Site Plan Application

Town of Hampden

Green

DLM Professional Center

588 Main Road North
Hampden, Maine

For

DLM Rental, LLC
21 Hustus Hill Road
Brooks, ME 04921

Prepared by

KISER
ENGINEERING & DEVELOPMENT CONSULTING
PO Box 282
Hampden, ME 04444

21 July 2020

KISER
ENGINEERING & DEVELOPMENT CONSULTING

Job #797

29 August 2020

Planning Board
Hampden Planning Dept
106 Western Ave
Hampden, ME 04444

Staff Comments, Site Plan Application, DLM Professional Center

Dear Board,

We have reviewed comments on the above application by Sarah DelGizzo dated August 26, 2020. Based on our review, we offer the following additional information, updates and/or comments.

1. Hampden has not required signature blocks on Site Plans.
2. Site Plan
   a. Snow storage areas have been noted on the Site Plan.
   b. Parking stalls are in accordance with standard practices and the planning board has approved parking at the 18' depth. If a waiver is required, we are requesting one.
   c. The parking for the existing building along Main Road North is proposed as a significant improvement to the property. The town has approved the change of use of that building with the parking that was existing at the time and the owner prefers to improve the parking and general appearance of the building and front yard. The amount of parking is more then existing now and is over 75% of the requirement for the building size. We are requesting that the board approve this level of parking at the front of the lot. The total parking on the property will meet the ordinance.
   d. We have provided a buffer at the back of building 4 with the abutter. The front areas do not apply to the buffer standards.
3. Grading & Drainage
   a. The DEP Stormwater permit will be submitted shortly.
   b. See below for the W/C review.

4. Utility & Open Space
    a. The turn-around area and design has been provided on similar projects and approved by the fire department.
    b. See above for fire apparatus turning.
5. Landscape Plan
    a. The requirements of landscaping are provided on the Grading & Drainage Plan.
6. Floor Plan
    a. This is a speculative building program with each building proposed for office space that will be customized by the tenant. The expectation for marketing is to have two units in each building and they will initially be constructed as a shell unless leased prior to construction. Elevations are not yet developed or required.

Woodard & Curran

Zoning Ordinance Standards

1. No response required.

2. The building height is an item that is addressed as part of the building permit process with the Code Officer. These buildings are single story professional buildings so height will not be an issue.

Zoning Ordinance Site Plan

1. Inlet protection to the basins is included in the erosion control notes (see note 10).

2. Snow storage areas are now shown on the plan as noted above. Filter basins are protected from snow storage by separation distance.

3. See note above regarding floor plans.

Zoning Ordinance Parking

1. See parking note above. Total professional building is 16,840 sf with parking at 250 sf/space provides a total of 67 spaces. Total provided is 67 spaces.

2. See parking space size comments above.

General Engineering

1. The project sewer is designed as a service with laterals to remain private. If further information is required for connection to the system, it will be provided to the public works director prior to construction of the system.

2. As noted above the sewer is considered a service with a 6” service entering a 24” pipe. Service connection is appropriate for this condition.

Post Construction Stormwater Management

1. No response required.

We look forward to discussing the project and obtaining approval from the board at the meeting in September.

Best regards,

James R. Kiser, PE
Kiser & Kiser Co.

C: DLM Rental, LLC

Town of Hampden
Land & Building Services

106 Western Ave.
Hampden, ME 04444
207-862-4500
www.hampdenmaine.gov
planner@hampdenmaine.gov

Application for Site Plan Review

Name of Applicant (primary contact): Debbie Moody Jim Kiser

Company: DLM Rental LLC Kiser & Kiser Co

Address: 21 Hustus Hill Road, Brooks ME 04921 PO Box 282, Hampden, ME 04444

Phone: 862-4700 Cell: _____

Email Address: jim@kiser-kiser.com

Name of Owner: Same

Address: _____

Daytime phone: 542-8977

Check one *(see Zoning Ordinance §4.1)*: ☐ Minor Revision ☐ Minor Site Plan ☒ Major Site Plan

Does the project require a: Conditional Use Approval: ☐ Yes ☒ No Variance: ☐ Yes ☒ No *(Explain in narrative)*

Check all that apply: ☐ DEP SLOD ☐ DEP NRPA ☒ DEP Stormwater ☒ DOT Driveway Permit ☐ DOT Traffic Permit

Location of Property: 588 Main Road North

Assessor's Tax Map/Parcel Number: TM 19, lot 37 Acreage: 10.5

Zoning district: business district Is there Shoreland Zoning on the site? ☐ Yes ☒ No

Proposed use *(check applicable category and write in specific use from Use Table, §3.1.3 of the Zoning Ordinance)*:

☐ Agricultural/Recreational ☐ Residential ☐ Educational ☐ Medical
☐ Utility/Government ☐ Institutional ☒ Commercial/Office ☐ Industrial

Specific use or uses *(line item from Use Table)*: G-5

Square footage of new construction or addition: 11,520 sf

Number of units: N/A

Applicant's signature: D Moody

Owner's signature : _____
(or proof that owner has given applicant all rights to submit the application)

Date of application submittal: _____

Official Use Only

Application Fee: $ 600 Date Paid: _____ Check #: _____

Draw Account Deposit: $ 800 Date Paid: _____ Check #: _____

Draw Account Number: _____

Date of Meeting or Public Hearing: _____

Date of Decision: _____ Expiration Date: _____

Date Received Stamp

Instructions and Additional Information

Meeting Schedule & Application Deadlines: The Planning Board meeting schedule is available at the Land & Development Services office in the Town Offices, 106 Western Ave, Hampden. It is also posted on the town's web site: hampdenmaine.gov, look under Town Officials, Town Boards and Committees, Planning Board. All conditional use applications require a public hearing.

Fee: Please refer to the Fees Ordinance, available online at hampdenmaine.gov, look under Ordinances and Policies. All major site plans will require payment of a deposit into an escrow (or "draw") account to be used for engineering review. Any funds left in the draw account after completion of the project will be returned to the applicant. Note that for major site plan applicants, you are responsible for paying the cost for the public hearing notification, which consists of an advertisement in the newspaper and a letter mailed to all abutters within 300 feet of the property. Staff will work with you on this cost after you submit the application, but the application fee and escrow deposit must be submitted with the application.

The **Zoning Ordinance** is available online at www.hampdenmaine.gov, look under Ordinances and Policies.

Section 4.1 of the Zoning Ordinance provides all the information you need on site plan applications. Section 4.1.5 lists the submission requirements and section 4.1.6 lists the approval standards. *It is your responsibility to provide sufficient information to the Planning Board to show that your application meets each of those standards listed.*

Multi-level review: Hampden has three different levels of site plan review, and which one applies to you depends on what you are doing. For details, please see section 4.1.3 of the Zoning Ordinance. In general, all new development requires major site plan review, entailing a public hearing with the Planning Board. Some types of expansions to a site can be processed with a minor site plan, which is reviewed and approved by a Staff Review Committee at a public meeting. Minor revisions to approved site plans can be approved by the Code Enforcement Officer.

Submission requirements: What you need to submit differs depending on what level of site plan review is applicable to your case: minor revision, minor site plan, or major site plan. Please refer to section 4.1.5 of the Zoning Ordinance for detailed information on what you need to submit.

Acronyms (for state permits):

DEP is the Department of Environmental Protection and DOT is the Department of Transportation

DEP SLOD - Site Location of Development, a.k.a the "Site Law"; M.R.S.A. Title 38, Chapter 3, §§481-490. This program regulates developments that may have a substantial impact on the environment, as provided in law. Examples: large subdivisions, structures, 20 acre plus developments, and metallic mineral mining operations.

DEP NRPA - Natural Resources Protection Act; M.R.S.A. Title 38, Chapter 3, §§480A-480Z. This program regulates activities in, on, over or adjacent to natural resources such as lakes, wetlands, streams/rivers, fragile mountain areas, and sand dune systems.

DEP Stormwater - "Chapter 500"; M.R.S.A. Title 38, Chapter 3, §420D (stormwater management) and §420C (erosion and sedimentation control). DEP's stormwater laws and regulations work toward protecting and restoring surface water and groundwater impacted by stormwater flows.

DOT Driveway Permit - Anyone installing a driveway or entrance, or changing the use of a property with an existing driveway along a state highway must get a permit from DOT. Please note that if this applies to you, the Town cannot approve your site plan application until <u>after</u> you receive the DOT driveway permit - please plan accordingly!

DOT Traffic Permit - Any project which generates 100 or more passenger car equivalent trips during peak hour of traffic generation, must file a Traffic Movement Permit application with the Department of Transportation.

Questions? Call the Land & Development Services office at 207-862-4500, or email danielle@hampdenmaine.gov.

State of Maine

Department of the Secretary of State

I, the Secretary of State of Maine, certify that according to the provisions of the Constitution and Laws of the State of Maine, the Department of the Secretary of State is the legal custodian of the Great Seal of the State of Maine which is hereunto affixed and that the paper to which this is attached is a true copy from the records of this Department.

In testimony whereof, I have caused the Great Seal of the State of Maine to be hereunto affixed. Given under my hand at Augusta, Maine, this twenty-first day of July 2020.

Matthew Dunlap
Secretary of State

Additional Addresses

Legal Name	Title	Name	Charter #	Status
DLM RENTAL, LLC	Registered Agent		20202075DC	GOOD STANDING
Home Office Address (of foreign entity)	**Other Mailing Address**			

DLM Rental Location Map

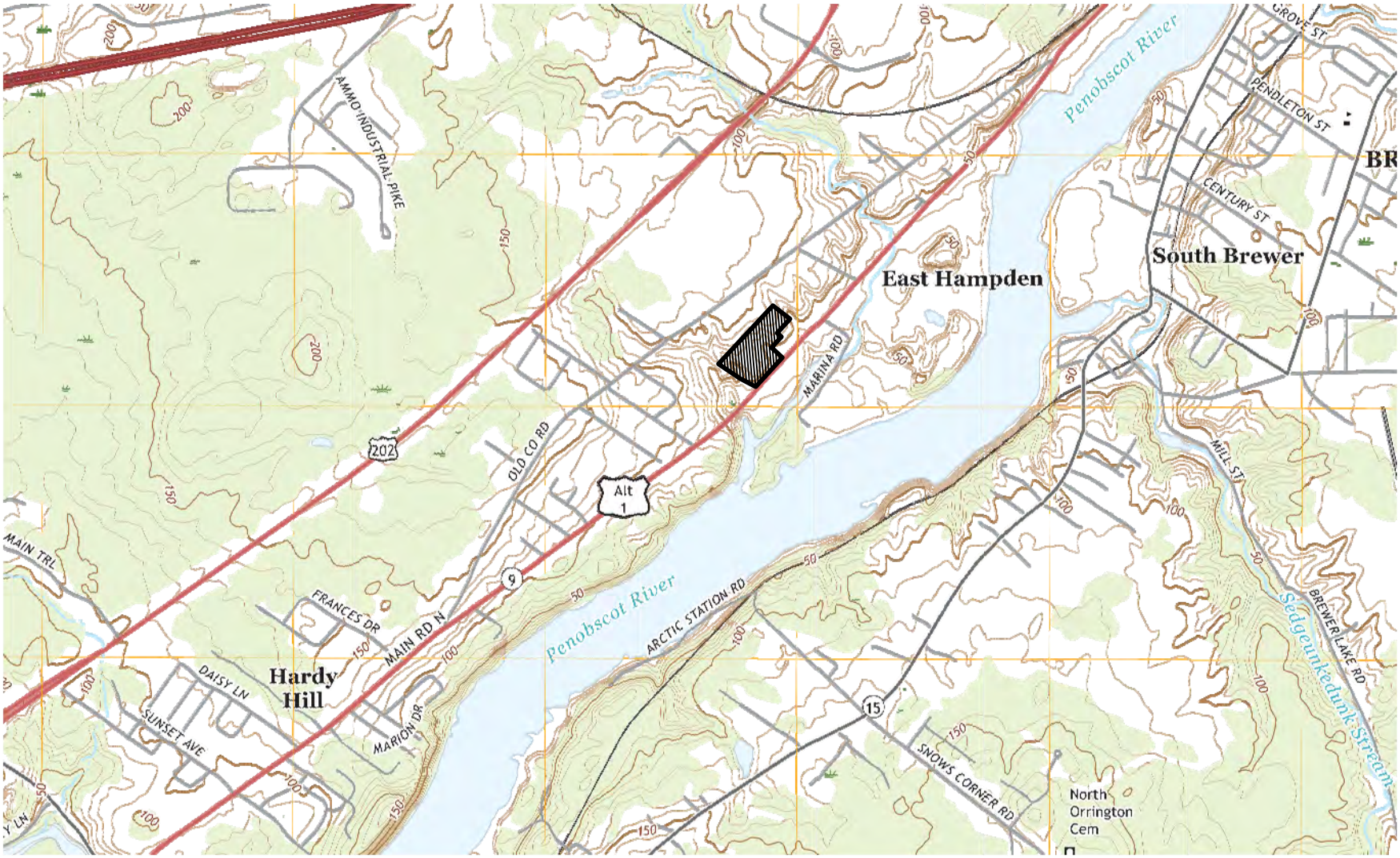
Hampden, ME

1 inch = 200 Feet

0 200 400 600

March 6, 2020

Data shown on this map is provided for planning and informational purposes only. The municipality and CAI Technologies are not responsible for any use for other purposes or misuse or misrepresentation of this map.



0' 2,000'
SCALE: 1"=2,000'

USGS MAP; BANGOR QUAD
558 MAIN ROAD NORTH
HAMPDEN, MAINE

North

DLM RENTAL, LLC
BROOKS, ME 04921

17 JUL 20

KISER

ENGINEERING & DEVELOPMENT CONSULTING
PO BOX 282, HAMPDEN, MAINE 04444
207-862-4700

AERIAL PHOTO; GOOGLE
558 MAIN ROAD NORTH
HAMPDEN, MAINE

0' 200'
SCALE: 1"=200'

North

DLM RENTAL, LLC
BROOKS, ME 04921

17 JUL 20

KISER KISER
ENGINEERING & DEVELOPMENT CONSULTING
PO BOX 282, HAMPDEN, MAINE 04444
207-862-4700

LEGEND

Bo	BOOTHBAY SILT LOAM
Ur	URBAN LAND

SOILS MAP: NRCS
558 MAIN ROAD NORTH
HAMPDEN, MAINE

DLM RENTAL, LLC
BROOKS, ME 04921

0' 300'
SCALE: 1"=300'

North

17 JUL 20

KISER KISER
ENGINEERING & DEVELOPMENT CONSULTING
PO BOX 282, HAMPDEN, MAINE 04444
207-862-4700

KISER
ENGINEERING & DEVELOPMENT CONSULTING

21 July 2020

Stormwater Management

DLM Professional Center

Main Road North, Hampden

The professional center is an office/professional development located at 588 Main Road North in Hampden. The parcel is a 10.5 ac located in the business district. The project will construct 4 buildings with a total area of 11,520 sf along with paved access and parking areas. The site will be accessed through an existing curb cut in Main Road North (Rt 1A).

The site development will disturb approximately 3.0 ac of the existing property in 2 or 3 phases and create a total new impervious area of 1.1 ac. The site drains toward Main Road North and enters the road drainage system on both sides of the lot. A majority of the developed area will enter the road system on the north side's property line. Minor drainage will flow southerly from areas to be improved for parking. Drainage eventually flows to the Penobscot River. The project is not in the drainage area of a great pond or urban impaired stream.

The project requires a DEP Stormwater Law application for disturbance in excess of 1 ac of development and more than 1 ac of impervious area. In addition, the project is required to comply with the Hampden Zoning Ordinance which requires compliance with water quality requirements of Chapter 500 for impervious area in excess of 20,000 sf. This project is within the urban area of Hampden and will be required to comply with the Post Construction Stormwater Management Ordinance.

The project must comply with the general standards of Chapter 500 which include erosion control, inspections, maintenance, housekeeping and quality under the DEP and local regulations. The basic standards are included in the erosion control plan and the supplemental Stormwater Maintenance Plan. The general standards require water quality protection and treatment of new development and the redeveloped areas of the site. The front of the site is being upgraded with improvements to the building and new parking and access areas. This area is considered redevelopment area and separated out from the new developed areas.

The redeveloped area is evaluated on a rating system based on the type of existing land cover and proposed land cover. The rating system for this site provided an improved water quality rating (below zero differential) and no required treatment for that area of development.

The new site improvements drain toward two treatment filter beds. The filter beds treat a majority of the new developed area but it does not collect enough impervious development to comply with

chapter 500 requirements. Therefore, some of the redevelopment parking area was directed toward the filter bed 2. This elevated the treated areas to a level higher than required by regulations.

This is a combination of redevelopment and new development which uses treatment of all impervious and developed area to determine compliance with the regulations. A summary follows:

Development Area	Existing Rating	Redev Rating	Diff Rating
Redevelopment	3.233	2.911	-0.322

New Development	Imperv Area (sf)	Landscaped Area (sf)	Dev Area (sf)
Linear development	12,920	12,785	25,705
Linear Treatment	10,455	10,180	20,635
Treatment %	80.9%		80.3%
Site Development	30,130	34,280	64,410
Site Treatment	28,330	25,835	54,165
Treatment %	94.4%		84.1%
Redevelopment	2,335	865	3,200
Treatment %	100%		100%
Site Treat w/ redevel	30,665	26,700	57,365
Treatment %	98.5%		89.1%

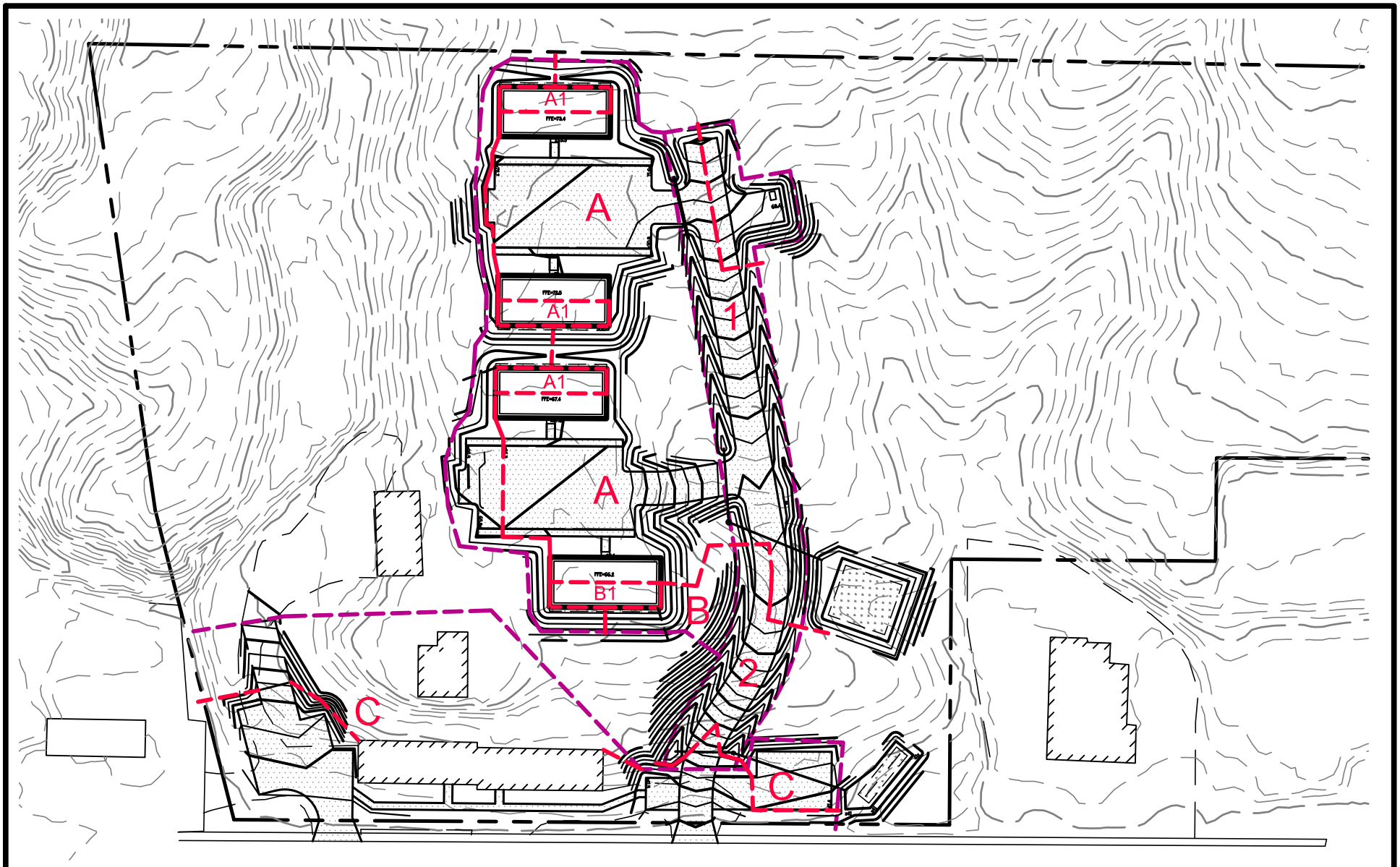
In addition, this project has prepared a Stormwater Maintenance Plan for the care of the facility and development's stormwater mitigation features. This long-term maintenance plan will be under the responsibility of the owner.

Prepared by

James R. Kiser, PE
Kiser & Kiser Co

Enc.

STATE OF MAINE
JAMES R. KISER
No.5936
LICENSED
PROFESSIONAL ENGINEER



STORMWATER MANAGEMENT
558 MAIN ROAD NORTH
HAMPDEN, MAINE

0' 100'
SCALE: 1"=100'

North

DLM RENTAL, LLC
BROOKS, ME 04921

LEGEND
DEVELOPMENT BOUNDARY
DRAINAGE BOUNDARY

17 JUL 20

KISER

ENGINEERING & DEVELOPMENT CONSULTING
PO BOX 282, HAMPDEN, MAINE 04444
207-862-4700

Stromwater Treatment Worksheet

588 Main Road North

Main Road North, Hampden **15-Jul-20**

Linear Project	**imper area**	**LS area**	**dev area**	
entrance drive	12,920	12,785	25,705	
Exempt wetland Xing	0	0	0	
Linear Exemption	-3,230		-12,853	excemption 500.C.5.c
Reguired treat area	**9,690**		**12,853**	area to be treated

Development area	**imper area**	**LS area**	**dev area**	
pavement areas	18,610	0	18,610	
buildings	11,520	0	11,520	
landscaped areas	0	34,280	34,280	
Total area	30,130		64,410	
Required Dev treat	**28,624**		**51,528**	General std 95% & 80%

redevelopment project treatment

Existing Pollutant rankings	Factor	Area	Rating
parking lot (medium)	4	0.279	1.116
Building	3	0.157	0.472
Walkways	2	0.000	0.000
Grassed areas	2	0.144	0.288
Landscape	1	0.000	0.000
Total		0.580	1.876
Impact Rating			3.233

Proposed Pollutant rankings	Factor	Area	Rating
Parking lot (medium)	4	0.216	0.865
Building	3	0.122	0.366
Walkways	2	0.025	0.050
Grassed areas	2	0.248	0.497
Parking lot (low)	3	0.026	0.079
Total		0.638	1.857
Impact Rating			2.911

Developmental Impact		-0.322	
Site Location Project	Treatment	0%	stormwater project
impervious area change			

Linear Development

Area	Treated Impervious	Treated Landscape	Treated Developed	Notes
1	7,475	6,595	14,070	filter bed #1
2	2,980	3,585	6,565	filter bed #2
Sub total Linear	10,455	10,180	20,635	
Provided treatment	80.9%		80.3%	
Required Treatment	75%		50%	exception 500.C.5.c

Development Area

Area	Treated Impervious	Treated Landscape	Treated Developed	Notes
A	22,570	22,385	44,955	filter bed #1
A1	4,320	0	4,320	drip edge filters
B	0	3,450	3,450	filter bed #2
B1	1,440	0	1,440	drip edge filters
Sub total development	28,330	25,835	54,165	
Provided treatment	94.0%		84.1%	
Required Treatment	95%		80%	

Redevelopment

Area	Treated Impervious	Treated Landscape	Treated Developed	Notes
C	2,335	865	3,200	filter bed #2
Sub total Linear	2,335	865	3,200	
Required Treatment	none	none		see redevelopment eval above

Total treatment site	41,120	78,000
Total required treatment	38,314	64,381
Provided treatment	107.3%	121.2%
	Good	Good

Runoff Sizing

Area	Impervious	Pervious	Vol (CF)	Treat Area (sf)
Filter 1	30,045	6,595	2,711	1,634
Filter 2	5,315	7,900	702	424

Filter bed 1

	Elev	Area	Vol (CF)			
	47	1634	0	1634	Required area	38'x43'
	48	2345	1990			
	49	3405	4865			
Berm hgt	49.5					
Overflow (min)						
	48.3	2663	2741	2711	Required vol	

Drain time	orifice (in)	area (sf)	ave head (ft)	C		
FBB-1	0.750	0.0031	1.9	0.6		
	# orifices	flow (cfs)	total flow (cfs)	volume (cf)		Time (hr)
	1	0.0204	0.0204	2,741		37.4

Filter bed 2

	Elev	Area	Vol (CF)			
	39	440	0	424	Required area	10'x44'
	40	940	690			
	41	1515	1918			
Overflow (min)						
	40.1	990	787	702	Required vol	

Drain time	orifice (in)	area (sf)	ave head (ft)	C	
FBB-2	0.500	0.0014	1.8	0.6	
	# orifices	flow (cfs)	total flow (cfs)	volume (cf)	Time (hr)
	1	0.0088	0.0088	787	24.8

Drip edge

trench length	80	ft
area	1440	sf/eave
runoff vol	120	cf
stone vol	300	cf at 40% void
trench width	3	ft
stone depth	15.0	in

Maintenance Plan & Post-Construction Stormwater Management Plan DLM Professional Center

588 Main Road North, Hampden

The developer, DLM Rental, LLC, and/or its successors will be responsible for the long-term maintenance of the stormwater management system at 588 Main Road North under the direction of the following maintenance actions. This maintenance plan is in support of the Stormwater Management Plan prepared for this facility which is part of the project's approval with the Town of Hampden and the Maine DEP under their Stormwater Law permit, both of which comply with the requirements of MDEP's Chapter 500.

Short term maintenance is the responsibility of the contractor as directed by the erosion control measure shown on the construction plans for the facility. The developer's stormwater inspector (professional engineer by town definition) shall submit to Town of Hampden an as-built letter/plan that indicates that the facility was constructed in accordance with the plans. This documentation shall be provided prior to the issuance of the town's Certificate of Compliance.

As part of this Maintenance Plan, the developer will/has entered into a Maintenance Agreement with the Town of Hampden for the long-term maintenance inspections and repairs of the drainage system for 588 Main Road North. Inspection logs, attached to this plan, shall document the actions identified by monitoring activities. On or before July 1 of each year, the owner's stormwater inspector shall issue a signed notice of compliance with the Town of Hampden.

The annual or semi-annual inspections and responsibilities are as follows:

1. Grass areas that are beyond the stormwater quality's plan limits (see Stormwater Management Report) shall not be mowed or maintained on a regular basis. These areas of the lot may be cut for maintenance twice per year.
2. Inspect the lawn areas, drainage swales, pipe outlets and filter bed inlets in the spring and fall to confirm all areas are stable. Any corrective action required shall be completed within 2 weeks following the inspection.
3. The Grass Filters shall be inspected after every storm for the first 6 months and then twice per year (spring & fall). Inspections are to include the following:
   a) Inspect filter bed vegetation for grass health; reseed any failing areas, as necessary. If grass becomes stressed or dies due to wet conditions, reseeding with wetland grasses shall be required.

b) Inspect the integrity of the grass cover over the filter medium to ensure grass is healthy (not stressed due to wet conditions), not eroding and is adequately protecting the soil filter material.

c) The bed and berms should be mowed on a regular basis unless wetland grasses are planted internal to the filter bed; then mowing of the filter area should occur 2-3 times per growing season. Mechanically remove unwanted vegetation and weeds throughout the growing season. No woody vegetation should be permitted to grow in the bed area or on the berms.

d) Fertilizers shall be avoided except to ensure grass establishment & health.

e) Inspect the berm's side slopes to ensure the vegetation is stable, berm is not cracked or seeping water. Corrective action to be taken based on observation of issues.

f) Bed drainage should be confirmed at least once every year to ensure the beds drain after a significant rain fall (¾" or more). Bed should have no surface water 24 hours after storm events. When water is present for 72 hours the bed shall be revived by the replacement of the top several inches of the filter material and reseeded for grass cover protection.

g) The filter beds shall be monitored after storm events to evaluate the filtration rates for collected runoff. As these beds continue to be new treatment technology for the state, filtration rates may vary, and long-term monitoring may be necessary for proper functioning and treatment of stormwater. Long term viability of grass cover is important to nutrient uptake in the filter soil material.

4. The pavement area shall be swept clean in the spring of the year and sand is to be collected and not spread onto adjacent areas or into the filter beds.

588 Main Road North

Maintenance Log (Construction activities)

Date	Inspector	Title	Issue	Corrective Action

588 Main Road North

Stormwater Maintenance Log (Long term)

Date	Inspector	Title	Issue	Corrective Action

Maintenance Agreement for
Stormwater Management Facilities

This Maintenance Agreement is made this day of _____ 2021 by and between DLM Rental, LLC and the Town of Hampden, Maine. This agreement is for the stormwater management facilities incorporated into DLM Professional Center at 588 Main Road North in Hampden, Maine. This property identified on Hampden's Tax Maps as map 19, lot 37. This agreement will be binding on any successors or assignees.

The project is shown on a plan entitled "Site Plan, DLM Professional Center" prepared by Kiser & Kiser Company and dated_____, 2020 and approved by the Hampden Planning Board on _____, 2020.

WHEREAS, the approval of the Project includes Stormwater Management Facilities which require periodic maintenance; and

WHEREAS, in consideration of the approval of the Project, the Town of Hampden requires that periodic maintenance be performed on the Stormwater Management Facilities;

NOW, THEREFORE, in consideration of the mutual benefits accruing from the approval of the Project by the Town and the agreement of DLM Rental, LLC to maintain the Stormwater Management Facilities, the parties hereby agree as follows:

1. DLM Rental, LLC, for itself, and its successors and assigns, agrees to the following:

    a) To inspect, clean, maintain, and repair the Stormwater Management Facilities, which includes, to the extent they exist, pavement areas, drainage swales, filter beds, pipes and related structures, as required by Section 6 of the Town's Post-Construction Stormwater Management Ordinance, to prevent the buildup and storage of sediment and debris in the system;

    b) To repair any deficiencies in the Stormwater Management Facilities noted during the required inspection;

    c) To provide a summary report on the inspection, maintenance, and repair activities performed, as required by Section 6 of the Town's Post-Construction Stormwater Management Ordinance, on the Stormwater Management Facilities to the Town Enforcement Authority;

    d) To allow access by Town personnel or the Town's designee for inspecting the Stormwater Management Facilities for conformance with these requirements.

2. This Agreement shall constitute a covenant running with the land, and DLM Rental, LLC shall reference this Agreement in deeds of conveyance of the property.

DLM Rental, LLC

_____ By: _____
Witness Debra Moody
Its: Managing Member

STATE OF MAINE
_____, ss. _____, 20__

Personally appeared the above-named Debra Moody and acknowledged the foregoing Agreement to be her free act and deed in her said capacity for DLM Rental, LLC.

Before me,

_____
Notary Public / Attorney at Law

Printed Name:_____

TOWN OF HAMPDEN

_____ By: _____
Paula Scott
Witness Its: Town Manager

STATE OF MAINE
_____, ss. _____, 20__

Personally appeared the above-named Paula Scott and acknowledged the foregoing Agreement to be his free act and deed in his said capacity and the free act and deed of said Town of Hampden.

Before me,

_____
Notary Public / Attorney at Law

Printed Name:_____

Public Works Director
Town of Hampden
106 Western Ave
Hampden, ME 04444

Western Ave Storage, Stormwater Management Facilities Annual Inspection

Dear Public Works Director,

I, _____ have visited the above reference facility on _____, 20___ and document the following:

1. The current owner of the Property is DLM Rental, LLC

2. I am a Qualified Post-Construction Stormwater Inspector (professional engineer) hired by the owner;

3. I have knowledge of erosion and stormwater control and have reviewed the approved Post-Construction Stormwater Management Plan for the Property;

4. I have reviewed the inspection report for the active year and confirmed in the field any required action items;

5. I inspected the Stormwater Management Facilities, including but not limited to pavement areas, drainage swales, filter beds, pipes (observable) and related structures required by the approved Post-Construction Stormwater Management Plan for the Property. Based on this inspection, we identified no active issues at the site;

6. As of the date of this letter report, the Stormwater Management Facilities appear to be functioning as intended by the approved Post-Construction Stormwater Management Plan for the Property.

Respectfully;

Joe Engineer, PE
XYZ Engineering Stamp

D-Series Size 0
LED Area Luminaire

Catalog Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

EPA: 0.95 ft² (.09 m²)

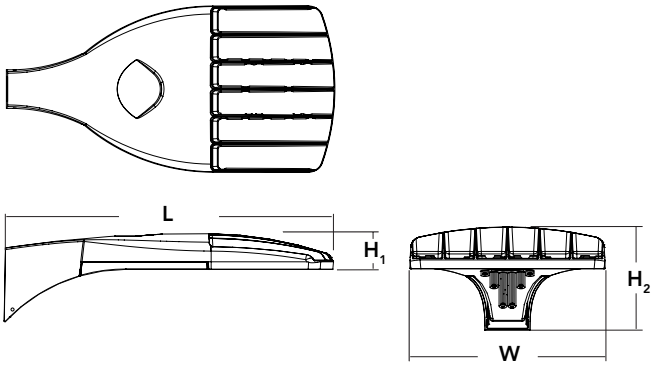
Length: 26" (66.0 cm)

Width: 13" (33.0 cm)

Height$_1$: 3" (7.62 cm)

Height$_2$: 7" (17.8 cm)

Weight (max): 16 lbs (7.25 kg)



Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 400W metal halide with typical energy savings of 70% and expected service life of over 100,000 hours.

A+ Capable options indicated by this color background.

Ordering Information

EXAMPLE: DSX0 LED P6 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX0 LED

Series	LEDs	Color temperature	Distribution	Voltage	Mounting
DSX0 LED	**Forward optics** P1 P4 P7 P2 P5 P3 P6 **Rotated optics** P10[1] P12[1] P11[1] P13[1]	30K 3000 K 40K 4000 K 50K 5000 K	T1S Type I short T2S Type II short T2M Type II medium T3S Type III short T3M Type III medium T4M Type IV medium TFTM Forward throw medium T5VS Type V very short T5S Type V short T5M Type V medium T5W Type V wide BLC Backlight control[2] LCCO Left corner cutoff[2] RCCO Right corner cutoff[2]	MVOLT [3,4] 120 [4] 208 [4] 240 [4] 277 [4] 347 [4,5] 480 [4,5]	**Shipped included** SPA Square pole mounting RPA Round pole mounting WBA Wall bracket SPUMBA Square pole universal mounting adaptor [6] RPUMBA Round pole universal mounting adaptor [6] **Shipped separately** KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish)[7]

Control options		Other options	Finish *(required)*
Shipped installed NLTAIR2 nLight AIR generation 2 enabled[8,9] PIRHN Network, high/low motion/ambient sensor[10] PER NEMA twist-lock receptacle only (control ordered separate) [11] PER5 Five-pin receptacle only (control ordered separate) [11,12] PER7 Seven-pin receptacle only (leads exit fixture) (control ordered separate) [11,12] DMG 0-10V dimming extend out back of housing for external control (control ordered separate) [13] PIR High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc [14,15] PIRH High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc [14,15] PIR1FC3V High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc [14,15] PIRH1FC3V High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc [14,15] FAO Field adjustable output [16]		**Shipped installed** HS House-side shield [17] SF Single fuse (120, 277, 347V) [4] DF Double fuse (208, 240, 480V) [4] L90 Left rotated optics [1] R90 Right rotated optics [1] DDL Diffused drop lens [17] **Shipped separately** BS Bird spikes [18] EGS External glare shield [18]	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

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Ordering Information

Accessories

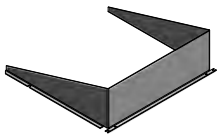
Ordered and shipped separately.

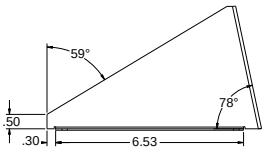
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) [19]
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) [19]
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) [19]
DSHORT SBK U	Shorting cap [19]
DSX0HS 20C U	House-side shield for P1,P2,P3 and P4 [17]
DSX0HS 30C U	House-side shield for P10,P11,P12 and P13 [17]
DSX0HS 40C U	House-side shield for P5,P6 and P7 [17]
DSX0DDL U	Diffused drop lens (polycarbonate) [17]
PUMBA DDBXD U*	Square and round pole universal mounting bracket adaptor (specify finish) [20]
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) [6]

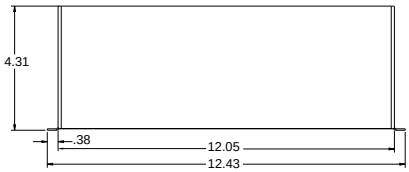
For more control options, visit DTL and ROAM online. Link to nLight Air 2

NOTES
1 P10, P11, P12 and P13 and rotated options (L90 or R90) only available together.
2 Not available with HS or DDL.
3 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
4 Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
5 Not available with BL30, BL50 or PNMT options.
6 Universal mounting brackets intended for retrofit on existing pre-drilled poles only. 1.5 G vibration load rating per ANCI C136.31.
7 Must order fixture with SPA mounting. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
8 Must be ordered with PIRHN.
9 Sensor cover available only in dark bronze, black, white and natural aluminum colors.
10 Must be ordered with NLTAIR2. For more information on nLight Air 2 visit this link
11 Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
12 If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Shorting Cap included.
13 DMG not available with PIRHN, PER5, PER7, PIR, PIRH, PIR1FC3V or PIRH1FC3V.
14 Reference Motion Sensor table on page 3.
15 Reference PER Table on page 3 to see functionality.
16 Not available with other dimming controls options.
17 Not available with BLC, LCCO and RCCO distribution.
18 Must be ordered with fixture for factory pre-drilling.
19 Requires luminaire to be specified with PER, PER5 or PER7 option. See PER Table on page 3.
20 For retrofit use only.

EGS – External Glare Shield

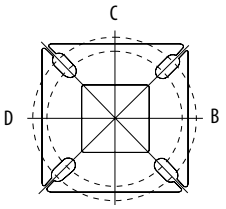


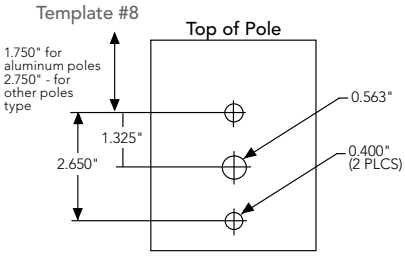




Drilling

HANDHOLE ORIENTATION
(from top of pole)





Tenon Mounting Slipfitter

Tenon O.D.	Single Unit	2 at 180°	2 at 90°	3 at 120°	3 at 90°	4 at 90°
2-3/8"	AST20-190	AST20-280	AST20-290	AST20-320	AST20-390	AST20-490
2-7/8"	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

Mounting Option	**Drilling Template**	**Single**	**2 @ 180**	**2 @ 90**	**3 @ 90**	**3 @ 120**	**4 @ 90**
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS
		Minimum Acceptable Outside Pole Dimension					
SPA	#8	2-7/8"	2-7/8"	3.5"	3.5"		3.5"
RPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
SPUMBA	#5	2-7/8"	3"	4"	4"		4"
RPUMBA	#5	2-7/8"	3.5"	5"	5"	3.5"	5"

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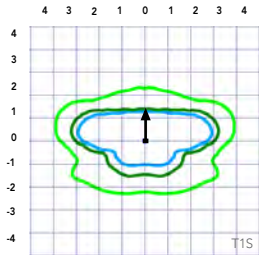
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Area Size 0 homepage.

Isofootcandle plots for the DSX0 LED 40C 1000 40K. Distances are in units of mounting height (20').

LEGEND

- 0.1 fc
- 0.5 fc
- 1.0 fc



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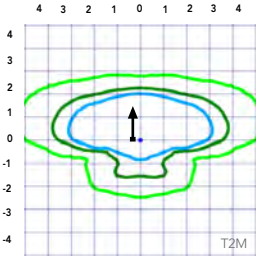

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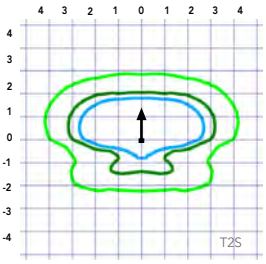

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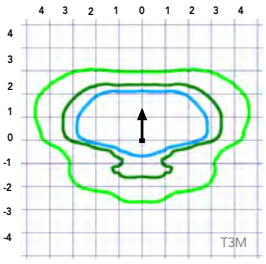

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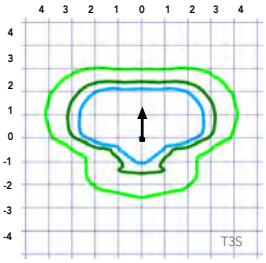

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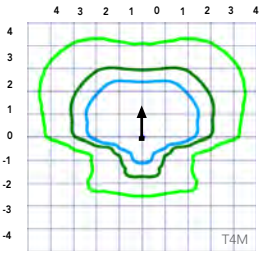

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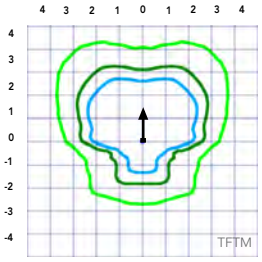

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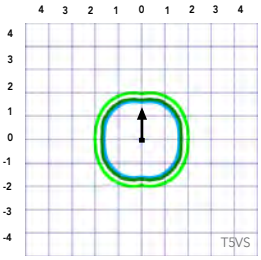

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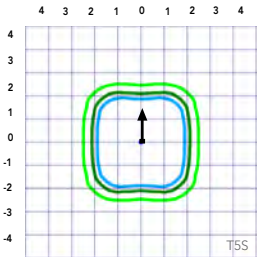

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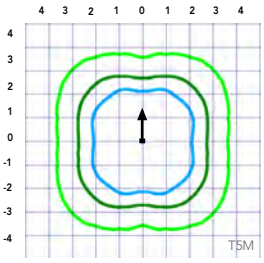

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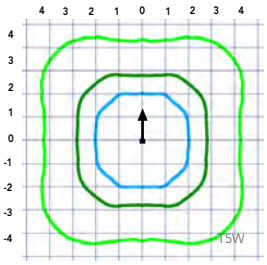

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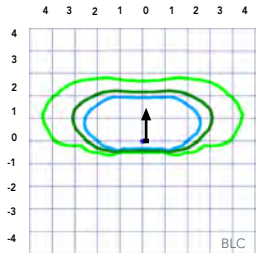

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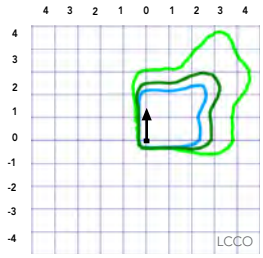

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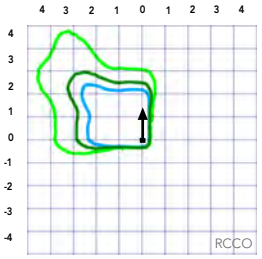

Test No.

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Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	50°F	1.02
20°C	68°F	1.01
25°C	**77°C**	**1.00**
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor
25,000	0.96
50,000	0.92
100,000	0.85

Motion Sensor Default Settings						
Option	Dimmed State	High Level (when triggered)	Phototcell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min
*for use with separate Dusk to Dawn or timer.						

Electrical Load

					Current (A)					
	Performance Package	LED Count	Drive Current	Wattage	120	208	240	277	347	480
Forward Optics (Non-Rotated)	P1	20	530	38	0.32	0.18	0.15	0.15	0.10	0.08
	P2	20	700	49	0.41	0.23	0.20	0.19	0.14	0.11
	P3	20	1050	71	0.60	0.37	0.32	0.27	0.21	0.15
	P4	20	1400	92	0.77	0.45	0.39	0.35	0.28	0.20
	P5	40	700	89	0.74	0.43	0.38	0.34	0.26	0.20
	P6	40	1050	134	1.13	0.65	0.55	0.48	0.39	0.29
	P7	40	1300	166	1.38	0.80	0.69	0.60	0.50	0.37
Rotated Optics (Requires L90 or R90)	P10	30	530	53	0.45	0.26	0.23	0.21	0.16	0.12
	P11	30	700	72	0.60	0.35	0.30	0.27	0.20	0.16
	P12	30	1050	104	0.88	0.50	0.44	0.39	0.31	0.23
	P13	30	1300	128	1.08	0.62	0.54	0.48	0.37	0.27

Controls Options

Nomenclature	Descripton	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the lumiaire; wired to the driver dimming leads.	Allows the lumiaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS	Drivers wired independantly for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two seperately switched circuits. Consider nLight AIR as a more cost effective alternative.
PER5 or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire
PIR or PIRH	Motion sensors with integral photocell. PIR for 8-15' mounting; PIRH for 15-30' mounting	Luminaires dim when no occupancy is detected.	Acuity Controls SBOR	Also available with PIRH1FC3V when the sensor photocell is used for dusk-to-dawn operation.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclypse.	nLight Air rSDGR	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app.

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Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics

Power Package	LED Count	Drive Current	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	20	530	38W	T1S	4,369	1	0	1	115	4,706	1	0	1	124	4,766	1	0	1	125
				T2S	4,364	1	0	1	115	4,701	1	0	1	124	4,761	1	0	1	125
				T2M	4,387	1	0	1	115	4,726	1	0	1	124	4,785	1	0	1	126
				T3S	4,248	1	0	1	112	4,577	1	0	1	120	4,634	1	0	1	122
				T3M	4,376	1	0	1	115	4,714	1	0	1	124	4,774	1	0	1	126
				T4M	4,281	1	0	1	113	4,612	1	0	2	121	4,670	1	0	2	123
				TFTM	4,373	1	0	1	115	4,711	1	0	2	124	4,771	1	0	2	126
				T5VS	4,548	2	0	0	120	4,900	2	0	0	129	4,962	2	0	0	131
				T5S	4,552	2	0	0	120	4,904	2	0	0	129	4,966	2	0	0	131
				T5M	4,541	3	0	1	120	4,891	3	0	1	129	4,953	3	0	1	130
				T5W	4,576	3	0	2	120	4,929	3	0	2	130	4,992	3	0	2	131
				BLC	3,586	1	0	1	94	3,863	1	0	1	102	3,912	1	0	1	103
				LCCO	2,668	1	0	1	70	2,874	1	0	2	76	2,911	1	0	2	77
				RCCO	2,668	1	0	1	70	2,874	1	0	2	76	2,911	1	0	2	77
P2	20	700	49W	T1S	5,570	1	0	1	114	6,001	1	0	1	122	6,077	2	0	2	124
				T2S	5,564	1	0	2	114	5,994	1	0	2	122	6,070	2	0	2	124
				T2M	5,593	1	0	1	114	6,025	1	0	1	123	6,102	1	0	1	125
				T3S	5,417	1	0	2	111	5,835	1	0	2	119	5,909	2	0	2	121
				T3M	5,580	1	0	2	114	6,011	1	0	2	123	6,087	1	0	2	124
				T4M	5,458	1	0	2	111	5,880	1	0	2	120	5,955	1	0	2	122
				TFTM	5,576	1	0	2	114	6,007	1	0	2	123	6,083	1	0	2	124
				T5VS	5,799	2	0	0	118	6,247	2	0	0	127	6,327	2	0	0	129
				T5S	5,804	2	0	0	118	6,252	2	0	0	128	6,332	2	0	1	129
				T5M	5,789	3	0	1	118	6,237	3	0	1	127	6,316	3	0	1	129
				T5W	5,834	3	0	2	119	6,285	3	0	2	128	6,364	3	0	2	130
				BLC	4,572	1	0	1	93	4,925	1	0	1	101	4,987	1	0	1	102
				LCCO	3,402	1	0	2	69	3,665	1	0	2	75	3,711	1	0	2	76
				RCCO	3,402	1	0	2	69	3,665	1	0	2	75	3,711	1	0	2	76
P3	20	1050	71W	T1S	7,833	2	0	2	110	8,438	2	0	2	119	8,545	2	0	2	120
				T2S	7,825	2	0	2	110	8,429	2	0	2	119	8,536	2	0	2	120
				T2M	7,865	2	0	2	111	8,473	2	0	2	119	8,580	2	0	2	121
				T3S	7,617	2	0	2	107	8,205	2	0	2	116	8,309	2	0	2	117
				T3M	7,846	2	0	2	111	8,452	2	0	2	119	8,559	2	0	2	121
				T4M	7,675	2	0	2	108	8,269	2	0	2	116	8,373	2	0	2	118
				TFTM	7,841	2	0	2	110	8,447	2	0	2	119	8,554	2	0	2	120
				T5VS	8,155	3	0	0	115	8,785	3	0	0	124	8,896	3	0	0	125
				T5S	8,162	3	0	1	115	8,792	3	0	1	124	8,904	3	0	1	125
				T5M	8,141	3	0	2	115	8,770	3	0	2	124	8,881	3	0	2	125
				T5W	8,204	3	0	2	116	8,838	4	0	2	124	8,950	4	0	2	126
				BLC	6,429	1	0	2	91	6,926	1	0	2	98	7,013	1	0	2	99
				LCCO	4,784	1	0	2	67	5,153	1	0	2	73	5,218	1	0	2	73
				RCCO	4,784	1	0	2	67	5,153	1	0	2	73	5,218	1	0	2	73
P4	20	1400	92W	T1S	9,791	2	0	2	106	10,547	2	0	2	115	10,681	2	0	2	116
				T2S	9,780	2	0	2	106	10,536	2	0	2	115	10,669	2	0	2	116
				T2M	9,831	2	0	2	107	10,590	2	0	2	115	10,724	2	0	2	117
				T3S	9,521	2	0	2	103	10,256	2	0	2	111	10,386	2	0	2	113
				T3M	9,807	2	0	2	107	10,565	2	0	2	115	10,698	2	0	2	116
				T4M	9,594	2	0	2	104	10,335	2	0	3	112	10,466	2	0	3	114
				TFTM	9,801	2	0	2	107	10,558	2	0	2	115	10,692	2	0	2	116
				T5VS	10,193	3	0	1	111	10,981	3	0	1	119	11,120	3	0	1	121
				T5S	10,201	3	0	1	111	10,990	3	0	1	119	11,129	3	0	1	121
				T5M	10,176	4	0	2	111	10,962	4	0	2	119	11,101	4	0	2	121
				T5W	10,254	4	0	3	111	11,047	4	0	3	120	11,186	4	0	3	122
				BLC	8,036	1	0	2	87	8,656	1	0	2	94	8,766	1	0	2	95
				LCCO	5,979	1	0	2	65	6,441	1	0	2	70	6,523	1	0	3	71
					5,979	1	0	2	65	6,441	1	0	2	70	6,523	1	0	3	71

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STATE OF MAINE
DEPARTMENT OF AGRICULTURE, CONSERVATION & FORESTRY
177 STATE HOUSE STATION
AUGUSTA, MAINE 04333

JANET T. MILLS
GOVERNOR

AMANDA E. BEAL
COMMISSIONER

July 20, 2020

James Kiser
Kiser & Kiser
PO Box 282
Hampden, ME 04444

Via email: jim@kiser-kiser.com

Re: Rare and exemplary botanical features in proximity to: #797, Commercial Facility, 558 Main Road North, Hampden, Maine

Dear Mr. Kiser:

I have searched the Maine Natural Areas Program's Biological and Conservation Data System files in response to your request received July 17, 2020 for information on the presence of rare or unique botanical features documented from the vicinity of the project in Hampden, Maine. Rare and unique botanical features include the habitat of rare, threatened, or endangered plant species and unique or exemplary natural communities. Our review involves examining maps, manual and computerized records, other sources of information such as scientific articles or published references, and the personal knowledge of staff or cooperating experts.

Our official response covers only botanical features. For authoritative information and official response for zoological features you must make a similar request to the Maine Department of Inland Fisheries and Wildlife, 284 State Street, Augusta, Maine 04333.

According to the information currently in our Biological and Conservation Data System files, there are no rare botanical features documented specifically within the project area. This lack of data may indicate minimal survey efforts rather than confirm the absence of rare botanical features. You may want to have the site inventoried by a qualified field biologist to ensure that no undocumented rare features are inadvertently harmed.

If a field survey of the project area is conducted, please refer to the enclosed supplemental information regarding rare and exemplary botanical features documented to occur in the vicinity of the project site. The list may include information on features that have been known to occur historically in the area as well as recently field-verified information. While historic records have not been documented in several years, they may persist in the area if suitable habitat exists. The enclosed list identifies features with potential to occur in the area, and it should be considered if you choose to conduct field surveys.

This finding is available and appropriate for preparation and review of environmental assessments, but it is not a substitute for on-site surveys. Comprehensive field surveys do not exist for all natural areas in Maine, and in the absence of a specific field investigation, the Maine Natural Areas Program cannot provide a definitive statement on the presence or absence of unusual natural features at this site.

MOLLY DOCHERTY, DIRECTOR
MAINE NATURAL AREAS PROGRAM
BLOSSOM LANE, DEERING BUILDING

PHONE: (207) 287-804490
WWW.MAINE.GOV/DACF/MNAP

The Maine Natural Areas Program (MNAP) is continuously working to achieve a more comprehensive database of exemplary natural features in Maine. We would appreciate the contribution of any information obtained should you decide to do field work. MNAP welcomes coordination with individuals or organizations proposing environmental alteration or conducting environmental assessments. If, however, data provided by MNAP are to be published in any form, the Program should be informed at the outset and credited as the source.

Thank you for using MNAP in the environmental review process. Please do not hesitate to contact me if you have further questions about the Natural Areas Program or about rare or unique botanical features on this site.

Sincerely,

Kristen Puryear | Ecologist | Maine Natural Areas Program
207-287-8043 | kristen.puryear@maine.gov

Rare and Exemplary Botanical Features within 4 miles of
Project: #797, Commercial Facility, 558 Main Road North, Hampden, Maine

Common Name	State Status	State Rank	Global Rank	Date Last Observed	Occurrence Number	Habitat
Bicknell's Sedge						
	E	S1	G5	1931-06-26	1	Old field/roadside (non-forested, wetland or upland)
Estuary Bur-marigold						
	SC	S3	G4	2004-08-21	11	Tidal wetland (non-forested, wetland)
	SC	S3	G4	2005-09-20	12	Tidal wetland (non-forested, wetland)
	SC	S3	G4	2005-09-19	34	Tidal wetland (non-forested, wetland)
Horned Pondweed						
	SC	S2	G5	2006-08-17	18	Tidal wetland (non-forested, wetland)
Mudwort						
	SC	S3	G4G5	2005-09-20	28	Tidal wetland (non-forested, wetland)
	SC	S3	G4G5	2005-09-19	36	Tidal wetland (non-forested, wetland)
	SC	S3	G4G5	2004-08-21	27	Tidal wetland (non-forested, wetland)
Orono Sedge						
	T	S3	G3	1908-07-07	2	Old field/roadside (non-forested, wetland or upland)
Parker's Pipewort						
	SC	S3	G3	2005-09-20	10	Tidal wetland (non-forested, wetland)
	SC	S3	G3	2005-09-19	36	Tidal wetland (non-forested, wetland)
	SC	S3	G3	1937-08-23	11	Tidal wetland (non-forested, wetland)
	SC	S3	G3	2004-08-21	3	Tidal wetland (non-forested, wetland)
Purple Clematis						
	SC	S3	G5T5	1916-08	14	Non-tidal rivershore (non-forested, seasonally wet),Hardwood to mixed forest (forest, upland)
Pygmyweed						
	SC	S2S3	G5	2005-09-19	26	Open water (non-forested, wetland)

Rare and Exemplary Botanical Features within 4 miles of
Project: #797, Commercial Facility, 558 Main Road North, Hampden, Maine

Common Name	State Status	State Rank	Global Rank	Date Last Observed	Occurrence Number	Habitat
	SC	S2S3	G5	2004-08-21	2	Open water (non-forested, wetland)
	SC	S2S3	G5	1990	3	Open water (non-forested, wetland)
Raised Level Bog Ecosystem						
	<null>	S4	GNR	2002	12	Forested wetland,Open wetland, not coastal nor rivershore (non-forested, wetland)
Showy Lady's-slipper						
	SC	S3	G4G5	1906-07-13	25	Forested wetland,Open wetland, not coastal nor rivershore (non-forested, wetland)
Sparse-flowered Sedge						
	SC	S3	G5	1905-06-25	11	Forested wetland,Open wetland, not coastal nor rivershore (non-forested, wetland)
Spongy-leaved Arrowhead						
	SC	S3	G5T4	1937-08-16	24	Tidal wetland (non-forested, wetland)
	SC	S3	G5T4	1958-08-20	23	Tidal wetland (non-forested, wetland)
	SC	S3	G5T4	2004-08-21	5	Tidal wetland (non-forested, wetland)
	SC	S3	G5T4	2006-08-17	45	Tidal wetland (non-forested, wetland)
	SC	S3	G5T4	1990	25	Tidal wetland (non-forested, wetland)
Stiff Arrowhead						
	SC	S2	G5	2007-07-27	10	Tidal wetland (non-forested, wetland)
Upper Floodplain Hardwood Forest						
	<null>	S3	GNR	2014-05-07	29	Forested wetland
Water Pimpernel						
	SC	S3	G5T5	2005-09-20	17	Tidal wetland (non-forested, wetland)
	SC	S3	G5T5	2004-08-21	3	Tidal wetland (non-forested, wetland)
Wild Garlic						

Rare and Exemplary Botanical Features within 4 miles of
Project: #797, Commercial Facility, 558 Main Road North, Hampden, Maine

Common Name	State Status	State Rank	Global Rank	Date Last Observed	Occurrence Number	Habitat
	SC	S2	G5	2014-05-07	23	Forested wetland,Hardwood to mixed forest (forest, upland)

STATE RARITY RANKS

S1 Critically imperiled in Maine because of extreme rarity (five or fewer occurrences or very few remaining individuals or acres) or because some aspect of its biology makes it especially vulnerable to extirpation from the State of Maine.
S2 Imperiled in Maine because of rarity (6-20 occurrences or few remaining individuals or acres) or because of other factors making it vulnerable to further decline.
S3 Rare in Maine (20-100 occurrences).
S4 Apparently secure in Maine.
S5 Demonstrably secure in Maine.
SU Under consideration for assigning rarity status; more information needed on threats or distribution.
SNR Not yet ranked.
SNA Rank not applicable.
S#? Current occurrence data suggests assigned rank, but lack of survey effort along with amount of potential habitat create uncertainty (e.g. S3?).

Note: **State Rarity Ranks** are determined by the Maine Natural Areas Program for rare plants and rare and exemplary natural communities and ecosystems. The Maine Department of Inland Fisheries and Wildlife determines State Rarity Ranks for animals.

GLOBAL RARITY RANKS

G1 Critically imperiled globally because of extreme rarity (five or fewer occurrences or very few remaining individuals or acres) or because some aspect of its biology makes it especially vulnerable to extinction.
G2 Globally imperiled because of rarity (6-20 occurrences or few remaining individuals or acres) or because of other factors making it vulnerable to further decline.
G3 Globally rare (20-100 occurrences).
G4 Apparently secure globally.
G5 Demonstrably secure globally.
GNR Not yet ranked.

Note: **Global Ranks** are determined by NatureServe.

STATE LEGAL STATUS

Note: State legal status is according to 5 M.R.S.A. § 13076-13079, which mandates the Department of Conservation to produce and biennially update the official list of Maine's **Endangered** and **Threatened** plants. The list is derived by a technical advisory committee of botanists who use data in the Natural Areas Program's database to recommend status changes to the Department of Conservation.

E ENDANGERED; Rare and in danger of being lost from the state in the foreseeable future; or federally listed as Endangered.
T THREATENED; Rare and, with further decline, could become endangered; or federally listed as Threatened.

NON-LEGAL STATUS

SC SPECIAL CONCERN; Rare in Maine, based on available information, but not sufficiently rare to be considered Threatened or Endangered.
PE Potentially Extirpated; Species has not been documented in Maine in past 20 years or loss of last known occurrence has been documented.

Visit our website for more information on rare, threatened, and endangered species!
http://www.maine.gov/dacf/mnap

ELEMENT OCCURRENCE RANKS - EO RANKS

Element Occurrence ranks are used to describe the quality of a rare plant population or natural community based on three factors:

- **Size**: Size of community or population relative to other known examples in Maine. Community or population's viability, capability to maintain itself.
- **Condition**: For communities, condition includes presence of representative species, maturity of species, and evidence of human-caused disturbance. For plants, factors include species vigor and evidence of human-caused disturbance.
- **Landscape context**: Land uses and/or condition of natural communities surrounding the observed area. Ability of the observed community or population to be protected from effects of adjacent land uses.

These three factors are combined into an overall ranking of the feature of **A**, **B**, **C**, or **D**, where **A** indicates an **excellent** example of the community or population and **D** indicates a **poor** example of the community or population. A rank of **E** indicates that the community or population is **extant** but there is not enough data to assign a quality rank. The Maine Natural Areas Program tracks all occurrences of rare (S1-S3) plants and natural communities as well as A and B ranked common (S4-S5) natural communities.

Note: **Element Occurrence Ranks** are determined by the Maine Natural Areas Program for rare plants and rare and exemplary natural communities and ecosystems. The Maine Department of Inland Fisheries and Wildlife determines Element Occurrence ranks for animals.

Visit our website for more information on rare, threatened, and endangered species!
http://www.maine.gov/dacf/mnap

JANET T. MILLS
GOVERNOR

STATE OF MAINE
DEPARTMENT OF
INLAND FISHERIES & WILDLIFE
284 STATE STREET
41 STATE HOUSE STATION
AUGUSTA ME 04333-0041

JUDITH CAMUSO
COMMISSIONER

August 18, 2020

James Kiser
Kiser & Kiser Engineering
PO Box 282
Hampden, ME 04444

RE: Information Request – 588 Main Road North Project, Hampden

Dear Jim:

Per your request received on July 17, 2020, we have reviewed current Maine Department of Inland Fisheries and Wildlife (MDIFW) information for known locations of Endangered, Threatened, and Special Concern species; designated Essential and Significant Wildlife Habitats; and inland fisheries habitat concerns within the vicinity of the *588 Main Road North Project* in Hampden. Per your letter, surveys for vernal pools have been conducted and none are located in the project area.

Our Department has not mapped any Essential Habitats or inland fisheries habitats that would be directly affected by your project.

Endangered, Threatened, and Special Concern Species

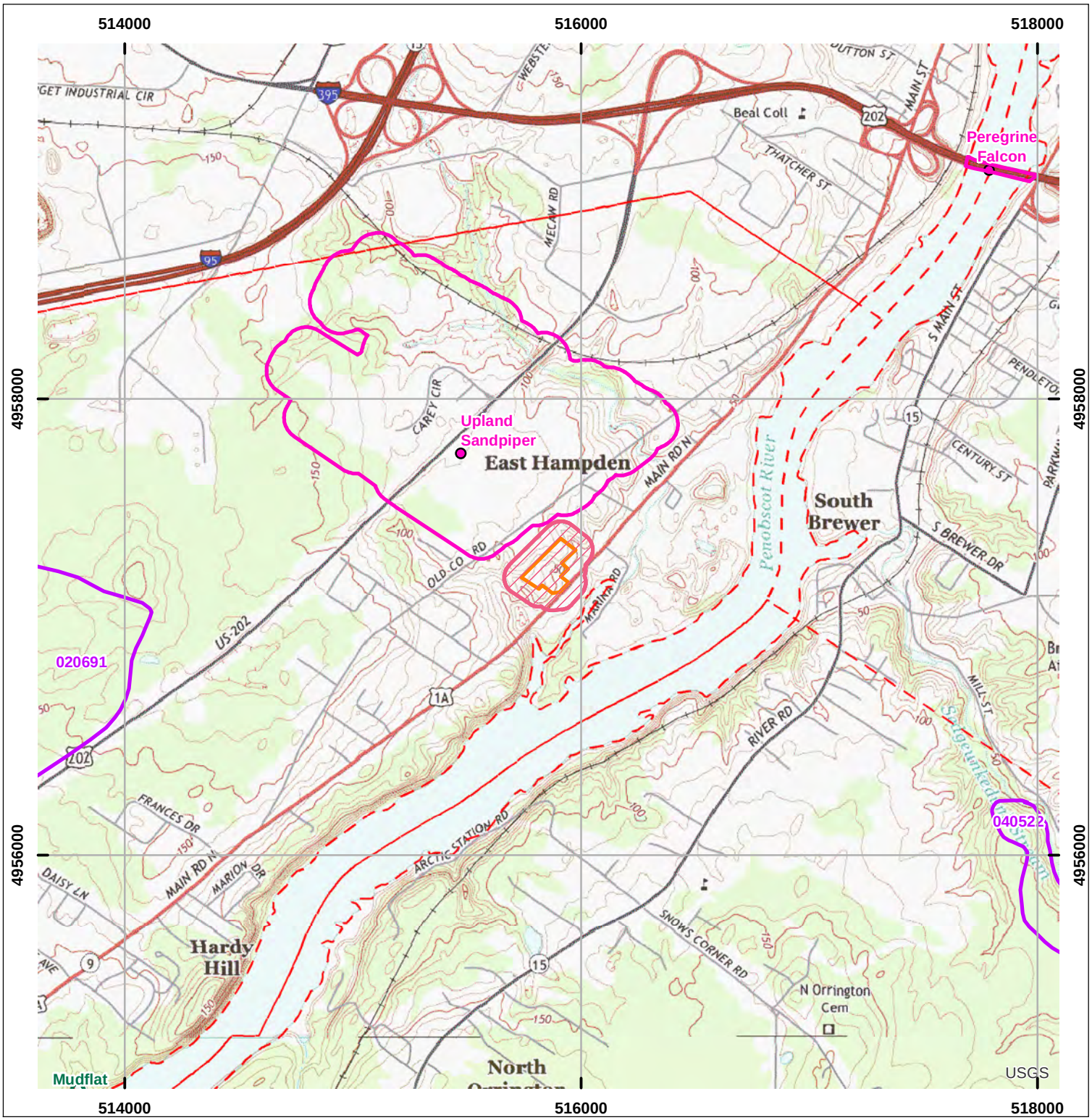
Bat Species – Of the eight species of bats that occur in Maine, the three *Myotis* species are protected under Maine's Endangered Species Act (MESA) and are afforded special protection under 12 M.R.S §12801 - §12810. The three *Myotis* species include little brown bat (State Endangered), northern long-eared bat (State Endangered), and eastern small-footed bat (State Threatened). The five remaining bat species are listed as Special Concern: big brown bat, red bat, hoary bat, silver-haired bat, and tri-colored bat. While a comprehensive statewide inventory for bats has not been completed, based on historical evidence it is likely that several of these species occur within the project area during migration and/or the breeding season. However, our Agency does not anticipate significant impacts to any of the bat species as a result of this project.

This consultation review has been conducted specifically for known MDIFW jurisdictional features and should not be interpreted as a comprehensive review for the presence of other regulated features that may occur in this area. Prior to the start of any future site disturbance we recommend additional consultation with the municipality, and other state resource agencies including the Maine Natural Areas Program, Maine Department of Marine Resources, and Maine Department of Environmental Protection in order to avoid unintended protected resource disturbance.

Please feel free to contact my office if you have any questions regarding this information, or if I can be of any further assistance.

Best regards,

Becca Settele
Wildlife Biologist



Environmental Review of Fish and Wildlife Observations and Priority Habitats

Project Name: 588 Main Road North, Hampden (Version 1)

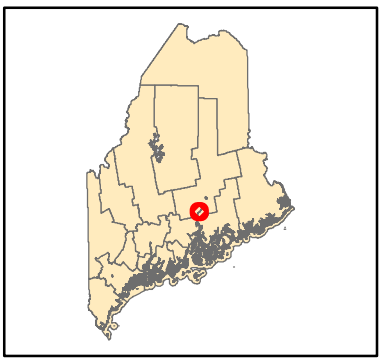
Maine Department of Inland Fisheries and Wildlife

0 0.125 0.25 0.5 0.75 1 Miles

Projection: UTM, NAD83, Zone 19N

Date: 7/17/2020

- ProjectPoints
- ProjectLines
- ProjectPolys
- ProjectSearchAreas
- Maine Cliff and Talus Areas
- Deer Winter Area
- LUPC p-fw
- Cooperative DWAs
- Seabird Nesting Islands
- Shorebird Areas
- Inland Waterfowl and Wading Bird
- 2008 Iwwh - Shoreland Zoning
- Tidal Waterfowl and Wading Bird
- Significant Vernal Pools
- Environmental Review Polygons
- Roseate Tern
- Piping Plover and Least Tern
- Aquatic ETSc - 2.5 mi review
- Rare Mussels - 5 mi review
- Maine Heritage Fish Waters
- Arctic Charr Habitat
- Redfin Pickerel and Swamp Darter Habitats - buffer100ft
- Special Concern occupied habitats - 100ft buffer
- Wild Lake Trout Habitats



KISER KISER
ENGINEERING & DEVELOPMENT CONSULTING

Job #797

20 July 2020

Kirk Mohney
State Historic Preservation Officer
65 State House Station
Augusta, ME 04333-0065

588 Main Road North, Hampden

Dear Kirk,

We are currently working to develop this 10.5± acre parcel of land located on Main Road North (Route 1A) in Hampden. The property has commercial development along the road and is mostly wooded behind the buildings. The property has an old house built in the 1800's but it is in poor condition. We are in the initial stages of developing the project into a multi-building commercial facility.

The attached USGS and Aerial Photo illustrate the site and the surrounding area. In addition, we are providing photos of the house on the property and understand that it is not on the Hampden Historical Societies listings. There are no other buildings in the area that have any age or features of significance. If additional photos of this home or the area are required, please advise.

We would appreciate your review of this information and other available data and inform us if the commission has any concerns related to development of this parcel.

Thank you for your assistance and we look forward to hearing from you in the near future.

Best regards,

James R. Kiser, PE
Kiser & Kiser Co.

Enc.

PO Box 282, Hampden, Maine 04444 207-862-4700

Northerly side of house

Southerly side and rear of house