Storage Lanes	1		0	1		0	0		1	0		0
Taper Length (ft)	25			50			25			25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.993			0.997				0.850		0.934	
Flt Protected	0.950			0.950				0.959			0.979	
Satd. Flow (prot)	1543	3414	0	1805	3492	0	0	1822	1553	0	1715	0
Flt Permitted	0.193			0.190				0.959			0.979	
Satd. Flow (perm)	313	3414	0	361	3492	0	0	1822	1553	0	1715	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		6			2				124			37
Link Speed (mph)		30			30			25				25
Link Distance (ft)		160			251			208				122
Travel Time (s)		3.6			5.7			5.7				3.3
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Heavy Vehicles (%)	17%	5%	5%	0%	3%	6%	0%	0%	4%	3%	0%	0%
Shared Lane Traffic (%)												
Lane Group Flow (vph)	20	1152	0	31	1178	0	0	7	28	0	112	0
Turn Type	pm+pt	NA		pm+pt	NA		Split	NA	Perm	Split	NA	
Protected Phases	5	2		1	6		8	8		4	4	
Permitted Phases	2			6					8			
Detector Phase	5	2		1	6		8	8	8	4	4	
Switch Phase												
Minimum Initial (s)	3.0	15.0		3.0	15.0		8.0	8.0	8.0	8.0	8.0	
Minimum Split (s)	8.0	22.0		8.0	22.0		22.0	22.0	22.0	22.0	22.0	
Total Split (s)	8.0	57.0		8.0	57.0		22.0	22.0	22.0	23.0	23.0	
Total Split (%)	7.3%	51.8%		7.3%	51.8%		20.0%	20.0%	20.0%	20.9%	20.9%	
Yellow Time (s)	3.5	4.5		3.5	4.5		4.5	4.5	4.5	4.5	4.5	
All-Red Time (s)	0.0	1.5		0.0	1.5		1.5	1.5	1.5	1.5	1.5	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0			0.0	0.0		0.0	
Total Lost Time (s)	3.5	6.0		3.5	6.0			6.0	6.0		6.0	
Lead/Lag	Lead	Lag		Lead	Lag							
Lead-Lag Optimize?	Yes	Yes		Yes	Yes							
Recall Mode	None	C-Min		None	C-Min		None	None	None	None	None	
Act Effect Green (s)	79.1	72.8		80.0	74.8			8.0	8.0		10.8	
Actuated g/C Ratio	0.72	0.66		0.73	0.68			0.07	0.07		0.10	
v/c Ratio	0.07	0.51		0.09	0.50			0.05	0.12		0.56	
Control Delay	6.6	13.2		6.5	11.9			48.5	1.1		41.8	
Queue Delay	0.0	0.0		0.0	0.0			0.0	0.0		0.0	
Total Delay	6.6	13.2		6.5	11.9			48.5	1.1		41.8	
LOS	A	B		A	B			D	A		D	
Approach Delay		13.0			11.8			10.6			41.8	
Approach LOS		B			B			B			D	
Queue Length 50th (ft)	4	251		6	196			5	0		51	
Queue Length 95th (ft)	13	347		17	352			19	0		102	
Internal Link Dist (ft)		80			171			128			42	

Lanes, Volumes, Timings

2: Access Drive/Rosemary Terrace & Deerfield Road

7/11/2016

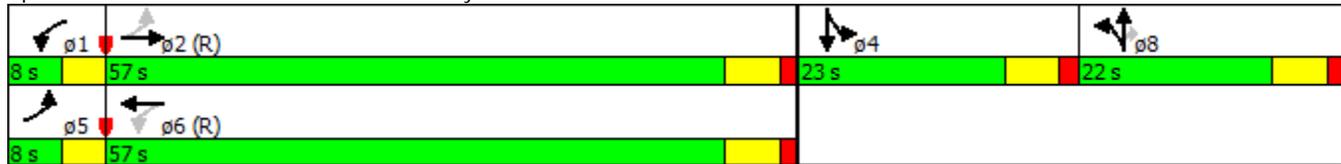


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Turn Bay Length (ft)				100								
Base Capacity (vph)	291	2261		342	2375			265	331		296	
Starvation Cap Reductn	0	0		0	0			0	0		0	
Spillback Cap Reductn	0	0		0	0			0	0		0	
Storage Cap Reductn	0	0		0	0			0	0		0	
Reduced v/c Ratio	0.07	0.51		0.09	0.50			0.03	0.08		0.38	

Intersection Summary

Area Type:	Other
Cycle Length:	110
Actuated Cycle Length:	110
Offset:	0 (0%), Referenced to phase 2:EBTL and 6:WBTL, Start of Green
Natural Cycle:	90
Control Type:	Actuated-Coordinated
Maximum v/c Ratio:	0.56
Intersection Signal Delay:	13.7
Intersection LOS:	B
Intersection Capacity Utilization	56.5%
ICU Level of Service	B
Analysis Period (min)	15

Splits and Phases: 2: Access Drive/Rosemary Terrace & Deerfield Road



HCM Unsignalized Intersection Capacity Analysis

3: Rosemary Terrace & Access Drive

7/11/2016



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↔			↔			↑			↓	
Volume (veh/h)	2	0	21	0	0	0	18	20	0	0	77	5
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
Hourly flow rate (vph)	3	0	31	0	0	0	27	30	0	0	115	7
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								None			None	
Median storage (veh)												
Upstream signal (ft)								212				
pX, platoon unblocked												
vC, conflicting volume	202	202	119	234	206	30	122			30		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	202	202	119	234	206	30	122			30		
tC, single (s)	7.1	6.5	6.3	7.1	6.5	6.2	4.2			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.4	3.5	4.0	3.3	2.3			2.2		
p0 queue free %	100	100	97	100	100	100	98			100		
cM capacity (veh/h)	750	684	920	691	681	1050	1440			1596		

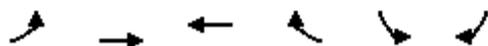
Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total	34	0	57	122
Volume Left	3	0	27	0
Volume Right	31	0	0	7
cSH	902	1700	1440	1700
Volume to Capacity	0.04	0.00	0.02	0.07
Queue Length 95th (ft)	3	0	1	0
Control Delay (s)	9.1	0.0	3.7	0.0
Lane LOS	A	A	A	
Approach Delay (s)	9.1	0.0	3.7	0.0
Approach LOS	A	A		

Intersection Summary			
Average Delay		2.4	
Intersection Capacity Utilization	18.7%		ICU Level of Service A
Analysis Period (min)		15	

HCM Unsignalized Intersection Capacity Analysis

6: Deerfield Road & West Access Drive

7/11/2016

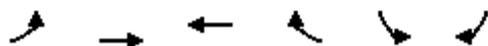


Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↕↕	↕↕↕		↕↕	
Volume (veh/h)	5	1035	1063	8	1	18
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Hourly flow rate (vph)	5	1089	1119	8	1	19
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type		None	None			
Median storage (veh)						
Upstream signal (ft)			335			
pX, platoon unblocked	0.88				0.88	0.88
vC, conflicting volume	1127				1678	377
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	674				1299	0
tC, single (s)	4.1				6.8	6.9
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.3
p0 queue free %	99				99	98
cM capacity (veh/h)	805				134	956
Direction, Lane #	EB 1	EB 2	WB 1	WB 2	WB 3	SB 1
Volume Total	368	726	448	448	232	20
Volume Left	5	0	0	0	0	1
Volume Right	0	0	0	0	8	19
cSH	805	1700	1700	1700	1700	723
Volume to Capacity	0.01	0.43	0.26	0.26	0.14	0.03
Queue Length 95th (ft)	0	0	0	0	0	2
Control Delay (s)	0.2	0.0	0.0	0.0	0.0	10.1
Lane LOS	A					B
Approach Delay (s)	0.1		0.0			10.1
Approach LOS						B
Intersection Summary						
Average Delay			0.1			
Intersection Capacity Utilization			42.1%		ICU Level of Service	A
Analysis Period (min)			15			

HCM Unsignalized Intersection Capacity Analysis

7: Deerfield Road & East Access Drive

7/11/2016



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↑↑↑	↑↑		↑↑	
Volume (veh/h)	7	1029	1065	5	2	6
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	8	1118	1158	5	2	7
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type		None	None			
Median storage (veh)						
Upstream signal (ft)			160			
pX, platoon unblocked	0.82				0.82	0.82
vC, conflicting volume	1163				1548	582
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	752				1223	40
tC, single (s)	4.1				6.8	6.9
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.3
p0 queue free %	99				98	99
cM capacity (veh/h)	698				139	836

Direction, Lane #	EB 1	EB 2	EB 3	WB 1	WB 2	SB 1
Volume Total	231	447	447	772	391	9
Volume Left	8	0	0	0	0	2
Volume Right	0	0	0	0	5	7
cSH	698	1700	1700	1700	1700	370
Volume to Capacity	0.01	0.26	0.26	0.45	0.23	0.02
Queue Length 95th (ft)	1	0	0	0	0	2
Control Delay (s)	0.5	0.0	0.0	0.0	0.0	15.0
Lane LOS	A					B
Approach Delay (s)	0.1			0.0		15.0
Approach LOS						B

Intersection Summary						
Average Delay			0.1			
Intersection Capacity Utilization			39.6%		ICU Level of Service	A
Analysis Period (min)			15			

Intersection Sign configuration not allowed in HCM analysis.

Lanes, Volumes, Timings
2: Access Drive/Rosemary Terrace & Deerfield Road

7/7/2016



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	16	1084	67	32	1006	26	10	3	37	20	8	20
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.991			0.996				0.850		0.943	
Flt Protected	0.950			0.950				0.962			0.979	
Satd. Flow (prot)	1805	3540	0	1752	3527	0	0	1828	1615	0	1718	0
Flt Permitted	0.222			0.191				0.962			0.979	
Satd. Flow (perm)	422	3540	0	352	3527	0	0	1828	1615	0	1718	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		7			3				159			21
Link Speed (mph)		30			30			25				25
Link Distance (ft)		160			251			208				122
Travel Time (s)		3.6			5.7			5.7				3.3
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles (%)	0%	1%	2%	3%	2%	0%	0%	0%	0%	0%	13%	0%
Shared Lane Traffic (%)												
Lane Group Flow (vph)	17	1212	0	34	1086	0	0	14	39	0	50	0
Turn Type	pm+pt	NA		pm+pt	NA		Split	NA	Perm	Split	NA	
Protected Phases	5	2		1	6		8	8		4	4	
Permitted Phases	2			6					8			
Detector Phase	5	2		1	6		8	8	8	4	4	
Switch Phase												
Minimum Initial (s)	3.0	15.0		3.0	15.0		8.0	8.0	8.0	8.0	8.0	
Minimum Split (s)	8.0	22.0		12.0	21.0		22.0	22.0	22.0	21.0	21.0	
Total Split (s)	8.0	55.0		12.0	59.0		22.0	22.0	22.0	21.0	21.0	
Total Split (%)	7.3%	50.0%		10.9%	53.6%		20.0%	20.0%	20.0%	19.1%	19.1%	
Yellow Time (s)	3.5	4.5		3.5	4.5		4.5	4.5	4.5	4.5	4.5	
All-Red Time (s)	1.5	1.5		0.0	0.0		1.5	1.5	1.5	0.0	0.0	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0			0.0	0.0		0.0	
Total Lost Time (s)	5.0	6.0		3.5	4.5			6.0	6.0		4.5	
Lead/Lag	Lead	Lag		Lead	Lag							
Lead-Lag Optimize?	Yes	Yes		Yes	Yes							
Recall Mode	None	C-Min		None	C-Min		None	None	None	None	None	
Act Effect Green (s)	83.6	80.2		85.6	82.9			8.0	8.0		8.6	
Actuated g/C Ratio	0.76	0.73		0.78	0.75			0.07	0.07		0.08	
v/c Ratio	0.04	0.47		0.10	0.41			0.11	0.15		0.32	
Control Delay	5.1	10.2		5.0	8.4			49.7	1.2		37.3	
Queue Delay	0.0	0.0		0.0	0.0			0.0	0.0		0.0	
Total Delay	5.1	10.2		5.0	8.4			49.7	1.2		37.3	
LOS	A	B		A	A			D	A		D	
Approach Delay		10.1			8.2			14.0			37.3	
Approach LOS		B			A			B			D	
Queue Length 50th (ft)	3	241		6	143			9	0		20	
Queue Length 95th (ft)	10	327		15	277			30	0		57	
Internal Link Dist (ft)		80			171			128			42	
Turn Bay Length (ft)												
Base Capacity (vph)	394	2582		384	2658			265	370		275	
Starvation Cap Reductn	0	0		0	0			0	0		0	

Lanes, Volumes, Timings

2: Access Drive/Rosemary Terrace & Deerfield Road

7/7/2016



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Spillback Cap Reductn	0	0		0	0			0	0		0	
Storage Cap Reductn	0	0		0	0			0	0		0	
Reduced v/c Ratio	0.04	0.47		0.09	0.41			0.05	0.11		0.18	

Intersection Summary

Area Type:	Other
Cycle Length:	110
Actuated Cycle Length:	110
Offset:	0 (0%), Referenced to phase 2:EBTL and 6:WBTL, Start of Green
Natural Cycle:	90
Control Type:	Actuated-Coordinated
Maximum v/c Ratio:	0.47
Intersection Signal Delay:	9.9
Intersection LOS:	A
Intersection Capacity Utilization	59.2%
ICU Level of Service	B
Analysis Period (min)	15

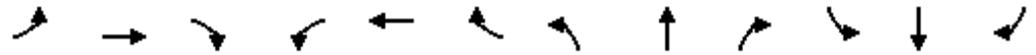
Splits and Phases: 2: Access Drive/Rosemary Terrace & Deerfield Road

φ1	φ2 (R)	φ4	φ8
12 s	55 s	21 s	22 s
φ5	φ6 (R)		
8 s	59 s		

HCM Unsignalized Intersection Capacity Analysis

3: Rosemary Terrace & Access Drive/Chuch Access Drive

7/8/2016



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		↕			↕			↕			↕		
Volume (veh/h)	7	0	19	1	1	0	7	37	0	0	29	1	
Sign Control		Stop			Stop			Free			Free		
Grade		0%			0%			0%			0%		
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	
Hourly flow rate (vph)	7	0	20	1	1	0	7	39	0	0	31	1	
Pedestrians													
Lane Width (ft)													
Walking Speed (ft/s)													
Percent Blockage													
Right turn flare (veh)													
Median type						None				None			
Median storage (veh)													
Upstream signal (ft)								212					
pX, platoon unblocked													
vC, conflicting volume	86	86	31	106	86	39	32				39		
vC1, stage 1 conf vol													
vC2, stage 2 conf vol													
vCu, unblocked vol	86	86	31	106	86	39	32				39		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1				4.1		
tC, 2 stage (s)													
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2				2.2		
p0 queue free %	99	100	98	100	100	100	100				100		
cM capacity (veh/h)	901	805	1037	858	804	1038	1593				1584		
Direction, Lane #	EB 1	WB 1	NB 1	SB 1									
Volume Total	28	2	47	32									
Volume Left	7	1	7	0									
Volume Right	20	0	0	1									
cSH	996	830	1593	1700									
Volume to Capacity	0.03	0.00	0.00	0.02									
Queue Length 95th (ft)	2	0	0	0									
Control Delay (s)	8.7	9.3	1.2	0.0									
Lane LOS	A	A	A										
Approach Delay (s)	8.7	9.3	1.2	0.0									
Approach LOS	A	A											
Intersection Summary													
Average Delay			2.9										
Intersection Capacity Utilization			17.9%		ICU Level of Service				A				
Analysis Period (min)			15										

HCM Unsignalized Intersection Capacity Analysis

6: Deerfield Road & West Access Drive

7/8/2016

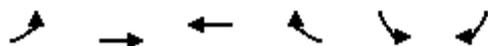


Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↕↕	↕↕↕		↕↕	
Volume (veh/h)	8	1168	1029	8	0	20
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Hourly flow rate (vph)	8	1229	1083	8	0	21
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type		None	None			
Median storage (veh)						
Upstream signal (ft)			335			
pX, platoon unblocked	0.90				0.90	0.90
vC, conflicting volume	1092				1719	365
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	724				1419	0
tC, single (s)	4.1				6.8	6.9
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.3
p0 queue free %	99				100	98
cM capacity (veh/h)	802				116	979
Direction, Lane #	EB 1	EB 2	WB 1	WB 2	WB 3	SB 1
Volume Total	418	820	433	433	225	21
Volume Left	8	0	0	0	0	0
Volume Right	0	0	0	0	8	21
cSH	802	1700	1700	1700	1700	979
Volume to Capacity	0.01	0.48	0.25	0.25	0.13	0.02
Queue Length 95th (ft)	1	0	0	0	0	2
Control Delay (s)	0.3	0.0	0.0	0.0	0.0	8.8
Lane LOS	A					A
Approach Delay (s)	0.1		0.0			8.8
Approach LOS						A
Intersection Summary						
Average Delay			0.1			
Intersection Capacity Utilization			47.9%		ICU Level of Service	A
Analysis Period (min)			15			

HCM Unsignalized Intersection Capacity Analysis

7: Deerfield Road & East Access Drive

7/8/2016



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↑↑↑	↑↑		↘	
Volume (veh/h)	1	1167	1036	0	0	1
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Hourly flow rate (vph)	1	1228	1091	0	0	1
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type		None	None			
Median storage (veh)						
Upstream signal (ft)			160			
pX, platoon unblocked	0.86				0.86	0.86
vC, conflicting volume	1091				1502	545
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	781				1259	148
tC, single (s)	4.1				6.8	6.9
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.3
p0 queue free %	100				100	100
cM capacity (veh/h)	728				142	751
Direction, Lane #	EB 1	EB 2	EB 3	WB 1	WB 2	SB 1
Volume Total	247	491	491	727	364	1
Volume Left	1	0	0	0	0	0
Volume Right	0	0	0	0	0	1
cSH	728	1700	1700	1700	1700	751
Volume to Capacity	0.00	0.29	0.29	0.43	0.21	0.00
Queue Length 95th (ft)	0	0	0	0	0	0
Control Delay (s)	0.1	0.0	0.0	0.0	0.0	9.8
Lane LOS	A					A
Approach Delay (s)	0.0			0.0		9.8
Approach LOS						A
Intersection Summary						
Average Delay			0.0			
Intersection Capacity Utilization			38.6%		ICU Level of Service	A
Analysis Period (min)			15			

Intersection Sign configuration not allowed in HCM analysis.

Lanes, Volumes, Timings
2: Access Drive/Rosemary Terrace & Deerfield Road

7/11/2016



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	34	1155	71	34	1083	31	11	3	39	34	9	35
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.991			0.996				0.850		0.939	
Flt Protected	0.950			0.950				0.962			0.979	
Satd. Flow (prot)	1805	3540	0	1752	3527	0	0	1828	1615	0	1722	0
Flt Permitted	0.184			0.167				0.962			0.979	
Satd. Flow (perm)	350	3540	0	308	3527	0	0	1828	1615	0	1722	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		7			4				159			32
Link Speed (mph)		30			30			25				25
Link Distance (ft)		160			251			208				122
Travel Time (s)		3.6			5.7			5.7				3.3
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles (%)	0%	1%	2%	3%	2%	0%	0%	0%	0%	0%	13%	0%
Shared Lane Traffic (%)												
Lane Group Flow (vph)	36	1291	0	36	1173	0	0	15	41	0	82	0
Turn Type	pm+pt	NA		pm+pt	NA		Split	NA	Perm	Split	NA	
Protected Phases	5	2		1	6		8	8		4	4	
Permitted Phases	2			6					8			
Detector Phase	5	2		1	6		8	8	8	4	4	
Switch Phase												
Minimum Initial (s)	3.0	15.0		3.0	15.0		8.0	8.0	8.0	8.0	8.0	
Minimum Split (s)	8.0	22.0		12.0	21.0		22.0	22.0	22.0	21.0	21.0	
Total Split (s)	8.0	55.0		12.0	59.0		22.0	22.0	22.0	21.0	21.0	
Total Split (%)	7.3%	50.0%		10.9%	53.6%		20.0%	20.0%	20.0%	19.1%	19.1%	
Yellow Time (s)	3.5	4.5		3.5	4.5		4.5	4.5	4.5	4.5	4.5	
All-Red Time (s)	1.5	1.5		0.0	0.0		1.5	1.5	1.5	0.0	0.0	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0			0.0	0.0		0.0	
Total Lost Time (s)	5.0	6.0		3.5	4.5			6.0	6.0		4.5	
Lead/Lag	Lead	Lag		Lead	Lag							
Lead-Lag Optimize?	Yes	Yes		Yes	Yes							
Recall Mode	None	C-Min		None	C-Min		None	None	None	None	None	
Act Effect Green (s)	80.2	76.4		80.8	76.7			8.0	8.0		9.5	
Actuated g/C Ratio	0.73	0.69		0.73	0.70			0.07	0.07		0.09	
v/c Ratio	0.11	0.52		0.12	0.48			0.11	0.16		0.46	
Control Delay	6.2	12.4		6.0	11.6			49.9	1.3		38.8	
Queue Delay	0.0	0.0		0.0	0.0			0.0	0.0		0.0	
Total Delay	6.2	12.4		6.0	11.6			49.9	1.3		38.8	
LOS	A	B		A	B			D	A		D	
Approach Delay		12.2			11.4			14.3			38.8	
Approach LOS		B			B			B			D	
Queue Length 50th (ft)	7	271		6	235			10	0		34	
Queue Length 95th (ft)	18	381		17	332			31	0		80	
Internal Link Dist (ft)		80			171			128			42	
Turn Bay Length (ft)												
Base Capacity (vph)	337	2461		340	2461			265	370		285	
Starvation Cap Reductn	0	0		0	0			0	0		0	

Lanes, Volumes, Timings

2: Access Drive/Rosemary Terrace & Deerfield Road

7/11/2016



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Spillback Cap Reductn	0	0		0	0			0	0		0	
Storage Cap Reductn	0	0		0	0			0	0		0	
Reduced v/c Ratio	0.11	0.52		0.11	0.48			0.06	0.11		0.29	

Intersection Summary

Area Type:	Other
Cycle Length:	110
Actuated Cycle Length:	110
Offset:	0 (0%), Referenced to phase 2:EBTL and 6:WBTL, Start of Green
Natural Cycle:	90
Control Type:	Actuated-Coordinated
Maximum v/c Ratio:	0.52
Intersection Signal Delay:	12.7
Intersection LOS:	B
Intersection Capacity Utilization	61.3%
ICU Level of Service	B
Analysis Period (min)	15

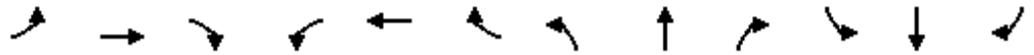
Splits and Phases: 2: Access Drive/Rosemary Terrace & Deerfield Road

φ1	φ2 (R)	φ4	φ8
12 s	55 s	21 s	22 s
φ5	φ6 (R)		
8 s	59 s		

HCM Unsignalized Intersection Capacity Analysis

3: Rosemary Terrace & Access Drive/Chuch Access Drive

7/11/2016



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Volume (veh/h)	15	0	47	1	1	0	27	40	0	0	31	9
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Hourly flow rate (vph)	16	0	50	1	1	0	29	43	0	0	33	10
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								None			None	
Median storage (veh)												
Upstream signal (ft)								212				
pX, platoon unblocked												
vC, conflicting volume	138	138	38	188	143	43	43			43		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	138	138	38	188	143	43	43			43		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	98	100	95	100	100	100	98			100		
cM capacity (veh/h)	824	743	1029	729	739	1034	1579			1579		

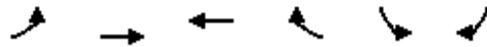
Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total	66	2	71	43
Volume Left	16	1	29	0
Volume Right	50	0	0	10
cSH	970	734	1579	1700
Volume to Capacity	0.07	0.00	0.02	0.03
Queue Length 95th (ft)	5	0	1	0
Control Delay (s)	9.0	9.9	3.0	0.0
Lane LOS	A	A	A	
Approach Delay (s)	9.0	9.9	3.0	0.0
Approach LOS	A	A		

Intersection Summary			
Average Delay		4.6	
Intersection Capacity Utilization	20.9%		ICU Level of Service A
Analysis Period (min)		15	

HCM Unsignalized Intersection Capacity Analysis

6: Deerfield Road & West Access Drive

7/11/2016



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↕↕	↕↕↕		↕↕	
Volume (veh/h)	17	1272	1117	12	3	34
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Hourly flow rate (vph)	18	1339	1176	13	3	36
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type		None	None			
Median storage (veh)						
Upstream signal (ft)			335			
pX, platoon unblocked	0.87				0.87	0.87
vC, conflicting volume	1188				1887	398
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	698				1500	0
tC, single (s)	4.1				6.8	6.9
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.3
p0 queue free %	98				97	96
cM capacity (veh/h)	791				98	944

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	WB 3	SB 1
Volume Total	464	893	470	470	248	39
Volume Left	18	0	0	0	0	3
Volume Right	0	0	0	0	13	36
cSH	791	1700	1700	1700	1700	555
Volume to Capacity	0.02	0.53	0.28	0.28	0.15	0.07
Queue Length 95th (ft)	2	0	0	0	0	6
Control Delay (s)	0.7	0.0	0.0	0.0	0.0	12.0
Lane LOS	A					B
Approach Delay (s)	0.2		0.0			12.0
Approach LOS						B

Intersection Summary						
Average Delay			0.3			
Intersection Capacity Utilization			57.2%		ICU Level of Service	B
Analysis Period (min)			15			

HCM Unsignalized Intersection Capacity Analysis

7: Deerfield Road & East Access Drive

7/11/2016



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↑↑↑	↑↑		↑↑	
Volume (veh/h)	18	1257	1115	14	3	14
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Hourly flow rate (vph)	19	1323	1174	15	3	15
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type		None	None			
Median storage (veh)						
Upstream signal (ft)			160			
pX, platoon unblocked	0.83				0.83	0.83
vC, conflicting volume	1188				1660	594
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	806				1377	86
tC, single (s)	4.1				6.8	6.9
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.3
p0 queue free %	97				97	98
cM capacity (veh/h)	683				111	789

Direction, Lane #	EB 1	EB 2	EB 3	WB 1	WB 2	SB 1
Volume Total	284	529	529	782	406	18
Volume Left	19	0	0	0	0	3
Volume Right	0	0	0	0	15	15
cSH	683	1700	1700	1700	1700	380
Volume to Capacity	0.03	0.31	0.31	0.46	0.24	0.05
Queue Length 95th (ft)	2	0	0	0	0	4
Control Delay (s)	1.0	0.0	0.0	0.0	0.0	14.9
Lane LOS	A					B
Approach Delay (s)	0.2			0.0		14.9
Approach LOS						B

Intersection Summary						
Average Delay			0.2			
Intersection Capacity Utilization			46.9%		ICU Level of Service	A
Analysis Period (min)			15			

Intersection Sign configuration not allowed in HCM analysis.

Lanes, Volumes, Timings
2: Access Drive/Rosemary Terrace & Deerfield Road

7/7/2016

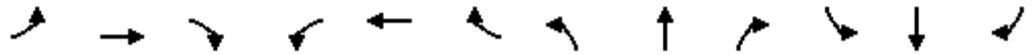


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	16	859	55	43	924	45	11	0	46	47	5	21
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		0	100		0	0		0	0		0
Storage Lanes	1		0	1		0	0		1	0		0
Taper Length (ft)	25			50			25			25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.991			0.993				0.850		0.962	
Flt Protected	0.950			0.950				0.950			0.969	
Satd. Flow (prot)	1805	3544	0	1719	3551	0	0	1805	1583	0	1746	0
Flt Permitted	0.261			0.253				0.950			0.969	
Satd. Flow (perm)	496	3544	0	458	3551	0	0	1805	1583	0	1746	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		8			6				124			16
Link Speed (mph)		30			30			25				25
Link Distance (ft)		160			251			208				122
Travel Time (s)		3.6			5.7			5.7				3.3
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Heavy Vehicles (%)	0%	1%	0%	5%	1%	0%	0%	0%	2%	0%	0%	5%
Shared Lane Traffic (%)												
Lane Group Flow (vph)	16	933	0	44	989	0	0	11	47	0	74	0
Turn Type	pm+pt	NA		pm+pt	NA		Split	NA	Perm	Split	NA	
Protected Phases	5	2		1	6		8	8		4	4	
Permitted Phases	2			6					8			
Detector Phase	5	2		1	6		8	8	8	4	4	
Switch Phase												
Minimum Initial (s)	3.0	15.0		3.0	18.0		8.0	8.0	8.0	8.0	8.0	
Minimum Split (s)	8.0	22.0		8.0	24.0		22.0	22.0	22.0	22.0	22.0	
Total Split (s)	8.0	56.0		8.0	56.0		22.0	22.0	22.0	24.0	24.0	
Total Split (%)	7.3%	50.9%		7.3%	50.9%		20.0%	20.0%	20.0%	21.8%	21.8%	
Yellow Time (s)	3.5	4.5		3.5	4.5		4.5	4.5	4.5	4.5	4.5	
All-Red Time (s)	0.0	1.5		0.0	1.5		1.5	1.5	1.5	1.5	1.5	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0			0.0	0.0		0.0	
Total Lost Time (s)	3.5	6.0		3.5	6.0			6.0	6.0		6.0	
Lead/Lag	Lead	Lag		Lead	Lag							
Lead-Lag Optimize?	Yes	Yes		Yes	Yes							
Recall Mode	None	C-Min		None	C-Min		None	None	None	None	None	
Act Effect Green (s)	79.0	72.9		81.3	77.2			8.0	8.0		9.8	
Actuated g/C Ratio	0.72	0.66		0.74	0.70			0.07	0.07		0.09	
v/c Ratio	0.04	0.40		0.11	0.40			0.08	0.20		0.44	
Control Delay	5.9	12.2		6.2	10.4			49.3	2.0		45.4	
Queue Delay	0.0	0.0		0.0	0.0			0.0	0.0		0.0	
Total Delay	5.9	12.2		6.2	10.4			49.3	2.0		45.4	
LOS	A	B		A	B			D	A		D	
Approach Delay		12.1			10.2			11.0			45.4	
Approach LOS		B			B			B			D	
Queue Length 50th (ft)	3	178		8	144			7	0		40	
Queue Length 95th (ft)	11	254		21	267			26	0		84	
Internal Link Dist (ft)		80			171			128			42	

Lanes, Volumes, Timings

2: Access Drive/Rosemary Terrace & Deerfield Road

7/7/2016



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Turn Bay Length (ft)				100								
Base Capacity (vph)	425	2352		412	2492			262	336		299	
Starvation Cap Reductn	0	0		0	0			0	0		0	
Spillback Cap Reductn	0	0		0	0			0	0		0	
Storage Cap Reductn	0	0		0	0			0	0		0	
Reduced v/c Ratio	0.04	0.40		0.11	0.40			0.04	0.14		0.25	

Intersection Summary

Area Type:	Other
Cycle Length:	110
Actuated Cycle Length:	110
Offset:	0 (0%), Referenced to phase 2:EBTL and 6:WBTL, Start of Green
Natural Cycle:	80
Control Type:	Actuated-Coordinated
Maximum v/c Ratio:	0.44
Intersection Signal Delay:	12.3
Intersection LOS:	B
Intersection Capacity Utilization	54.5%
ICU Level of Service	A
Analysis Period (min)	15

Splits and Phases: 2: Access Drive/Rosemary Terrace & Deerfield Road

 8 s	 56 s	 24 s	 22 s
 8 s	 56 s		

HCM Unsignalized Intersection Capacity Analysis

3: Rosemary Terrace/Rosemary Terrace & Access Drive/Church Access Drive

7/8/2016



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↑			↕	
Volume (veh/h)	14	0	44	1	1	0	17	43	0	0	29	9
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)	16	0	52	1	1	0	20	51	0	0	34	11
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								None			None	
Median storage (veh)												
Upstream signal (ft)								212				
pX, platoon unblocked												
vC, conflicting volume	131	130	39	182	135	51	45			51		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	131	130	39	182	135	51	45			51		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	98	100	95	100	100	100	99			100		
cM capacity (veh/h)	837	755	1032	738	750	1023	1576			1569		

Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total	68	2	71	45
Volume Left	16	1	20	0
Volume Right	52	0	0	11
cSH	977	744	1576	1700
Volume to Capacity	0.07	0.00	0.01	0.03
Queue Length 95th (ft)	6	0	1	0
Control Delay (s)	9.0	9.9	2.1	0.0
Lane LOS	A	A	A	
Approach Delay (s)	9.0	9.9	2.1	0.0
Approach LOS	A	A		

Intersection Summary			
Average Delay		4.2	
Intersection Capacity Utilization	20.2%		ICU Level of Service A
Analysis Period (min)		15	

HCM Unsignalized Intersection Capacity Analysis

6: Deerfield Road & West Access Drive

7/8/2016



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↕↕	↕↕↕		↕↕	
Volume (veh/h)	13	926	936	18	3	19
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Hourly flow rate (vph)	14	975	985	19	3	20
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type		None	None			
Median storage (veh)						
Upstream signal (ft)			335			
pX, platoon unblocked	0.91				0.91	0.91
vC, conflicting volume	1004				1509	338
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	656				1212	0
tC, single (s)	4.1				6.8	6.9
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.3
p0 queue free %	98				98	98
cM capacity (veh/h)	855				159	986
Direction, Lane #	EB 1	EB 2	WB 1	WB 2	WB 3	SB 1
Volume Total	339	650	394	394	216	23
Volume Left	14	0	0	0	0	3
Volume Right	0	0	0	0	19	20
cSH	855	1700	1700	1700	1700	577
Volume to Capacity	0.02	0.38	0.23	0.23	0.13	0.04
Queue Length 95th (ft)	1	0	0	0	0	3
Control Delay (s)	0.6	0.0	0.0	0.0	0.0	11.5
Lane LOS	A					B
Approach Delay (s)	0.2		0.0			11.5
Approach LOS						B
Intersection Summary						
Average Delay			0.2			
Intersection Capacity Utilization			44.8%		ICU Level of Service	A
Analysis Period (min)			15			

HCM Unsignalized Intersection Capacity Analysis

7: Deerfield Road & East Access Drive

7/8/2016



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↑↑↑	↑↑		↘	
Volume (veh/h)	0	929	953	3	1	1
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Hourly flow rate (vph)	0	978	1003	3	1	1
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type		None	None			
Median storage (veh)						
Upstream signal (ft)			160			
pX, platoon unblocked	0.87				0.87	0.87
vC, conflicting volume	1006				1331	503
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	696				1071	114
tC, single (s)	4.1				6.8	6.9
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.3
p0 queue free %	100				99	100
cM capacity (veh/h)	787				190	793

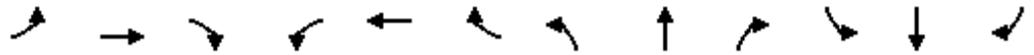
Direction, Lane #	EB 1	EB 2	EB 3	WB 1	WB 2	SB 1
Volume Total	196	391	391	669	338	2
Volume Left	0	0	0	0	0	1
Volume Right	0	0	0	0	3	1
cSH	787	1700	1700	1700	1700	306
Volume to Capacity	0.00	0.23	0.23	0.39	0.20	0.01
Queue Length 95th (ft)	0	0	0	0	0	1
Control Delay (s)	0.0	0.0	0.0	0.0	0.0	16.8
Lane LOS						C
Approach Delay (s)	0.0			0.0		16.8
Approach LOS						C

Intersection Summary						
Average Delay			0.0			
Intersection Capacity Utilization			36.4%		ICU Level of Service	A
Analysis Period (min)			15			

Intersection Sign configuration not allowed in HCM analysis.

Lanes, Volumes, Timings
 2: Access Drive/Rosemary Terrace & Deerfield Road

7/11/2016

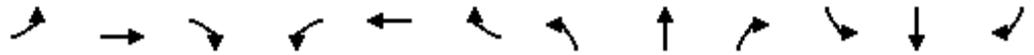


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	35	917	58	46	998	51	12	0	49	64	5	37
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		0	100		0	0		0	0		0
Storage Lanes	1		0	1		0	0		1	0		0
Taper Length (ft)	25			50			25			25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.991			0.993				0.850		0.952	
Flt Protected	0.950			0.950				0.950			0.971	
Satd. Flow (prot)	1805	3544	0	1719	3551	0	0	1805	1583	0	1726	0
Flt Permitted	0.217			0.229				0.950			0.971	
Satd. Flow (perm)	412	3544	0	414	3551	0	0	1805	1583	0	1726	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		8			6				124		21	
Link Speed (mph)		30			30			25			25	
Link Distance (ft)		160			251			208			122	
Travel Time (s)		3.6			5.7			5.7			3.3	
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Heavy Vehicles (%)	0%	1%	0%	5%	1%	0%	0%	0%	2%	0%	0%	5%
Shared Lane Traffic (%)												
Lane Group Flow (vph)	36	995	0	47	1070	0	0	12	50	0	108	0
Turn Type	pm+pt	NA		pm+pt	NA		Split	NA	Perm	Split	NA	
Protected Phases	5	2		1	6		8	8		4	4	
Permitted Phases	2			6					8			
Detector Phase	5	2		1	6		8	8	8	4	4	
Switch Phase												
Minimum Initial (s)	3.0	15.0		3.0	18.0		8.0	8.0	8.0	8.0	8.0	
Minimum Split (s)	8.0	22.0		8.0	24.0		22.0	22.0	22.0	22.0	22.0	
Total Split (s)	8.0	56.0		8.0	56.0		22.0	22.0	22.0	24.0	24.0	
Total Split (%)	7.3%	50.9%		7.3%	50.9%		20.0%	20.0%	20.0%	21.8%	21.8%	
Yellow Time (s)	3.5	4.5		3.5	4.5		4.5	4.5	4.5	4.5	4.5	
All-Red Time (s)	0.0	1.5		0.0	1.5		1.5	1.5	1.5	1.5	1.5	
Lost Time Adjust (s)	0.0	0.0		0.0	0.0			0.0	0.0		0.0	
Total Lost Time (s)	3.5	6.0		3.5	6.0			6.0	6.0		6.0	
Lead/Lag	Lead	Lag		Lead	Lag							
Lead-Lag Optimize?	Yes	Yes		Yes	Yes							
Recall Mode	None	C-Min		None	C-Min		None	None	None	None	None	
Act Effect Green (s)	75.0	67.3		76.1	69.4			8.0	8.0		11.3	
Actuated g/C Ratio	0.68	0.61		0.69	0.63			0.07	0.07		0.10	
v/c Ratio	0.10	0.46		0.13	0.48			0.09	0.22		0.55	
Control Delay	7.0	14.2		7.2	13.6			49.4	2.2		47.8	
Queue Delay	0.0	0.0		0.0	0.0			0.0	0.0		0.0	
Total Delay	7.0	14.2		7.2	13.6			49.4	2.2		47.8	
LOS	A	B		A	B			D	A		D	
Approach Delay		13.9			13.4			11.3			47.8	
Approach LOS		B			B			B			D	
Queue Length 50th (ft)	7	204		10	225			8	0		59	
Queue Length 95th (ft)	20	295		25	322			28	0		112	
Internal Link Dist (ft)		80			171			128			42	

Lanes, Volumes, Timings

2: Access Drive/Rosemary Terrace & Deerfield Road

7/11/2016



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Turn Bay Length (ft)				100								
Base Capacity (vph)	360	2171		363	2242			262	336		300	
Starvation Cap Reductn	0	0		0	0			0	0		0	
Spillback Cap Reductn	0	0		0	0			0	0		0	
Storage Cap Reductn	0	0		0	0			0	0		0	
Reduced v/c Ratio	0.10	0.46		0.13	0.48			0.05	0.15		0.36	

Intersection Summary

Area Type:	Other
Cycle Length:	110
Actuated Cycle Length:	110
Offset:	0 (0%), Referenced to phase 2:EBTL and 6:WBTL, Start of Green
Natural Cycle:	80
Control Type:	Actuated-Coordinated
Maximum v/c Ratio:	0.55
Intersection Signal Delay:	15.2
Intersection LOS:	B
Intersection Capacity Utilization	58.6%
ICU Level of Service	B
Analysis Period (min)	15

Splits and Phases: 2: Access Drive/Rosemary Terrace & Deerfield Road

 8 s	 56 s	 24 s	 22 s
 8 s	 56 s		

HCM Unsignalized Intersection Capacity Analysis

3: Rosemary Terrace/Rosemary Terrace & Access Drive/Church Access Drive

7/11/2016



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↔			↔			↑			↑	
Volume (veh/h)	23	0	76	1	1	0	39	46	0	0	30	18
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	0	89	1	1	0	46	54	0	0	35	21
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								None			None	
Median storage (veh)												
Upstream signal (ft)								212				
pX, platoon unblocked												
vC, conflicting volume	192	192	46	281	202	54	56			54		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	192	192	46	281	202	54	56			54		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	96	100	91	100	100	100	97			100		
cM capacity (veh/h)	753	686	1024	602	677	1019	1561			1564		

Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total	116	2	100	56
Volume Left	27	1	46	0
Volume Right	89	0	0	21
cSH	945	637	1561	1700
Volume to Capacity	0.12	0.00	0.03	0.03
Queue Length 95th (ft)	11	0	2	0
Control Delay (s)	9.3	10.7	3.5	0.0
Lane LOS	A	B	A	
Approach Delay (s)	9.3	10.7	3.5	0.0
Approach LOS	A	B		

Intersection Summary			
Average Delay		5.3	
Intersection Capacity Utilization	24.2%		ICU Level of Service
Analysis Period (min)		15	A

HCM Unsignalized Intersection Capacity Analysis

6: Deerfield Road & West Access Drive

7/11/2016



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↕↕	↕↕↕		↕↕	
Volume (veh/h)	23	1018	1024	22	6	35
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Hourly flow rate (vph)	24	1072	1078	23	6	37
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type		None	None			
Median storage (veh)						
Upstream signal (ft)			335			
pX, platoon unblocked	0.88				0.88	0.88
vC, conflicting volume	1101				1674	371
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	633				1284	0
tC, single (s)	4.1				6.8	6.9
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.3
p0 queue free %	97				95	96
cM capacity (veh/h)	844				136	953

Direction, Lane #	EB 1	EB 2	WB 1	WB 2	WB 3	SB 1
Volume Total	381	714	431	431	239	43
Volume Left	24	0	0	0	0	6
Volume Right	0	0	0	0	23	37
cSH	844	1700	1700	1700	1700	507
Volume to Capacity	0.03	0.42	0.25	0.25	0.14	0.09
Queue Length 95th (ft)	2	0	0	0	0	7
Control Delay (s)	0.9	0.0	0.0	0.0	0.0	12.8
Lane LOS	A					B
Approach Delay (s)	0.3		0.0			12.8
Approach LOS						B

Intersection Summary						
Average Delay			0.4			
Intersection Capacity Utilization			54.6%		ICU Level of Service	A
Analysis Period (min)			15			

HCM Unsignalized Intersection Capacity Analysis

7: Deerfield Road & East Access Drive

7/11/2016



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↑↑↑	↑↑		↘	
Volume (veh/h)	18	1006	1030	17	4	16
Sign Control		Free	Free		Stop	
Grade		0%	0%		0%	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Hourly flow rate (vph)	19	1059	1084	18	4	17
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type		None	None			
Median storage (veh)						
Upstream signal (ft)			160			
pX, platoon unblocked	0.83				0.83	0.83
vC, conflicting volume	1102				1484	551
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	716				1175	53
tC, single (s)	4.1				6.8	6.9
tC, 2 stage (s)						
tF (s)	2.2				3.5	3.3
p0 queue free %	97				97	98
cM capacity (veh/h)	743				152	834
Direction, Lane #	EB 1	EB 2	EB 3	WB 1	WB 2	SB 1
Volume Total	231	424	424	723	379	21
Volume Left	19	0	0	0	0	4
Volume Right	0	0	0	0	18	17
cSH	743	1700	1700	1700	1700	439
Volume to Capacity	0.03	0.25	0.25	0.43	0.22	0.05
Queue Length 95th (ft)	2	0	0	0	0	4
Control Delay (s)	1.1	0.0	0.0	0.0	0.0	13.6
Lane LOS	A					B
Approach Delay (s)	0.2			0.0		13.6
Approach LOS						B
Intersection Summary						
Average Delay			0.2			
Intersection Capacity Utilization			42.1%		ICU Level of Service	A
Analysis Period (min)			15			

Intersection Sign configuration not allowed in HCM analysis.

REQUEST FOR BOARD ACTION

Agenda Item: 16-102

Subject: Report and Recommendation on the Plan Commission re: Request for an Exception to the Approved Sign Criteria for the Charles Ifergan Commercial Planned Unit Development to Allow a New East Wall Sign for American Mattress at 360 Lake Cook Road. (C.I. Properties and American Mattress)

Action Requested: Approval of Recommendation

Originated by: Plan Commission

Referred to: Mayor and Board of Trustees

Summary of Background and Reason for Request:

American Mattress is seeking an exception to the approved sign criteria for the development to allow a new wall sign located on the east wall of the building and consist of the words "American Mattress" in white letters. The Plan Commission believes that the proposed signage is needed because the store lacks visibility for vehicles heading west on Lake Cook Road.

Reports and Documents Attached:

Report and Recommendation
Public Hearing Minutes
Workshop Minutes
Approved Ifergan Sign Criteria
2013 Approved Site Plan
Zoning Map
Petitioner's Material

Date Referred to Board: October 4, 2016

Action Taken: _____

RECOMMENDATION

TO: Mayor and Board of Trustees

FROM: Plan Commission

DATE: September 8, 2016

RE: Request for approval of an exception to the established sign criteria to allow a wall sign on the east wall of the building for American Mattress.

We transmit for your consideration a recommendation adopted by the Plan Commission of the Village of Deerfield on the request of the petitioners for approval of an exception to the established sign criteria to allow a wall sign on the east wall of the building. The Plan Commission held a public hearing on September 8, 2016. At that public hearing, the petitioners presented testimony and documentary evidence in support of the request. A copy of the public hearing and workshop minutes are attached.

In support of its request, the Plan Commission makes the following findings of fact and conclusions:

FINDINGS OF FACT

Subject Property

The Ifergan commercial planned unit development consists of the properties located at 360, 370 and 380 Lake Cook Road. The tenant space is the American Mattress store at the east side of the building.

Proposed Plan

American Mattress is seeking to place a new wall sign on the east wall of their tenant space. The stipulation that no wall sign was allowed on the east wall of the building came from the property owner when the sign criteria for this building was developed a few years ago when major renovations were made to the building. The stipulation that a tenant wall sign was not allowed on the east wall of the building did not come from the Village. American Mattress is seeking an exception to the approved sign criteria for the development to allow the proposed wall sign for American Mattress. The new wall sign will be located on

the east wall of the building and will be approximately 29 square feet (3' high by 9' 8" long) and consist of the words "American Mattress" in white letters. The existing wall sign for American Mattress is located on the south wall of the building and is the same size as the proposed east wall sign, and the new sign is located the same distance from the corner of the building as the existing south wall sign, so the appearance will be symmetrical. The petitioner has indicated that the store is hard to see coming from the east/driving west on Lake Cook Road so the sign would be helpful to the business.

Zoning Conformance

The proposed wall sign meets the requirements of the Zoning Ordinance, but not the sign criteria for the development, and an exception must be granted. The Village has granted exceptions in the past from development sign criteria (e.g. Fresh Thyme in Caldwell's Corners).

Appearance Review Commission

The Appearance Review Commission had no problem with the plans and approved the proposal at their August 23, 2016 meeting.

CONCLUSIONS

The Plan Commission believes that the petitioner's request is appropriate and that they should be granted an exception to the sign criteria for the Ifergan development to allow the proposed wall sign on the east side of the building for the American Mattress store. The Plan Commission believes that the proposed signage is needed because the store lacks visibility for vehicles heading west on Lake Cook Road. The traffic is also moving faster on Lake Cook Road since the road has been widened. The Plan Commission believes the proposed sign maintains the architectural integrity of the building, and is in scale with the building. The Plan Commission also believes the proposed signage is not excessive and will help identify this retail store. The proposed east wall sign is symmetrical as it will be located the same distance from the corner of the building and it is the same size as the existing south wall sign.

RECOMMENDATION

Accordingly, it is the recommendation of the Plan Commission that American Mattress' request to allow for an exception to the established sign criteria for the Ifergan development to allow a new east wall sign, be approved.

Ayes: (4) Berg, Bromberg, Moyer, Oppenheim

Nays: (0) None

Respectfully submitted,
Mary Oppenheim, Chairperson
Deerfield Plan Commission

the data was conducted under the assumption all customers are going to be driving to the location; although they anticipate that customers may opt to walk from their homes or the train station to Shopper's Court since the location is in the downtown area.

Commissioner Moyer commented that the fifteen minutes between classes seemed like a tight transition period, and asked how confident the petitioners were that it was a sufficient amount of time. Mr. Milan commented that the fifteen minutes in between classes reduces the overlap that would occur during back-to-back classes without a transition period, and is confident that the fifteen minutes will allow for most of the first class to disperse and the second class to come in. Commissioner Moyer commented that he thought people were going to opt to walk or ride their bikes to Shred, and asked if the property owner was planning on having bike racks on site. Mr. Berger confirmed that there would be two bike racks on site. Commissioner Berg asked if any stacking difficulties were anticipated to occur at the traffic light at Rosemary Terrace during the overlap peak hours. Mr. Milan commented that the traffic analyses considered the impact that the entire 636 Building (with all tenants) would have on the traffic in that area, and found that it's not going to increase the queuing enough to affect the access drive to Rosemary Terrace.

(2) Request for an Exception to the Approved Sign Criteria for the Charles Ifergan Commercial Planned Unit Development to Allow a New East Wall Sign for American Mattress.

Karen Dodge, Municipal Resolutions, commented that American Mattress is seeking to place a new wall sign on the east wall of their tenant space. She explained that the stipulation that no wall sign was allowed on the east wall of the building did not come from the Village, but from the property owner's sign criteria for the building when it went through major renovations a few years ago.

American Mattress is seeking an exception to the approved sign criteria for the development to allow a new wall sign on the east wall of the building. The sign will be approximately 29 square feet and consist of the words "American Mattress" in white letters. The existing wall sign for American Mattress is located on the south wall of the building and is the same size as the proposed east wall sign. The new sign is going to be located the same distance from the corner of the building as the existing south wall sign, so the appearance will be symmetrical. She noted that the store is hard to see coming from the east driving west bound on Lake Cook Road, so the sign would be helpful to the business. American Mattress previously had a store location directly across the street, which produced \$700,000 in sales; however, the new location is only producing \$240,000. They attribute their lack of sales at the new location to inadequate signage.

Chairperson Oppenheim clarified that the refusal to allow American Mattress to have a sign on the east wall is not a part of the Village's code but an additional requirement of

the development's sign criteria that was created by the owner, Mr. Charles Ifergan. Chairperson Oppenheim confirmed that the size, location and appearance of the signage was within the Village's Zoning Ordinance and would not need to be granted any variation from the Village for the additional signage.

There being no further business to discuss a motion was made and seconded to close the public hearing.

Respectfully Submitted,
Mary Glowacz

Plan Commission had previously taken into consideration the impact that the multi-tenant building would have on the traffic area, and that their focus was to ensure that each tenant appropriately fit into the space, and she is satisfied with the Petition that everyone is going to fit, and that customers can come and go safely from the location. Commissioner Bromberg commented that neighbors have become used to the location being empty; however, although filling the building is going to impact traffic in the area, their ultimate goal is to fill tenant spaces with businesses that positively benefit the community. Chairperson Oppenheim pointed out that the site is also unique in that members of the church across the street also park in the municipal parking lot on Sunday, but the businesses are not busy on Sunday morning, so there's a lot of interconnectedness, and a really nice synergy.

Commissioner Berg motioned to approve the Special Use for a Self-Improvement Facility for Shred415 Deerfield LLC. Commissioner Moyer seconded the motion. The vote was as follows:

Ayes: (4) Berg, Bromberg, Moyer, Oppenheim
Nays: (0) None

The motions passed and this item will be on the October 3rd Village Board of Trustees Meeting agenda.

(2a) Discussion of American Mattress Signage

The Commissioners agreed the exception to the sign criteria is appropriate and the sign is well designed. Commissioner Bromberg motioned to approve an exception to the approved sign criteria for the Charles Ifergan Commercial Planned Unit Development to allow a new east wall sign for American Mattress. Commissioner Moyer seconded the motion. The vote was as follows:

Ayes: (4) Berg, Bromberg, Moyer, Oppenheim
Nays: (0) None

The motions passed and this item will be on the October 3rd Village Board of Trustees Meeting agenda.

(3) Prefiling Conference: Request to Amend the Deerfield Depot Sign Plan to Allow RTA Interagency Directional and Informational Signs at the Lake Cook Metra Station in the Deerfield Depot Planned Unit Development

Joseph Moriarty, Regional Transportation Authority (RTA), explained that for the last few years the RTA has been leading a collaborative effort with CTA, Metra, Pace and municipal governments to design and employ a system of interagency signs to help make it easier for passengers to make transfers between Metra Trains, Rapid Transit Trains and buses. The RTA is petitioning the Village of Deerfield for approval to install

ARC APPROVED
November 7, 2013

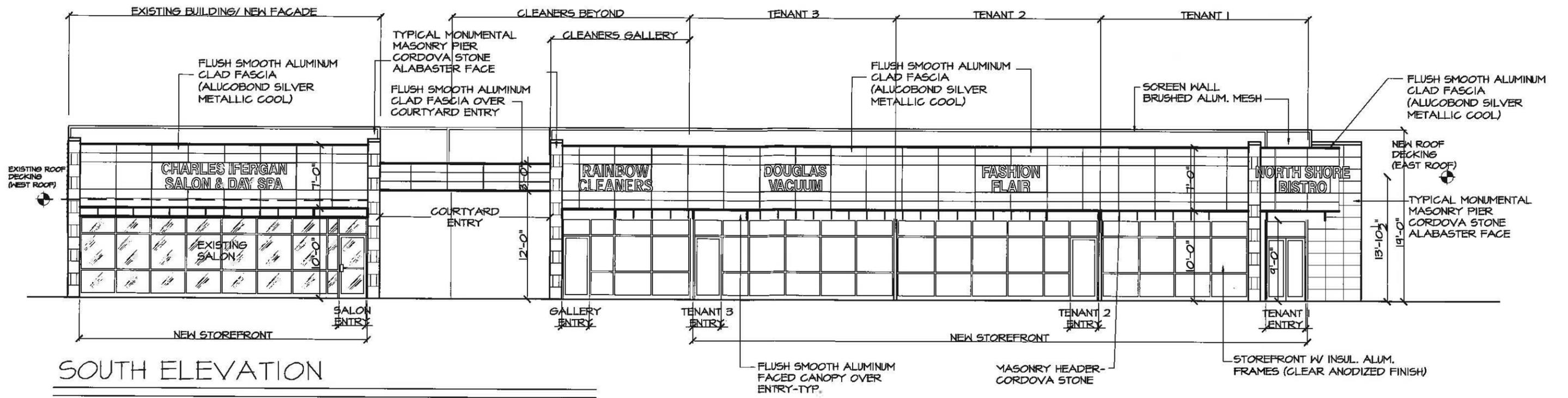
CHARLES IFERGAN PROPERTY

Located at 380 W. Lake Cook Road
Deerfield, Illinois

Preliminary Sign Criteria for Tenant Identification Signs

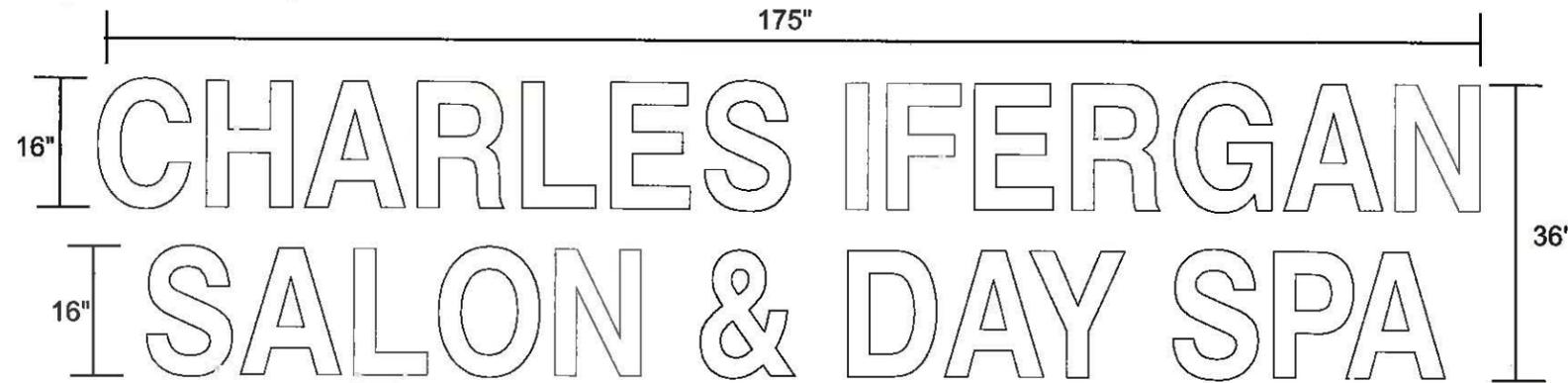
GENERAL DESIGN REQUIREMENTS:

1. One (1) Tenant Identification sign is allowed on front elevation, centered vertically and horizontally within sign area.
2. Wording of signs will be limited to store identity (corporate or official name) and will not include products or services sold.
3. Tenant's signs shall be three dimensional, fabricated channel type individual letters mounted directly to wall surface. Letters will have acrylic faces with metal sides and backs. Letters shall be internally illuminated with LED lighting systems.
4. Tenant's sign shall be restricted to having white faces, black returns and black trim cap.
5. All attachment devices, wiring, clips, transformers, lamps, tubes and other mechanisms required for all signs shall be concealed.
6. All signs are to be mounted on building per Architect's wall section sheet A-3.
7. Tenant signage must be all capital letters Helvetica font with a minimum letter height of 12" and a maximum letter height of 24" tall. A total of 36" tall, if 2 lines are used.
8. Tenant signage is permitted to be 8% of the area of the wall or 80 square feet, whichever is greater. The wall area is measured from grade to the roof deck.
9. No animated, moving action, flashing or audible signage will be allowed.
10. Electrical service to all signs shall be on Tenant's meter.
11. All signage, its installation and removal, and restoration of fascia will be by Tenant and at Tenant's expense.



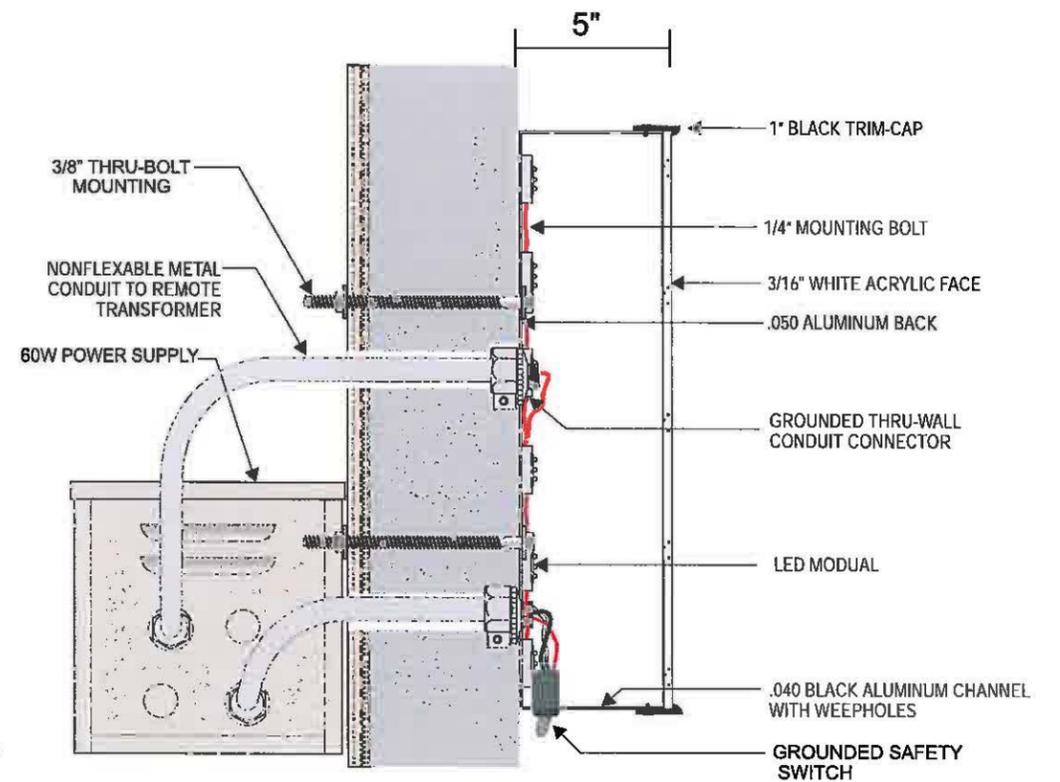
SOUTH ELEVATION

Sign: 46.18 Sq.Ft

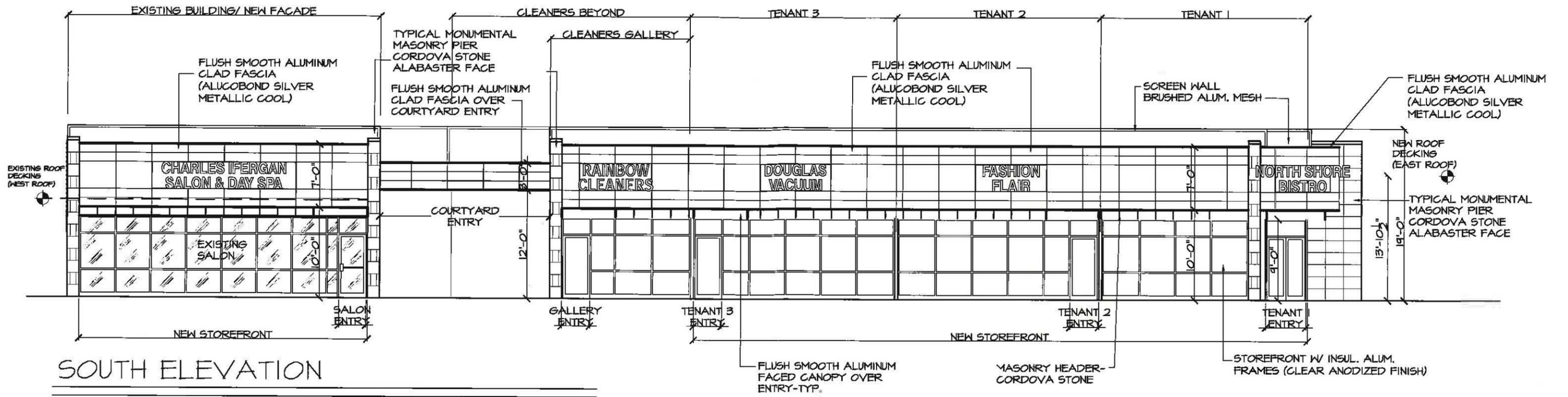


Typical U.L. Channel Letters with LED Illumination

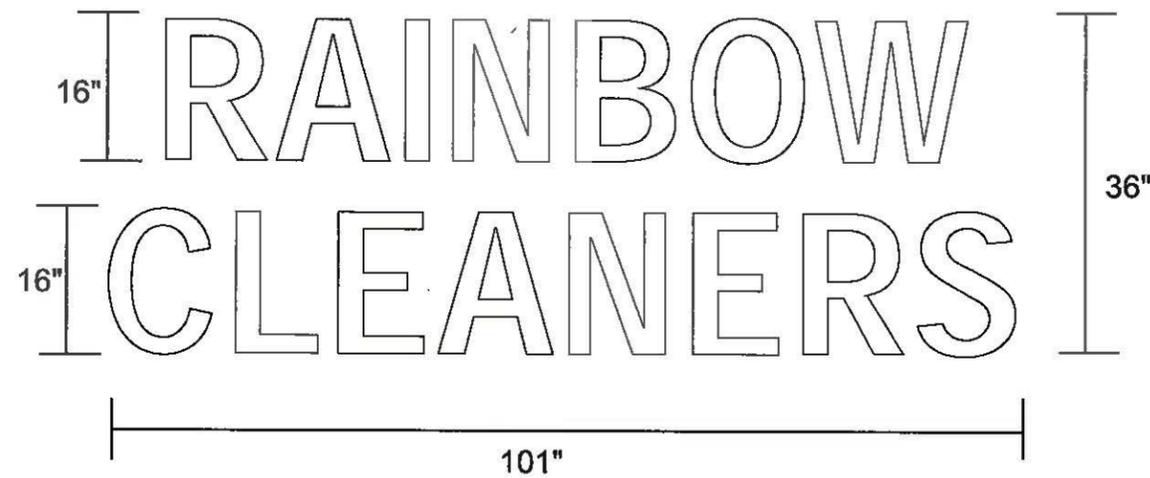
Not to scale



ARC Approved Jody m.

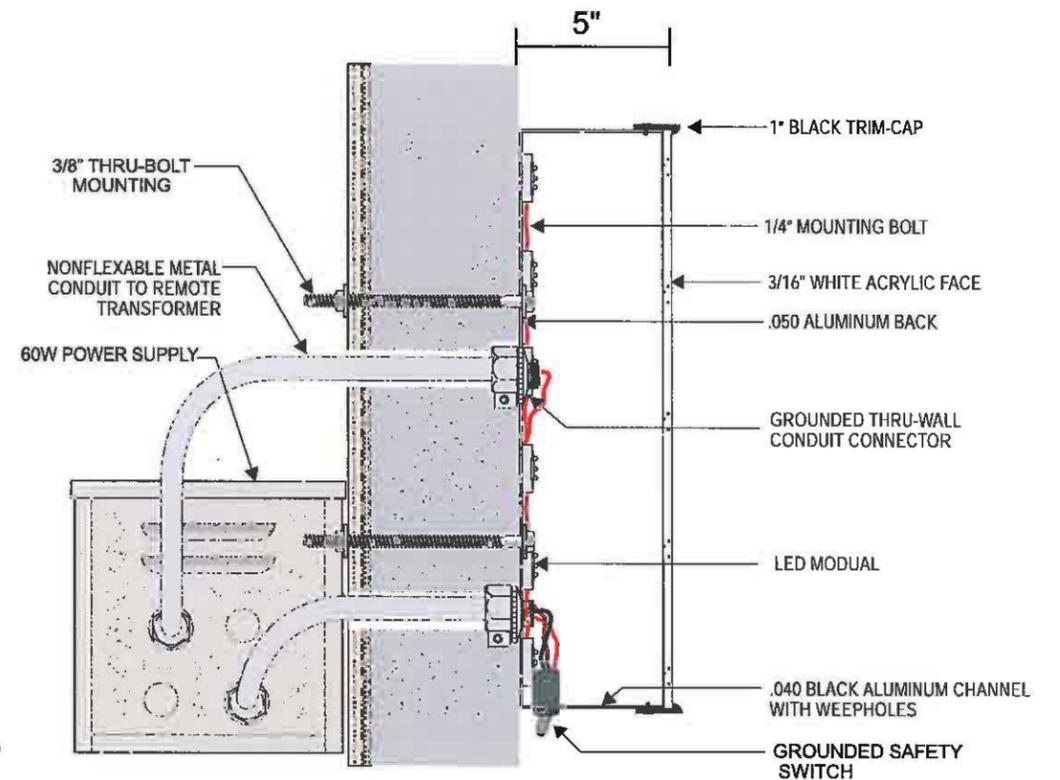


Sign: 26.65 Sq.Ft



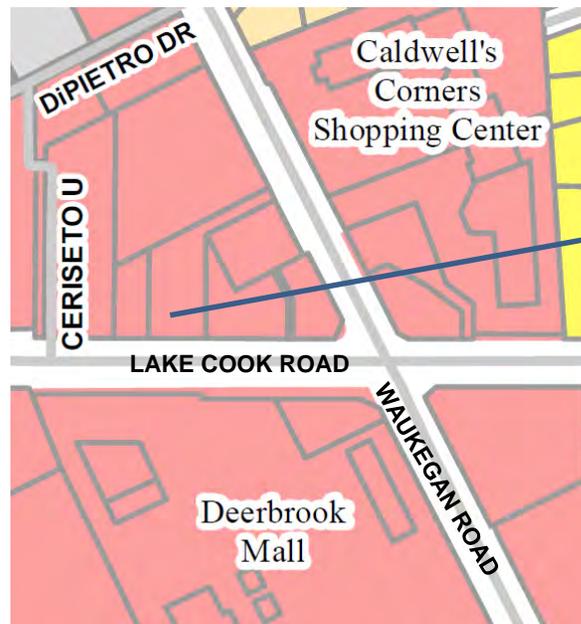
Typical U.L. Channel Letters with LED Illumination

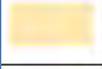
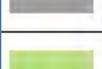
Not to scale



ARC APPROVED [Signature]

Village of Deerfield 2016 Zoning Ordinance Map



	R-1	SINGLE FAMILY DISTRICT ONE FAMILY DWELLINGS AND ACCESSORY USES
	R-2	SINGLE FAMILY DISTRICT SAME AS R-1
	R-3	SINGLE FAMILY DISTRICT SAME AS R-1
	R-4	SINGLE & TWO FAMILY ONE FAMILY & TWO FAMILY DWELLINGS & ACCESSORY USES
	R-5	GENERAL RESIDENCE ONE FAMILY & TWO FAMILY DWELLINGS & ACCESSORY USES
	C-1	VILLAGE CENTER
	C-2	OUTLYING COMMERCIAL
	C-3	LIMITED COMMERCIAL OFFICE
	I-1	OFFICE, RESEARCH, RESTRICTED INDUSTRY
	I-2	LIMITED INDUSTRIAL
	P-1	PUBLIC LANDS SCHOOLS, PARKS, PUBLIC BUILDINGS & CEMETERIES



August 8, 2016

Jeff Ryckaert
Village of Deerfield
850 Waukegan Rd
Deerfield, IL 60015

Re: American Mattress 360 Lake Cook Rd. Request for Sign Variance

Dear Jeff,

I am writing to request that the Village allow American Mattress additional signage for our store. Previously we had a location right across the street from our current location, that location was a store that produced \$700,000 to \$1,000,000 in sales per year. Currently at our new location we average \$20,000 per month in sales which would equate to \$240,000 per year, we are attributing the lack of sales is due to the lack of adequate signage. Clearly the greater our sales are the more sales tax that would be collected which would benefit the Village as well.

After much investigation and research of the other businesses of our size including direct competitors' of ours all are allowed more than one sign. Additionally, it seems as though the center we are in is the only one that has a different ordinance than all other centers in Deerfield. Based on our sales and the fact that all other retailers in the community are allowed additional signage, we are hopeful that the Village would consider this request because it would benefit both parties.

We appreciate your assistance with this matter.

Sincerely,

Michael Kenna
President

Size for east elevation 116' x 36" (29 SF)



Deerfield/ American Mattress

East Elevation: Proposed new raceway sign with white lens and black trim caps

AmericanSigns LLC

Page 1 of 2

Drwn By: C. Shaver 02/15/2016

Size for EAST
elevation: 29 SF



Illuminated Channel Letters, Flush mounted

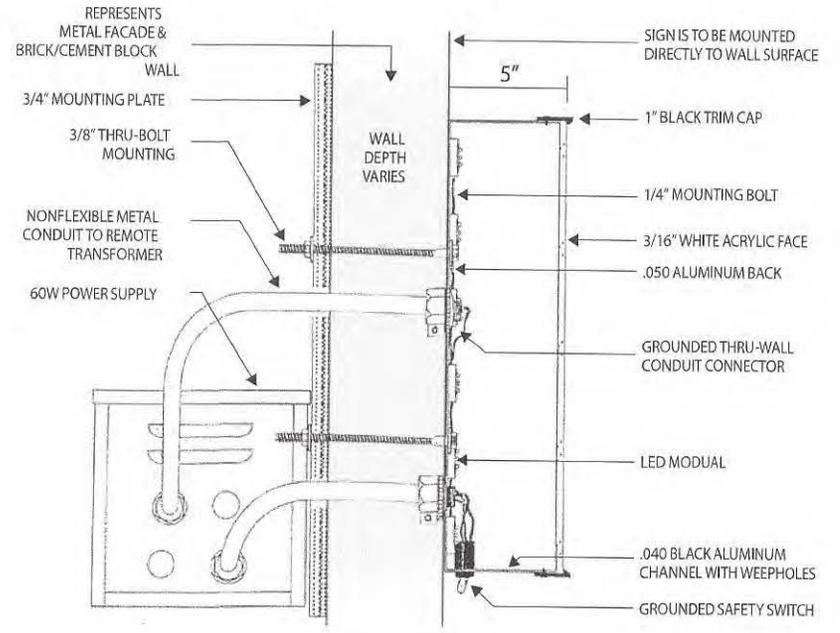
MATERIALS:

- .063" Aluminum Backers
- .040" Returns
- .125" Acrylic Faces
- 1" Trimcap
- Font: Helvetica

	BLACK
	BLACK
	WHITE
	BLACK

ILLUMINATION:

- LED Illumination: WHITE
- USLED - PSV2-2-12-W
- Sloan MOD-60 power supply
- Input: 100 - 240V, 1.0 amp maximum
- Output: 60W



Sign to be U.L. Listed. Sign requires dedicated 15 amp circuit, minimum.
Cut-off switch installed at raceway end.

This sign is intended to be installed in accordance with the requirements of article 600 of the National Electric Code and/or other applicable local codes. This includes proper grounding and bonding of the sign.


 Interior/Exterior Signs & Graphics
 2350 Pinehurst Blvd.
 Addison Illinois, 60101
 630-559-7914
 pkenna@americansignsllc.com

Client: American Mattress
 Job #:
 Location: 380 W. Lake Cook Road
 Deerfield, IL 60015
 Date: 2-15-2016
 Designer: CLS

STOP This is how the sign will be produced.
 Any errors not noted will be on the finished product.

Approved Approved with changes noted
 Not Approved - Revise and Resubmit

Date: ___ / ___ / ___ Signed: _____

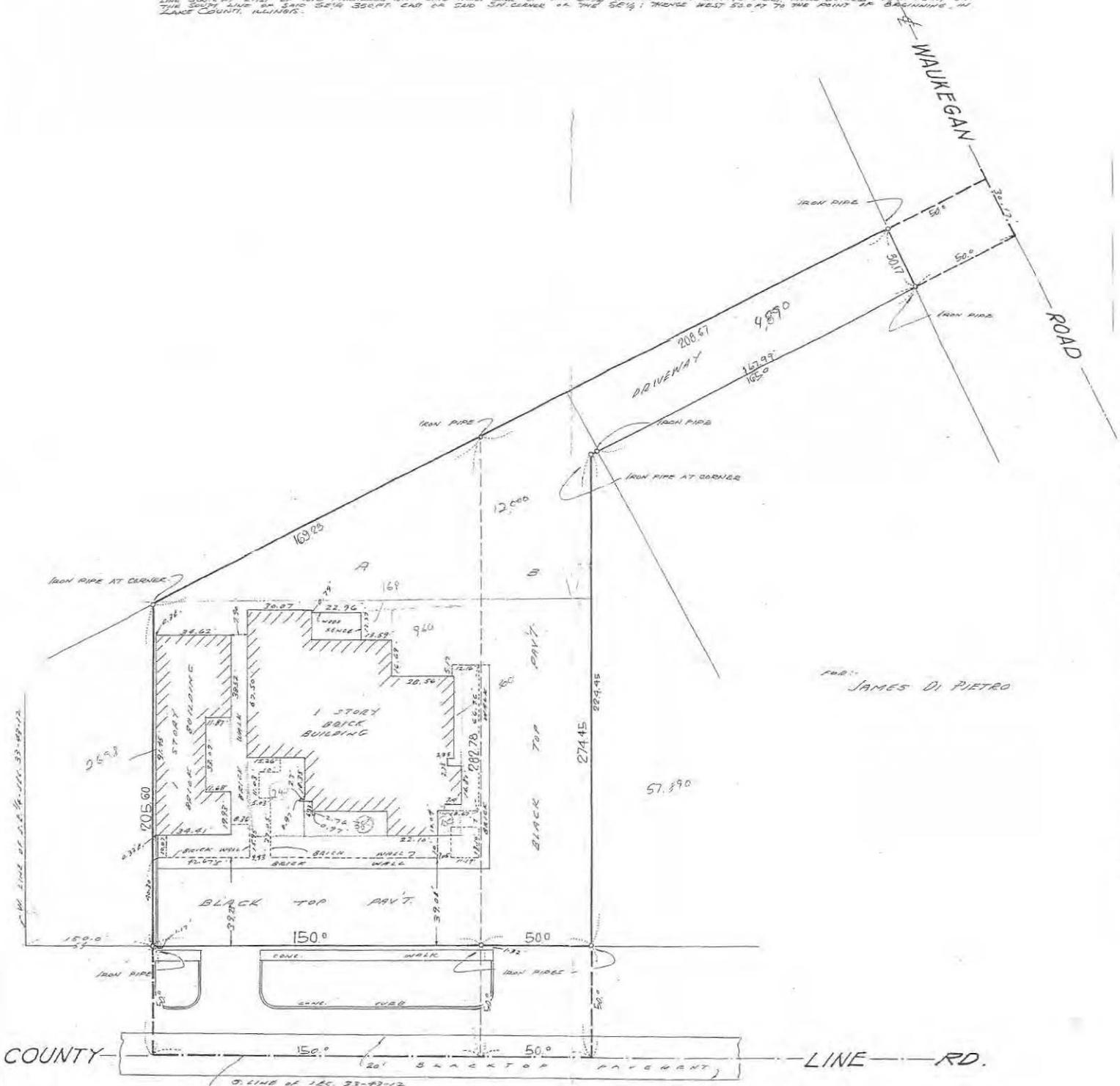
Colors on this proof are for representation only. This drawing has been made available to the client to illustrate design or manufacturing details and are not to be distributed for bid without the written consent of American Signs LLC.

Atvium 1364
 Golden Bear

Plat of Survey

- of PARCELA THE EAST 1500 FT. OF THAT PART OF THE SE $\frac{1}{4}$ OF SECTION 33, TOWNSHIP 43 NORTH, RANGE 12 EAST OF THE 3RD. PRINCIPAL MERIDIAN LYING WEST OF A LINE 3000 FT. EAST OF AND PARALLEL WITH THE WEST LINE OF SAID SE $\frac{1}{4}$ AND SOUTHERLY OF A LINE DRAWN FROM A POINT ON THE WEST LINE OF SAID SE $\frac{1}{4}$ 126.65 FEET (227 $\frac{1}{2}$ FEET) NORTH OF THE SW CORNER OF SAID SE $\frac{1}{4}$ TO A POINT IN THE CENTERLINE OF MAUREGAN ROAD 750.0 FT. NORTH OF THE INTERSECTION OF SAID CENTERLINE OF SAID MAUREGAN ROAD WITH SAID SOUTH LINE OF THE SE $\frac{1}{4}$, IN LAKE COUNTY, ILLINOIS.

D. THAT PART OF THE SW $\frac{1}{4}$ OF SECTION 33 TWP. 43 NORTH, RANGE 12 EAST OF THE 3RD. P.M. DESCRIBED AS FOLLOWS: BEGINNING AT A POINT IN THE SOUTH LINE OF SAID SE $\frac{1}{4}$ OF SECTION 33, 3000 FT. EAST OF THE SW CORNER OF SAID SE $\frac{1}{4}$; THENCE NORTH ALONG A LINE PARALLEL WITH THE WEST LINE OF SAID SE $\frac{1}{4}$ 282.78 FEET; OR THERE TO A LINE DRAWN FROM A POINT ON SAID WEST LINE OF THE SE $\frac{1}{4}$ 126.65 FEET (227 $\frac{1}{2}$ FEET) NORTH OF THE SW CORNER OF SAID SE $\frac{1}{4}$ TO A POINT IN THE CENTERLINE OF MAUREGAN ROAD 750.0 FT. NORTH OF THE INTERSECTION OF SAID CENTERLINE OF MAUREGAN ROAD; THENCE NORTH ALONG THE WEST DESCRIBED LINE 300.67 FEET OR MORE OR LESS TO SAID POINT "A"; THENCE SOUTH ALONG THE CENTERLINE OF MAUREGAN ROAD 3017 FT. THENCE SOUTHWEST AT RIGHT ANGLES TO THE CENTERLINE OF MAUREGAN ROAD 571.50 FT. MORE OR LESS TO A LINE 300.67 FT. LONG AND PARALLEL WITH SAID WEST LINE OF THE SE $\frac{1}{4}$ THENCE SOUTH 274.45 FEET; OR THERE TO A POINT "B" IN THE SOUTH LINE OF SAID SE $\frac{1}{4}$ 330 FT. EAST OF SAID SW CORNER OF THE SE $\frac{1}{4}$; THENCE WEST 500 FT. TO THE POINT OF BEGINNING, IN LAKE COUNTY, ILLINOIS.



FOR: JAMES DI PIETRO

STATE OF ILLINOIS
 COUNTY OF COOK

13-56

I HEREBY CERTIFY THAT THE PROPERTY DESCRIBED IN THE ABOVE CAPTION HAS BEEN SURVEYED UNDER MY DIRECTION AND THAT THE PLAT SHOWN HEREON IS A FAITHFUL REPRESENTATION OF SAID SURVEY. MEASUREMENTS OBTAINED AT 60°F.

Carl P. V. Kula
 PLUMBER AND SURVEYOR

COMPARE ALL POINTS ABOVE BUILDING BY SAID AND MEASURED AGAINST ANY ADJACENT SURVEY. NO DIMENSIONS SHOWN OR ASSUMED BY SURVEY. THE BUILDING LINES REFER TO YOUR DEED RECORD.

SUBURBAN SURVEY SERVICE
 LAND SURVEYORS
 NORTHBROOK ILLINOIS

REQUEST FOR BOARD ACTION

Agenda Item: 16-103

Subject: Report and Recommendation of the Plan Commission re: Request for Approval of a Special Use to Construct a Café in the Existing Building at Six Parkway North (Fulcrum Asset Advisors,LLC and Parkway North Center)

Action Requested: Approval of Recommendation

Originated by: Plan Commission

Referred to: Mayor and Board of Trustees

Summary of Background and Reason for Request:

The petitioners will be seeking a Special Use for the café pursuant to Article 6.01-C,2, b., (1)(g) of the Zoning Ordinance to allow for the new café in the Parkway North 6 building. The Plan Commission believes the proposed facility is well planned and will be a nice amenity for employees.

Reports and Documents Attached:

Recommendation
Public Hearing Minutes
Workshop Minutes
Aerial Photo
Zoning Map
Petitioner's Materials

Date Referred to Board: October 4, 2016

Action Taken: _____

RECOMMENDATION

To: Mayor and Board of Trustees

From: Plan Commission

Date: September 22, 2016

RE: Request for Approval of a Special Use to Construct a Café in the Existing Building at Six Parkway North Center

We transmit for your consideration a recommendation adopted by the Plan Commission of the Village of Deerfield on the request of the petitioners for approval of a Special Use for an employee cafeteria. The Plan Commission held a public hearing on September 22, 2016. At that public hearing, the petitioners presented testimony and documentary evidence in support of the request. A copy of the public hearing and workshop minutes are attached.

In support of its request, the Plan Commission makes the following findings of fact and conclusions:

FINDINGS OF FACT

Subject Property

The subject property consists of the Parkway North Center planned unit development (PUD). The property is approximately 86 acres and is located at the southeast corner of Deerfield Road and Saunders Road. The subject property is zoned I-1 Office, Research, and Restricted Industrial District. The site is currently developed with six office buildings (buildings 1, 3, 4, 6, 9 and 10), a Marriott Suites Hotel (2 Parkway North), and a child care facility and health club in a one story building (5 Parkway North). The annexation agreement sets out the development requirements for the Parkway North Center Planned Unit Development.

The specific property where the café is proposed is Parkway North 6, which is a 4-story office building of approximately 92,000 square feet and is located in the center of the development (on the south side of the retention pond) south of the Parkway North 9 office building, and north of the Parkway North 3 office building.

Proposed Plan

Fulcrum Asset Advisors recently purchased three office buildings (Parkway North 3, 6, and 9) at Parkway North Center from The John Buck Company. The petitioner, Colliers International, on behalf of building owner, is proposing to construct an 1,825 square foot café on the first floor of the Parkway North 6 building. The café will serve breakfast and lunch and is anticipated to be primarily frequented by employees of the office building.

The café will have a seating area accommodating approximately 12 people and be serviced by a kitchen which will include an oven exhaust. The café will be staffed with two employees. The petitioner has indicated that the exhaust will be in the form of a louver running out the side of the building at ground level near the loading dock and the louver will not deteriorate the building's appearance. The dock is surrounded by trees, transformers and other equipment.

The proposed café is anticipated to function and be operated in a similar manner to the café located in the Parkway North 9 building which was approved in 2004. The café will have no exterior signage.

Access

Access to the Parkway North Center development is from access points on Deerfield Road and Saunders Road and will not be changed.

Zoning Conformance

The petitioners will be seeking a Special Use for the café pursuant to Article 6.01-C,2, b., (1)(g) of the Zoning Ordinance to allow for the new café in the Parkway North 6 building that is operated primarily for the convenience of the tenant of the building within the PUD.

CONCLUSIONS

Compatible With Existing Development

The Plan Commission believes that the proposed café for employees of the building is planned so that it will be compatible with the existing development in the area and will not impede the normal and orderly development and improvement of surrounding properties. The Plan Commission believes the proposed cafe will be compatible with the existing development on the subject property. The Plan Commission believes the proposed facility is well planned and will be a nice amenity for employees. They believe the café will not have an adverse impact.

Lot of Sufficient Size

The Plan Commission believes that the lot is of sufficient size for the proposed cafe. The proposed improvements are inside the building. The Plan Commission believes the property is suitable for the proposed improvements and will not create a negative impact on surrounding properties.

Traffic

The Plan Commission believes that there should be no additional traffic as a result of the proposed cafe. The proposed facility will be used by employees and not the general public. The traffic flow/patterns on the subject property will not change as a result of the new sports field.

Parking and Access

The Plan Commission believes the parking on the subject property will be adequate. The existing parking lot will not be changed as a result of the proposed employee cafe. The existing vehicular access point to the parking lot will not be changed as a result of the proposed improvements.

Effect on Neighborhood

The Plan Commission believes that the proposed employee café will not be significantly or materially detrimental to the health, safety, and welfare of the public or injurious to other property or improvements in the neighborhood, nor will it diminish or impair property values in the surrounding areas. The Plan Commission believes that the proposed café will not have an adverse impact on the neighborhood. The Plan Commission believes the proposed improvements are well planned and will have minimal impacts on the area. The café is for the office employees only and will be a nice asset to the campus. The Plan Commission believes the proposed café adds to the quality of this office development.

Adequate Facilities

Adequate facilities (utilities, access roads) are provided for this site.

Adequate Buffering

The Plan Commission believes that the existing buffering is adequate. The café is located on the interior of the building and does not impact the existing buffering.

RECOMMENDATION

Accordingly, it is the recommendation of the Plan Commission that the petitioners request for an employee café in the 6 Parkway North Office building be approved.

Ayes: (5) Berg, Jacoby, Moyer, Shayman, Oppenheim

Nays: (0) None

Respectfully submitted,
Mary Oppenheim, Chairperson
Deerfield Plan Commission

PLAN COMMISSION
VILLAGE OF DEERFIELD

The Plan Commission of the Village of Deerfield held a Public Hearing Meeting at 7:30 P.M. on September 22, 2016 at the Village Hall, 850 Waukegan Road, Deerfield, Illinois.

Present were: Mary Oppenheim, Chairperson
Al Bromberg
Jim Moyer
Elaine Jacoby
Stuart Shayman

Absent were: Bob Benton
Larry Berg

Also present: Jeff Ryckaert, Principal Planner
Dan Nakahara, Associate Planner

- (1) Request for Approval of a Special Use to Construct an Employee Café in the Existing Building at Six Parkway North (Fulcrum Asset Advisors and Parkway North Center)

Richard Gordon, Principal, Interwork Architects, Inc., commented that the proposed café is intended to be used by the tenants of the 6 Parkway North Building and will be located on the first floor in the northwest corner of the building overlooking the pond and the walking path. The floor layout includes a kitchen area, entry corridor, a grab-and-go area, a salad bar area, a hot soup station, a sandwich station, a hot food station, cash register area and a small seating area. The petitioners are anticipating that the majority of the tenants are going to purchase their food at the café and then go back to their offices to eat. Since they will be providing hot entrées at the café, there will be an exhaust hood in the kitchen. The window in the kitchen area will be modified in order to install a louver grill in the side of the building to accommodate the hood exhaust.

Chairperson Oppenheim explained that a café is currently a Special Use in the I-1 Zoning District. She noted that the Plan Commission has discussed making changes to the I-1 Zoning District's Special and Permitted Uses and when it does come up for reviewing and recommending changes to the I-1 Zoning District that the Plan Commission is going to take into consideration whether the Village should really be involved in regulating what an owner does on the interior of their building for their own tenants. Chairperson Oppenheim thanked the petitioners for their patience, and explained that the Public Hearing for their request for a Special Use was necessary at this time as the Zoning Code currently requires it.

Workshop Meeting
September 22, 2016
Page 2

There being no further business to discuss a motion was made and seconded to close the public hearing.

Respectfully Submitted,
Mary Glowacz

PLAN COMMISSION
VILLAGE OF DEERFIELD

The Plan Commission of the Village of Deerfield held a Workshop Meeting at 7:30 P.M. on September 22, 2016 at the Village Hall, 850 Waukegan Road, Deerfield, Illinois.

Present were: Mary Oppenheim, Chairperson
Al Bromberg
Jim Moyer
Elaine Jacoby
Stuart Shayman

Absent were: Bob Benton
Larry Berg

Also present: Jeff Ryckaert, Principal Planner
Dan Nakahara, Associate Planner

(1a) Discussion of Café for Six Parkway North Center

The Plan Commission did not have any issues with the proposed café and felt it was appropriate for the building. Commissioner Bromberg motioned to approve the Special Use to construct a café in the existing building at Six Parkway North. Commissioner Jacoby seconded the motion. The vote was as follows:

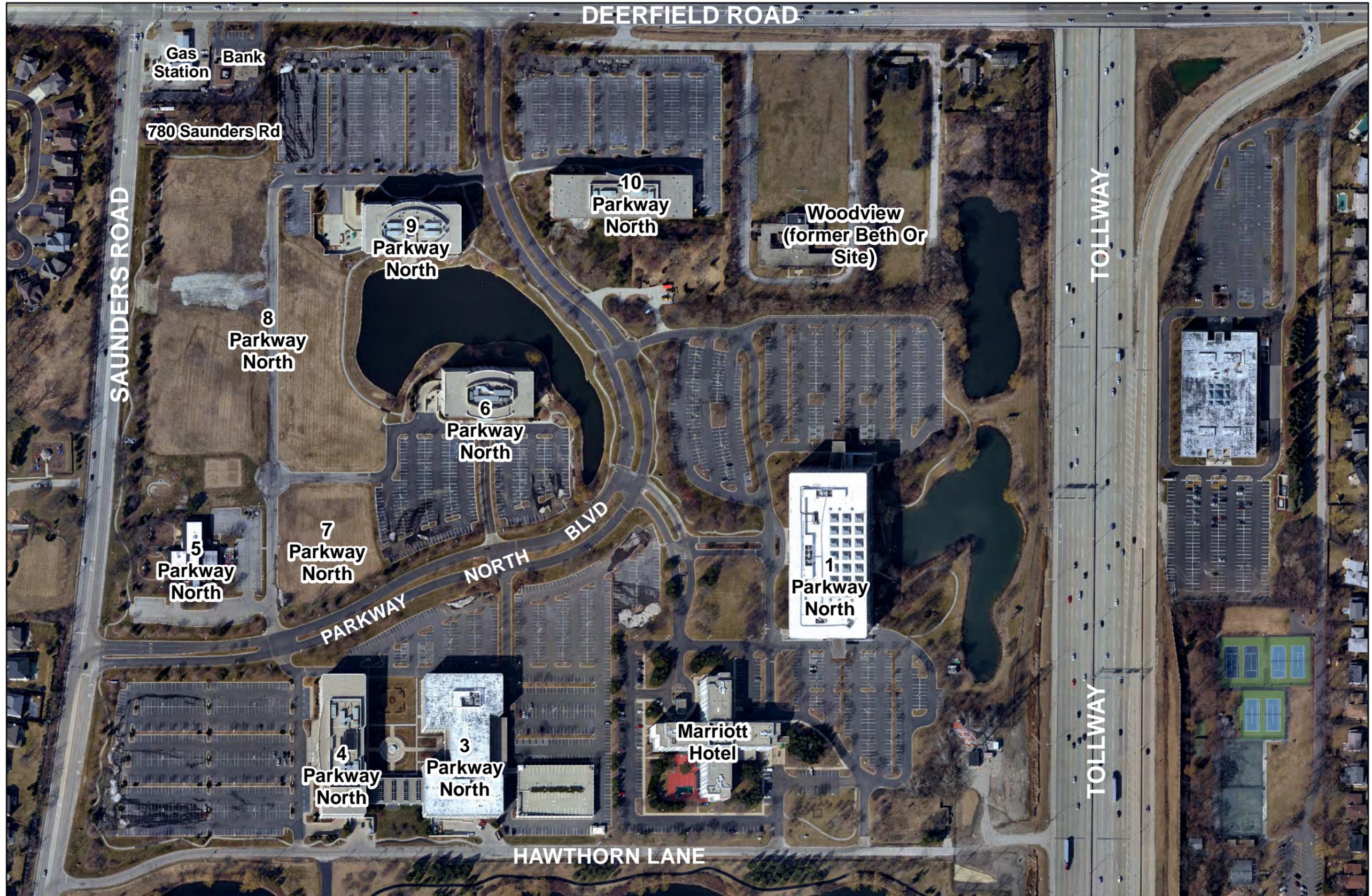
Ayes: (5) Bromberg, Moyer, Jacoby, Shayman, Oppenheim
Nays: (0) None

The motions passed.

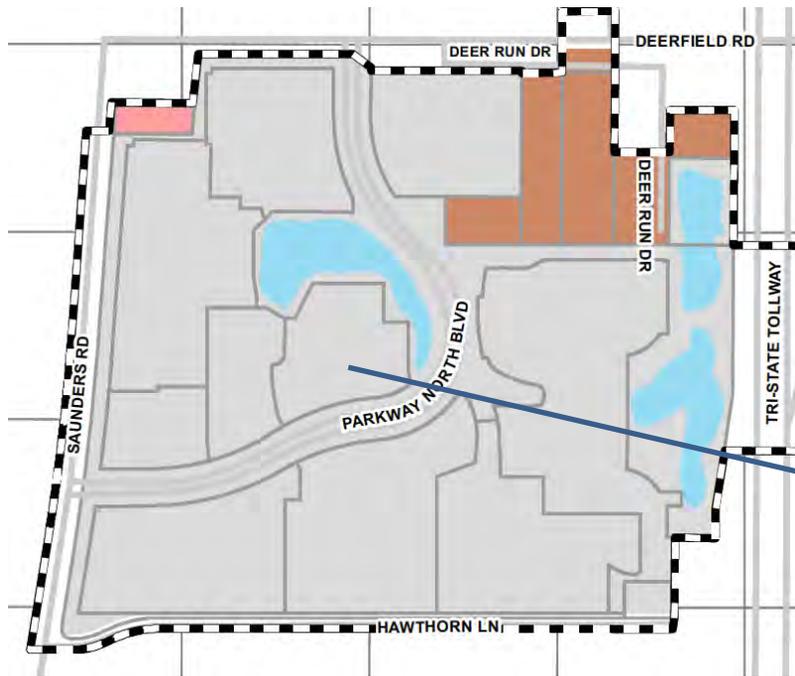
There being no further business to discuss the meeting adjourned.

Respectfully Submitted,
Mary Glowacz

Parkway North Center



Village of Deerfield 2016 Zoning Ordinance Map



	R-1	SINGLE FAMILY DISTRICT ONE FAMILY DWELLINGS AND ACCESSORY USES
	R-2	SINGLE FAMILY DISTRICT SAME AS R1
	R-3	SINGLE FAMILY DISTRICT SAME AS R1
	R-4	SINGLE & TWO FAMILY ONE FAMILY & TWO FAMILY DWELLINGS & ACCESSORY USES
	R-5	GENERAL RESIDENCE ONE FAMILY & TWO FAMILY DWELLINGS & ACCESSORY USES
	C-1	VILLAGE CENTER
	C-2	OUTLYING COMMERICAL
	C-3	LIMITED COMMERICAL OFFICE
	I-1	OFFICE, RESEARCH, RESTRICTED INDUSTRY
	I-2	LIMITED INDUSTRIAL
	P-1	PUBLIC LANDS SCHOOLS, PARKS, PUBLIC BUILDINGS & CEMETERIES

**STATEMENT OF INTENT
PARKWAY NORTH CENTER
TNREF III PARKWAY JV, LLC
SIX PARKWAY NORTH
BUILDING CAFÉ SPECIAL USE APPLICATION**

History and Background

Parkway North Center is an approximately 90-acre mixed-use development which currently includes six major office buildings, a luxury apartment complex and a Marriott Suites Hotel. The campus also includes a fitness club and daycare facility located in the former Thorngate Country Club clubhouse, which was extensively renovated for the new uses, dining and catering facilities, covered parking, beautiful landscaping, ponds and a walking path. The bulk of the land was annexed to the Village of Deerfield in February, 1985.

Parkway North Center is zoned in the Village of Deerfield's I-1 Office, Research, Restrictive Industrial District and was developed as a Planned Unit Development. The campus is governed by a Sign Plan, the Village of Deerfield Zoning Ordinance, and other Village of Deerfield ordinances of general applicability. The following are key elements of those ordinances applicable to the subject application:

Ownership

TNREF III Parkway JV, LLC purchased Three, Six and Nine Parkway North on June 10, 2016. Colliers International has been retained as the management and leasing agent for these three properties.

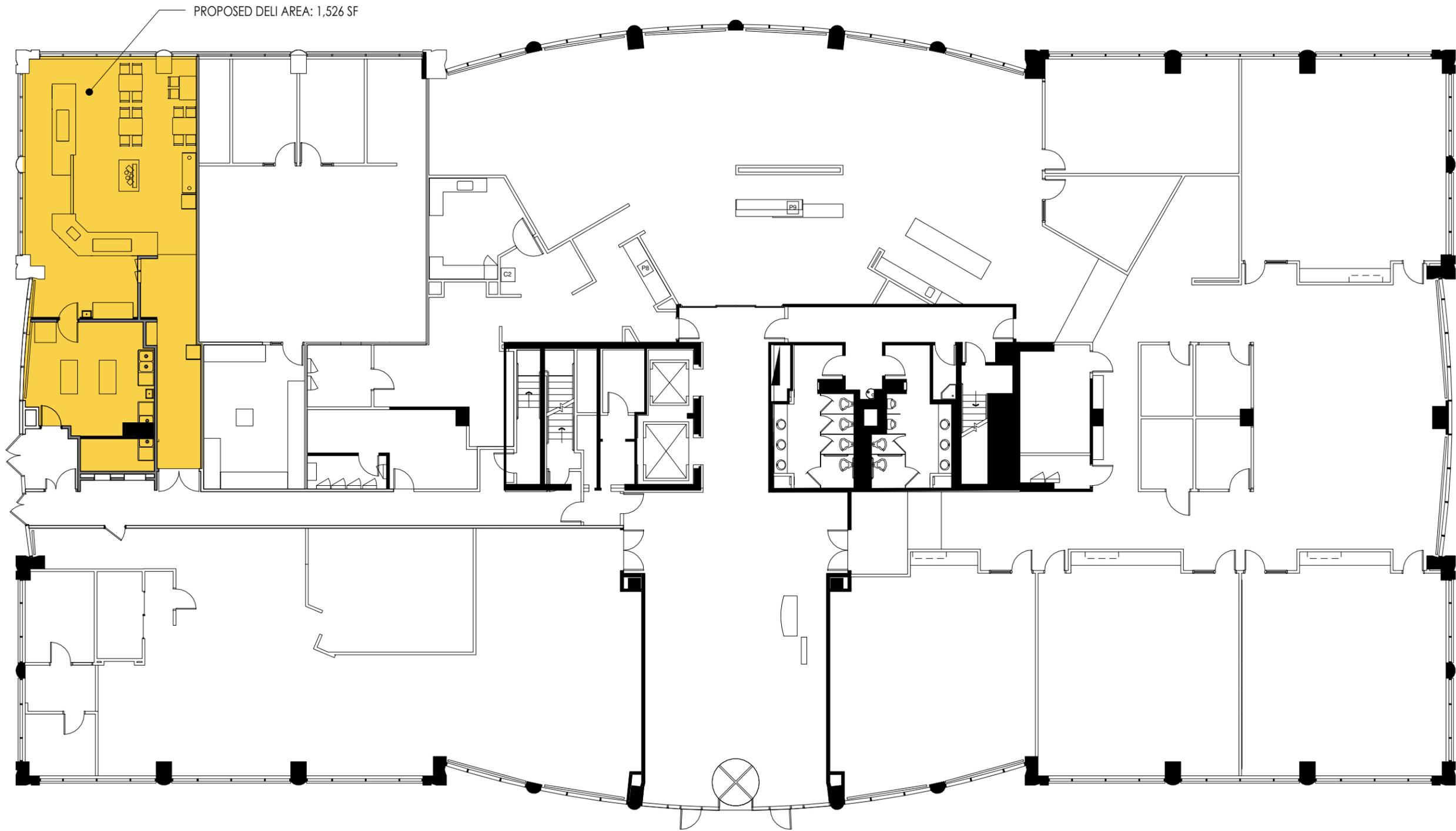
Current Request

Parkway North is recognized as one of the premier corporate office developments on the North Shore, with at least 11 companies having their corporate headquarters at the campus. Colliers International, as agent for the building owner, is pleased to present for approval the continued enhancement of Six Parkway North.

Café Use: Colliers International, on behalf of building owner, proposes to construct a 1,825 square foot café on the first floor of Six Parkway North. The café will serve breakfast and lunch and is anticipated to be primarily frequented by tenant employees.

The café will have a seating area accommodating approximately 12 people and be serviced by a kitchen which will include an oven exhausted out the west side of the building above the parking garage entrance. The exhaust vent, although visible from the exterior of the building, will not be unsightly. The café will be staffed with two employees.

The proposed café is anticipated to function and be operated in a similar manner to the café located at Nine Parkway North. The café will have no exterior signage.



PROPOSED DELI AREA: 1,526 SF

inter:work
architects

interwork architects incorporated
1200 shermer rd. northbrook, il 60062
t: 847.509.4070 f: 847.509.9604
www.interworkarchitects.com

OVERALL PLAN

PROJECT GRAB & GO DELI

ADDRESS SIX PARKWAY NORTH
DEERFIELD, ILLINOIS 60015

REV _____
PROJ NO 0120.006.015

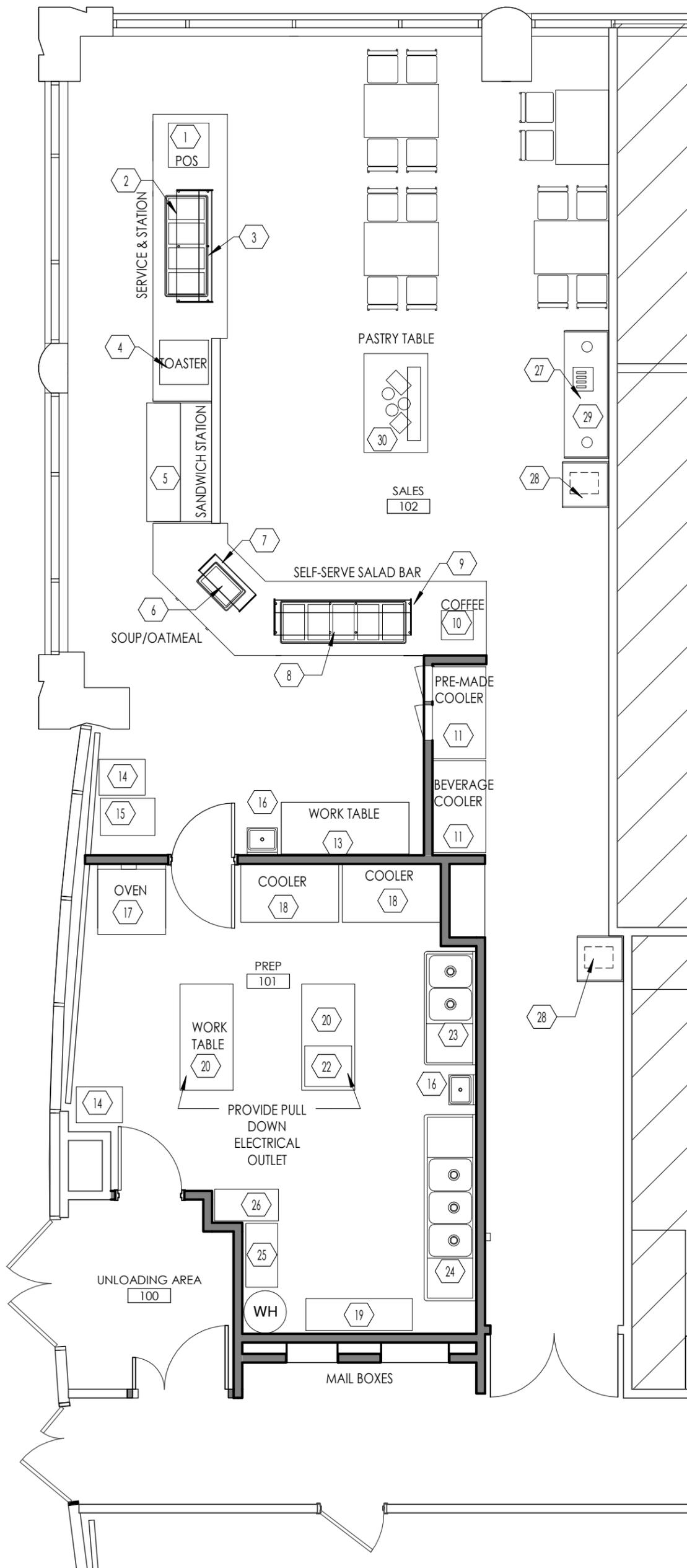
SCALE 1/16" = 1'-0"

AREA _____

DATE 08.31.16

SHEET SK-3





1

EQUIPMENT PLAN

3/16" = 1'-0"

EQUIPMENT PLAN

PROJECT GRAB & GO DELI
ADDRESS SIX PARKWAY NORTH
 DEERFIELD, ILLINOIS 60015

REV _____
PROJ NO 0120.006.015

SCALE 3/16" = 1'-0"
AREA _____
DATE 08.31.16
SHEET SK-1



#	Item	Qty	Manufacturer	New / Existing	Model	HP	Volt	Cycle	Phase	Amp	Watt	NEMA Config	Electrical Location	Plumbing	Note
1	POS - Register System	2					115	60	1	8.5		5-15P	12" AFF		Within base cabinet
2	Specials Station - 4 Pan Hot Well Drop In	1	Atlas Metal		WH-4		208	60	1	16.4		L6-30P	Inside cabinet 12" AFF		
3	Sneeze Guard for Above	1	Atlas Metal		AT7F-4										62 3/4" wide, Register side shielded
	Surface Mounnts	2	Atlas Metal												
4	Converyor Toaster	1	Amana		AXP22		208	60	1	13.5		6-30P	12" AFF		Within base cabinet
5	Salad & Sandwich Station - 5-Pan Cold Drop In	1	Norlake		NLPT67		115	60	1	27.4		5-15P	12" AFF		
6	1 Pan - Hot Well Drop In	1	Atlas Metal		WIH-1		120	60	1	8.3		5-15P	Inside cabinet 12" AFF		
7	SneezeGuard for Above	1	ADM SneezeGuard		ES31										30" wide
	Surface Mounnts	2	ADM SneezeGuard												Included
8	5 Pan - Cold Well Drop In	1	Atlas Metal		WCMD-5	1/3	120	60	1	9.8		5-15P	Inside cabinet 12" AFF		
9	Sneeze Guard for Above	1	Atlas Metal		AT7F-5										76 1/2" wide
	Surface Mounnts	3	Atlas Metal												Pay attention to mounting and required counter depth
10	Coffee Brewer	1	Curtis		D1000GT		220	60	1	23.2	5,100		Above counter	Cold Supply, Shiut off 1/4" flare	
11	2-Door Cooler - Glass Door	2	Norlake		NLGRP48-SL	1/4	115	60	1	5.8		5-15P	12" AFF		Glass Door
12	Intentionally Left Blank														
13	Stainless Steel Table - Backsplash	1	John Boos		ST6R5-3072SSK										30" x 72", Undershelf
14	Pan Rack	2	Advance Tabco		PR20-3W										
15	Warming Cabinet	1	Win-Holt		NHPL-1836-ECO		120	60	1	14.00		5-15P	12" AFF		Locking Casters
16	Hand Sink	2	John Boos		PBHS-W-1410-P-SSLR									Hot and Cold Supply, with shut offs, Drain	Splash guards both sides, Paddle handles
	Faucet for above	2													
17	Convection Oven	1	Blodgett		Mark V-100	1/2	208	60	3	31/29/29		Shut Off, Hard Wired			With Cooling rack stand
18	Reach-in Cooler - Solid Door	2	Norlake		NLR49-S	3/8	115	60	1	7.50		5-15P			
19	Dry Storage Shelving	1	Nexel		S1860EP										18" x 60"
20	Stainless Steel Table - NO Backsplash	2	John Boos		ST6-3060GSK										30" x 60", No Backsplash
21	Intentionally Left Blank														
22	Slicer	1	Berkel		829E-Plus	1/2	115	60	1	4.0		5-15P	May have to come ceiling with retractable cord		
23	2-Compartment Prep Sink	1	John Boos		2PB18244-1D24									Hot and Cold Supply, with shut offs, Drain	Right drain board
	Faucet and Lever Drains for Above														
24	3-Compartment Prep Sink	1	John Boos		3PB18244-2D24									Hot and Cold Supply, with shut offs, Drain	Right drain board
	Faucet, Pre-Rinse and Lever Drains for Above														
25	Storage Shelf	1	Nexel		S1836EP										18" x 36"
26	Storage Shelf - Chemicals	1	Nexel		S1836EP										18" x 36"
27	Toaster - Customer	1	Holman		T4		120	60	1	18.3		5-20P	12" AFF		
28	Trash Receptacles w/ Tray Drop	2	Millwork												Include trash can inserts
29	Condiment Station	1	Millwork												Should accommodate trash through slots in top
30	Pastry Table	1	By Foodservice Provider												
31	Tables														
32	Chairs														



INTERIOR ALTERATION FOR:

GRAB & GO DELI

SIX PARKWAY NORTH
DEERFIELD, ILLINOIS 60015

COLLIERS

THREE PARKWAY NORTH BLVD SUITE 11-150S
DEERFIELD, ILLINOIS 60015

INTERWORK ARCHITECTS INC.

1200 SHERMER ROAD SUITE 202
NORTHBROOK, ILLINOIS 60062

MCGUIRE ENGINEERS

300 S RIVERSIDE PLAZA, SUITE 2302
CHICAGO, ILLINOIS 60606

PROPERTY MANAGER

847.597.2350

ARCHITECT

847.509.4070

M/E/P/FP

312.876.9240

inter:work
architects

interwork architects incorporated
1200 shermer rd. northbrook, il 60062
t: 847-509-4070 f: 847-509-9604
www.interworkarchitects.com

INTERIOR ALTERATION FOR:

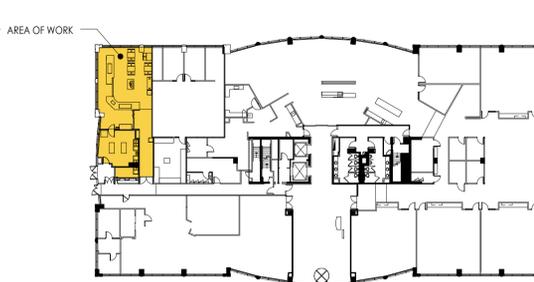
GRAB & GO DELI

SIX PARKWAY NORTH
DEERFIELD, ILLINOIS 60015

LOCATION MAP



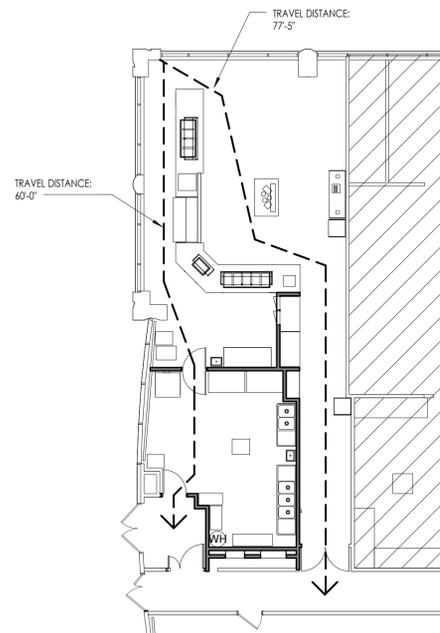
KEY MAP



EXISTING BUILDING SHELL HAS BEEN EXAMINED UNDER A SEPARATE REVIEW.
NO CHANGES ARE REQUIRED TO BUILDING COMMON ELEMENTS
INCLUDING TOILET ROOMS, DRINKING FOUNTAINS, SERVICE SINKS, STAIRS,
AND ELEVATORS.

GENERAL NOTES

- ALL WORK IS TO BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE LOCAL AND STATE CODES AND ORDINANCES. THE CONTRACTOR IS RESPONSIBLE FOR SECURING ALL REQUIRED PERMITS AND FEES.
- COORDINATE STORAGE OF MATERIALS AND EQUIPMENT WITH PROPERTY MANAGER. CONTRACTOR IS SOLELY RESPONSIBLE FOR MATERIALS AND EQUIPMENT STORED ON SITE. OWNER ASSUMES NO RESPONSIBILITY FOR STORED MATERIALS AND EQUIPMENT.
- NO CONTRACTOR SHALL DAMAGE OR WEAKEN THE STRUCTURAL INTEGRITY OF THE BUILDING.
- DO NOT SCALE DRAWINGS - DIMENSIONS GOVERN.
- THE WORK INCLUDES THE FURNISHINGS OF ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR AND REASONABLY INCIDENTAL TO THE COMPLETION OF THE WORK AS ILLUSTRATED AND DESCRIBED IN THE PLANS AS PREPARED BY THE ARCHITECT. ALL SUCH WORK IS TO BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR UNLESS OTHERWISE NOTED.
- ALL CONTRACTORS ARE TO BECOME FAMILIAR WITH SITE CONDITIONS AND BASE BUILDING CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES OR BE RESPONSIBLE FOR THE SAME.
- SUBCONTRACTORS ARE REQUIRED TO REVIEW THE ENTIRE SET OF CONTRACT DOCUMENTS TO VERIFY AREAS OF WORK OF THEIR TRADE ON SHEETS TRADITIONALLY INDICATING WORK OF OTHER TRADES. THE ARCHITECT IS TO BE NOTIFIED IN WRITING OF THE DISCREPANCY AND WILL COORDINATE DESIGN WORK OF THESE ITEMS. HOWEVER, THE SUBCONTRACTOR IS STILL RESPONSIBLE FOR IDENTIFYING AND INCLUDING THIS WORK IN HIS/HER CONTRACT.
- GENERAL CONTRACTOR SHALL VERIFY AND ENSURE THAT ALL EXIT EGRESS IS MAINTAINED THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL PERFORM THE WORK IN A MANNER THAT ALLOWS ANY OPERATING FACILITY TO MAINTAIN A 100% LEVEL OF OPERATION AND CLEANLINESS.
- ALL CONTRACTORS SHALL TAKE OUT ALL NECESSARY INSURANCE TO INDEMNIFY AND HOLD HARMLESS THE OWNER, ARCHITECT AND THEIR AGENTS THEREOF FROM ANY DAMAGES RESULTING FROM CONTRACTORS EXECUTION OF WORK. INTERWORK ARCHITECTS, INC. SHALL BE LISTED AS ADDITIONAL INSURED ON ALL CONTRACTOR POLICIES.
- THE ARCHITECT IS NOT RESPONSIBLE FOR CONSTRUCTION, METHODS AND MATERIALS.
- CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL ITEMS SO INDICATED. PATCH AND REPAIR ANY DAMAGE TO WALLS, FLOORS, CEILINGS, ETC. INCURRED DURING DEMOLITION AND CONSTRUCTION.
- CONTRACTOR(S) SHALL ADEQUATELY PROTECT PERSONS AND PROPERTY FROM DAMAGE AND DIRT CAUSED BY THEIR OPERATIONS. EACH CONTRACTOR SHALL CLEAN, REPAIR OR REPLACE SAID PROPERTY PROMPTLY AT NO COST TO OWNER.
- CONTRACTOR SHALL MAINTAIN ALL PUBLIC AND PRIVATE STREETS, DRIVEWAYS, ADJOINING PROPERTIES AND BUILDING ENTRANCES FREE FROM INTERRUPTION OR DISRUPTION BY CONSTRUCTION OPERATIONS OR MATERIALS. ANY REQUIRED DISRUPTION SHALL BE PREARRANGED WITH ALL NECESSARY AUTHORITIES AND PARTIES. ROADWAYS AND DRIVES SHALL BE CLEANED IMMEDIATELY OF CONSTRUCTION DEBRIS AND RESIDUE. CONTRACTOR(S) SHALL THOROUGHLY CLEAN THE WORK AREAS UPON COMPLETION OF THE WORK.
- PROVIDE SUBMITTALS FOR ALL EQUIPMENT, FIXTURES AND FABRICATIONS FOR REVIEW. PROVIDE (3) COPIES AND (1) REPRODUCIBLE COPY OF SHOP DRAWINGS. PROVIDE (3) PIECES OF ANY SAMPLE SUBMITTED. WHERE COLOR SELECTIONS ARE REQUIRED, PROVIDE MANUFACTURER'S INFORMATION / SAMPLES FOR SELECTION.



EGRESS PLAN
3/32" = 1'-0"

CODE REQUIREMENTS

TENANT SPACE USE GROUP	B-BUSINESS
EXISTING CONSTRUCTION TYPE	TYPE IIC
AREA OF TENANT SPACE	1,526 SF
OCCUPANT LOAD	15 PERSONS (1 PERSON / 100 SF)
SPRINKLER SYSTEM	BUILDING IS FULLY EQUIPPED W/ AN APPROVED AUTOMATIC SPRINKLER SYSTEM.

BUILDING CODES

INTERNATIONAL BUILDING CODE 2012 (WITH AMENDMENTS)
INTERNATIONAL MECHANICAL CODE 2012 (WITH AMENDMENTS)
NATIONAL ELECTRIC CODE (NEC) 2011 (WITH AMENDMENTS)
STATE OF ILLINOIS PLUMBING CODE (LATEST EDITION) (WITH AMENDMENTS)
INTERNATIONAL ENERGY CONSERVATION CODE 2015

FIRE PREVENTION CODES

2012 INTERNATIONAL FIRE CODE
LIFE SAFETY CODES INCORPORATED IN ALL OTHER CODES

ACCESSIBILITY CODES

AMERICANS WITH DISABILITIES ACT GUIDELINE
ILLINOIS ACCESSIBILITY CODE, 5TH PRINTING

MEANS OF EGRESS

EXIT ACCESS TRAVEL DISTANCE	77'-5" FT
NUMBER OF EXITS REQUIRED	2
NUMBER OF EXITS PROVIDED	2

INDEX OF DRAWINGS

A-0.1	TITLE
A-0.2	GENERAL NOTES
A-1	DEMOLITION, CONSTRUCTION, & REFLECTED CEILING PLANS
A-2	EQUIPMENT PLAN & INTERIOR ELEVATIONS
A-3	DOOR SCHEDULES & PARTITION TYPES
A-4	MILLWORK DETAILS & FINISH PLAN
P-1	PLUMBING SPECIFICATIONS
P-2	PARTIAL 1ST FLOOR PLUMBING PLAN
P-2B	PARTIAL BASEMENT - PLUMBING PLAN
P-3	PLUMBING SCHEDULES, DIAGRAMS AND DETAILS
M-1.0	MECHANICAL NOTES
M-1.1	MECHANICAL NOTES
M-2	PARTIAL 1ST FLOOR MECHANICAL PLAN
M-3	MECHANICAL DETAILS AND SCHEDULES
FP-1	FIRE PROTECTION SPECIFICATIONS & DETAILS
FP-2	PARTIAL 1ST FLOOR FIRE PROTECTION PLAN
E-1	ELECTRICAL SYMBOLS & SPECIFICATIONS
E-1.1	ELECTRICAL SYMBOLS & SPECIFICATIONS
E-2	PARTIAL 1ST FLOOR ELECTRICAL LIGHTING PLAN
E-3	PARTIAL 1ST FLOOR ELECTRICAL POWER PLAN
E-3B	PARTIAL BASEMENT - ELECTRICAL POWER PLAN
E-4	ELECTRICAL RISER DIAGRAMS AND PANEL SCHEDULE

CERTIFICATION

I HEREBY CERTIFY THAT THESE DRAWINGS WERE PREPARED UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY KNOWLEDGE COMPLY WITH ALL CODES AND ORDINANCES OF VILLAGE OF DEERFIELD



RICHARD GORDON
ILLINOIS LICENSE NO. 001-011976
EXPIRES 11-2016

INTERWORK ARCHITECTS INCORPORATED
DESIGN FIRM REGISTRATION # 184-002131

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No.	Description	Date
1	ISSUE FOR PERMIT	07.05.16

Project No: **0120.006.015**

Sheet Title:

TITLE

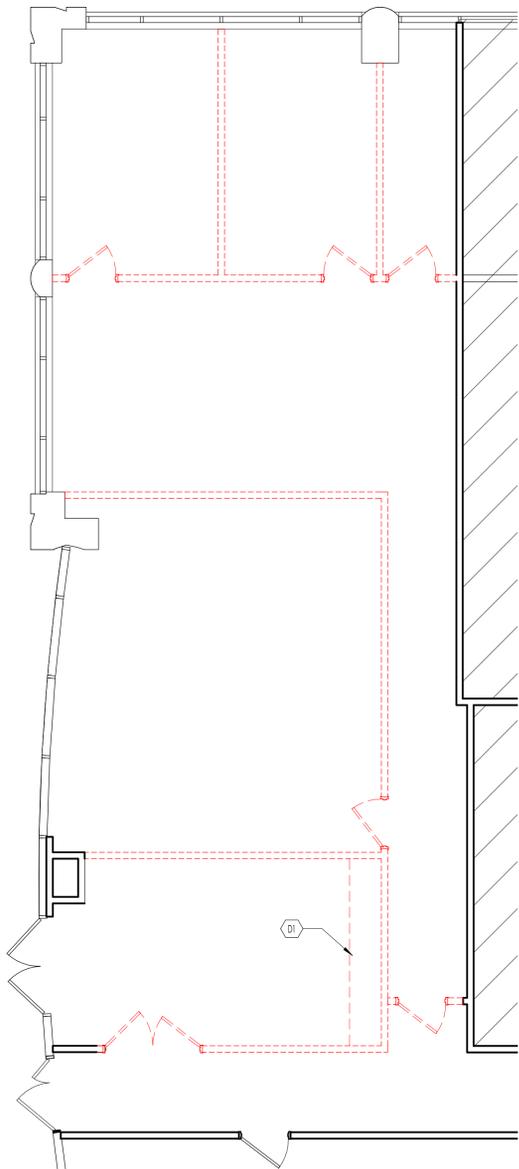
Sheet No:

A-0.1

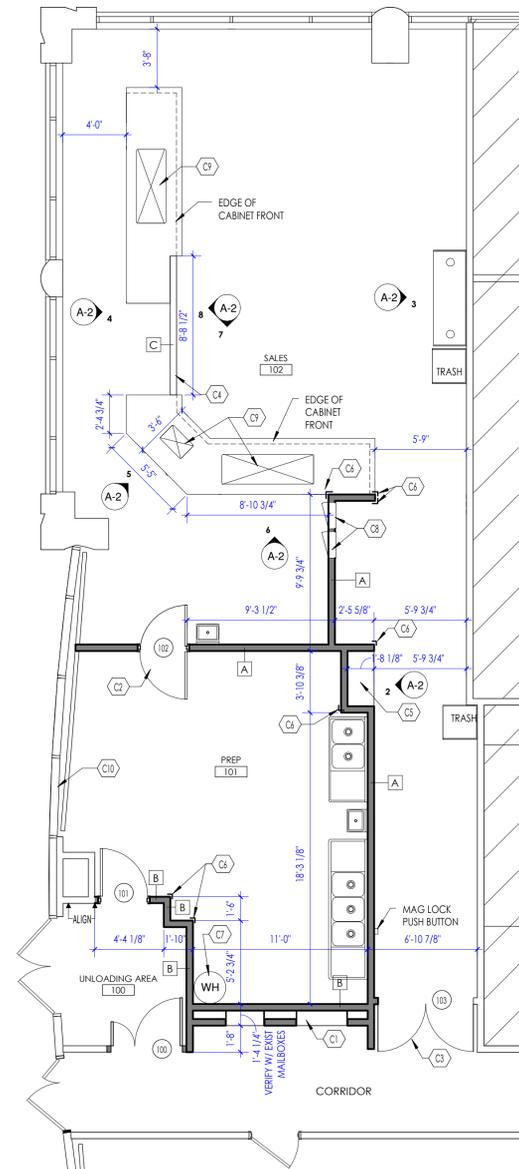


GRAB & GO DELI

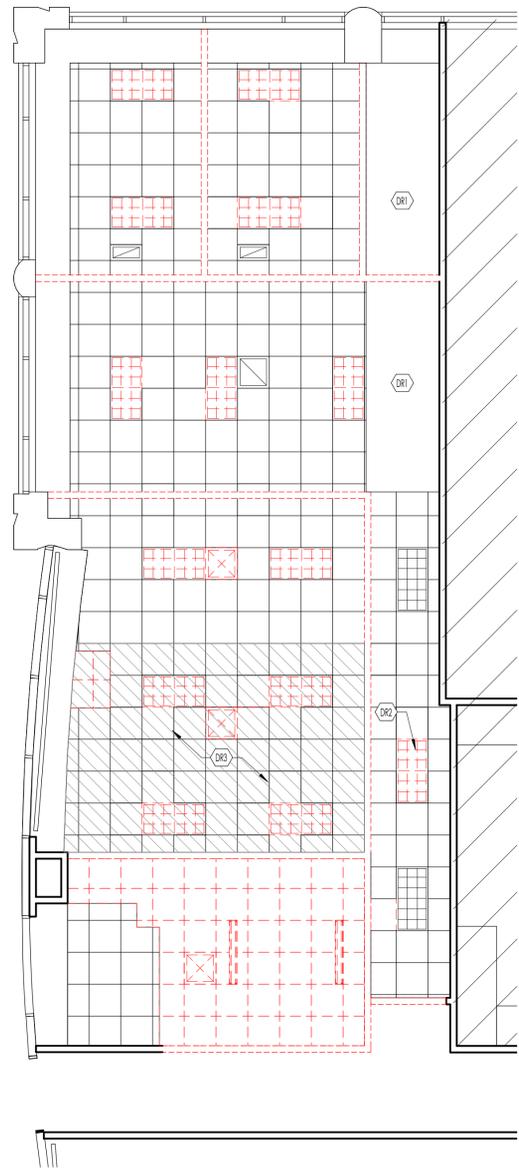
SIX PARKWAY NORTH
DEERFIELD, ILLINOIS 60015



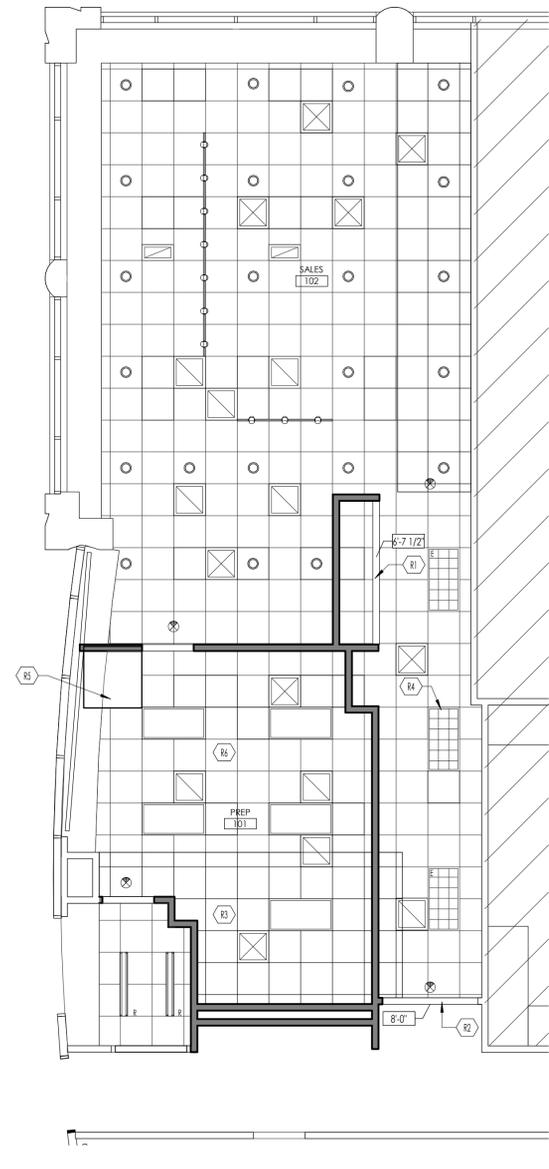
1 DEMOLITION PLAN
3/16" = 1'-0"



2 CONSTRUCTION PLAN
3/16" = 1'-0"



3 DEMO REFLECTED CEILING PLAN
3/16" = 1'-0"



4 REFLECTED CEILING PLAN
3/16" = 1'-0"

SHEET GENERAL NOTES

- REMOVE ALL EXISTING FLOOR FINISHES. REMOVE ALL REMAINING ADHESIVES, UNDERLAYMENT, TACK STRIPS, ETC. PATCH FLOOR LEVEL & SMOOTH TO ACCEPT NEW FINISHES.
- EXISTING BLINDS TO REMAIN.

DEMO PLAN KEYED NOTES

D1	REMOVE AND SAVE 1 BANK OF MAIL BOXES AND OUTGOING MAIL BOX FOR RELOCATION.
----	--

CONSTRUCTION PLAN GENERAL NOTES

- ALL NEW PARTITIONS ARE TYPE A U.N.O.
- ALL KITCHEN EQUIPMENT TO BE PROVIDED BY TENANT.

CONSTRUCTION PLAN KEYED NOTES

C1	RELOCATED MAIL BOXES.
C2	NEW SWINGING DOOR. SEE DOOR SCHEDULE.
C3	NEW HERCULITE DOOR. SEE DOOR SCHEDULE.
C4	NEW PARTIAL HEIGHT WALL AT 56" AFF.
C5	NEW COUNTERTOP AND BASE CABINET. SEE ELEVATION.
C6	G.C. TO PROVIDE CORNER GUARDS AT ALL CORNERS IN KITCHEN & SERVARY AREAS. WHERE FRP IS THE FINISH MATERIAL. PROVIDE MATCHING FULL-HEIGHT CORNER GUARDS. WHERE FRP IS NOT SPECIFIED, PROVIDE CLEAR PLASTIC CORNER GUARDS TO 48" AFF.
C7	NEW WATER HEATER. SEE PLUMB DRAWINGS.
C8	NEW ELECTRICAL PANELS. SEE ELEC DRAWINGS.
C9	OPENING FOR DROP IN EQUIP. SEE MFR DIMENSIONS.
C10	REMOVE EXISTING GLAZING. PROVIDE NEW HORIZONTAL MULLION FOR NEW EXHAUST GRILLE. (SEE MECH DRAWINGS.) INSTALL NEW GLAZING, TO MATCH EXISTING BELOW.

DEMO REFLECTED CEILING PLAN GENERAL NOTES

- EXISTING PERIMETER SOFFIT AND BASE BLDG. SLOT DIFFUSERS TO REMAIN THROUGHOUT.
- EXISTING CEILING GRID AND ACOUSTIC TILE TO REMAIN U.N.O.
- PATCH OR REPLACE CEILING TILES AS REQUIRED.

DEMO REFLECTED CEILING PLAN KEYED NOTES

DR1	PATCH CEILING GRID IN THIS AREA.
DR2	SAVE LIGHT FIXTURE FOR RELOCATION.
DR3	REMOVE CEILING TILES. EXISTING GRID TO REMAIN.

REFLECTED CEILING PLAN GENERAL NOTES

- SEE ELECTRICAL & MECHANICAL DRAWINGS FOR SPECIFICATIONS.
- SEE FIRE PROTECTION DRAWINGS FOR SPRINKLER HEAD LOCATIONS.

REFLECTED CEILING PLAN KEYED NOTES

R1	SOFFIT @ 6'-7 1/2". COORDINATE HEIGHT WITH EQUIPMENT.
R2	SOFFIT @ 8'-0" AFF.
R3	NEW CEILING GRID TO MATCH EXISTING IN THIS AREA. NEW PRISMATIC 2X4 LIGHT FIXTURES.
R4	RELOCATED LIGHT FIXTURE.
R5	NEW TYPE 2 HOOD. SEE MECH DRAWINGS.
R6	NEW ARMSTRONG DUNE TILE IN EXISTING GRID IN PREP 101.

ABBREVIATIONS

- N NEW
- E EXISTING TO REMAIN
- R RELOCATED
- D TO BE DEMOLISHED
- T TEMPORARY

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No.	ISSUE FOR PERMIT	Description	Date
1	ISSUE FOR PERMIT		07.05.16

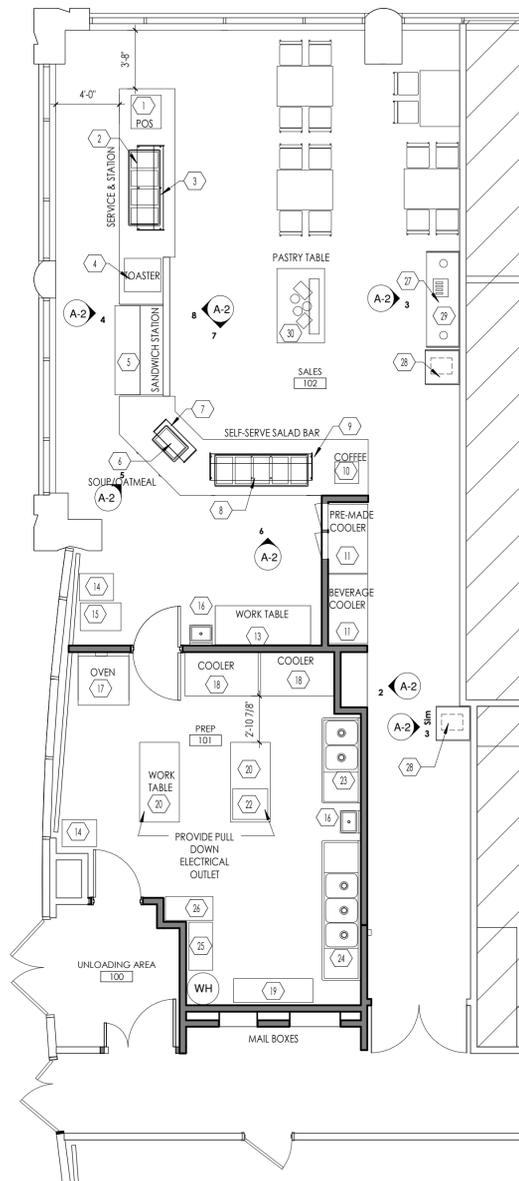
Project No: **0120.006.015**

Sheet Title:

DEMOLITION, CONSTRUCTION, & REFLECTED CEILING PLANS

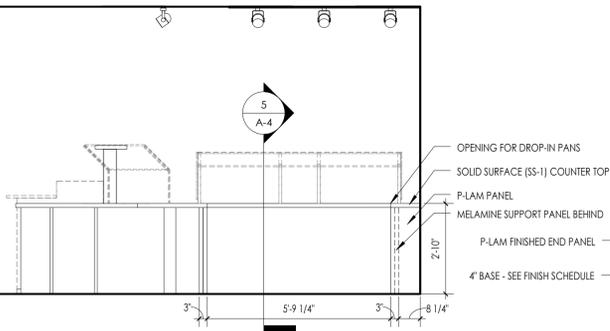
Sheet No:



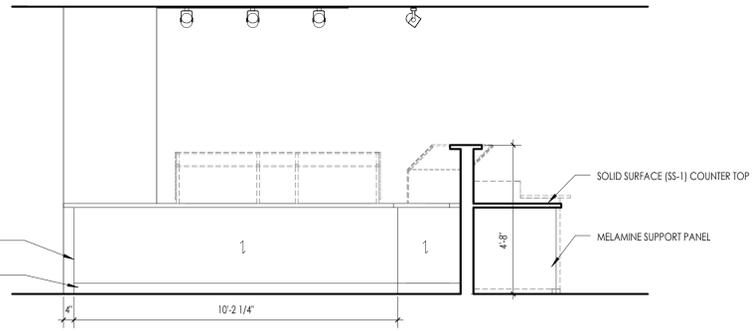


#	Item	Qty	Manufacturer	New / Existing	Model	HP	Volt	Cycle	Phase	Amp	Watt	NEMA Config	Electrical Location	Plumbing	Note	
1	POS - Register System	2						115	60	1	8.5		12" AFF		Within base cabinet	
2	Specialty Station - 4 Pan Hot Well Drop In	1	Atlas Metal		WH4			208	60	1	15.4		5-15P			
3	Sneeze Guard for Above	1	Atlas Metal		AT7F-4										62 3/4" wide, Register side shielded	
	Surface Mounts	2	Atlas Metal													
4	Conveyor Toaster	1	Amana		AXP22			208	60	1	13.5		6-30P		12" AFF	
5	Salad & Sandwich Station - 5-Pan Cold Drop In	1	Norlake		NLPT67			115	60	1	27.4		5-15P		12" AFF	
6	1 Pan - Hot Well Drop In	1	Atlas Metal		WH4-1			120	60	1	8.3		5-15P		Inside cabinet 12" AFF	
7	Sneeze Guard for Above	1	ADM SneezeGuard		ES31										30" wide	
	Surface Mounts	2	ADM SneezeGuard												Included	
8	5 Pan - Cold Well Drop In	1	Atlas Metal		WCMD-5			1/3	120	60	1	9.8		5-15P	Inside cabinet 12" AFF	
9	Sneeze Guard for Above	1	Atlas Metal		AT7F-5										76 3/4" wide	
	Surface Mounts	3	Atlas Metal												Pay attention to mounting and required counter depth	
10	Coffee Brewer	1	Curtis		D1000GT			220	60	1	23.2	5.100		Above counter	Cold Supply, Shut off 1/4" flare	
11	2-Door Cooler - Glass Door	2	Norlake		NLGRP48-SL			114	115	60	1	5.8		5-15P	12" AFF	Glass Door
12	Intentionally Left Blank															
13	Stainless Steel Table - Backsplash	1	John Boos		STERS-3072SSK										30" x 72", Undershelf	
14	Pan Rack	2	Advance Tabco		PR20-3W											
15	Warming Cabinet	1	Win-Holt		NHPL-1836-ECO			120	60	1	14.00		5-15P	12" AFF	Locking Casters	
16	Hand Sink	2	John Boos		PBHS-W-1410-P-SSLR									Hot and Cold Supply, with shut offs, Drain	Spash guards both sides, Paddle handles	
	Faucet for above	2														
17	Convection Oven	1	Blodgett		Mark V-100			1/2	208	60	3	3129/29		Shut Off Hard Wired	With Cooling rack stand	
18	Reach-in Cooler - Solid Door	2	Norlake		NLR48-S			3/8	115	60	1	7.50		5-15P		
19	Dry Storage Shelving	1	Nexel		S1866EP										18" x 69"	
20	Stainless Steel Table - NO Backsplash	2	John Boos		STG-3660GSK										30" x 60", No Backsplash	
21	Intentionally Left Blank															
22	Slicer	1	Berkel		829E-Plus			1/2	115	60	1	4.0		5-15P	May have to come ceiling with retractable cord	
23	2-Compartment Prep Sink	1	John Boos		2PB18244-1024									Hot and Cold Supply, with shut offs, Drain	Right drain board	
	Faucet and Lever Drains for Above	2														
24	3-Compartment Prep Sink	1	John Boos		3PB18244-2024									Hot and Cold Supply, with shut offs, Drain	Right drain board	
	Faucet, Pre-Rinse and Lever Drains for Above	3														
25	Storage Shelf	1	Nexel		S1836EP										18" x 36"	
26	Storage Shelf - Chemicals	1	Nexel		S1836EP										18" x 36"	
27	Toaster - Customer	1	Holman		T4			120	60	1	18.3		5-20P	12" AFF		
28	Trash Receptacles w/ Tray Drop	2	Milwork												Include trash can inserts	
29	Condiment Station	1	Milwork												Should accommodate trash through slots in top	
30	Pastry Table	1	By Foodservice Provider													
31	Tables															
32	Chairs															

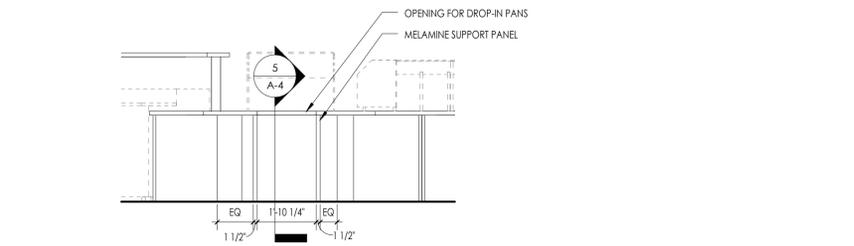
1 EQUIPMENT PLAN
3/16" = 1'-0"



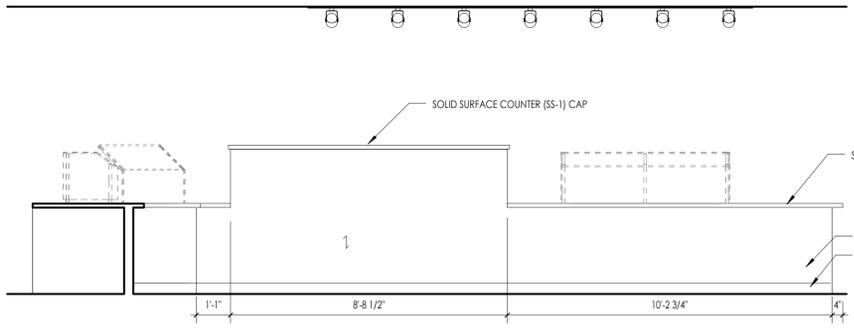
6 SALES 102 - NORTH
3/8" = 1'-0"



7 SALES 102 - SOUTH
3/8" = 1'-0"

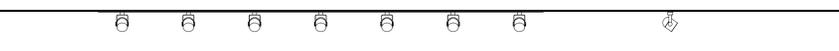


5 SALES 102 - NORTHEAST
3/8" = 1'-0"

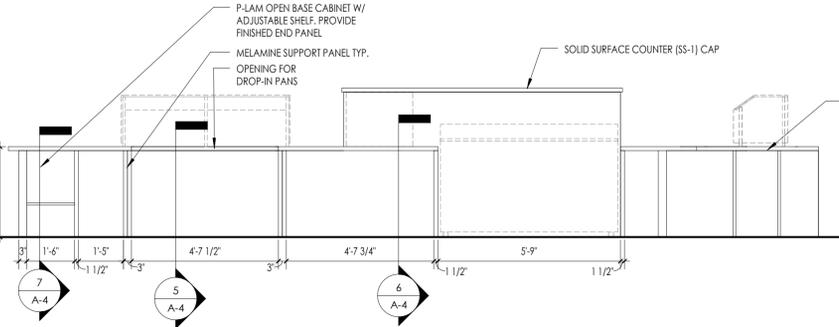


8 SALES 102 - WEST
3/8" = 1'-0"

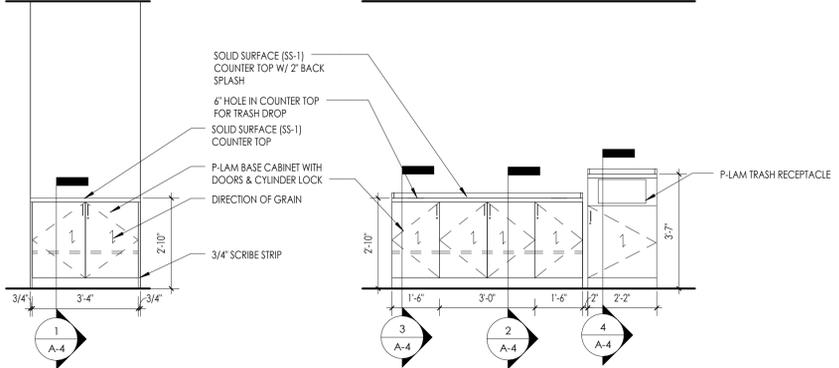
2 SHELVING UNIT
3/8" = 1'-0"



3 CONDIMENT STATION & TRASH
3/8" = 1'-0"



4 SALES 102 - EAST
3/8" = 1'-0"



No.	ISSUE FOR PERMIT	Description	Date
1	ISSUE FOR PERMIT		07.05.16

Project No: **0120.006.015**

Sheet Title:

EQUIPMENT PLAN & INTERIOR ELEVATIONS

Sheet No:

N:\2016\1020\1020_Parkway\1020_Parkway.dwg 07/05/16 11:52:58 AM 7/7/2016 11:52:58 AM
D:\1020\1020_Parkway\1020_Parkway.dwg 07/05/16 11:52:58 AM

REQUEST FOR BOARD ACTION

16-106

Agenda Item: _____

Subject: Report and Recommendation of Staff re: Increasing the Number of Class C Liquor Licenses

from Seven (7) to Eight (8) for Portillo's

Action Requested: _____
Acceptance of Report

Petitioner

Originated By: _____
Mayor and Board of Trustees

Referred To: _____

Summary of Background and Reason for Request

Portillo's has requested a Class C liquor license to serve beer and wine only to patrons at their new location on Lake Cook Road.

A representative from Portillo's will be present to answer questions from the Board.

Reports and Documents Attached:

Letter from Police Chief Sliozis
Ordinance

Date Referred to Board: _____
October 4, 2016

Action Taken: _____



DEERFIELD POLICE DEPARTMENT

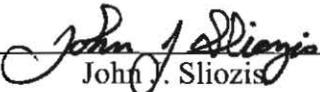


DATE: September 26, 2016
TO: Kent Street, Village Manager
FROM: Chief John Sliozis
CC: Andrew Lichterman,
SUBJECT: Liquor License Applicant: Portillo's Hot Dogs, LLC

Staff has completed the background investigation for liquor license applicant Portillo's Hot Dogs, LLC, doing business as Portillo's Hot Dogs, at 700 Lake Cook Road, Deerfield, Illinois.

Nothing was found that would preclude Portillo's Hot Dogs, LLC from holding a liquor license and conducting business in the Village of Deerfield. If any information is revealed to change the status you will be notified immediately.

A complete copy of the report is available for review upon request.


John J. Sliozis
Chief of Police

JJS/vm

**VILLAGE OF DEERFIELD
LAKE AND COOK COUNTIES, ILLINOIS**

ORDINANCE NO. O-16

**AN ORDINANCE AMENDING CHAPTER 3 OF THE
MUNICIPAL CODE OF THE VILLAGE OF DEERFIELD OF 1975 TO
INCREASE THE NUMBER OF AUTHORIZED CLASS C LIQUOR LICENSES
FROM SEVEN (7) TO EIGHT (8)**

**PASSED AND APPROVED BY THE
PRESIDENT AND BOARD OF TRUSTEES
OF THE VILLAGE OF DEERFIELD, LAKE
AND COOK COUNTIES, ILLINOIS, this
_____ day of _____, 2016.**

**Published in pamphlet form
by authority of the President
and Board of Trustees of the
Village of Deerfield, Lake and
Cook Counties, Illinois, this
_____ day of _____, 2016.**

**VILLAGE OF DEERFIELD
LAKE AND COOK COUNTIES, ILLINOIS**

ORDINANCE NO. O-16

**AN ORDINANCE AMENDING CHAPTER 3 OF THE
MUNICIPAL CODE OF THE VILLAGE OF DEERFIELD OF 1975 TO
INCREASE THE NUMBER OF AUTHORIZED CLASS C LIQUOR LICENSES
FROM SEVEN (7) TO EIGHT (8)**

BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF DEERFIELD, LAKE AND COOK COUNTIES, ILLINOIS, AS FOLLOWS:

SECTION 1: That Section 3-9 (Number of Licenses) of Chapter 3 (Alcoholic Beverages) of the Municipal Code of the Village of Deerfield of 1975, as amended, is hereby further amended by striking said Section in its entirety and substituting in lieu thereof the following:

Sec. 3-9. Number of Licenses.

There shall be issued in the Village no more than:

(a)	Class A	Three (3)
(b)	Class B	One (1)
(c)	Class BB	One (1)
(d)	Class C	Eight (8)
(e)	Class D	Two (2)
(f)	Class D-1	Zero (0)
(g)	Class D-2	Zero (0)
(h)	Class E	Thirteen (14)
(i)	Class F	Zero (0)
(j)	Class G	Four (4)
(k)	Class H	None (0)
(l)	Class I	Two (2)
(m)	Class J	Zero (0)
(n)	Class K	One (1)
(o)	Class L	Zero (0)
(p)	Class M	Three (3)
(q)	Class N	One (1)
(r)	Class O	One (1)

SECTION 2: That the Village Clerk is hereby directed to publish this Ordinance in pamphlet form.

SECTION 3: That all ordinances or parts of ordinances in conflict herewith are, to the extent of such conflict, hereby repealed.

SECTION 4: That this Ordinance shall be in full force and effect from and after its passage, approval and publication in pamphlet form as provided by law.

PASSED this _____ day of _____, 2016.

AYES:

NAYS:

ABSENT:

ABSTAIN:

APPROVED this _____ day of _____, 2016.

Village President

ATTEST:

Village Clerk

REQUEST FOR BOARD ACTION

16-97-R

Agenda Item: _____

Subject: Ordinance Changing the Name of the Manpower Commission to the Volunteer Engagement

Commission - 1R

First Reading

Action Requested:

Manpower Commission

Originated By:

Mayor and Board of Trustees

Referred To:

Summary of Background and Reason for Request

The Manpower Commission has requested to change and updated their official name to one that better represents what they do. The Commission is requesting to be called the Volunteer Engagement Commission. The new name would reflect their work in recruiting, interviewing and finding meaningful volunteer positions and opportunities for residents that are mutually beneficial to the Village and the volunteers.

A report and recommendation was approved September 19.

Reports and Documents Attached:

October 4, 2016

Date Referred to Board: _____

Action Taken: _____

**VILLAGE OF DEERFIELD
LAKE AND COOK COUNTIES, ILLINOIS**

ORDINANCE NO. O-16

**AN ORDINANCE AMENDING CHAPTER 1, SECTIONS 2-156 AND 2-158 OF THE
MUNICIPAL CODE OF THE VILLAGE OF DEERFIELD OF 1975 TO
CHANGE THE NAME OF THE MANPOWER COMMISSION TO THE VOLUNTEER
ENGAGEMENT COMMISSION**

**PASSED AND APPROVED BY THE
PRESIDENT AND BOARD OF TRUSTEES
OF THE VILLAGE OF DEERFIELD, LAKE
AND COOK COUNTIES, ILLINOIS, this
_____ day of _____, 2016.**

**Published in pamphlet form
by authority of the President
and Board of Trustees of the
Village of Deerfield, Lake and
Cook Counties, Illinois, this
_____ day of _____, 2016.**

**VILLAGE OF DEERFIELD
LAKE AND COOK COUNTIES, ILLINOIS**

ORDINANCE NO. O-16

**AN ORDINANCE AMENDING CHAPTER 1, SECTIONS 2-156 AND 2-158 OF THE
MUNICIPAL CODE OF THE VILLAGE OF DEERFIELD OF 1975 TO
CHANGE THE NAME OF THE MANPOWER COMMISSION TO THE VOLUNTEER
ENGAGEMENT COMMISSION**

BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE
VILLAGE OF DEERFIELD, LAKE AND COOK COUNTIES, ILLINOIS, AS FOLLOWS:

SECTION 1: That Section 2-156 (Establishment; Number of Members) and Section 2-158 (Duties and Functions) of Chapter 1 (General Provisions) of the Municipal Code of the Village of Deerfield of 1975, as amended, is hereby further amended by replacing all instances of “Manpower Commission” with “Volunteer Engagement Commission.”

SECTION 2: That the Village Clerk is hereby directed to publish this Ordinance in pamphlet form.

SECTION 3: That all ordinances or parts of ordinances in conflict herewith are, to the extent of such conflict, hereby repealed.

SECTION 4: That this Ordinance shall be in full force and effect from and after its passage, approval and publication in pamphlet form as provided by law.

PASSED this _____ day of _____, 2016.

AYES:

NAYS:

ABSENT:

ABSTAIN:

APPROVED this _____ day of _____, 2016.

Village President

ATTEST:

Village Clerk

REQUEST FOR BOARD ACTION

Agenda Item: 16-96

Subject Ordinance Approving the Northwest Quadrant Master Plan as an Amendment to the Comprehensive Plan for the Village of Deerfield

Action Requested: First Reading

Originated By: Mayor and Board of Trustees

Referred To: Village Attorney

Summary of Background and Reason for Request

On September 6, 2016 the Mayor and Board accepted the recommendation to amend the Comprehensive Plan concerning the Northwest Quadrant of the Village Center. Included in the recommendation, was recognition that the NWQ Stakeholder Working Group 7/26/16 report provisions would be applied to the southeast corner of the Northwest Quadrant. The attached ordinance was prepared accordingly.

The Village Manager will be available to review this matter and respond to questions from the Mayor and Board of Trustees.

Reports and Documents Attached:
Copy of Ordinance

Date Referred to Board: October 4, 2016

Action Taken: _____

**VILLAGE OF DEERFIELD
LAKE AND COOK COUNTIES, ILLINOIS**

ORDINANCE NO. _____

**AN ORDINANCE APPROVING THE NORTHWEST QUADRANT
MASTER PLAN AS AN AMENDMENT TO THE COMPREHENSIVE
PLAN OF THE VILLAGE OF DEERFIELD**

WHEREAS, the current Comprehensive Plan for the Village of Deerfield was adopted on October 4, 2004, and has been amended from time to time thereafter (as amended, the “Comprehensive Plan”); and

WHEREAS, the President and Board of Trustees of the Village of Deerfield appointed the Northwest Quadrant United Task Force in 2013 to create a master plan for the northwest quadrant of the Village Center as defined in the Comprehensive Plan; and

WHEREAS, the Northwest Quadrant Task Force included representatives of all major stakeholders in the northwest quadrant of the Village Center planning; and

WHEREAS, the Northwest Quadrant Task Force submitted its report and recommendation to the Village Board of Trustees on August 5, 2013; and

WHEREAS, the corporate authorities of the Village of Deerfield accepted the Task Force report and directed Village staff to continue Northwest Quadrant Master Plan discussions with impacted stakeholders in the northwest quadrant; and

WHEREAS, the Plan Commission of the Village of Deerfield conducted a public hearing on January 28, 2016, to consider an amendment to Section 4.1 of the Comprehensive Plan consisting of a Northwest Quadrant Master Plan (Preferred Plan D and Interim Plan D1), and certain alternative parking study plans; and

WHEREAS, the Plan Commission of the Village of Deerfield has submitted its report and recommendation to the corporate authorities of the Village of Deerfield that the Northwest Quadrant Master Plan (Preferred Plan D and Interim Plan D1) and certain alternative parking study plans attached hereto as Appendix A to this Ordinance (collectively, the “Northwest Quadrant Plan”) be adopted as an amendment to Section 4.1 (“Village Center Subarea”) of Article 4 (“Subareas”) the Comprehensive Plan, with the proviso that the southeast corner of the northwest quadrant as depicted in the Northwest Quadrant Plan shall not be considered conceptually preferred as of this time and recognize the General and Specific Provisions of the Northwest Quadrant Stakeholder Working Group 7/26/16 Report attached as Appendix B to this Ordinance should be applied to the southeast corner of the northwest quadrant; and

WHEREAS, the corporate authorities of the Village of Deerfield concur in the recommendations of the Plan Commission and have determined that it is in the best interests of the Village of Deerfield that the Northwest Quadrant Plan attached hereto be approved as an amendment to the Comprehensive Plan, with the recognition that areas of concern remain with respect to the southeast corner of the northwest quadrant as depicted in the Northwest Quadrant Plan, specifically that traffic movement and parking within that part of the northwest quadrant area need to be further addressed and specified in future Northwest Quadrant Master Plan amendments and/or in future development plans for land in the southeast corner of the northwest quadrant;

NOW, THEREFORE, BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF DEERFIELD, LAKE AND COOK COUNTIES, ILLINOIS, in the exercise of its home rule powers, as follows:

SECTION 1: That the above and foregoing Recitals, being material to this Ordinance, are hereby incorporated and made a part of this Ordinance as if fully set forth herein.

SECTION 2: That the Northwest Quadrant Plan attached as Appendix A to this Ordinance be and the same is hereby approved as an amendment to the Comprehensive Plan of the Village of Deerfield.

SECTION 3: That Section 4.1 (“Village Center Subarea”) of Article 4 (“Subareas”) of the Comprehensive Plan of the Village of Deerfield be and the same is hereby amended to add the Northwest Quadrant Master Plan (Preferred Plan D and Interim Plan D1) and certain alternative parking study plans attached hereto as Appendix A to this Ordinance as Subsection 4.1.A of Section 4.1 the Comprehensive Plan. Notwithstanding anything to the contrary stated above, it is further specified that the Northwest Quadrant Master Plan and alternative parking studies hereby approved as part of the Village Center Subarea plan shall be considered conceptual only as to the southeast corner of the northwest quadrant and shall not be considered as binding land use guidance for the southeast corner of the northwest quadrant pending further study of traffic movement and parking within the southeast corner of the northwest quadrant and further refinement of the Northwest Quadrant Master Plan.

SECTION 4: That this Ordinance, and each of its terms, shall be the effective legislative act of a home rule municipality without regard to whether such Ordinance should: (a) contain terms contrary to the provisions of current or subsequent non-preemptive state law; or, (b) legislate in a manner or regarding a matter not delegated to municipalities by state law. It is the intent of the corporate authorities of the Village of Deerfield that to the extent that the terms of this Ordinance should be inconsistent with any non-preemptive state law, this Ordinance shall supersede state law in that regard within its jurisdiction.

SECTION 5: That this Ordinance shall be in full force and effect from and after its passage, approval and publication in pamphlet form as provided by law.

PASSED this _____ day of _____, 2016.

AYES:

NAYS:

ABSENT:

ABSTAIN:

APPROVED this _____ day of _____, 2016.

Village President

ATTEST:

Village Clerk

APPENDIX A

NORTHWEST QUADRANT MASTER PLAN

(to be added as Subsection 4.1.A immediately following Section 4.1,
“Village Center Subarea”, of the Comprehensive Plan of the Village of Deerfield)

Northwest Quadrant - Proposed Amendment to the Deerfield Comprehensive Plan

Add the following language to page 63 of the 4.1 Village Center Subarea:

4.1.A Northwest Quadrant Master Plan

Goal:

Transform the Northwest Quadrant into the cultural centerpiece of Deerfield.

Objectives:

1. Maintain the cluster of related civic assets and destinations. Incorporate compelling, new and compatible destinations and features.
2. Invite and engage pedestrians, and accommodate motorists.
3. Create a series of visually stunning experiences.

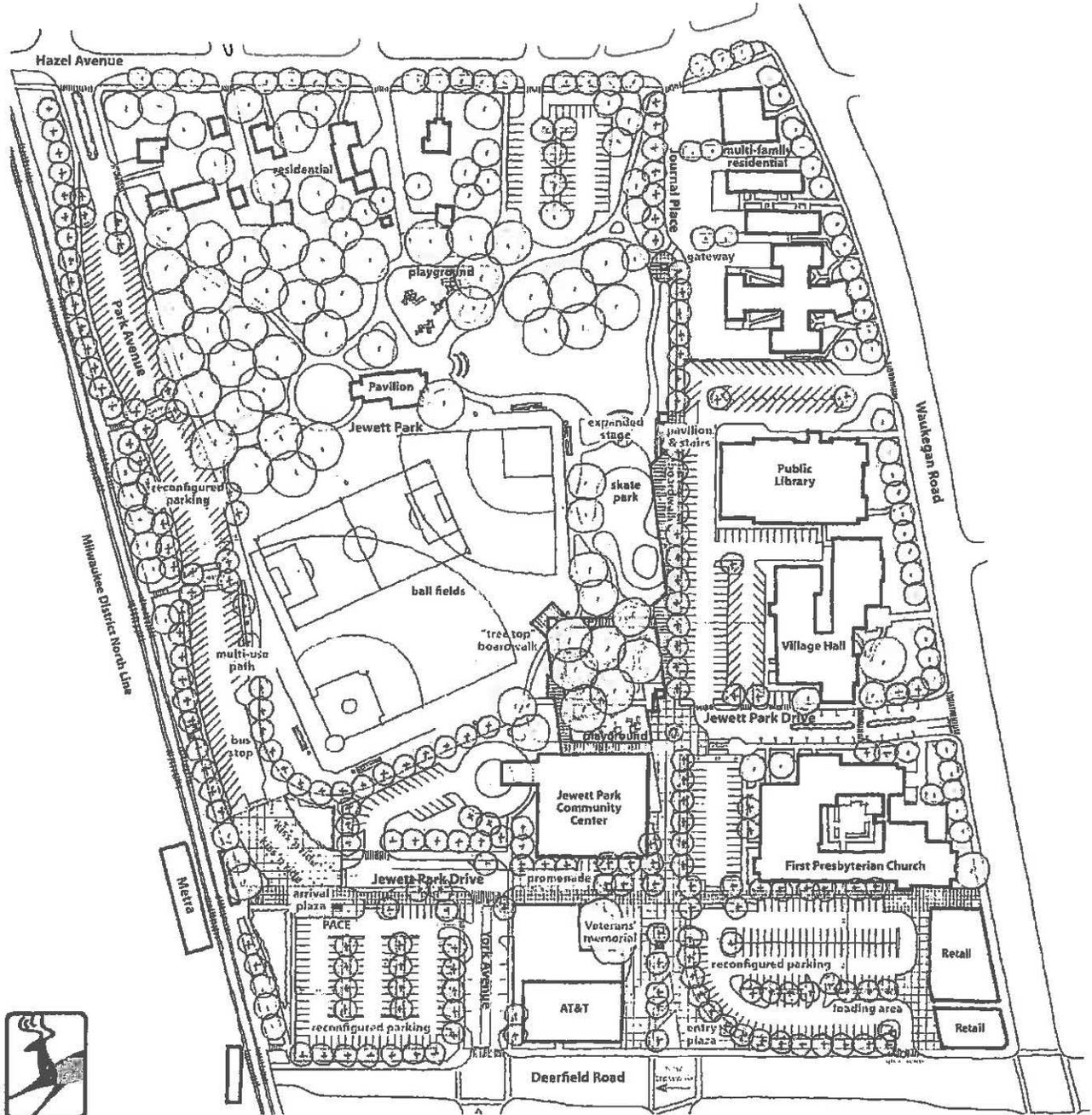
Design criteria:

1. Conveniently walkable
2. Barrier-free connectivity
3. Extremely attractive
4. Reliably safe
5. Environmentally friendly
6. Fiscally responsible/phased
7. Respectful and neighborly
8. Reasonably maintained
9. Reliably durable
10. Fully integrated between uses

Master Plan D, interim Master Plan D-1, and alternative parking studies will serve as concepts for the advisory comprehensive design plan for the northwest quadrant of the Village Center as the various entities make improvements to their properties in future years.

VILLAGE OF DEERFIELD NORTHWEST QUADRANT MASTER PLAN

Preferred Plan D

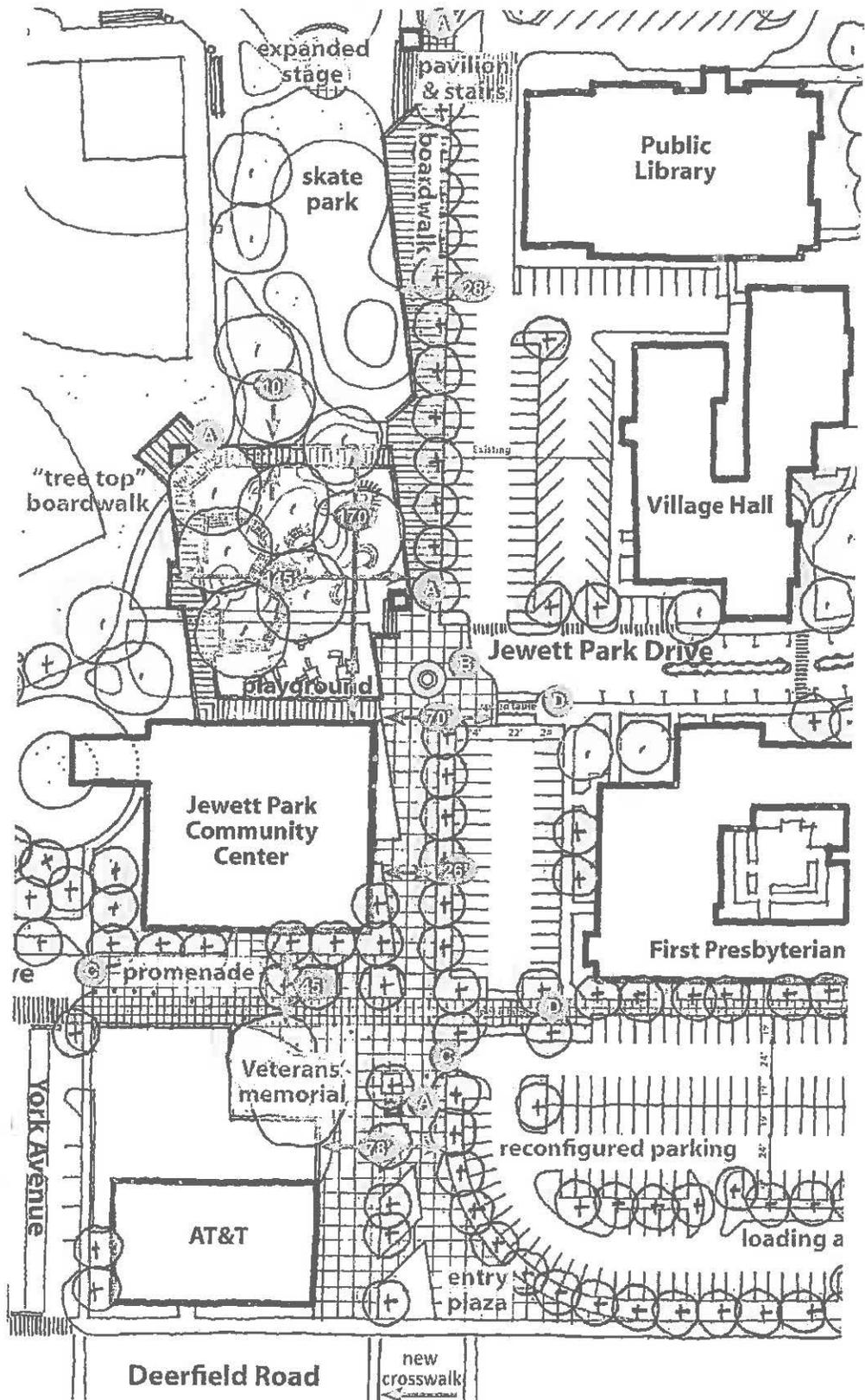


MASTER PLAN

Entry Plaza /
Boardwalk /
Tree Top Boardwalk
Enlargement

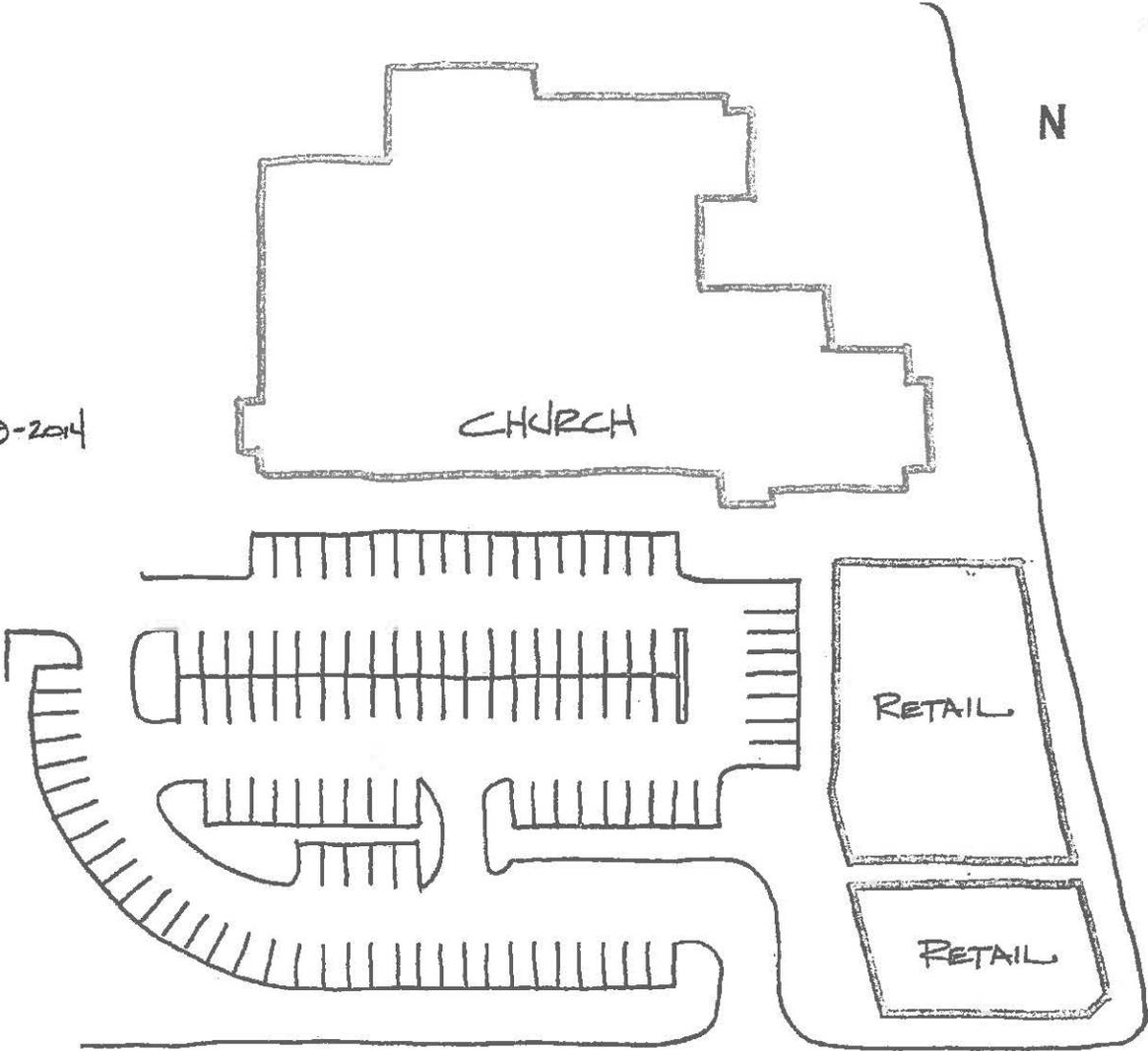
The Entry Plaza, Boardwalk, and Tree Top Boardwalk are key design features of the Master Plan. Dimensions are provided to assist with understanding the proposed scale for these areas. Dimensions shown are based on aerial photography and are conceptual in nature. Additional features are noted on the plan and below:

- Ⓐ Tower Features along the walkway and boardwalk provide orientation and wayfinding.
- Ⓑ Focal Feature at the west terminus of Jewett Park Drive includes a fountain and/or sculpture.
- Ⓒ Promenade Area may be temporarily closed to vehicular traffic via removable bollards to support community events.
- Ⓓ Speed Tables within the parking lot include raised textured surfacing to reinforce pedestrian routes between the Church and Jewett Park.



ALTERNATIVE PARKING STUDY PLAN - FIORINI

ANT
4-9-2014



APPENDIX B

NORTHWEST QUADRANT STAKEHOLDER
WORKING GROUP 7/26/16 REPORT

To: Northwest Quadrant Stakeholder Leadership (Deerfield Park District, First Presbyterian Church of Deerfield, Christian Beginnings, Deerfield Library, F and M Property Holdings and the Village of Deerfield)

From: NWQ Stakeholder Working Group (Jan Caron, Rick Julison, Suzan Hawkinson, Judy Rundell, Amy Falasz-Peterson, Joy Fiorini, Harriet Rosenthal and Kent Street)

Date: July 26, 2016

Subject: Update report re: Northwest Quadrant Proposed Comprehensive Plan Amendment

Introduction

Following presentation of the proposed Comprehensive Plan amendment for the Northwest Quadrant of the Village Center to the Village Board February 16, 2016, the Village Board directed that discussions with other NWQ stakeholders take place. Since that time, a working group of stakeholder representatives has met several times to discuss concerns and preferences, while being mindful of the need to improve pedestrian safety and reduce driver confusion in the eastern portion of the NWQ. The working group also agreed that the campus-like sharing of parking and pedestrian access should continue, including these uses of the Village property on the north side of Deerfield Road, south of the First Presbyterian Church.

To that end, the NWQ Working Group recommends that a Comprehensive Plan Amendment for the NWQ be considered and approved that provides the following:

General Provisions:

Support and Enhance Existing Uses in the NWQ

Conveniently walkable

Attractive

Reliably safe

Environmentally friendly

Fiscally responsible

Respectful and neighborly

Reasonably maintained

Specific Provisions:

A) Prepare a Joint Use Agreement executed by all stakeholders stating each's contributions, commitments and responsibilities and support for implementation, operation and maintenance; the

agreement should acknowledge the value of various types of contributions, including property, construction costs, maintenance costs and the value of supporting services. The agreement should also endeavor to identify stakeholder contributions, list expected stakeholder costs and benefits and include a projected timeline for the implementation of improvements.

B) Encourage and facilitate on-going communication between and among the NWQ stakeholders concerning site planning and operations, respecting the interconnection of parcels and the shared use of access, parking and other resources. An annual meeting and regular meetings as design development proceeds should be held to facilitate on-going communication.

C) Improve safety, accessibility and lighting for pedestrians along and across Jewett Park Drive between Robert York Avenue and the Village Hall and Church sidewalks, in the Church lot, and in the Village lot. Provide safe pedestrian access between the Community Center and the Library;

D) Improve safety for vehicles and pedestrians at all intersections;

E) Provide an interior two-way drive aisle on Jewett Park Drive;

F) Provide safe and usable vehicle access to/from Deerfield Road, that does not encourage cut-through traffic looking to avoid Waukegan and Deerfield Roads;

G) Provide parking space layout that is efficient, orderly and conveniently usable, providing: up to 3-hour customer/visitor spaces; longer term employee spaces, drop-off service on the south and west sides of the Church; continues existing shared use arrangements; meets the routine parking needs of the stakeholders; and provides overflow spaces for stakeholder special events.

H) Provide visual “lead into” Jewett Park and consider raised (tree top) walk system and overlook above preschool playground;

I) Provide a pre-school drop-off on east side of Community Center with unimpaired sight lines from drop-off vehicles to pre-school entrance door and retain the drop off on the west side;

J) Allow for the eventual transformation of the private parking lot and private driveway west of the commercial properties to be repurposed by the owner to offer a more pedestrian friendly space with potential access offered to the commercial properties who do not currently have access to this space.

K) Develop a written/formal agreement between the Village and the Church for the redesign, exchange and use of Church owned property, existing easement and adjoining Village property;

L) Provide F and M Property Holdings controlled parking spaces in the Village lot for any lost elsewhere;

M) Provide to be determined number of parking space passes for Park District employees for use in Village lot;

N) Provide to be determined number of parking space passes for Church/Christian Beginnings employees for use in Village lot;

- O) Provide to be determined number of parking space passes for Library employees for use in Village lot;
- P) Provide to be determined number of parking space passes for F and M Property Holdings shop space employee use in Village lot;
- Q) Provide to be determined number of parking space passes for Taxman shop space employee use in Village lot;
- R) Provide access for mid-range length delivery trucks (not 50 or 53-foot semi's) and emergency vehicles;
- S) Relocate overhead utilities underground;
- T) Provide for refuse/recycling corrals for the Church, F and M Property Holdings and Taxman property in Village lot;
- U) Apply and demonstrate sustainable and environmentally friendly techniques and systems where appropriate, incorporating recognition of cost-effectiveness and relative ease of maintenance;
- V) Develop written/formal use agreement between the Village and Park District for a redesign of Park Avenue.
- W) Develop written/formal use agreement between the Village and Park District, working in conjunction with the Deerfield American Legion or other appropriate military veterans' organization, if a relocation or redesign of the Veterans' Memorial is pursued.

Next Steps:

Presentation of this report as part of the Comprehensive Plan Amendment considered by the Village Board.

Village installs right-in/right-out drive entrance on Deerfield Road to/from the Village Lot as part of Deerfield Road reconstruction project and provides temporary striping to direct changed traffic pattern inside the lot. The design of temporary striping will support the criteria in G and J above.

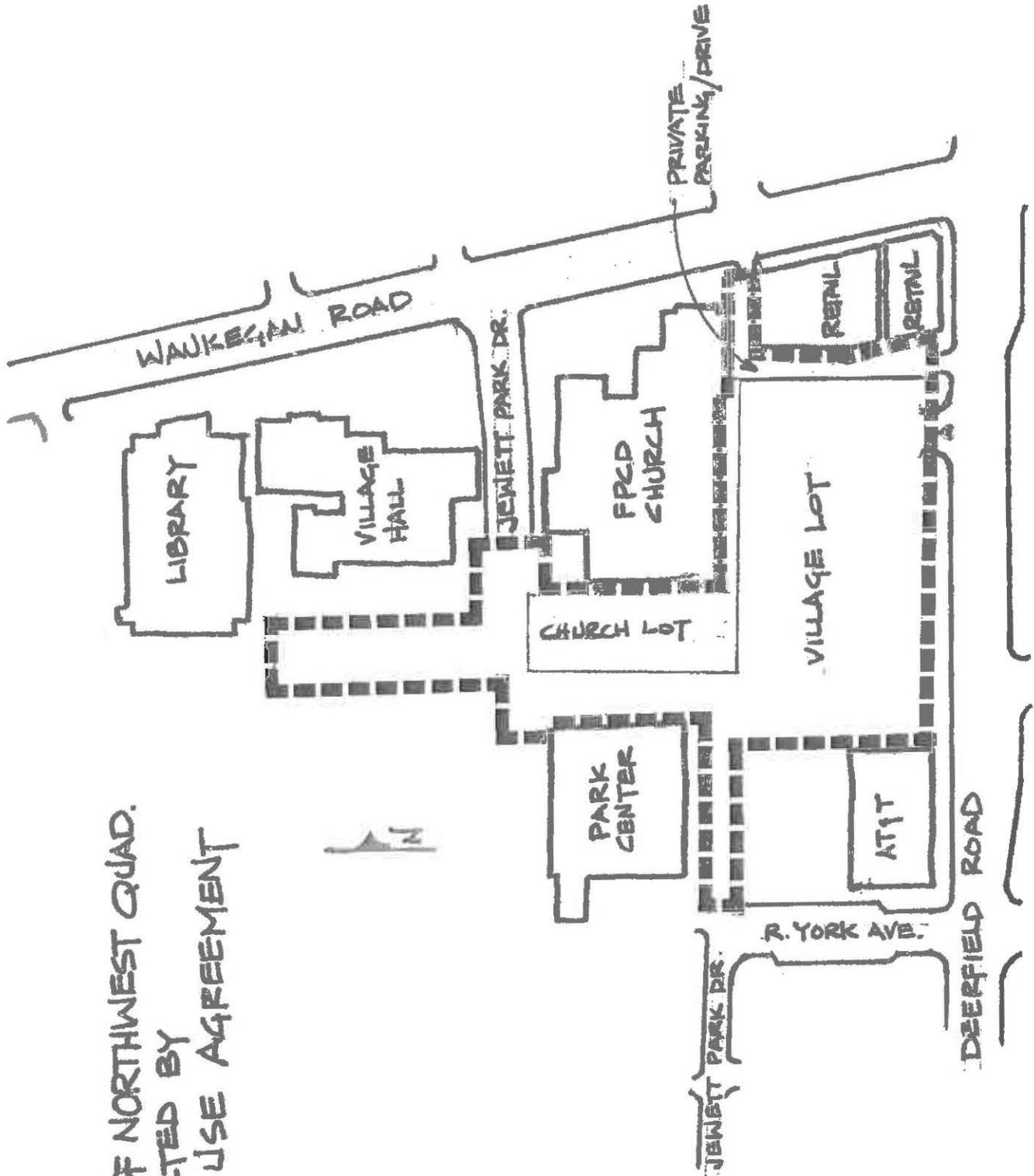
Pursue use of AT&T parking spaces for Park District regular weekday employee parking.

Perform professional traffic counts in October since the Library is now fully operating, the curb cut on Deerfield Road has been installed, and the majority of the impactful work on the Deerfield Road reconstruction project has been completed.

Respectfully Submitted,

NWQ Working Group

AREA OF NORTHWEST QUAD.
IMPACTED BY
JOINT USE AGREEMENT



**VILLAGE OF DEERFIELD
LAKE AND COOK COUNTIES, ILLINOIS**

ORDINANCE NO. _____

**AN ORDINANCE APPROVING THE NORTHWEST QUADRANT
MASTER PLAN AS AN AMENDMENT TO THE COMPREHENSIVE
PLAN OF THE VILLAGE OF DEERFIELD**

**PASSED AND APPROVED BY THE
PRESIDENT AND BOARD OF TRUSTEES
OF THE VILLAGE OF DEERFIELD, LAKE
AND COOK COUNTIES, ILLINOIS, this**

_____ day of _____, 2016.

**Published in pamphlet form
by authority of the President
and Board of Trustees of the
Village of Deerfield, Lake and
Cook Counties, Illinois, this
_____ day of _____, 2016.**

REQUEST FOR BOARD ACTION

16-57-2

Agenda Item: _____

Subject: Ordinance Adopting the 2016 Village of Deerfield Appearance Code

Action Requested: Approval

Appearance Review Commission

Originated By: _____

Village Board of Trustees

Referred To: _____

Summary of Background and Reason for Request

As requested by the Village Board, a Table of Contents has been added to the booklet to help guide petitioners to particular sections of the Code.

Planner Spagnoli will be available to answer questions at the Board meeting.

Reports and Documents Attached:

- Ordinance
- Appearance Criteria and Rules of Procedure
- Appearance Code (Building & Site / Signs)

Date Referred to Board: _____
October 4, 2016

Action Taken: _____

**VILLAGE OF DEERFIELD
LAKE AND COOK COUNTIES, ILLINOIS**

ORDINANCE NO. _____

**AN ORDINANCE ADOPTING THE 2016 VILLAGE
OF DEERFIELD APPEARANCE CODE**

**PASSED AND APPROVED BY THE
PRESIDENT AND BOARD OF TRUSTEES
OF THE VILLAGE OF DEERFIELD, LAKE
AND COOK COUNTIES, ILLINOIS, this**

_____ day of _____, 2016.

**Published in pamphlet form
by authority of the President
and Board of Trustees of the
Village of Deerfield, Lake and
Cook Counties, Illinois, this
_____ day of _____, 2016.**

**VILLAGE OF DEERFIELD
LAKE AND COOK COUNTIES, ILLINOIS**

ORDINANCE NO. _____

**AN ORDINANCE ADOPTING THE 2016 VILLAGE
OF DEERFIELD APPEARANCE CODE**

WHEREAS, the Village of Deerfield is a home rule unit of local government pursuant to the provisions of Article VII, Section 6 of the Illinois Constitution; and

WHEREAS, as a home rule unit of local government, the Village of Deerfield may exercise any power and perform any function pertaining to its government and affairs, except as limited in accordance with Article VII, Section 6 of the Illinois Constitution; and

WHEREAS, the Deerfield Appearance Review Commission (“ARC”) was established in 1986 pursuant to Ordinance No. O-86-21 and was charged with developing appearance review criteria for proposed buildings, structures and site improvements within the Deerfield Village Center as previously defined by Ordinance No. O-78-8; and

WHEREAS, the corporate authorities of the Village of Deerfield adopted the 1986 Appearance Code (the “1986 Code”) and the Appearance Review Criteria and Rules of Procedure for the Village of Deerfield Appearance Review Commission (the “1986 Appearance Review Criteria”) as proposed by an Ad Hoc Committee in 1986; and

WHEREAS, the corporate authorities of the Village of Deerfield adopted Ordinance No. O-00-05 in 2000 which served to expand the jurisdiction of the ARC to include the C-2 Outlying Commercial zoning district; and

WHEREAS, the corporate authorities of the Village of Deerfield adopted Ordinance No. O-05-34 in 2005 which served to expand the geographic area considered part of the Deerfield Village Center (the “Village Center” or “Deerfield Village Center”) that is within the jurisdiction of the ARC; and

WHEREAS, the Appearance Code and Appearance Review Criteria are intended to express unifying and consistent community design standards to guide property and business owners in developing and proposing exterior design drawings, site plans, signage plans and landscaping and building materials within the Village Center and C-2 Outlying Commercial zoning districts with the object of fostering building and site development consistency and compatibility within the Village Center area and C-2 district through the application of the design criteria and principles set forth in the Deerfield Appearance Code; and

WHEREAS, the Appearance Code and Appearance Review Criteria are further intended to allow for creative design solutions that remain compatible with the design principles set forth in the Appearance Code; and

WHEREAS, the Deerfield Appearance Review Commission has now engaged in a comprehensive review of the 1986 Code; and

WHEREAS, the Appearance Review Commission has recommended to the corporate authorities of the Village of Deerfield the adoption of a new and updated 2016 Village of Deerfield Appearance Code (the “2016 Appearance Code”), a copy of which is attached to this Ordinance, setting forth modernized community design principles and criteria for the appearance of buildings, structures, sites, plantings, signs, street hardware and other objects that are or will be visible within the built environment of the Deerfield Village Center area and C-2 zoning district; and

WHEREAS, the corporate authorities of the Village of Deerfield concur in the recommendation of the Appearance Review Commission and determine that is in the public interest that the 2016 Appearance Code be adopted as the Village of Deerfield Appearance Code; and,

WHEREAS, the corporate authorities of the Village of Deerfield have determined that the 1986 Appearance Review Criteria should be updated and replaced by the Appearance Criteria and Rules of Procedure attached hereto (the “2016 Appearance Review Criteria”) to be consistent with the 2016 Appearance Code; and

WHEREAS, the corporate authorities of the Village of Deerfield concur in the recommendation of the Appearance Review Commission and determine that is in the public interest that the 2016 Appearance Code be adopted as the Village of Deerfield Appearance Code which, together with the 2016 Appearance Review Criteria, shall be applicable as the criteria, design standards and rules of procedure to be applied by the ARC in reviewing and issuing certificates of approval for proposed buildings, structures, sites, plantings, signs, street hardware and other objects and improvements visible within the built environment of the Village Center, C-2 district and any other areas that may now or hereafter added to the Appearance Code jurisdiction of the ARC;

NOW, THEREFORE, BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF DEERFIELD, LAKE AND COOK COUNTIES, ILLINOIS, in the exercise of its home rule powers, as follows:

SECTION 1: That the above and foregoing recitals are hereby incorporated and made a part of this ordinance as if fully set forth herein.

SECTION 2: That the 2016 Appearance Code, including the appendices attached thereto, is hereby adopted as the Appearance Code of the Village of Deerfield, and shall be applied by the Appearance Review Commission in reviewing requests for new construction and any alterations to a building exterior or site, including signs, landscaping and any design features that are visible to the general public, within the designated areas of ARC jurisdiction as set forth in Section 2-158(a)(8) of the Municipal Code of the Village of Deerfield, as amended.

SECTION 3: That the 2016 Appearance Review Criteria attached hereto is hereby adopted as the Appearance Criteria and Rules of Procedure for the Appearance Review Commission.

SECTION 4: A certificate of approval from the Appearance Review Commission, or a positive appeal to the Board of Trustees of the Village of Deerfield pursuant to the 2016 Appearance Review Criteria, must be obtained before a building permit will be issued for new construction or alterations to a building exterior or site, or before any changes in a planned unit development or special use located within the designated area of ARC jurisdiction will be issued or approved.

SECTION 5: That this Ordinance, and each of its terms, shall be the effective legislative act of a home rule municipality without regard to whether such Ordinance should: (a) contain terms contrary to the provisions of current or subsequent non-preemptive state law; or, (b) legislate in a manner or regarding a matter not delegated to municipalities by state law. It is the intent of the corporate authorities of the Village of Deerfield that to the extent that the terms of this Ordinance should be inconsistent with any non-preemptive state law, this Ordinance shall supersede state law in that regard within its jurisdiction.

SECTION 6: That this Ordinance shall be in full force and effect from and after its passage, approval and publication in pamphlet form as provided by law.

PASSED this _____ day of _____, 2016.

AYES:

NAYS:

ABSENT:

ABSTAIN:

APPROVED this _____ day of _____, 2016.

Village President

ATTEST:

Village Clerk

APPEARANCE CRITERIA AND RULES OF
PROCEDURE FOR THE VILLAGE OF DEERFIELD
APPEARANCE REVIEW COMMISSION

Section 1 – Jurisdiction

The jurisdiction of the Appearance Review Commission shall include the external design features, exterior building components, landscaping and site plans, all as more particularly set forth herein, on all new private and public buildings and structures and exterior remodeling and additions to all existing private and public buildings and structures located within the area (the “Jurisdictional Area”) defined in Section 2-158(a)(8) of the Municipal Code of the Village of Deerfield of 1975, as amended (the “Village Code”). The Appearance Review Commission shall apply the appearance criteria set forth in the 2016 Appearance Code adapted pursuant to Ordinance No. _____, and as thereafter amended (the “Appearance Code”).

Section 2 – Meeting, Quorum, Records

Meetings of the Commission shall be held at least monthly on a regularly scheduled basis. A majority of the appointed and serving members of the Commission, but in no event less than three (3), shall constitute a quorum.

Decisions of the Commission shall be taken by the majority vote of the members present, except in the case of denial of a Certificate of Approval (“Certificate”), in which case the concurring vote of three (3) members shall be required.

All meetings shall be open to the public. The Secretary of the Commission shall keep minutes of its proceedings and shall keep records of its examinations, hearings and official actions.

Section 3 – Powers and Duties

The Commission shall have the powers and duties to set forth in Section 2-158(a)(8) of the Village Code.

Section 4 – Regulatory Powers of Commission

No permit or certificate required under any Village ordinance for a sign or for the construction, alteration or repair of any building or structure in the Jurisdictional Area shall be issued by the Director of Building and Zoning (Director) or his designees without a Certificate issued by the Commission or by direction of the Board of Trustees following an appeal from a denial of said Certificate by the Commission. If the Director shall determine that no exterior building component, external design feature, or any other element contained in the Appearance Criteria hereinafter established, is involved in the work for which a permit or certificate is sought, no Certificate is required. The Commission shall also conduct periodic inspections of the Jurisdictional Area to determine compliance with the maintenance and upkeep standards contained in the Appearance Code and shall furnish the Director with a report of said inspections and the Director shall act thereon as hereinafter provided.

Section 5 – Procedure for Obtaining Certificate of Approval

- A. The Director shall after receipt of an application for a permit or certificate determine and advise the applicant whether a Certificate is required.
- B. Any applicant for a permit or certificate which may require a Certificate may file with the Secretary of the Commission a written request for a preliminary conference. At such conference, the Commission shall give consideration to preliminary exterior drawings, sketches or photographic examples, landscape and site plans and materials on a specific project, and shall give its informal opinion to assist the applicant in the development of a project plan which would be consistent with the purpose of the Appearance Code.
- C. Application for Certificate of Approval
 - (1) Applicants for permits or certificates which may require a Certificate, as specified in Section 4, shall apply to the Secretary of the Commission for such Certificate. Upon receipt of such application, the Secretary of the Commission shall schedule, at its next available regularly scheduled meeting, the applicant to be given a hearing on such application. The applicant shall be given reasonable notice of said meeting.
 - (2) The fact that an application for a Certificate has been filed shall not be cause for delay by the Director in review of plans relating to the building and zoning aspects of the project while said application is pending.
 - (3) At least 14 days before the hearing, the applicant shall provide the Secretary of the Commission with the following documentation, all drawn to scale: drawings which shall include plans and existing elevations, site plans, landscaping and screening plans (showing the location of existing trees), renderings and specifications of signs, parking area plans, and a statement as to kind, color and texture of material. The Commission may make recommendations as to changes in the exterior drawings, sketches, landscaping, site plan, signs, materials and colors which, in the judgment of the Commission would meet the goals set forth in the Appearance Code.
 - (4) After hearing and considering the documentation presented, the Commission shall approve issuance of a Certificate if it finds that:
 - a) The applicant's plans are substantially consistent with the Appearance Code.
 - b) The proposed external design features and exterior building components of the development are suitable and compatible with the character of neighborhood buildings and structures existing and under construction and

with the general character of the Jurisdictional Area and contribute to the favorable environment of the Jurisdictional Area.

c) The external design features and exterior building components of the developmental will not be detrimental to the harmonious and orderly growth of the Jurisdictional Area.

d.) The external design features and exterior building components will not cause substantial depreciation in the property values or taxable values in the Jurisdictional Area.

(5) The Commission shall render its decision along with the findings in support thereof in writing within 15 days after the conclusion of the hearing and notify the Director and the applicant. In the event that the Commission denies the issuance of a Certificate to the applicant, no permit or certificate shall be issued by the Director except by direction of the Board of Trustees upon appeal as hereinafter set forth. In the event a permit or certificate is being sought with respect to the property which is the subject matter or a consideration by either or both the Zoning Board of Appeals or the Plan Commission of the Village of Deerfield, the Commission shall furnish a copy of its recommendation to the appropriate body for their information and consideration.

(6) Amendments to a Certificate may be obtained by application therefor in the same manner as provided for an original Certificate except in those instances where an amendment is requested pursuant to the procedures set forth in Section 6 (B) below.

Section 6 – Enforcement by Director of Building and Zoning

Upon the granting of a Certificate or an amendment thereto, the exterior drawings, sketches, landscape and site plans, renderings and other documentation upon which Certificate or amendments were granted shall be turned over to the Director who shall, from time to time as the project is under construction and finally upon its completion, determine that there have been no deviations therefrom. Such deviations shall constitute a violation hereof and shall cause an immediate revocation of the Certificate or amendment and of any permits or certificates previously issued.

- A. It shall be the duty of any person or organization receiving a Certificate or amendment to comply with the requirements of the Certificate and to obtain such inspections as may be necessary in order to insure compliance. The Director shall notify such recipient of any deficiencies found to exist. Failure to take corrective action within 10 days after notification of any deficiencies will constitute a violation hereof.
- B. When, by reason of non-availability of planting or other materials or any other valid circumstance, it becomes necessary to vary any of the provisions under which a

Certificate or amendment has been granted and, in the opinion of the Director, such variation will be aesthetically equal to or better than the original provisions and will not conflict with the goals of the Appearance Code, the Director shall have the power to grant such variation. When such variations are granted, the Director shall, within 30 days thereafter, submit a written report of the circumstances to the Commission.

- C. Before any use may be made of any improvements constructed under the provisions hereof, under which a permit is required, a final inspection of the premises must be obtained from the Director who will consider his findings in matters under the jurisdiction of the Commission, together with other Village codes and ordinances, in the issuance of any required permit or certificate. Any required permit or certificate shall not be issued unless the completed work is found to be in compliance with plans approved by the Commission and under which the Certificate or amendment was issued.
- D. Upon receipt by the Director of a report from the Commission noting any failures of property owners to conform to the maintenance and upkeep standards, the Director shall proceed to enforce said standards in accordance with the Municipal Code of the Village of Deerfield, as amended.

Section 7 – Appeal to Board Trustees

In the event the Commission denies a Certificate or amendment thereto or fails to timely act as hereinabove provided, the applicant shall have the right to appeal directly to the Board of Trustees. Such appeal shall be made in writing and shall be filed within 30 days of the decision to deny or within 30 days of the failure of the Commission to timely act. In the event that an appeal is taken with respect to property which is the subject matter of a consideration by either or both the Zoning Board of Appeals or the Plan Commission of the Village of Deerfield, the Board of Trustees shall consider the appeal concurrently with the recommendation of said bodies. In an appeal not involving the Zoning Board of Appeals or the Plan Commission, the Board of Trustees shall consider and decide upon such appeal within 21 days after the filing thereof. Upon such appeal, all records and findings concerning the application shall be submitted to the Board of Trustees by the Director and the Commission. Thereupon the Board of Trustees may:

- A. Adopt the decision of the Commission, or
- B. Overrule or modify the decision of the Commission and direct the issuance of a Certificate, or
- C. In the event the Commission has failed to timely act as hereinabove provided, direct or deny the issuance of a Certificate.
- D. Refer the matter back to the Commission for further consideration.

Deerfield Appearance Code

VILLAGE OF DEERFIELD, ILLINOIS



BUILDING & SITE

Mission Statement: **Good Design is Good Business**

Over the years the Village of Deerfield has taken many steps to ensure the health, safety, and welfare of the Village Center and the outlying commercial areas. The establishment of the Appearance Review Commission in 1986 and the adoption of the Appearance Code represent Deerfield's conscious efforts to protect and to keep Deerfield a desirable community. We take pride in our community and recognize the value of good design, knowing that good design is good economic development. What we see daily in our community, consciously and subconsciously, influences our lives. People are attracted to properties and businesses that are well designed. Poor appearance and lack of property maintenance lead to decline in customers, loss of revenues, and decreased property values.

This user-friendly booklet is intended to provide a clear understanding of the appearance standards that create Deerfield's character. Many businesses establish branding to promote their identity; the Village of Deerfield also has a brand (Deerfield's character) and we need to work together to preserve and enhance our community. Please familiarize yourself with the requirements and expectations. You are a part of the fabric that comprises the Deerfield community and we welcome your request for improvements.

VILLAGE OF DEERFIELD

DEERFIELD APPEARANCE CODE

Dedicated to:

RICHARD COEN

for his Commitment, Integrity and Leadership
as a Member (1992-2016) and Chairman (1998-2016) of the
Appearance Review Commission

HARRIET ROSENTHAL, Mayor
Kent Street, Village Manager

Trustees: Alan L. Farkas Thomas L. Jester Robert D. Nadler
 William Seiden Daniel C. Shapiro Barbara Struthers

ACKNOWLEDGEMENTS

APPEARANCE REVIEW COMMISSION

Dick Coen, Chairman

Commissioners: Beth Chaitman Lisa Dunn Sean Ehlke
 Sherry Flores Jason Golub Jim Hollis
 Elizabeth Low Daniel Moons

Village Staff: Jean C. Spagnoli, Village Planner
 Jeri Cotton, Secretary

Landscape
Consultants: Barbara Rosborough, Co-owner Rosborough Partners, Inc.
 Robert Milani, Sr. Landscape Architect Chalet Nursery
 Conserve Lake County, Grayslake, Illinois

Exhibits: Photographs taken by and Illustrations drawn by: Jean C. Spagnoli, Village Planner

Deerfield Appearance Code Building & Site

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Deerfield Appearance Code SIGNS (separate booklet)

Deerfield Appearance Code

Criteria for Appearance

The purpose of these criteria is to establish a checklist of those items which affect the physical aspect of the Village of Deerfield's environment. Pertinent to appearance is the design of the site, building and structures, plantings, signs, street hardware, and miscellaneous other objects which are observed by the public.

These criteria are not intended to restrict imagination, innovation, or variety, but rather to assist in focusing on design principles which can result in creative solutions that will develop a satisfactory visual appearance within the Village, preserve taxable values, and promote the public health, safety and welfare.

FACTORS FOR EVALUATION

The following factors and characteristics which affect the appearance of a development will govern the Appearance Review Commission's evaluation of a design submission:

1. *Conformance to Village Ordinances and Appearance Code criteria.*
2. *Logic of design.*
3. *Exterior space utilization.*
4. *Architectural character.*
5. *Attractiveness.*
6. *Material selection.*
7. *Harmony and compatibility.*
8. *Circulation – vehicular and pedestrian.*
9. *Maintenance aspects.*
10. *Mobility for change in the future.*
11. *Quality of contribution to the entire architectural concept.*
12. *Sustainability*

Deerfield Appearance Code

Building Design

1. *Architectural Style*: The evaluation of the appearance of a project shall be based on the logic of its design, architectural character and relationship to the surrounding area and community. Monotony of design in single or multiple structure projects shall be avoided. Variation of detail, form, and siting shall be used to provide visual interest. Architectural style is unrestricted; however, inappropriate and incompatible designs or concepts shall be avoided.
2. *Large Structures*: Flat facades, vertical and horizontal, shall be avoided in larger buildings. Varying the parapet and providing articulation and modulation in the facade will reduce the visual expanse of the structure. This will also add visual interest creating an aesthetically pleasing structure.
 - a. Consideration should be given to larger buildings being broken into multiple buildings if possible, or into smaller building mass elements through varied rooflines, varied façade planes, upper story setbacks, front elevation windows, etc.
 - b. In the Village Center, the design of the façade should be in keeping with the historic lot size. Deerfield's historic lot sizes were approximately 50 feet wide. The parapet height, recesses and materials should vary accordingly.
3. *Scale*: Structures shall be of an appropriate scale and mass to be harmonious with their sites, neighboring buildings and developments, and the community.
4. *Materials*:
 - a. Building materials shall be durable and conducive to easy maintenance and upkeep.
 - b. Materials shall be selected and scaled for suitability to the type of structure and design in which they are used.
 - c. Structures shall have the same harmonious materials used on all elevations that are wholly or partly visible to the public from a public or private street, place, way or adjacent property.
 - d. In choosing exterior materials and finishes for new construction, additions, alterations and renovations, the following shall be considered:
 - (1) EIFS (such as Dryvit) material, and stucco are not to be used as a primary material, and should be limited to applications above the pedestrian level (approximately 10 feet above the ground).
 - (2) Aluminum and vinyl siding (residential type) shall not be used on commercial buildings.
 - (3) Metal panels shall be installed with an appropriate gauge thickness so as to avoid the oil-canning effect (buckling or waviness of the metal).

- (4) Panel finishes shall not show blistering, pimpling or delamination.
 - (5) Painting of masonry materials, including stone, brick and certain block, is strongly discouraged.
 - (6) Mirrored, reflective or dark tinted glass is discouraged, especially at the pedestrian and grade level. Also, applied glass films may be granted, if an unsightly view exists – see Window Sign Regulations (Deerfield Zoning Ordinance, Article 9.02-B, 13).
 - (7) Brick and stone convey permanence and are preferred building materials.
5. *Primary Entrance:* The main entrances shall be oriented to a public street or prominent public area, and should be a clearly defined architectural feature of the building.
- a. Every building shall incorporate building address numerals that shall be a minimum of three inches in height, a contrasting color to the mounting surface, and placed on the building facing the public street for which the address is given, or if not possible, a public way.
6. *Components:* Building components such as windows, doors, eaves, and parapets shall have appropriate proportions and relationships to one another and to the building as a whole. A façade that includes non-structural and non-functional elements designed to attract attention is not appropriate, and may be considered signage. Some examples may include murals, ghost signs and images.
- a. Art objects are a component of building/site design and shall be reviewed for their scale, placement and appropriateness.
 - b. When designing a commercial building or structure, consideration shall be given to the placement of future tenant signs.
7. *Colors:* Colors shall be harmonious. Bright or brilliant colors should be minimized and may be used only for accents and must be compatible with the overall color scheme. Large expanses of a single color are discouraged.
8. *Appurtenances:* All gas and electric meters, downspouts, and other appurtenances shall either be incorporated internally into the structure or be of similar color and/or materials to the principal structure. Outside remote utility readers shall be placed or screened in such a manner as not to be seen from a public way.
9. *Roofs:*
- a. Visible and pitched roofs should be of a material, color and texture appropriate to the building design character and use.
 - b. Pitched roofs should have overhangs which define the roof/wall interface.
 - c. Gable and pitched roofs should be scaled to the face of the building so as not to dominate the elevation nor be so small as to lack a feeling of closure and protection.

- d. In the Village Center, consider pitched, sloped or gable roofs in keeping with Deerfield's historic character and development.
- e. Perimeter lighting that outlines the expanse of the building or a specific building feature/element that is meant to draw attention to the structure, such as signage is meant to do, will not be allowed. Exemption: Holiday Decorations (Zoning Ordinance 9.01-A,3).

10. *Awnings & Canopies:*

- a. The lowest point of a canopy or an awning's framework shall be a minimum of eight (8) feet above the ground, with a canvas valance having a minimum clearance of seven (7) feet, two (2) inches above the ground.
- b. Awnings shall be designed to project over individual window and door openings. Long expanses of awnings are discouraged.
- c. Awnings and canopies should be an enhancement to the building and shall be mounted in such a way as to not cover any ornamental feature of the building.
- d. In multi-tenant/multi-unit buildings, awnings/canopies should be coordinated to complement the overall architecture of the center.
- e. Awning/canopy colors should enhance and complement the building and any adjacent awnings.
- f. An awning/canopy may be used as a background for an allowed wall sign, in lieu of a sign mounted directly to the building wall. If the valance is used for the sign, a margin must be provided at the top and bottom of the valance as well as either end, providing negative space around the sign.
- g. No part of an awning shall be made of a translucent material that would allow light from the interior of the awning to illuminate through the awning material.
- h. Awnings shall be well maintained and replaced when necessary. Torn, frayed, damaged, faded, stained, or dirty awnings must be cleaned, repaired or replaced with the same approved material and color.

11. *Upper Level Decks and Balconies:*

- a. Decks and balconies above the first floor should be screened from public view with materials harmonious to the building; or
- b. Located so as not to be visible from the adjacent public street(s).
- c. In the Village Center, decks and balconies for office or residential use (private use) should not face a major arterial street, Waukegan or Deerfield Roads. For patio and grade level decks see: Relationship of Building(s) to site and adjacent areas.

12. *Mechanical Equipment:* Mechanical and utility equipment located on the roof or exterior of a building shall either be:

- a. Screened from public view with materials harmonious to the building; or
- b. Located so as not to be visible from a public way.

13. *Sustainable Design*: Sustainable design is encouraged, and any exterior feature of such system and/or material(s) shall be integrated into the building's overall architectural design. When feasible consider proven sustainable design, including but not limited to active and passive solar and geo-thermal. Use of locally-produced building materials is encouraged. For "green" ideas go to the U.S. Green Building Council website, or other "green" websites.
Any solar panels or wind energy systems must meet the regulations described in Deerfield Zoning Ordinance, Article 2.10: Alternative Energy Systems.

Large Structures

Big-box stores

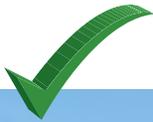
NO



Flat facades

YES

Varied facade with differing parapet heights, recesses and materials.



Village Center facade design

YES

Broken into smaller visual units, in keeping with Deerfield's historic character. See Building Design 2b.



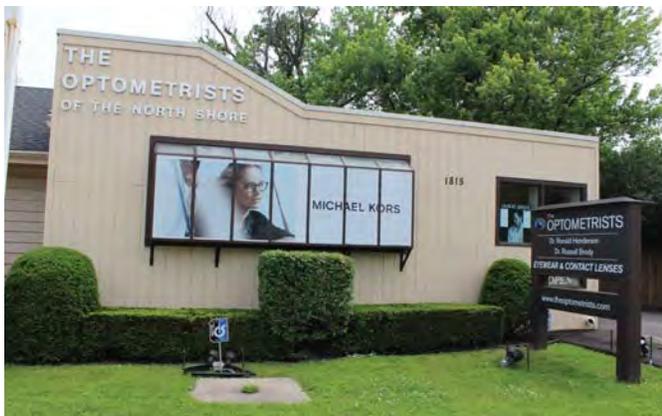
Materials: Glass

YES ✓

Glass provides a welcoming view into an establishment and an opportunity to display items for sale.

YES ✓

Clear glass allows natural daylight to enter the space which can result in reduced energy costs. Also, clear glass allows views into the building interiors which provides for a safer environment.



NO

Glass is a transparent material and completely blocking the light and vision into the space is not appropriate.

Exception for unsightly views, see Window Sign Regulations



YES ✓

If an unsightly view existing, it may be necessary to cover the window area. An opaque window film, in a color that works well with the building design, applied to the inside of the glass would be an appropriate solution.

Materials: EIFS (exterior insulation finishing system) and Stucco



Stucco and EIFS are soft materials that can be easily chipped or marred resulting in damage to the material and a poor appearance. Also, there is a history of water infiltration problems with these materials.

YES



EIFS is better suited for applications above the pedestrian level, such as a background for signs.



Components

Example of non-structural and non-functional elements used to attract attention. See Building Design 6.



The building facade could be considered a sign, and therefore, is not appropriate.



The box raceway is not an appropriate building element. The sign structure does not relate to anything in the development and conceals the building's decorative corner design.



Components: Signs

A business sign shall include any illustration, insignia, display or identification, which directs attention to that business or commodity, service, activity or entertainment sold or offered within the building or premises.



The yellow and red canopy elements are considered signage. The surface face of sign elements must be flat. Three dimensional signage is not allowed.



The flat faced vinyl stripes are considered signage. Only signs that are within the allowable square footage may be granted.



Wall signs must be mounted directly to the outermost wall, not above the wall. When designing a building, accommodations need to be made for sign placement.

Awnings & Canopies

YES ✓

The style, color and placement of an awning shall complement the building architecture.



YES ✓

An awning can provide shade and shelter, and provide a decorative focal point for the entrance.

NO

An awning which wraps around the entire building ignores the building architecture.



NO

The awning material shall not allow light to pass through the fabric.

Upper Level Decks and Balconies



Front building facade facing major road



Back side of building with balconies and landscaping



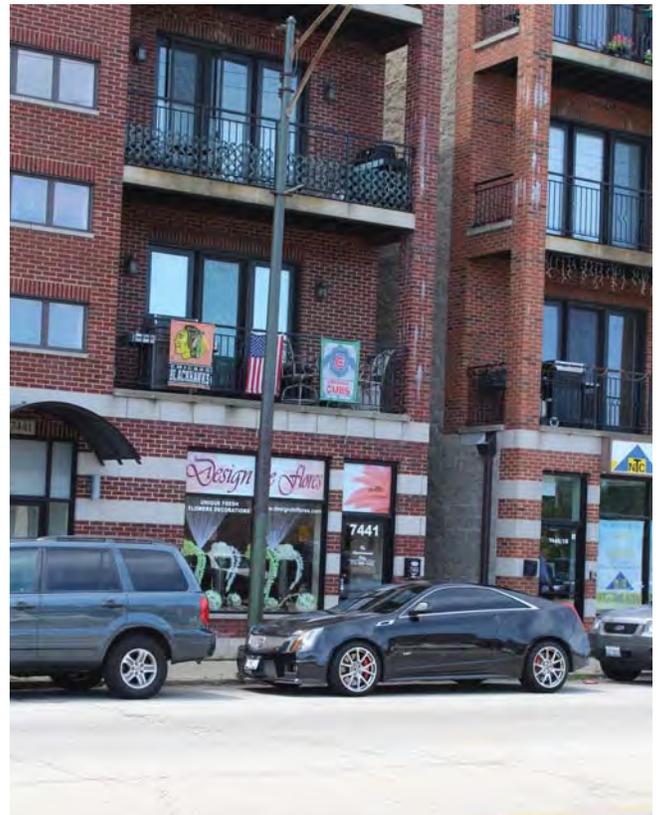
NO

Residential balconies shall not face a major arterial road.



NO

Unscreened decks and balconies



Mechanical Equipment



Mechanical items such as refrigeration, heating and air conditioning equipment when placed on the roof, known as rooftop units (RTU), shall not be visible to public view.



YES



If the rooftop unit(s) cannot be located in such a manner as to be shielded from public view, then that RTU(s) should be screened with materials to lessen the impact of the unsightly view.



YES

The RTUs are hidden from public view by the parapet wall (the building's design). When designing a building or structure consideration shall be given to the concealment of the RTUs from public view.



Deerfield Appearance Code

Relationship of Building(s) to site and adjacent areas

1. *Building & Structure Location:* The site shall be planned to accomplish a desirable transition with the streetscape and to provide for adequate landscaping, safe vehicular and pedestrian circulation, and appropriate parking areas. Setbacks and yard requirements greater than the minimum required by the zoning district are encouraged if necessary to provide a harmonious relationship between buildings and structures.
2. *Secondary Building Access:* Buildings with parking located behind are encouraged to provide access through a rear (or secondary) entrance for customer/employee convenience. Elements such as signage, paving, and landscape treatments are key items to such orientation. These items/materials shall be consistent in design with the development as a whole.
3. *Compatibility:* The height and scale of each building and structure shall be compatible with its site and existing adjacent buildings. When neighboring buildings are differing in architectural designs, compatibility shall be gained by such means as screens, sight breaks, and materials.
 - a. *Building Mass Transition:* Taller buildings when placed adjacent to shorter structures may need a visual transition. Consider stepping back the upper stories and using other architecture techniques to transition gradually and minimize the adverse impact on the surrounding area.
4. *Public Spaces:* Pedestrian-friendliness is encouraged. Open spaces, pedestrian plazas, courtyards, and outdoor seating areas along with pedestrian scale amenities should be provided when possible and should be easily accessible from adjacent streets or sidewalks.
5. *Patios and Grade Level Decks:* Outdoor dining and seating areas adjacent to streets and/or parking areas should be protected by a perimeter barrier, such as fencing, planters or bollards. The barrier(s) shall be appropriately designed for safety and shall be aesthetically compatible with the development.
6. *Bike Facilities:* Where appropriate, bicycle storage (bike racks) shall be provided with appropriate paving connections. Safe circulation for bicycle traffic shall be provided within the site and with connections to adjacent properties (Zoning Ord. 2.09). The bike rack design shall coordinate with the other site furnishings.

7. *Drive-through:* Vehicle stacking lanes and components associated with a drive-through, including canopies, menu boards, speakers and such, should be located to the rear or side of a building , on a non-street facing side. Such components should coordinate (style, material and color) with the building design.
8. *Utility Services:* Newly installed utility services, and service revisions necessitated by exterior alterations, are strongly encouraged to be underground. Satellite dishes and cell towers shall be appropriately concealed.
9. *Neighborly Considerations:* Project features such as service entrances, loading zones, and mechanical and electrical equipment should be located to minimize their impact on adjacent properties, along with providing adequate screening, if necessary.

Compatibility



New development must be compatible with the existing area. When infilling with larger buildings, the taller building(s) should gradually transition by stepping down near smaller buildings and varying the roof forms to reduce the apparent size of the building. See 3a, Building Mass Transition.

Public Spaces



Benches, water fountain, sculptures, lighted bollards, decorative pavers, flower gardens, and trees are items that help create an inviting space for the public. Developers should consider incorporating pedestrian spaces, especially in larger developments.

Patios and Grade Level Decks

YES ✓

Patio seating next to parking is protected by a curbed planting area and fencing.



✓ YES

The rail and planters, next to the outdoor dining, provide a beautiful barrier from the adjacent roadway.

NO

Adjacent to parking, the outdoor dining area is not protected. Appropriately designed safety elements, such as bollards, planters or fencing, shall be used.



Deerfield Appearance Code

Lighting

All that is needed is the right amount of light, in the right place, at the right time – more light just means wasted light and energy and can be a nuisance to the general public. Too little light can be unsafe.

1. *Site Photometric Plan:* When requesting outdoor light fixtures to be installed or existing fixtures to be substantially modified, and whenever a Special Use Permit is requested (when appropriate), an exterior lighting plan shall be submitted to the Village to determine whether the requirements of this Section have been met. Previously approved photometric plans are not required to comply with this section until more than 50 percent of the original existing lighting fixtures, standards, and/or elements are changed or removed.

The lighting plan shall include, but is not limited to:

- a. Description of the proposed lighting fixture (e.g. a catalog page, cut sheet, photograph) including the mounting method.
 - b. A graphic representation of the fixture's light distribution at all angles vertically and horizontally.
 - c. A site plan (in scale) indicating the location of the proposed light fixtures, mounting and/or installation height, type of lamp (e.g. metal halide, LED), overall illumination levels (in foot-candles, at appropriate intervals including at property lines), and show the average foot-candles, uniformity ratio and minimum foot-candles as required below.
2. *Location:*
 - a. Lighting should be provided to aid in public safety and should include the illumination of entries, signage, adjacent pedestrian and parking areas. Security lighting should be concealed from view to the extent possible.
 - b. Light poles shall be located in such a manner that they do not interfere with any vehicular movements or pedestrian ways. Light poles within a parking area should be located within a curbed landscaped island, thereby providing the pole protection from vehicles.
3. *Illumination Levels:*
 - a. Lighting levels at grade shall be zero (0) at property lines adjacent to residential districts, and near zero at all other property lines. Light trespassing is not appropriate.
 - b. An appropriate light pole height, in scale with the building(s) and site, shall be used to obtain the proper illumination and cannot exceed the maximum pole height as set forth in "d." below.

- c. Light levels shall be measured in the horizontal plane, at ground level.
- d. Lighting shall be evenly distributed with an average uniformity maintained to avoid “hot spots” and dark zones in all parking lots, driveways and walkways. Appropriate and adequate levels of illumination shall be provided for each particular situation.

i. Commercial and Public Activity:

Parking Lots:

- average foot candles shall not exceed 2.0
- average/minimum uniformity ratio shall be 4:1
- minimum foot candles 0.2 (exception 2.a. above)
- In the C-1 and C-2 zoning districts, the light pole height from grade shall not exceed 25 feet

Walkways:

- minimum foot candles 0.6
- average/minimum uniformity ratio shall be 4:1
- In the C-1 and C-2 zoning districts, the light pole height from grade shall not exceed 14 feet

ii. Gasoline Fuel Station:

Pump Area:

- average foot candles shall not exceed 30
- average/minimum uniformity ratio shall be 3:1

Parking and Approach:

- average foot candles shall not exceed 15
- average/minimum uniformity ratio shall be 4:1
- minimum foot candles 0.2 (exception 2.a. above)
- light pole height from grade shall not exceed 22 feet

Walkways:

- minimum foot candles 0.6
- average/minimum uniformity ratio shall be 4:1
- light pole height from grade shall not exceed 14 feet

iii. Multi-Family Residential:

Parking Lots:

- average foot candles shall not exceed 1.5
- average/minimum uniformity ratio shall be 4:1
- minimum foot candles 0.2 (exception 2.a. above)
- light pole height from grade shall not exceed 14 feet

Walkways:

- minimum foot candles 0.6
- average/minimum uniformity ratio shall be 4:1
- light pole height from grade shall not exceed 14 feet

4. *Exposed Light Source:* The use of exposed neon tubing, LED strips or exposed bulbs, such as marquee lighting, used as an accent material or otherwise, on any structure, building or sign is strictly prohibited.
 - a. Also, an exposed light source within 4 feet of the interior of a window or glass area is strictly prohibited. Only indirect lighting shall be used.
5. *Color:* Light source specifications in the site fixtures shall be consistent throughout the development in order to provide uniform color and a safe environment. Low Pressure Sodium and Mercury Vapor lamps shall not be used.
6. *Dark–Sky:* Free-standing fixtures that incorporate uplighting which causes artificial sky glow shall be avoided. Fully shielded luminaires or fixtures with interior baffling should be used. (Sky glow reduces one’s ability to view the night sky.)
 - a. All parking lot lighting shall not have light emitted above 90 degrees. See illustration.
7. *Design Plan:* Free-standing fixtures should be coordinated in appearance with building-mounted light fixtures, and shall be compatible with the overall architectural design for the property.
8. *Glare:* No light source shall cast direct or indirect (from reflective surfaces) rays that could be a hazard or a nuisance to the public. Glare can be visually disabling.
 - a. All exposed light sources shall be shielded from view from public rights-of-way and residential districts.
9. *Canopy Lighting:* Light fixtures used in a canopy structure shall be directed downwards, without light spilling from the sides of the fixture. Drop or sag lensed type fixtures are not allowed.
 - a. The sides of canopies should be non-illuminated.
10. *Interior Lighting:* During non-operational hours, the interior illumination that is visible from the exterior shall be extinguished or minimized. In no instance shall a light source, within a building, be directed to an exterior window. Exception: exposed neon signs - see Window Sign Regulations (Deerfield Zoning Ordinance, Article 9.02-B,13).

Exposed Light Source

Marquee lighting



NO Exposed light bulbs used in a window area (interior or exterior); or on a sign; or used on a building are not allowed.



NO

Exposed neon tubing



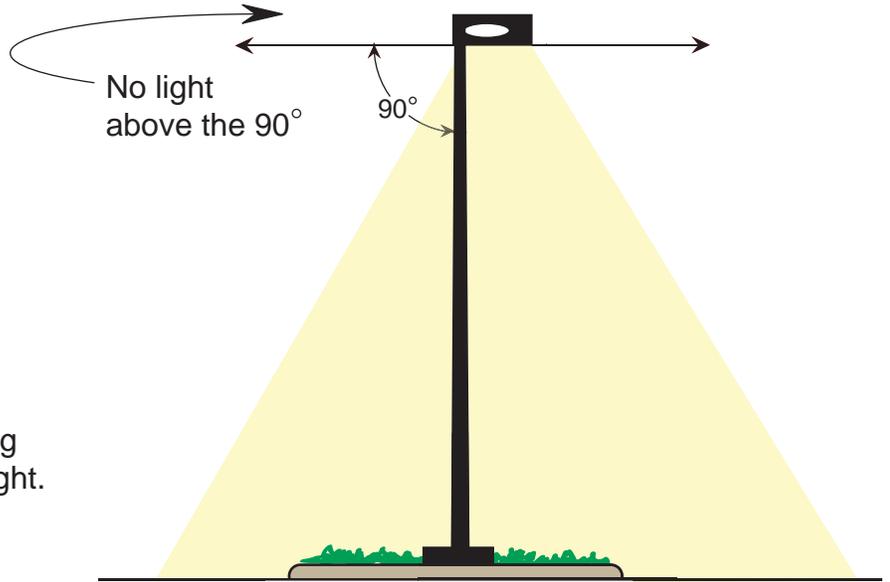
NO LED strip lighting



Dark-Sky

Parking Lot Fixtures

Parking lot fixtures shall not emit light above 90 degrees. Light sources shall be shielded to minimize glare, light trespassing and to facilitate better vision at night.



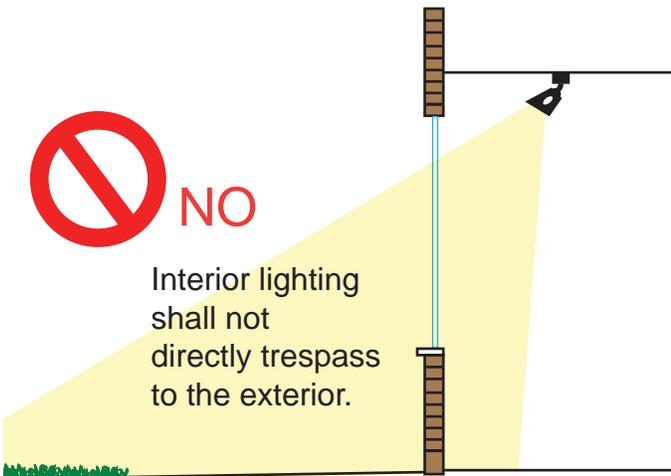
Glare

Building mounted light fixtures should not be used to illuminate a parking lot. Glare and sky glow are created.

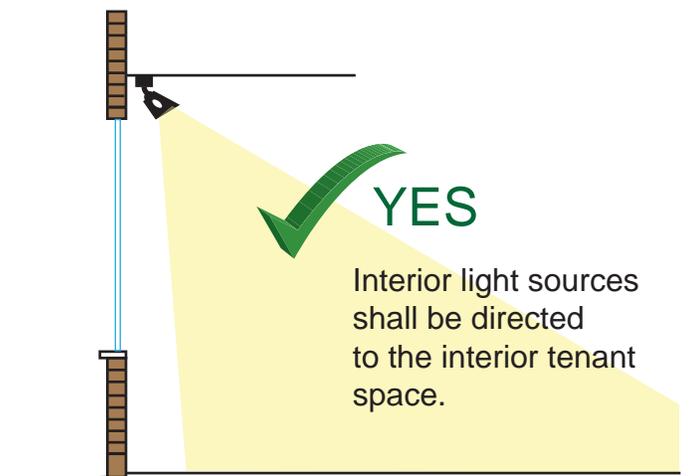
Interior Lighting



Interior lighting shall not directly trespass to the exterior.

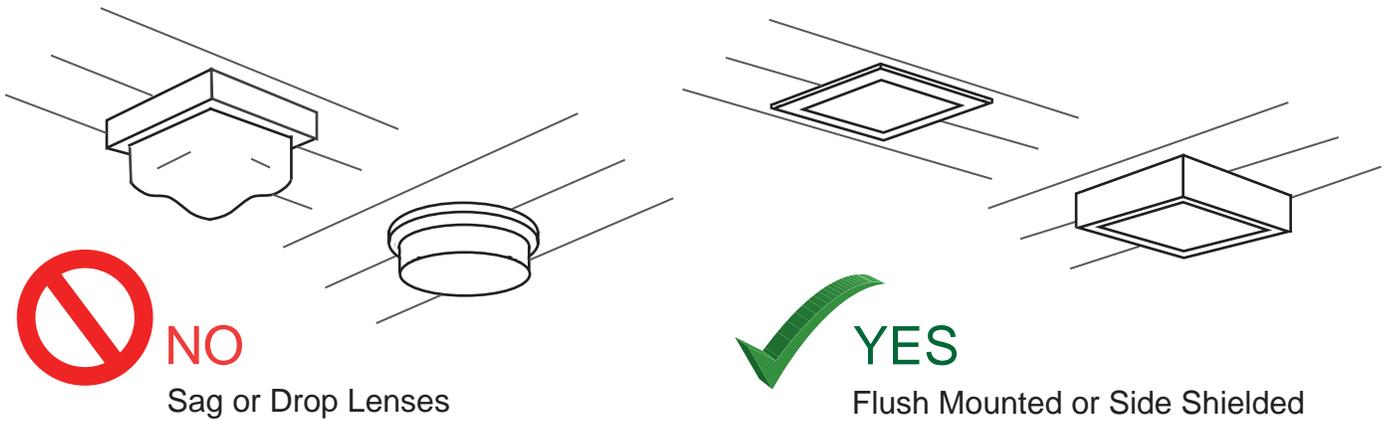


Interior light sources shall be directed to the interior tenant space.



Canopy Lighting

Canopy Fixtures



The exterior sides of a canopy shall not be illuminated.



Recessed downlighting is an appropriate method of illuminating the area beneath.



Deerfield Appearance Code

Site Design

1. *Landscaping:* A major and integral part of a project's design shall be landscaping. Good landscape design is beneficial to the Village and property owner. The retention of a landscape architect is encouraged throughout the design process.
 - a. Existing trees shall be identified and protected as part of project planning and implementation. Subject to the Deerfield Tree Preservation Ordinance; on commercially zoned property, if an existing tree having a diameter at breast height (DBH) of eight inches (8") or greater, or a multi-stem tree having an aggregate total of fifteen inches (15") DBH or greater is removed that removed caliper must be replaced per said ordinance .
 - b. The overall site landscape plan should consider options for providing color and textures throughout the growing season, along with interest created for the dormant winter season.
 - c. A variety of tree species and plant materials are encouraged. Diversity of plant materials is good for the environment, providing sustainability.
 - d. Plants native to the northeastern Illinois region should be used, where appropriate. Resource for native species: [See Appendix D: Native Plants.](#)
 - e. Plants designated as invasive species in Northeast Illinois shall not be planted. Existing invasive plants should be removed from the site. Buckthorn trees and Garlic Mustard are invasive species; other species can be found at: [See Appendix E: Invasive Species.](#)
 - f. Plants adjacent to streets and parking lots shall be salt, pollution and heat tolerant. All plantings should be hardy and resistant to disease and insects. Resource for parkway and parking lot trees: [See Appendix F: Hardy Trees.](#)
 - g. Single trunk trees shall have a straight central leader and should be a minimum of three (3) caliper inches, measured 6 inches above the ground, at the time of planting to increase the success of the tree's survival. Multi-stem trees shall be no less than seven (7) feet in height.
 - h. In the area around trees, plants or mulch should be used instead of turf grass. Lawnmowers and other equipment repeatedly disturb shallow root systems resulting in sick and dead trees.
 - i. The use of natural/unpainted mulch in planting beds is encouraged. Mulch helps retain moisture in the soil by insulating the ground which moderates the soil temperature.
 - j. In locations where plants will be susceptible to injury by pedestrian or vehicular traffic, they shall be protected by appropriate curbs, tree guards, or other devices.

- k. In ground irrigation systems are encouraged. Proper drainage is required for all planting areas to ensure healthy growth.
 - l. All landscaping must be maintained in a healthy and attractive condition. Regular maintenance should include turf mowing, organic fertilization, pruning, and clean-up of litter and debris.
- 2. *Foundation Landscaping:* Along blank building walls, a planted area of at least 5 feet in width should be established. Where space is not available, free standing planters should be utilized.
- 3. *Alternate Landscape Materials:* In areas where plantings will not thrive, other structures such as fences, walls, and paving materials including wood, brick, stone, gravel, and cobbles should be used. Carefully selected plants shall be combined with such materials where possible.
- 4. *Parking Area(s):*
 - a. Parking areas shall be designed to minimize curb cuts, and maximize pedestrian and vehicular access to adjacent lots.
 - b. Individual parking stall wheel stops are discouraged. Wheel stops can be a tripping hazard, collect garbage, and make snow plowing difficult. However, there may be a situation where wheel stops, bollards or other low barriers would be appropriate and necessary for safety reasons.
 - c. Curbed landscape islands should be established at the ends of parking rows and within large parking fields to visually break up the mass of pavement. Interior landscape islands should be provided if there are more than twelve (12) consecutive parking stalls in a row. The recommended minimum width of an island is nine (9) feet with a minimum planting area of 170 square feet.
 - d. Diamond shaped planting areas between parking stalls shall not be used as the area is not suitable for viable plant growth and is not considered good parking lot design.
 - e. Island plantings should leave a visual opening between 2 feet and 6 feet from the ground for sight lines and general safety within the parking lot.
 - f. Canopy trees shall be installed in parking lots to provide shade, among other benefits. A minimum of one (1) shade tree shall be provided for every six (6) parking stalls, and shall be located within a curbed island or within three (3) feet of the parking lot perimeter. An even distribution of trees is encouraged. At the time of planting, the minimum trunk size shall be three (3) caliper inches, measured 6 inches above the ground, or multi-stem trees seven (7) foot in height.
 - g. Consideration shall be given to designating an area(s) for snow storage. Snow piles should not interfere with vehicular or pedestrian sightlines. Care should be taken so that snow plowing and snow storage is not detrimental to the survival of plant life.

5. *Screening*: Views of parking, loading, trash pick-up, and mechanical equipment should be buffered and screened from public view.
- a. *Abutting Residential*:
 - (1) If a non-residential property abuts a residential property, the non-residential property must provide an effective screen along such lot line(s) by a screening fence or landscaped screen of not less than seven (7) feet in height (Deerfield Zoning Ordinance, Article 2.04-I, 1).
 - (2) Fence heights, in a side yard or a rear yard, shall not be greater than seven (7) feet (Deerfield Zoning Ordinance, Article 2.04-H, 3b).
 - (3) If a fence is used to screen from residential, that fence's color and material should relate to the principal structure. Also, the fence needs to be attractive on the side facing the residential property. Chain link fencing and non-commercial grade fencing shall be prohibited.
 - b. *Parking Areas*: Surface parking lots shall have a minimum five (5) foot wide landscape buffer surrounding the lot perimeter, which shall be increased to seven (7) feet if parking is perpendicular to the buffer (for vehicle overhang). For the purpose of minimizing views of parked cars from the public streets, the landscape treatment shall be a minimum height of three (3) feet (at the time of planting) in areas abutting the public right-of-way; except where trees require space and corner sightlines are necessary. The adjacent parkway (public property) shall not be used for the required landscape buffer. The perimeter landscape buffer shall be well-landscaped with a variety of salt-tolerant materials to provide seasonal interest. The improvements shall not interfere with the use of any utility easements.
 - c. *Mechanical/Utility*: Free standing transformers and utility boxes should be screened with landscaping. Where limited space exists, a solid masonry screen wall or decorative cedar wood fence may be appropriate and shall relate to the principal structure.
 - d. *Trash Containers*:
 - (1) All refuse containers shall be fully enclosed by a fence or landscaping of a height sufficient to screen such containers from view of adjoining properties and public or private ways (Deerfield Zoning Ordinance, Article 2.04-E, 2b). Refuse and waste shall be stored in accordance with the Municipal Code.
 - (2) Trash enclosures should have wall surfaces which match the material of the principal building along with metal gates. Wherever possible, the gate opening should be oriented away from public right-of-ways and public views.
 - (3) All trash enclosure should be surrounded by landscaping, where appropriate.

6. *Site Considerations:*

- a. The existing topography should be preserved, and only allowed to be modified when it contributes to a good appearance, appropriate to the site and complying with all applicable codes and ordinances.
- b. Pedestrian pathways should be provided, and the pathway should be clearly and attractively defined. Pavement textures, landscaping and lighting should be considered. Recommended is a minimum of a 5 foot wide pathway for pedestrian use, without vehicle overhang. Walking paths should be clear of any interference that could pose a hazard to the pedestrian.
- c. Ancillary structures should relate to the principal building in terms of materials, design and colors.
- d. The face of retaining walls should be a material with a texture and color that relates to the design of the principal building.

7. *Amenities:* Public art and amenities are encouraged including sculpture, plazas, pedestrian rest areas and design that create a focal point within the development.

- a. Site furnishings (waste receptacles, benches, bike racks, etc.) should be selected to relate to each other and to the principal building in terms of material, color and style.

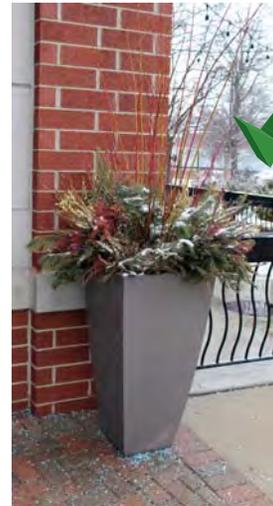
Landscaping

Seasonal Interest



Winter interest can include evergreens, ornamental grasses, berries, peeling bark and colorful stems which provide beauty even on dull winter days.

Planters should incorporate interesting plant materials throughout the year.



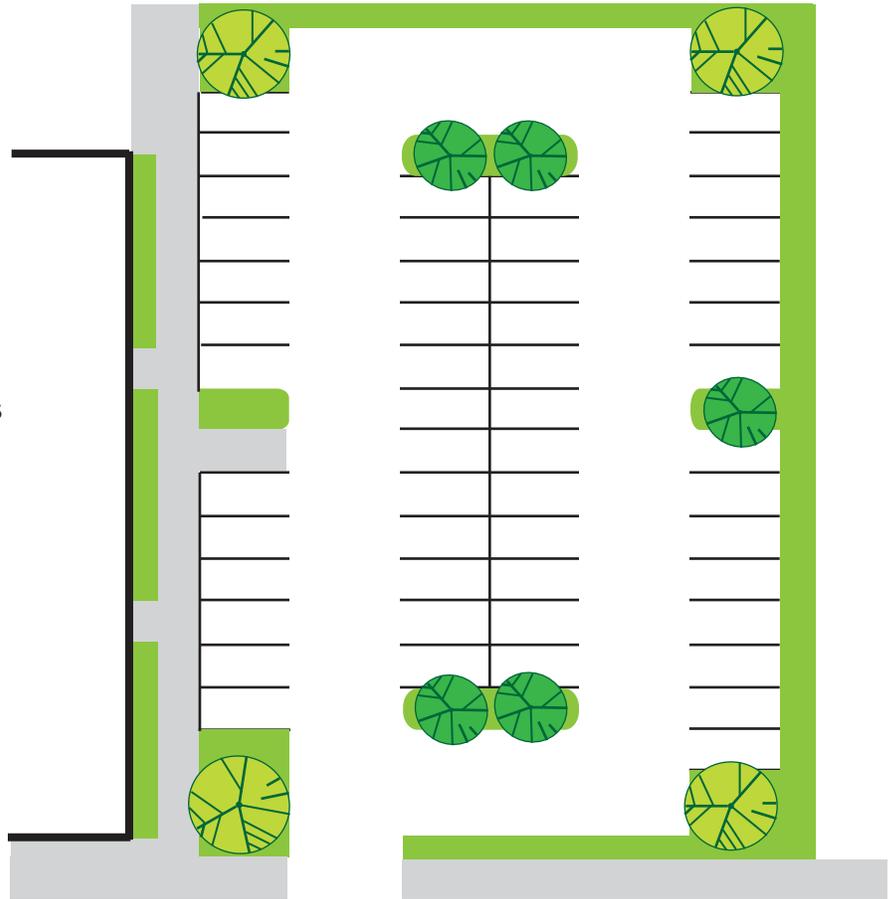
Color provides great seasonal interest. Consider adding Annuals for seasonal variety and colorful accents. Seasonal rotation of Annuals, 2 to 3 times per year, is encouraged.

Parking Area(s)



In a parking lot, 52 vehicle stalls would require a minimum of 9 canopy trees. (one tree for each 6 parking spaces, or part thereof)

See: Site Design - Parking Area(s) c. and f.



Diamond shaped planting areas within a parking lot do not provide a tree with a reasonable chance of survival. Trees need a sufficient area of quality soil for successful tree growth.



Trees Provide Value

Trees provide shade and reduce heat impacts.
Trees improve the air quality.
Trees increase property values.
Trees are to be enjoyed by all.



Consider planting an Oak Tree(s).

Trash Containers



Unscreened garbage container



The building materials are used for the trash enclosure with landscaping added.

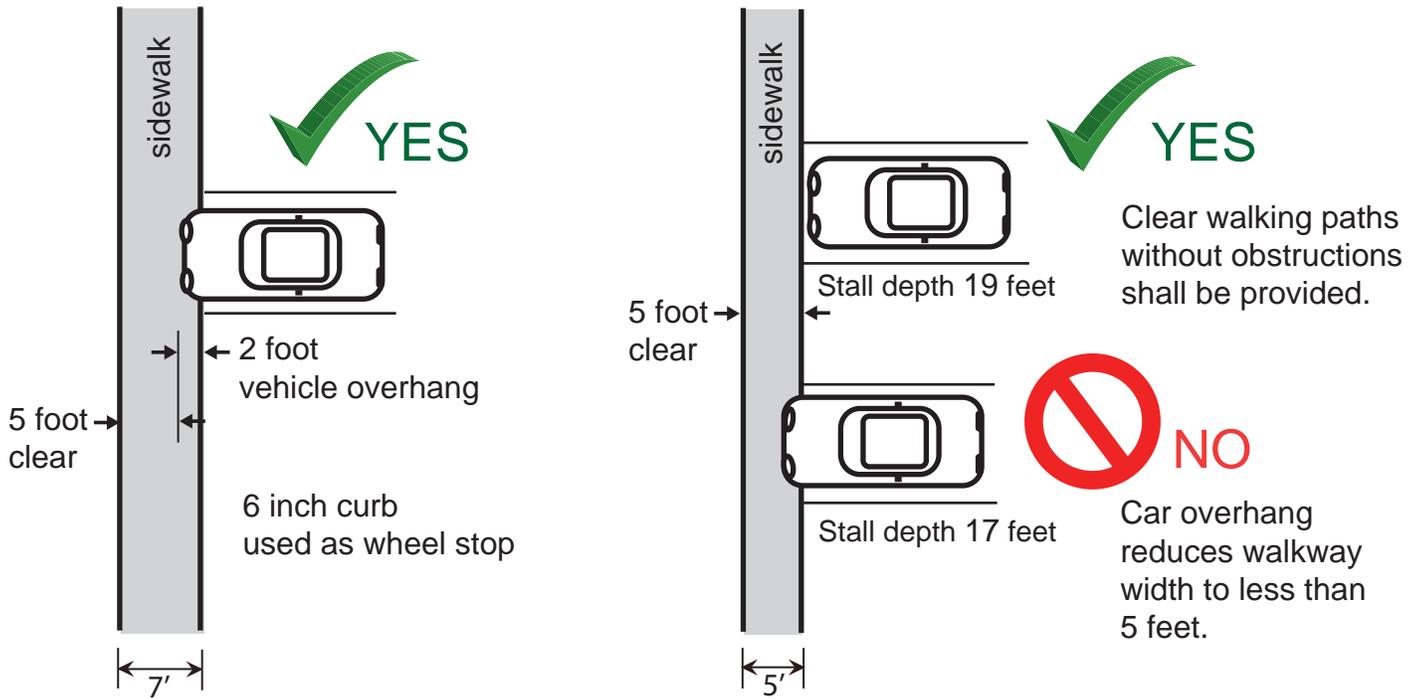


The trash containers are stored within the building.



Multi-tenant buildings should have uniformly designed trash enclosures, with materials and design that match the building architecture.

Site Considerations



Amenities



Art sculpture(s) add interest and beauty to a site. The size and placement of an art object should relate to the building(s) and site.

Deerfield Appearance Code

Maintenance and Upkeep

Maintenance and upkeep are required for all the parts and objects which compose the Village's image. Lawns and plantings require considerably more periodic attention than do buildings; nonetheless both require maintenance in order to retain a good appearance. Proper maintenance increases value and results in a good appearance. Therefore, it is necessary that maintenance be a concern of the Appearance Review Commission and the Appearance Code.

1. *Buildings, Structures and Appurtenances:*

- a. Buildings, structures and appurtenances, including signs, shall be cleaned and painted or repaired as required to present a neat appearance.
- b. Deteriorated, worn, or damaged elements shall be rebuilt or replaced to original condition.
- c. Building and sign illuminated elements shall be promptly replaced as required to maintain the effect for which designed.

2. *Site:*

- a. Landscape materials and street hardware other than planting, which have deteriorated or have been damaged or defaced, shall be promptly and properly repaired or replaced to original condition.
- b. Plant materials which have deteriorated or died shall be replaced with healthy plantings at the earliest opportunity. All changes to landscape plans must be approved by the Appearance Review Commission before installation.
- c. Plantings, including lawns, shall be kept watered, fed, cultivated, and pruned (mowed, as case may be) as required to give a safe, healthy and well-groomed appearance during all seasons.
- d. Paved areas shall be kept in good repair, property marked, and clear of litter, obstructions and debris.
- e. Vacant property shall be kept free of refuse, deadfalls and debris, and shall have the vegetation cut periodically during the growing season in accordance with applicable municipal ordinances.

Deerfield Appearance Code

DEFINITIONS

Definitions included in this section are of those words or terms generally used in the Appearance Criteria, and which are not in common usage, or the meaning of which differs from the usual definition, or which could be misconstrued as to meaning.

Appearance: The outward aspect visible to the public.

Appurtenances: The visible, functional objects accessory to and part of buildings.

Architectural character: The composite or aggregate of the characteristics of structure, form, materials, and function of a building, group of buildings, or other architectural composition.

Architectural concept: The basic aesthetic idea, architectural design and character of a building or group of buildings or structures, including the site and landscape development, which produces the architectural character.

Architectural feature: A prominent or significant part or element of a building, structure, or site.

Architectural style: The characteristic design and detail, as of buildings of a particular historic period.

Attractive: Having logic of design that arouses interest and pleasure in the observer.

Berm: A raised form of earth to provide screening or to improve the aesthetic character.

Code: All applicable codes and ordinances of the Village.

Cohesiveness: Unity of composition between design elements of a building, or a group of buildings, and the landscape development.

Compatibility: Harmony in the appearance of two or more buildings, structures, and landscape developments in the same vicinity.

Conservation: The protection and care which prevent destruction or deterioration of historical or otherwise significant structures, buildings, or natural resources.

Contextualism: Incorporating new design concepts with mutual respect of earlier built architectural styles, to form a new, complete, and whole architectural concept, satisfying functional and aesthetic requirements of a new program and existing site conditions.

Exterior building component: An essential and visible part of the exterior of a building.

External design feature: The architectural style and general arrangement of such portion of a building or structure as is to be open to view from a public or private street, place, way, or adjacent property, including but not limited to the kind, color, and texture of the building material of such portion and the type of windows, doors, and lights attached, or ground signs and other fixtures appurtenant to all of the foregoing.

Foot candles: The unit of measure expressing the quantity of light received on the surface. One foot candle is the illuminance produced by a candle on a surface one foot square from a distance of one foot.

Fully shielded luminaire: A luminaire emitting no light above the horizontal plane.

Glare: Light entering the eye directly from luminaires or indirectly from reflective surfaces that cause visual discomfort or reduced visibility.

Graphic element: A letter, illustration, symbol, figure, insignia, or other device employed to express and illustrate a message or part thereof.

Harmony: A quality which produces an aesthetically pleasing whole as in an arrangement of varied architectural and landscape elements.

IESNA or IES: Illuminating Engineering Society of North America. An organization that recommends standards for the lighting industry. The IESNA is a recognized technical authority on illumination.

Landscape: Elements of nature, topography, building and other manmade or natural objects combined in relation to one another.

Light trespass: Light that falls beyond the property it is intended to illuminate.

Logic of Design: Accepted principles and criteria of validity in the solution of the problem of design.

Mechanical equipment: All equipment, devices, and accessories whether or not attached to a structure, the use of which relates to water supply, drainage, heating, ventilating, air conditioning, refrigeration, alternative energy systems, and similar purposes.

Miscellaneous structures: All freestanding structures, other than habitable buildings or freestanding mechanical equipment, visible from public or private street, place, way, or adjacent property. Included but not limited to memorials, stagings, antennas (mast type, satellite dish, tower), water tanks and towers, sheds, shelters, fences, walls, trash receptacles, kennels, transformers, drive-up or walk-up facilities (e.g. Automatic Teller Machines).

Parapet: The portion of a building's exterior wall that continues above the roof line.

Plant materials: Trees, shrubs, vines, ground covers, grass, perennials, annuals, and bulbs.

Proportion: Relationship of parts of a building, landscape, structures, or buildings to each other and to the whole; balance.

Public Activity: A property which is used by the general public, such as the Public Library, Village Hall, Post Office, Park District Community Center and Church.

Public way: Shall include a public street, public right-of-way, easement for access, or parking area.

Rules of Procedure: Regulations adopted by the Appearance Review Commission for the administration of duties delegated by the Mayor and Board of Trustees.

Scale: Harmonious relationship of the size of elements to one another and to the human figure.

Screening: Structure, planting or decorative features which effectively limit the view of the area behind such structure, planting or decorative feature from a public or private street, place or decorative features.

Shrub: A multi-stemmed woody plant other than a tree.

Sky glow: The brightening of the nighttime sky that results from scattering and reflection of artificial light by moisture and dust particles in the atmosphere. Skyglow is caused by light directed or reflected upwards or sideways and reduces one's ability to view the night sky.

Sign: Every name, identification, description, announcement, declaration, demonstration, display, flag, illustration or insignia, and the structure displaying or supporting any of the same, affixed directly or indirectly to or upon any building or outdoor structure, or erected or maintained upon land, which directs attention to an object, product, place, activity, person, institution, organization or business. The term "sign" shall include but is not limited to any flashing, rotating, moving, or animated device which is entirely within any enclosed building, whether or not said sign or device can be observed from the outside of the building.

Site break: Structural or landscape elements used to interrupt long vistas and create visual interest in a site development.

Street hardware: Manmade objects other than buildings which are part of the streetscape, including but not limited to lamp posts, traffic lights and signs, benches, litter containers, planting containers, letter boxes, fire hydrants.

Streetscape: The scene as may be observed from a public or private street, place, way, or adjacent property composed of natural and manmade components, including but not limited to buildings, paving, planting, street hardware, and miscellaneous structures.

Uniformity ratio: The ratio of the average brightness to the minimum brightness, or the ratio of the brightest spot to the dimmest spot. This ration is used to ensure the lit area is uniformly lit with no overly-bright or overly-dim areas that would impact vision.

Utility hardware: Devices such as poles, crossarms, transformers and vaults, gas pressure regulating assemblies, hydrants, and buffalo boxes that are used for water, gas, oil, sewer, and electrical services to a building or a project.

Utility service: Any system, including, but not limited to, wire, pipe, or conduit which carries gas, water, electricity, oil, and communications into a building or development.

Village: The Village of Deerfield, Illinois.

Deerfield Appearance Code

APPENDICES

Trees and Shrubs Native to Northeastern Illinois

Lake County's Invasive Plant Species

Deerfield Tree List for Restricted Sites
(suggested hardy native trees)

Information provided by Conserve Lake County



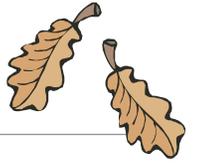
Why plant native? Our remaining songbirds and butterflies cannot survive solely on the European and Asian trees and shrubs that cover so much of our suburban landscape. They need trees and shrubs native to northeastern Illinois because of intricate food chain requirements. Native shrubs and trees provide food, places to hide and rest, and places to lay eggs and raise young. Many of these features are subtly timed to synchronize with other species. Native shrubs and trees provide a wise investment compared to delicate or high-maintenance cultivars. They are generally more resistant to disease and, once established, require relatively small amounts of water and no fertilizer.

Trees and Shrubs Native to Northeastern Illinois



Common Name	Scientific Name	Soil Moisture Preference	Grows Best In	Mature Height (ft)	Mature Width (ft)	Notable Features
Trees						
Black Maple	<i>Acer nigrum</i>	dry-medium	part sun	60-70	35-55	Grows well in shade; great fall color
Sugar Maple	<i>Acer saccharum</i>	medium	shade to sun	60-75	40-55	Great fall color; shade tolerant; possibility for replacing ash trees
Ohio Buckeye	<i>Aesculus glabra</i>	medium-wet	shade to sun	20-40	20-30	Grows well in shade, does not do well in compacted soils
Serviceberry, Juneberry	<i>Amelanchier arborea</i>	medium-dry	part sun	15-25	10-15	Showy flowers mature into berries; people and birds love
Inland Shadblow	<i>Amelanchier interior</i>	dry/well-drained	part sun	15-20	10-15	Showy flowers mature into berries; people and birds love
Alleghany Serviceberry	<i>Amelanchier laevis</i>	dry/well-drained	shade to sun	20-25	15-18	Showy flowers mature into berries; people and birds love
Pawpaw	<i>Asimina triloba</i>	medium-wet	part shade	15-20	15-20	Protect from south and west; large fruit but 2 or more needed to produce it
River Birch	<i>Betula nigra</i>	wet-medium	full sun	30-40	20-30	Very drought sensitive; pretty peeling bark
Paper Birch	<i>Betula papyrifera</i>	medium-dry	full sun	50-70	30-40	Best suited to cool ravines
Blue Beech, Musclewood	<i>Carpinus caroliniana</i>	medium-wet	part sun	25-35	20-30	Great fall color; sinewy bark; good for screen or hedge
Bitternut Hickory	<i>Carya cordiformis</i>	medium-wet	part sun	50-75	30-40	Yellow fall color; important for birds/butterflies
Pignut Hickory	<i>Carya glabra</i>	medium-dry	part sun	50-75	30-40	Yellow fall color; important for birds/butterflies
Kingnut Hickory	<i>Carya laciniosa</i>	wet-medium	part sun	75-100	50-75	Yellow fall color; important for birds/butterflies
Red Hickory	<i>Carya ovalis</i>	dry/well-drained	part sun	50-75	40-50	Yellow fall color; important for birds/butterflies
Shagbark Hickory	<i>Carya ovata</i>	medium-dry	part sun	60-80	40-50	Yellow fall color; important for birds/butterflies
Mockernut Hickory	<i>Carya tomentosa</i>	dry/well-drained	part sun	50-75	30-40	Yellow fall color; important for birds/butterflies

Common Name	Scientific Name	Soil Moisture Preference	Grows Best In	Mature Height (ft)	Mature Width (ft)	Notable Features
Hackberry	<i>Celtis occidentalis</i>	medium-wet	full sun	40-60	40-50	Very adaptable; important for migrating birds
Eastern Redbud	<i>Cercis canadensis</i>	medium	part sun	15-20	20-25	Very showy purple flowers in spring
Pagoda Dogwood	<i>Cornus alternifolia</i>	medium	shade to part sun	15-25	15-25	Birds love the fruit; beautiful shape with white flowers
Scarlet Hawthorn	<i>Crataegus coccinea</i>	dry-medium	full sun	20-30	20-35	Birds love the berries and protection offered by thorns; showy flowers
Cockspur Hawthorn	<i>Crataegus crus-galli</i>	medium	full sun	20-30	20-35	Birds love the berries and protection offered by thorns; fragrant flowers
Downy Hawthorn	<i>Crataegus mollis</i>	medium	full sun	20-30	20-35	Birds love the berries and protection offered by thorns; picturesque shape
American Beech	<i>Fagus grandifolia</i>	medium	shade	50-60	40-50	Outstanding golden fall color
Kentucky Coffee Tree	<i>Gymnocladus dioica</i>	dry/well-drained	full sun	50-60	40-50	Widely adaptable to urban areas
Butternut	<i>Juglans cinerea</i>	medium-dry	full sun	40-50	30-50	Nuts are milder in taste than the black walnut
Black Walnut	<i>Juglans nigra</i>	medium-dry	full sun	50-60	30-50	Beautiful tree; important for butterflies
Tamarack	<i>Larix laricina</i>	wet-medium	full sun	30-50	20-30	Soft, tufted needles turn golden and drop in fall
Prairie Crab	<i>Malus ioensis</i>	dry-medium	full sun	15-20	10-15	Apples eaten by wildlife in winter; gorgeous flowers in spring; will sucker
Black Gum	<i>Nyssa sylvatica</i>	dry-medium	full sun	30-50	25-30	Glossy orange/red fall color; birds devour fruit in fall; protect from west winds
Hop Hornbeam, Ironwood	<i>Ostrya virginiana</i>	medium-dry	shade to sun	25-40	15-20	Grows well in shade, offering critical mid-layer height; can be used as a screen
White Pine	<i>Pinus strobus</i>	medium-dry	sun	50-80	20-40	Tolerates light shade; needs good soil and protection from west wind
Sycamore	<i>Platanus occidentalis</i>	wet-medium	part sun	75-100	50-75	Fast growing tree with distinctive white and green bark; drought intolerant
Big Tooth Aspen	<i>Populus grandidentata</i>	wet-medium	full sun	45-55	30-45	Fast growing; soil needs to be well-drained
Quaking Aspen	<i>Populus tremuloides</i>	medium-wet	full sun	30-45	15-20	Fast growing; suckers vigorously - one plant will get you 10 in 2 years
White Oak	<i>Quercus alba</i>	medium-dry	part sun to sun	50-80	50-80	High ecological value; majestic tree; state tree



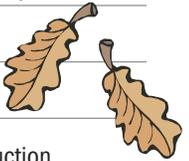
Common Name	Scientific Name	Soil Moisture Preference	Grows Best In	Mature Height (ft)	Mature Width (ft)	Notable Features
Swamp White Oak	<i>Quercus bicolor</i>	wet-medium	part sun to sun	50-60	50-60	High ecological value; requires moist soil
Scarlet Oak, Hill's Oak	<i>Quercus coccinea</i> (or <i>Q. ellipsoidalis</i>)	dry/well-drained	full sun	40-75	40-75	High ecological value; does well as a street tree, great fall color
Shingle Oak	<i>Quercus imbricaria</i>	medium	full sun	40-50	40-50	High ecological value; adaptable to a variety of soils
Bur Oak	<i>Quercus macrocarpa</i>	medium-wet	full sun	50-80	50-80	High ecological value; majestic tree; tolerates wide range of soils
Chinquapin Oak	<i>Quercus muhlenbergii</i>	medium-dry	full sun	50-80	50-70	High ecological value; drought resistant and tolerates high soil pH
Pin Oak	<i>Quercus palustris</i>	wet-medium	full sun	60-70	40-50	High ecological value; susceptible to disease if not in acidic soil
Northern Red Oak	<i>Quercus rubra</i>	medium-dry	part sun	60-80	60-75	High ecological value; grows in shade
Black Oak	<i>Quercus velutina</i>	dry/well-drained	full sun	50-75	50-60	High ecological value; does best on sand or gravel
Sassafras	<i>Sassafras albidum</i>	medium-dry	shade to sun	20-30	25-40	Prefers acidic soil
White Cedar, Arbor Vitae	<i>Thuja occidentalis</i>	wet-medium	part sun	30-40	10-15	Fairly adaptable but does not like dry and hot, butterfly host
Basswood, American Linden	<i>Tilia americana</i>	medium	full to part sun	60-80	30-40	Important butterfly host



Shrubs

Bearberry, Kinnikinnick	<i>Arctostaphylos uva-ursi</i> var <i>coactilis</i>	dry/well-drained	part sun	6 inches	3-5	Broadleaf evergreen; prefers acidic soil
Speckled Alder	<i>Alnus incana</i> var <i>rugosa</i>	wet	part sun	10-15	10-15	Fast growing; fixes nitrogen in soil that can be used by other plants
Lead Plant	<i>Amorpha canescens</i>	dry/well-drained	part sun to sun	2-4	2-4	Purple to blue flowers; normal for tips of branches to die back in winter
False Indigo Bush	<i>Amorpha fruticosa</i>	wet-medium	full sun	6-15	5-15	Purple to blue flowers; normal for tips of branches to die back in winter
Black Chokeberry	<i>Aronia melanocarpa</i>	wet-medium	part sun	3-5	6-8	Vibrant red-orange fall color; berries persist into winter
New Jersey Tea	<i>Ceanothus americanus</i>	dry/well-drained	part sun to sun	3-4	3-5	White flowers attract butterflies and pollinators
Buttonbush	<i>Cephalanthus occidentalis</i>	wet	part sun to sun	6-12	12-18	Will grow in standing water or good garden soil; white flowers

Common Name	Scientific Name	Soil Moisture Preference	Grows Best In	Mature Height (ft)	Mature Width (ft)	Notable Features
Sweet Fern	<i>Comptonia peregrina</i>	dry/well-drained	part sun	2-4	4-8	Lovely scent; great ground cover; needs well-drained soil; can be aggressive
Blue-fruited Dogwood	<i>Cornus obliqua</i>	wet-medium	part sun	6-10	6-10	Birds relish the shiny blue fruit; reddish-purple fall color
Red Osier Dogwood	<i>Cornus stolonifera</i>	wet-medium	full sun	7-9	7-10	To keep stems red, prune older stems to ground in spring before leaves emerge
Hazelnut, Filbert	<i>Corylus americana</i>	medium-wet	part sun	6-8	6-8	Tasty nuts; better nut production when you have 3 or more plants
Dwarf Honeysuckle	<i>Diervilla lonicera</i>	medium-dry	full sun to shade	2-3	2	Small mounding shape makes a nice choice for shrub borders; showy red, yellow and orange fall color.
Wahoo, Native Burning Bush	<i>Euonymus atropurpureus</i>	medium-wet	shade to sun	6-10	6-10	Bright red fall color and attractive fruit; needs some protection from wind
Witch Hazel	<i>Hamamelis virginiana</i>	medium	part sun to sun	15-20	15-20	Yellow flowers bloom in fall; needs a fine, moist, well-drained soil
Wild Hydrangea	<i>Hydrangea arborescens</i>	medium-wet	shade	3-5	5-8	Shade tolerant, white flowers bloom in June and July
Kalm's St. John's Wort	<i>Hypericum kalmianum</i>	wet-medium	full sun	2-5	3-6	Beautiful yellow flowers; looks great in masses
Shrubby St. John's Wort	<i>Hypericum prolificum</i>	medium-dry	part sun	2-5	3-6	Yellow summer-blooming flowers
Winterberry	<i>Ilex verticillata</i>	wet-medium	shade to sun	6-10	6-10	Showy red berries in fall, plant 3 - 5 for fruit production
Common Juniper	<i>Juniperus communis</i>	dry/well-drained	full sun	4-8	8-10	Sprawling evergreen for sandy soil
Spicebush	<i>Lindera benzoin</i>	wet-medium	shade to sun	6-12	6-12	Small yellow flowers in spring, brilliant yellow fall color; shade tolerant
Ninebark	<i>Physocarpus opulifolius</i>	wet-medium	shade to sun	5-10	6-10	Durable large shrub with exfoliating bark; great in borders
Shrubby Cinquefoil	<i>Potentilla fruticosa</i>	wet-medium	full sun	1-4	2-4	Bright yellow flowers in summer; vigorous and hardy
American Plum	<i>Prunus americana</i>	dry/well-drained	full sun	15-25	15-20	Beautiful, edible fruit; maroon-red fall color; will sucker freely to create thicket
Common Choke Cherry	<i>Prunus virginiana</i>	medium-wet	full sun	15-20	10-15	White spring flowers, birds relish berries; red-orange fall color
Wafer Ash	<i>Ptelea trifoliata</i>	medium-dry	shade to sun	15-20	10-15	Flowers, leaves and fruit very aromatic, winter seed interest, grows on tough sites
Fragrant Sumac	<i>Rhus aromatica</i>	dry/well-drained	part shade to sun	2-6	6-10	Excellent reddish-orange fall color with bright red fruit; great habitat plant
Darf Sumac, Shining Sumac	<i>Rhus copallina</i>	dry/well-drained	sun	6-10	3-6	Brilliant fall color; must have light, well-drained soil (sand is best) and full sun





Common Name	Scientific Name	Soil Moisture Preference	Grows Best In	Mature Height (ft)	Mature Width (ft)	Notable Features
Smooth Sumac	<i>Rhus glabra</i>	dry/well-drained	full sun	10-15	10-25	Best tall sumac for clay soils; great fall color; suckers; ideal for berm
Staghorn Sumac	<i>Rhus typhina</i>	dry/well-drained	sun	15-25	15-20	Red-orange fall color; beautiful shape; suckers vigorously into lovely thickets
Wild Black Currant	<i>Ribes americanum</i>	wet-medium	shade to sun	3-6	3-6	Edible fruit; does well in dry shade under older oaks; nice fall color
Prickly Wild Gooseberry	<i>Ribes cynosbati</i>	medium-dry	part shade to sun	3-6	3-6	Edible fruit looks prickly but doesn't hurt; adapts to shade and a range of soils
Wild Gooseberry	<i>Ribes missouriense</i>	dry/well-drained	part shade to sun	3-6	3-6	Edible fruit but be cautious of thorns; when grown in full sun, fall color is dark purple
Early Wild Rose	<i>Rosa blanda</i>	medium-dry	full sun	4-8	4-8	Blooms late May-early June; rose hips are red and sizable; creates a thicket
Pasture Rose	<i>Rosa carolina</i>	medium-dry	full sun	3-6	6-10	Creates loose thickets; blooms heavily in June; small crimson hips in fall
Scarlet Rose	<i>Rosa palustris</i>	wet	part sun	3-6	3-6	Numerous bright scarlet rose hips are showy in winter
Illinois Rose	<i>Rosa setigera</i>	medium-dry	full sun	3-4	10-15	Can be used as a hardy climbing rose; recommend 'renewal pruning' every 3 years
Purple Flowering Raspberry	<i>Rubus odoratus</i>	dry/well-drained	part sun	3-6	3-6	Showy purple flowers; can grow in denser shade but then will not flower or fruit well
Pussy Willow	<i>Salix discolor</i>	wet-medium	part shade to sun	25-35	12-15	Furry one inch long catkins emerge in early spring
Prairie Willow	<i>Salix humilis</i>	medium-dry	part sun	6-12	6-12	Yellow fall color; creates colonies
Elderberry	<i>Sambucus canadensis</i>	medium	shade to sun	6-12	6-12	Showy white flowers, shiny purple fruit for birds and humans; great for borders with half day sun
Meadowsweet	<i>Spiraea alba</i>	wet-medium	part sun to sun	2-3	2-3	Can grow in standing water; cone-shaped white flower blooms in June
Steeplebush	<i>Spiraea tomentosa</i>	medium-wet	full sun	3-6	3-6	Spectacular pink blooms in July
Snowberry	<i>Symphoricarpos albus</i>	medium-dry	shade to sun	3-6	3-6	Large white berries persist throughout winter
Early Low Blueberry	<i>Vaccinium angustifolium</i>	medium-dry	full sun	2-3	2-3	Blueberries are small but numerous; attracts many birds and pollinators



Common Name	Scientific Name	Soil Moisture Preference	Grows Best In	Mature Height (ft)	Mature Width (ft)	Notable Features
Maple-leaved Arrowwood	Viburnum acerifolium	dry/well-drained	shade to sun	3-6	4-5	Rose-red fall color; creamy white flowers give way to black berries popular with birds
Nannyberry	Viburnum lentago	medium-wet	part sun	15-20	10-15	Fabulous fall color; beautiful white flowers in May; berries popular with birds
Blackhaw	Viburnum prunifolium	medium-dry	shade to sun	12-15	8-12	Makes a nice hedge, one of the more shade-tolerant viburnums; birds relish fruit
Downy Arrowwood	Viburnum rafinesquianum	dry/well-drained	part sun	12-15	8-12	Glossy leaves turn crimson in fall; great for butterflies
Highbush Cranberry	Viburnum trilobum	wet-medium	part sun	8-12	8-12	Scarlet-red fruit and nice fall color
Prickly Ash	Xanthoxylum americanum	dry/well-drained	part shade to sun	8-12	5-10	Important food source for giant swallowtail butterfly; very thorny; can be aggressive

Why are scientific names important? When looking to buy native plants, use the scientific name to ensure you are buying a true native and avoid plants whose scientific names include words in single quotes such as *Acer saccharum* ‘Legacy’ or *Viburnum carlesii* ‘Compactum.’ Cultivars, ornamentals and nativars can perform beautifully in a landscape but be aware that they generally may lack features of true natives that are needed by songbirds, butterflies and others who share ancient relationships with them that impact species survival. Slight alterations to nectar, blooms, fruits, thorns, leaves and roots may interfere with critical needs.

This list is limited to those native species that might generally be available from nurseries that grow trees and shrubs native to northeastern Illinois. It was developed with technical support from The Morton Arboretum. For a more detailed list, see *Plants of the Chicago Region* by Swink and Wilhelm.

How to select trees and shrubs

1. When buying trees and shrubs, select ones that are small and young. They’ll be less expensive, fit in your car, require a smaller hole, adapt faster to your site and need less watering while getting established. They’ll typically catch up to larger-sized specimens in no time.
2. Choose your species carefully. Pick something well-suited to your soil moisture and sunlight so it can survive and thrive. When shopping, don’t be enticed by a good-looking plant that is poorly suited to your site.
3. Pay attention to mature size and keep large species far enough away from buildings and power lines.
4. Plant, water and mulch properly. See www.conservelakecounty.org for simple planting and care tips.

Congratulations - While improving your property’s value and beauty, you are helping people and nature today and for generations to come.



32492 N Almond Road, Grayslake, IL 60030
847.548.5989 www.ConserveLakeCounty.org

Did you know? Conserve Lake County holds a **Native Tree and Shrub Sale** every spring and fall at beautiful Almond Marsh in Grayslake.



Invasive Plant Species - Lake County's worst of the worst

Invasive Plant Species

[Oriental bittersweet](#)

[Asian bush honeysuckle](#)

[Burning bush \(View Video\)](#)

[Canada thistle](#)

[Common & glossy buckthorn](#)

[Common reed](#)

[Common & cut-leaved teasel](#)

[Crown vetch](#)

[Field & Japanese hedge parsley](#)

[Flowering rush](#)

[Garlic mustard](#)

[Japanese barberry](#)

[Japanese honeysuckle](#)

[Narrow-leaved & hybrid cattail](#)

[Moneywort](#)

[Multiflora rose](#)

[Purple loosestrife](#)

[Reed canary grass](#)

[White & yellow sweetclover](#)

[Yellow Iris](#)

Celastrus orbiculatus

Lonicera maackii, L. morrowii, L. tatarica, & L. x bella

Euonymus alatus

Cirsium arvense

Rhamnus cathartica & Frangula alnus

Phragmites australis

Dipsacus fullonum & D. laciniatus

Securigera varia

Torilis arvensis & T. japonica

Butomus umbellatus

Alliaria petiolata

Berberis thunbergii

Lonicera japonica

Typha angustifolia & T. x glauca

Lysimachia nummularia

Rosa multiflora

Lythrum salicaria

Phalaris arundinacea

Melilotus alba & M. officinalis

Iris pseudacorus

Deerfield Appearance Code, Appendix 3 (Site Design 1.f.)

Deerfield Tree List - Restricted Sites		www.ConserveLakeCounty.org																	
All are native to northeastern IL and hardy to USDA Zone 5.		Planting Site*					Size			Prefers				Tolerates		Notes			
Scientific Name	Common Name	Parkway	Wide median	Sidewalk cutout	Parks and Residential	Under utility lines	Small (<25')	Medium (25-40')	Large (>40')	Full Sun	Partial Shade	Shade	Moist, well-drained soil	Road salt spray	Acidic soil		Alkaline soil	Drought (once established)	Poor drainage
<i>Acer nigrum</i>	Black maple	•	•		•				•		•	•			•	•			Sensitive to salt spray; prefers acidic soils; avoid overplanting
<i>Aesculus glabra</i>	Ohio buckeye	•		•	•		•	•			•	•	•		•				Moderate tolerance of salt spray
<i>Amelanchier interior</i>	Inland shadblow		•		•	•	•			•	•	•			•	•			
<i>Amelanchier laevis</i>	Alleghany serviceberry, Juneberry	•	•		•	•	•				•	•	•		•		•		Sensitive to salt spray
<i>Betula nigra</i>	River birch			•	•			•		•					•			•	Moderate tolerance of salt runoff and spray; sensitive to drought
<i>Carya ovata</i>	Shagbark hickory	•	•		•			•		•	•			•	•	•	•		When young, does best in shade
<i>Celtis occidentalis</i>	Hackberry	•	•	•	•				•	•	•	•	•	•	•	•	•	•	Weak wood; moderate tolerance of salt spray
<i>Gymnocladus dioica</i>	Kentucky coffeetree	•	•	•	•			•	•				•	•	•	•	•	•	Poisonous leaves/seeds; tolerates salt runoff
<i>Juglans nigra</i>	Black walnut	•	•		•			•	•				•	•					Produces a chemical that restricts nearby growth of some plants
<i>Nyssa sylvatica</i>	Tupelo, black gum	•	•		•		•	•	•				•		•				Moderate tolerance of salt runoff and spray, and poor drainage
<i>Ostrya virginiana</i>	Ironwood, hophornbeam	•	•		•		•	•	•	•	•	•			•	•	•		
<i>Platanus occidentalis</i>	Sycamore	•	•		•			•	•						•	•		•	Sensitive to drought; moderate tolerance of salt runoff and spray
<i>Quercus alba</i>	White oak	•	•		•			•	•	•				•			•		Moderate tolerance of salt spray
<i>Quercus bicolor</i>	Swamp white oak	•	•	•	•			•	•					•		•	•		Moderate tolerance of salt runoff and spray
<i>Quercus ellipsoidalis</i>	Hill's oak	•	•		•			•	•				•		•	•	•		Prefers acidic soils
<i>Quercus imbricaria</i>	Shingle oak	•	•	•	•			•	•					•		•	•		
<i>Quercus macrocarpa</i>	Bur oak	•	•		•			•	•					•		•	•	•	
<i>Quercus rubra</i>	Red oak	•	•		•			•	•	•	•	•		•		•	•	•	Moderate tolerance of salt runoff
<i>Quercus velutina</i>	Black oak	•	•		•			•	•	•				•	•	•	•		Prefers acidic soils
<i>Tilia americana</i>	Basswood, American linden	•			•			•	•				•		•	•			Can tolerate light shade
<p>*Planting Site Considerations: Adequate growing conditions are essential to every living thing. Whether planted in a parkway, median or sidewalk cutout, all trees need clean water, healthy soil and appropriate amounts of space, sunlight and air. Taking time to prepare a good site, select the best species for each site and properly plant, mulch and prune will pay off handsomely on new investments in trees.</p>		<p>Why are scientific names important? Many trees are known by a variety of common names, so the scientific name is the only way to ensure clear communication about a species. When you seek to design with or purchase native species, the scientific name will have just two words, such as <i>Acer saccharum</i>. In contrast, the scientific name of a cultivar will include one or two additional words in quotes, such as <i>Acer saccharum 'Legacy'</i>. Cultivars possess distinct differences from their native counterparts.</p>														<p>Why are native trees important? Unlike cultivars and exotics, native trees proudly celebrate and showcase this region's natural and cultural heritage. They originated on this landscape with these soils, winters and rain patterns. Thus, when care is taken to select species well-suited to each site, and they are properly planted and cared for, native species can thrive and help to avoid expensive mistakes. Also, due to ancient and subtle relationships, many of our remaining songbirds and butterflies cannot survive on the Asian, European and western trees that currently dominate suburban landscapes. They rely on species native to this region for food and shelter while migrating, seeking shelter and raising their young.</p>			

Deerfield Appearance Code



SIGNS

Mission Statement:

Good Design is Good Business

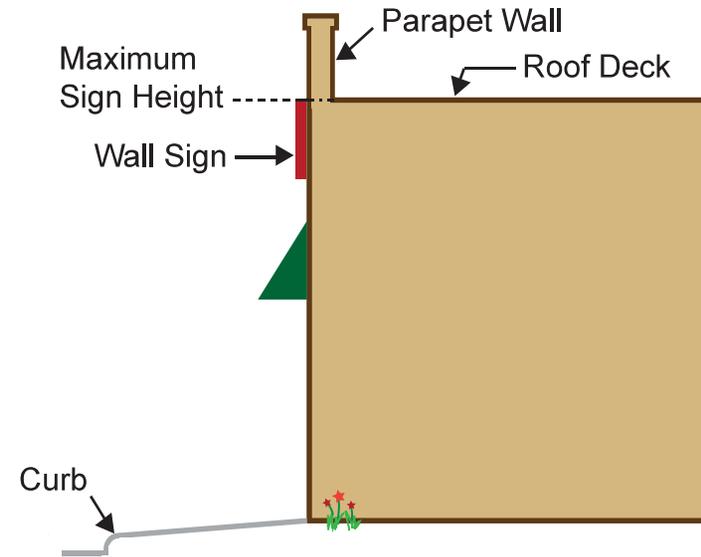
Over the years the Village of Deerfield has taken many steps to ensure the health, safety, and welfare of the Village Center and the outlying commercial areas. The establishment of the Appearance Review Commission in 1986 and the adoption of the Appearance Code represent Deerfield's conscious efforts to protect and to keep Deerfield a desirable community. We take pride in our community and recognize the value of good design, knowing that good design is good economic development. What we see daily in our community, consciously and subconsciously, influences our lives. People are attracted to properties and businesses that are well designed. Poor appearance and lack of property maintenance lead to decline in customers, loss of revenues, and decreased property values.

This user-friendly booklet is intended to provide a clear understanding of the appearance standards that create Deerfield's character. Please familiarize yourself with the requirements and expectations. You are a part of the fabric that comprises the Deerfield community and we welcome your request for improvements.

Zoning Ordinance Business Signs

This section was added to clarify some of the Zoning Ordinance requirements - see Zoning Ord. Article 9 for additional requirements.

1. One business wall sign is allowed for each elevation (N, E, S, W) facing a public street or driveway and/or parking area of said use.
2. No sign shall be placed on a roof.
3. No sign shall be placed on an exterior wall higher than the point at which the roof deck abuts said wall - see illustration.
4. A wall sign shall be affixed (mounted directly) to the outermost wall of a business/tenant space.
5. Signs shall not exceed a depth of 12 inches; and sign elements must be flat and be located on the same plane.
6. Any mural, illustration, insignia, or flag which directs attention to that business is considered a sign, and is regulated as such.
7. No sign shall be painted directly onto an exterior wall.



Where the parapet wall meets the roof deck shall be the maximum sign height and no higher than 30 feet above the curb.



Signs shall not be placed above the roof deck.
(See #3)

In the photo below, the colored stripes are an identifying mark to the business and therefore are considered in the calculation of the sign's square footage. (See #6)

To determine a sign's square footage draw a rectangle around the outermost points, then multiply the length times the width.

Example below is a canopy sign and not a roof sign.



NO

No sign shall be placed on a roof. (See #2)



NO

Sign elements must be flat and be located on the same plane. (See #5)



NO

Only one business sign per side facing a public way. (See #1)



NO

Exposed neon signs and projecting signs are not allowed.

(See #4 & Sign Illumination #1)



Art (such as a mural) if in anyway depicts the business shall be considered a sign and the square footage shall be regulated as such. (See #6)

No sign shall be painted directly onto an exterior wall. (See #7)

Appearance Code Sign Criteria

Content

1. The amount of information contained on any sign or group of signs shall be limited so that the total result is a clear and readable design.
2. The number of colors and graphic elements on a sign should be held to the minimum needed to convey the sign's message.
3. The listing of individual services rendered or items offered for sale, and the use of telephone numbers, websites, arrows, and multiple logos on a sign are unacceptable.



NO

The use of phone numbers and websites are unacceptable. (See #3)



The listing of items offered for sale is unacceptable. (See #1 & #3)

NO



Appearance Code Sign Criteria

Design

1. Sign colors shall be harmonious with the architecture and excessive brightness shall be avoided.
2. Wall signs shall be designed as a complimentary element of the building.
3. Text on a sign shall be surrounded by negative space, providing a margin between the letters and/or logo and the edge of the sign.
4. The recommended maximum letter height - not the sign height - for a business less than 10,000 square feet is 24 inches in the Village Center, and 28 inches in the outlying commercial areas. These recommended letter heights are based on visibility and the building's setback from the street.

YES



The text size is appropriate, providing a margin between the background edge and the letters. (See #3)



The text extends beyond the background, no negative space was provided. (See #3)

Appearance Code Sign Criteria

Building and Site Relationship

1. Signs and graphics shall have a harmonious relationship with their building and site and to the architectural character of the surrounding area and the Village in terms of size, shape, material, color, texture, lettering, arrangement and lighting.
2. Every sign shall have appropriate scale and proportion in its visual relationship to buildings and surroundings.
3. A wall sign shall not cover a window (Zoning Ord. 9.01-B, 4).
4. Signs should not cover any decorative item on a building.
5. Signs should be surrounded by negative space (the space around the sign) to provide for a balanced design on the building.
6. All evidence of past signs shall be removed, and the wall restored to like-new condition.
7. A sign's height shall be within the requirements of the Zoning Ordinance, and said height shall also be reasonable in relationship and in proportion to the building, site, adjacent structures and areas.



YES



Signs shall have an appropriate relationship with their building, with respect given to the decorative items on the building, and the sign surrounded by negative space.



NO

New signs are to be installed only after all evidence of the old sign has been removed. (See #6)

Appearance Code Sign Criteria

Building and Site Relationship

8. Ground signs in the Village Center are discouraged. If a ground sign is pursued, a monument sign with a height not to exceed 5 feet is recommended.

9. Pole signs are discouraged.

10. Landscaping with year-round appeal should be provided around the base of a ground sign and not interfere with the sign content.

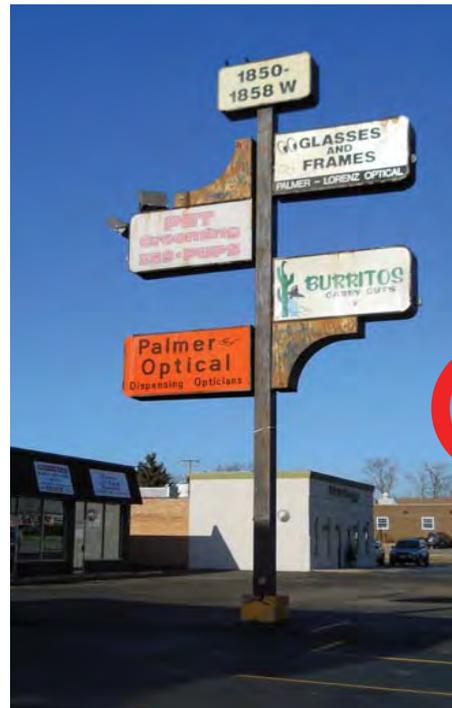
11. Ground signs and landscaping shall not encroach into any sight-line triangle at property access points or at street intersections, to allow for views of oncoming vehicular and pedestrian traffic (exceptions: plants 2.5 feet in height or less; and trees those branches are 6.5 feet or more above the ground). See illustration: Clear Sight Triangles (page 10).

12. Projects which include a number of signs and graphics shall provide an overall plan demonstrating continuity and meaningful relationships among the various signs and graphics.

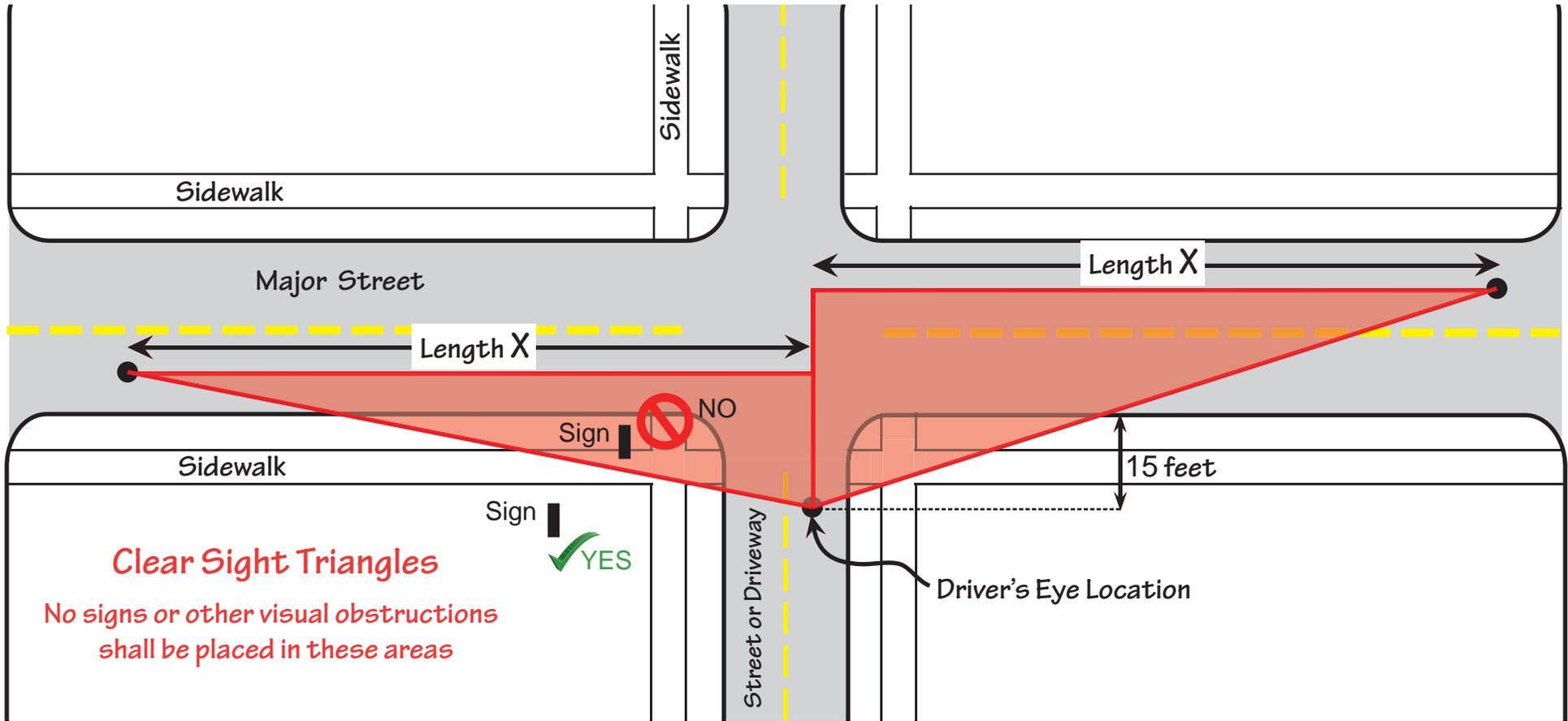
YES



A monument sign shall be designed to have continuity among the tenant sign panels, and landscaping shall be provided around the base. (See #10 & #12)



The relationship between the signs is poor, and no landscaping has been provided. Pole signs are discouraged. (See #9, #10 & #12)



Clear Sight Triangles
 No signs or other visual obstructions shall be placed in these areas

A clear sight triangle is a method used to determine where objects may not be placed to ensure that a driver leaving a controlled intersection (traffic light or stop sign) or driveway can see an approaching vehicle in either direction.

To determine a clear sight triangle, use the table to determine **Length X** for a 2 lane street of a given speed.

One point of the triangle is the driver stopped 15 feet from the pavement's edge, the other point is in the middle of the lane of the approaching vehicle **Length X** away from the stopped driver.

Major Street Posted Speed	Length X
25 mph	335 ft
30 mph	390 ft
35 mph	445 ft
40 mph	500 ft
45 mph	555 ft
50 mph	610 ft
55 mph	665 ft

The numbers are from the Intersection Sight Distance (ISD) table of the American Association of State Highway and Transportation Officials 2004.

Appearance Code Sign Criteria

Sign Illumination

1. The sign's light source must be fixed and concealed (Zoning Ord. 9.01-D, 1), including but not limited to prohibiting exposed neon and exposed LED signs.
2. Sign lighting shall avoid casting glares of direct rays upon adjoining streets and properties (Zoning Ord. 9.01-D, 2).
3. Lighting that is intended to illuminate wall and ground signs shall be arranged so that the light source is screened from view and does not constitute a hazard or an annoyance to the public.
4. Any moving, flashing or shimmering sign, or advertising device inside or outside of a building is prohibited when visible from any street or parking area (Zoning Ord. 9.01-B, 8a).
5. Internally illuminated box signs generally do not integrate well into a building's facade, and are discouraged.
6. If internally illuminated box signs are used, it is recommended the sign panels be opaque so that only the text is illuminated, not the background.

YES

Landscaping can be used to conceal a light source. (See #1)



Flood lights



Box signs applied to the facade generally do not work well with the architecture. (See #5)



Box signs integrated into the architecture, with only the text that illuminates. (See #6)

YES



Appearance Code Sign Criteria

Sign Illumination

7. Electrical transformer boxes and raceways shall be concealed from public view (exception to follow, #8).

8. If a raceway cannot be mounted internally behind the finished exterior wall because of conflict with the building structure, the exposed raceway shall be integrated into the building and finished to match the background wall. Exposed raceways are discouraged.

9. All conduit, wires, and junction box shall be appropriately concealed from public view.

10. Sign faces shall have an even distribution of light.

11. Sign disconnect switches shall be located in accordance with one of the following methods:

- A. Within an enclosed building within sight of the sign(s), or
- B. Behind a fascia or sign band wall within sight of the sign(s), or
- C. Completely enclosed within the sign.



Conduit and electrical boxes shall not be visible to the public. (See #9)



No hot spots, where the light source can be seen. (See #10)



Raceways shall not be visible to the public (See #7) - see exception #8.

Raceways provide an area for birds to nest.

Zoning Ordinance Signs

Windows

Windows (glass) and window signs are regulated by Ordinance O-07-26; please see the Window Sign Regulation document which can be found on the Village's website.



Too much signage on the windows. Basically, 20% of a window area may be covered with signage - see Ord. for specifics.



Closed Business

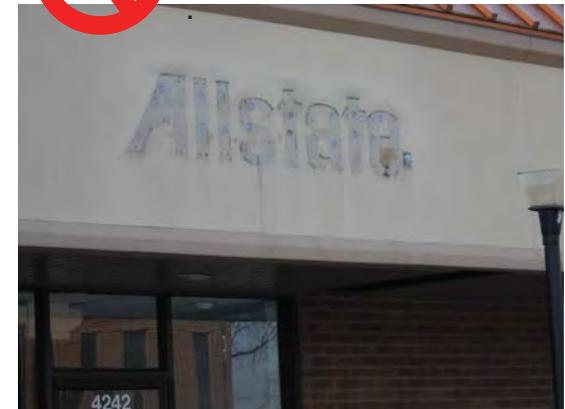
Once an establishment has gone out of business, all of the signs associated with that business must be removed (Zoning Ord. 9.05-C, 2), and the facade shall be restored to a like-new condition.



Painting over a sign or leaving exposed bulbs is not acceptable.



Ghosting and holes from a previous sign shall be removed, with the background material (wall or panel) being replaced or restored to a like-new condition.



REQUEST FOR BOARD ACTION

Agenda Item: 16-104

Subject: Authorization to Execute and IT Cybersecurity Group Membership Agreement

Action Requested: Authorization to sign agreement

Originated By: Matthew Weiss, Computer Systems Coordinator, Administration Department

Referred To: Mayor and Board of Trustees

Summary of Background and Reason for Request:

The Multi-State Information Sharing & Analysis Center, or MS-ISAC, is a voluntary membership group of state, local, territorial, and tribal governments partnered with the Office of Cybersecurity and Communications within the U.S. Department of Homeland Security. This group exists as a resource for cyber threat prevention, protection, response, and recovery.

No-cost voluntary membership in the group will provide the Village with awareness/education materials and cyber incident response support. The only requirement to join is the execution of a membership agreement, which outlines each party's responsibilities to safeguard any information that is shared but does not mandate any sharing.

Authorization to sign the membership agreement is requested.

Computer Systems Coordinator Matthew Weiss will be in attendance to discuss this item and answer any questions the Board may have.

Reports and Documents Attached:

- 1) Pamphlet: MS-ISAC Benefits of Membership
- 2) MS-ISAC Member Agreement

Date Referred to Board: 04 October 2016

Action Taken: _____



MULTI-STATE Information Sharing & Analysis Center™

Benefits of Membership

The Multi-State Information Sharing and Analysis Center (MS-ISAC) is a voluntary and collaborative effort based on a strong partnership with the Office of Cybersecurity and Communications within the U.S. Department of Homeland Security (DHS). The MS-ISAC has been designated by DHS as the key resource for cyber threat prevention, protection, response and recovery for the nation's state, local, territorial and tribal (SLTT) governments. Through its state-of-the-art 24/7 Security Operations Center, the MS-ISAC serves as a central resource for situational awareness and incident response for SLTT governments.

There is no cost to be a Member

"The Multi-State Information Sharing and Analysis Center (MS-ISAC)...allows the Federal Government to quickly and efficiently provide critical cyber threat, risk, vulnerability, and mitigation data to state and local governments."

U.S. DHS Secretary Janet Napolitano, March 2013



- 24/7 security operations center
- Incident response resources
- Cyber security advisories
- Cyber event notifications
- Daily cyber tips
- Network monitoring
- Secure portals for communication and document sharing
- Alert status map
- Malicious Code Analysis Platform (MCAP)
- Top attacking sites
- Monthly newsletters
- Bi-monthly webcasts
- Monthly webcast meetings
- Monthly threat briefings
- Cyber security exercises
- Awareness/education materials
- Training discounts
- Nationwide Cyber Security Review
- Discounts on CIS Security Benchmarks
- Vulnerability assessment services

31 Tech Valley Drive
East Greenbush, NY 12061
Phone: 518-880-0699
Email: info@msisac.org

1700 North Moore Street
Suite 2100
Arlington, VA 22209
Phone: 703-600-1935

Thomas Duffy, Chair

Frequently Asked Questions

Who can join the MS-ISAC?

Membership is open to all state, local, territorial, and tribal government entities involved in cyber security and/or critical infrastructure protection.

Who are the members?

The MS-ISAC currently includes representatives from all 50 states, all 50 state capitals, hundreds of local governments, several tribal governments and U.S. territories.

What does it cost to join the MS-ISAC?

There is no cost to join the MS-ISAC. It is primarily supported by the U.S. Department of Homeland Security to serve as the central cyber security resource for the nation's state, local, territorial and tribal governments. The MS-ISAC is a division of the national not-for-profit Center for Internet Security.

Can the MS-ISAC CERT help me with a cyber incident?

Yes. The MS-ISAC's Computer Emergency Response Team (MS-ISAC CERT) comprises highly trained staff who are able to assist you with a cyber security incident. MS-ISAC CERT can provide malware analysis, reverse engineering, log analysis, and forensics analysis.

Can other members of my organization join?

Yes. Each organization designates a "Primary Member" who is then responsible for authorizing additional individuals in their organization to become members.

Are there any requirements to joining?

The only requirement is the completion of a membership agreement, which sets forth the responsibilities of members to protect information that is shared.

Are there any educational or training resources available?

Yes. In addition to advisories and information bulletins regarding the latest cyber threats and vulnerabilities, the MS-ISAC provides a variety of educational, awareness, and training resources and opportunities.

Does the MS-ISAC work with federal agencies, private sector groups, and the other ISACs?

Yes. The MS-ISAC works closely with federal partners at DHS, along with FBI, Secret Service and others to better share information on emerging threats. The MS-ISAC also has strong relationships with major ISPs, cyber security firms, researchers, and software developers.

How do I join?

Contact the CIS MSISAC at info@msisac.org or visit msisac.cisecurity.org to learn more.

CENTER FOR INTERNET SECURITY
MULTI-STATE ISAC
Member Agreement

This Agreement ("Agreement") is made between the Village of Deerfield, IL and the Multi-State Information Sharing and Analysis Center of the United States (MS-ISAC), a division of the Center for Internet Security.

The MS-ISAC will enable information sharing, analysis, gathering and distribution in a secure manner using facilities and methods designed to permit individual Members to submit information about security threats, vulnerabilities, incidents, and solutions securely. Only MS-ISAC members have access to review and retrieve this information. When submitting information to the MS-ISAC, Primary Custodians will identify information to the MS-ISAC in the following categories:

Category A: information that is provided only to the MS-ISAC and will not be shared with the MS-ISAC members or others except as authorized by the Primary Custodian. Category A information also consists of any non-categorized information provided to the MS-ISAC and/or pre-cleansed category B information.

Category B: information which is shared with the MS-ISAC and in consultation with the Primary Custodian is cleansed by the MS-ISAC of all identifying information and then, consistent with applicable laws, will be shared only with MS-ISAC members, or the Department of Homeland Security consistent with paragraph six (6).

Category C: information which is shared with the MS-ISAC and does not need to be cleansed and may be shared within the MS-ISAC and outside the MS-ISAC as appropriate.

MS-ISAC members acknowledge that Primary Custodian has certain cyber and/or critical infrastructure information and material that is exempt from disclosure to the public or other unauthorized persons under federal or state laws including the Homeland Security Act of 2002 (6 U.S.C. § 133). MS-ISAC members may provide access to this information and material in order to facilitate interstate communication regarding cyber and/or critical infrastructure readiness and response efforts. These efforts include, but are not limited to, disseminating early warnings of physical and cyber system threats, sharing security incident information between U.S. states, territories, the District of Columbia, tribal

nations and local governments, providing trends and other analysis for security planning, and distributing current proven security practices and suggestions. As a participating member of the MS-ISAC, Primary Custodian agrees that when sharing this information with MS-ISAC members it will do so through the MS-ISAC in accordance with the categories established in this document. MS-ISAC members agree to the terms and conditions contained in this Agreement.

NOW THEREFORE, in consideration of the above promises recited herein, the parties agree to the following:

Definitions:

1. Primary Custodian – the entity that developed or owns the Data. Each collection of Data (database, file, etc.) shall have a single Primary Custodian.
2. MS-ISAC members – the members (U.S. states, territories, the District of Columbia, tribal nations and local governments) who may be in possession or use of Data acquired from the Primary Custodian or from the MS-ISAC.

Purpose:

3. MS-ISAC members acknowledge that the protection of Category A information is essential to the security of Primary Custodian and the mission of the MS-ISAC. The purpose of this Agreement is to enable Primary Custodian to make disclosures of Category A information to MS-ISAC while still maintaining rights in, and control over, Category A information. The purpose is also to preserve confidentiality of the Category A information and to prevent its unauthorized disclosure. It is understood that this Agreement does not grant MS-ISAC or members an express or implied license or an option on a license, or any other rights to or interests in the Category A information, or otherwise. If Primary Custodian retracts any information it sent to the MS-ISAC, then, upon notification by the Primary Custodian, the MS-ISAC will destroy such information and all copies thereof, and notify MS-ISAC members to destroy the information. If an MS-ISAC member is unable to destroy the information based on applicable law, then the member will continue to maintain the confidentiality of the information consistent with

this agreement. Upon receiving such notification, MS ISAC members will destroy such information and all copies thereof.

MS-ISAC and Member Duties:

4. MS-ISAC and members who are authorized by the Primary Custodian to receive Category A information shall, and shall cause their contractors, subcontractors, agents or any other entities acting on their behalf (hereinafter referred to as the "Affiliates") to:
 - (a) copy, reproduce or use Category A information only for the purposes of the MS-ISAC mission and not for any other purpose unless specifically authorized to do so in writing by Primary Custodian; and
 - (b) not permit any person to use or disclose the Category A information for any purpose other than those expressly authorized by this Agreement; and
 - (c) implement physical, electronic and managerial safeguards to prevent unauthorized access to or use of Category A information.

Such restrictions will be at least as stringent as those applied by the MS-ISAC and/or members to their own most valuable and confidential information.

MS-ISAC agrees to promptly notify Primary Custodian of any unauthorized release of Category A information.

5. MS-ISAC and members will not remove, obscure or alter any notice of patent, copyright, trade secret or other proprietary right from any Category A information without the prior written authorization of Primary Custodian.

Multi-State ISAC Duties:

6. The MS-ISAC and members may share with the Department of Homeland Security (DHS) pursuant to 6 U.S.C. § 133, Category A, B, and C information, unless the Primary Custodian has designated in writing that the information in question cannot be shared with our federal partners. All other information is voluntarily submitted and may be shared with the Federal Government with expectation of protection from disclosure as provided by the provisions of the Critical Infrastructure Information Act of 2002.

7. If any third party makes a demand for any Category A or B information, the MS-ISAC or member shall immediately forward such request to the Primary Custodian and consult and cooperate with the Primary Custodian and will make reasonable efforts, consistent with applicable law to protect the confidentiality of the information. Primary Custodian will, as needed, have the opportunity to seek judicial or other appropriate avenues of redress to prevent any release.
8. In non-emergency situations, as part of its multi-state communication sharing efforts, the MS-ISAC may prepare written reports. For such reports, the Primary Custodian shall be provided a period of time to review such reports, papers, or other writings and has the right to edit out its Category A information, correct factual inaccuracies, make recommendations and comments to the content of the report, and append comments to the final version of the report. The MS-ISAC members and Primary Custodian agree to work together in good faith to reach mutually agreed upon language for the report. If the parties are unable to reach agreement on an issue, Primary Custodian has the right to edit out its Category A information.

General Terms:

9. Should any court of competent jurisdiction consider any provision of this Agreement to be invalid, illegal, or unenforceable, such provisions shall be considered severed from this Agreement. All other provisions, rights, and obligations shall continue without regard to the severed provision(s).
10. The term of the Agreement shall continue so long as Primary Custodian remains a member of the MS-ISAC, and paragraph 3 the obligations of confidentiality as provided herein shall survive the expiration of this Agreement.
11. This Agreement will be construed and enforced in all respects in accordance with United States (U.S.) federal law or other applicable laws as addressed herein.
12. This Agreement contains the entire understanding between the parties with respect to the proprietary information described herein and supersedes all prior understandings whether written or oral. Any modification, amendment, assignment or waiver of the terms of this Agreement shall require the written approval of the authorized representative of each party.

The foregoing has been agreed to and accepted by the authorized representatives of each party whose signatures appear below:

AGREED BY:

Primary Custodian:

**Center for Internet Security
Multi-State ISAC Division**

Signature

Date

Signature

Date

Print or Type Name/Title

MS-ISAC Chair

REQUEST FOR BOARD ACTION

Agenda Item: 16-105

Subject: Authorization to Implement Desktop Virtualization Project

Action Requested: Authorization to Purchase

Originated By: Matthew Weiss, Computer Systems Coordinator, Administration Department

Referred To: Mayor and Board of Trustees

Summary of Background and Reason for Request:

In lieu of replacing the Village’s aged desktop computers in-kind, IT intends to implement a desktop virtualization solution. This centralizes the computing power to the datacenter and converts the endpoints into access terminals. Anticipated result is streamlined deployment of endpoints and software and faster repair of desktop-level issues for users. We will also be able to extend the life of the existing desktop hardware until 2018 by repurposing it into thin clients.

Cost for this project is \$64,076.04. This is within the budgeted amount (\$80,000) in 2016. No individual component is over \$20,000 and each, except for Microsoft components which are purchased on existing agreements, is quoted from multiple vendors for best price.

Authorization to purchase multiple products from multiple vendors, not to exceed the project total specified above, is requested.

Computer Systems Coordinator Matthew Weiss will be in attendance to discuss this item and answer any questions the Board may have.

Reports and Documents Attached:

Memo re: Desktop Virtualization Project

Date Referred to Board: 04 October 2016

Action Taken: _____

Memorandum



DATE: 28 September 2016
TO: Andrew Lichterman, Assistant Village Manager
CC: Kent Street, Village Manager; Eric Burk, Finance Director
FROM: Matthew Weiss, Computer Systems Coordinator
SUBJECT: **Desktop Virtualization Project**

In lieu of replacing all the physical desktop computers in the organization in kind, the desktop virtualization project planned and budgeted for FY 2016, entails moving the computing resources for users from the desktop level to the server level. All the “heavy lifting” will be done in a centralized server environment, with the computers at the users’ desks being converted to access terminals. This will extend the life of the existing desktop hardware until 2018, and on the infrastructure side the Village will make use of existing serviceable server hardware as originally planned. This solution will also replace the functionality of the current terminal server system (which would become incompatible at the next New World upgrade) used to support station access to police New World software by Bannockburn and Riverwoods.

This solution will also allow IT to streamline provisioning and deployment of desktop endpoints and software, have better insight and management over the desktop environment, and provide shorter repair times to the end users for problems relating to either desktop hardware or operating system type issues.

This project requires the purchase of multiple different software components from multiple manufacturers and vendors. No individual component is over the \$20,000 threshold and the Microsoft licensing is purchased on existing contracts. Project total is well within the budgeted \$80,000 for the project. For informational purposes, please note the below components required for this project, their purposes, and their costs.

As always, I am available for discussion if questions arise or additional information/background is desired.

Component	Price	Purpose
VMware Horizon View	\$19,999.04	Base desktop virtualization software licenses
Unidesk	\$19,700.00	Desktop management and application layering
Microsoft VDA Subscription	\$12,566.40	Microsoft desktop operating system licensing*
Microsoft Server License	\$ 929.70	Microsoft host server licensing
Microsoft Server CALs	\$ 2,719.50	Microsoft server client access licenses
Kaspersky Licensing	\$ 1,600.00	Antivirus licensing for virtual desktops
Thin Client Software	\$ 3,960.00	Software to repurpose desktops as thin clients**
Zero Client Hardware	\$ 2,601.40	Pilot program for replacement endpoints ***
TOTAL	\$64,076.04	

* Subscription model service, paid through November 2018.

** Choice of two products not yet finalized. Cost noted will cover either.

*** Choice to two products not yet finalized. Cost noted will cover either.