City of Auburn
Development Review Application

Taylor Brook House
at
Hotel Road, Auburn, Maine

Prepared for: John F. Murphy Homes, Inc.

March 3, 2023

MAIN-LAND DEVELOPMENT CONSULTANTS, INC.
PO BOX Q | 69 MAIN ST
LIVERMORE FALLS, MAINE 04254
367 ROUTE 1
FALMOUTH, MAINE 04105
(207) 897-6752

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Tab Number **Section**

Development Review Application

City of Auburn Planning and Permitting Department
City of Lewiston Department of Planning and Code Enforcement

PROJECT NAME: Taylor Brook House

PROPOSED DEVELOPMENT ADDRESS: Hotel Road

PARCEL ID#: 237-070-001

REVIEW TYPE:
Site Plan X **Site Plan Amendment** □
Subdivision □ **Subdivision Amendment** □

PROJECT DESCRIPTION: A new 8-bed Care Home run by John F. Murphy Homes, Inc.
Please see project narrative for more details

CONTACT INFORMATION:

Applicant	**Property Owner**
Name: John F. Murphy Homes, Inc	**Name:** Beth C. Bell & John D. Crafts
Address: 800 Center St., Auburn, ME	**Address:** 2 Passing Ln, Lisbon Falls, ME
Zip Code 04210	**Zip Code** 04252
Work #: 207-440-6213	**Work #:**
Cell #:	**Cell #:**
Fax #: 207-782-1734	**Fax #:**
Home #:	**Home #:**
Email: andrew.cowan@jfmh.org	**Email:**

Project Representative	**Other professional representatives for the project (surveyors, engineers, etc.),**
Name: Main-Land Development Consultants, Inc	**Name:** Stoneybrook Land use, Inc. (Mike Gotto)
Address: Po Box Q, Livermore Falls, ME	**Address:** 4846 Sun City Ctr Blvd #300, Sun City Ctr, FL
Zip Code 04254	**Zip Code** 33573
Work #: 207-897-6752	**Work #:**
Cell #: 207-931-8484 (Esther Bizier, P.E.)	**Cell #:** 207-513-6123
Fax #:	**Fax #:**
Home #:	**Home #:**
Email: esther@main-landdci.com	**Email:** mike@stoneybrookllc.com

PROJECT DATA

The following information is required where applicable, in order complete the application

IMPERVIOUS SURFACE AREA/RATIO

Existing Total Impervious Area	6,980	sq. ft.
Proposed Total Paved Area	33,541	sq. ft.
Proposed Total Impervious Area	49,658	sq. ft.
Proposed Impervious Net Change	42,678	sq. ft.
Impervious surface ratio existing	1.3 %	% of lot area
Impervious surface ratio proposed	9.02%	% of lot area

BUILDING AREA/LOT COVERAGE

Existing Building Footprint	0	sq. ft.
Proposed Building Footprint	13,469	sq. ft.
Proposed Building Footprint Net change	13,469	sq. ft.
Existing Total Building Floor Area	0	sq. ft.
Proposed Total Building Floor Area	12,600	sq. ft.
Proposed Building Floor Area Net Change	12,600	sq. ft
New Building	yes	(yes or no)
Building Area/Lot coverage existing	0%	% of lot area
Building Area/Lot coverage proposed	2.4%	% of lot area

ZONING

Existing	Suburban Residential with RP SLZ Overlay
Proposed, if applicable	N/A

LAND USE

Existing	vacant
Proposed	Care Home

RESIDENTIAL, IF APPLICABLE

Existing Number of Residential Units	N/A
Proposed Number of Residential Units	N/A
Subdivision, Proposed Number of Lots	N/A

PARKING SPACES

Existing Number of Parking Spaces	0
Proposed Number of Parking Spaces	17
Number of Handicapped Parking Spaces	2
Proposed Total Parking Spaces	19

ESTIMATED COST OF PROJECT

$4.9M to $5.1M

DELEGATED REVIEW AUTHORITY CHECKLIST

SITE LOCATION OF DEVELOPMENT AND STORMWATER MANAGEMENT

Existing Impervious Area	6,980	sq. ft.
Proposed Disturbed Area	122,404	sq. ft.
Proposed Impervious Area	49,658	sq. ft.

1. ***If the proposed disturbance is greater than one acre, then the applicant shall apply for a Maine Construction General Permit (MCGP) with MDEP.***
2. ***If the proposed impervious area is greater than one acre including any impervious area crated since 11/16/05, then the applicant shall apply for a MDEP Stormwater Management Permit, Chapter 500, with the City.***
3. ***If total impervious area (including structures, pavement, etc) is greater than 3 acres since 1971 but less than 7 acres, then the applicant shall apply for a Site Location of Development Permit with the City. If more than 7 acres then the application shall be made to MDEP unless determined otherwise.***
4. ***If the development is a subdivision of more than 20 acres but less than 100 acres then the applicant shall apply for a Site Location of Development Permit with the City. If more than 100 acres then the application shall be made to MDEP unless determined otherwise.***

TRAFFIC ESTIMATE

Total traffic estimated in the peak hour-existing (Since July 1, 1997) 0 passenger car equivalents (PCE)

Total traffic estimated in the peak hour-proposed (Since July 1, 1997) 13 passenger car equivalents (PCE)

If the proposed increase in traffic exceeds 100 one-way trips in the peak hour then a traffic movement permit will be required.

Zoning Summary

1. Property is located in the Suburban Residence zoning district.
2. Parcel Area: 12.63 acres / 550,162 square feet(sf).

Regulations	Required/Allowed	Provided
Min Lot Area	21,780 sf	/ 550,162 sf
Street Frontage	150 ft	/ 331 ft
Min Front Yard	25 ft	/ 241 ft
Min Rear Yard	25 ft	/ 252 ft
Min Side Yard	15 ft	/ 83 ft
Max. Building Height	35 ft	/
Use Designation		/ Care Home
Parking Requirement	1 space/ per	square feet of floor area
Total Parking:		/ 19 total
Overlay zoning districts(if any):	Resource Protection / SLZ Overlay	/
Urban impaired stream watershed?	YES/NO If yes, watershed name	No

DEVELOPMENT REVIEW APPLICATION SUBMISSION

Submissions shall include fifteen (15) complete packets containing the following materials:

1. Full size plans containing the information found in the attached sample plan checklist.
2. Application form that is completed and signed.
3. Cover letter stating the nature of the project.
4. All written submittals including evidence of right, title and interest.
5. Copy of the checklist completed for the proposal listing the material contained in the submitted application.

Refer to the application checklist for a detailed list of submittal requirements.

L/A's development review process and requirements have been made similar for convenience and to encourage development. Each Citys ordinances are available online at their prospective websites:
Auburn: www.auburnmaine.org under City Departments/ Planning and Permitting/Land Use Division/Zoning Ordinance
Lewiston: http://www.ci.lewiston.me.us/clerk/ordinances.htm Refer to Appendix A of the Code of Ordiances

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, I certify that the City's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

This application is for development review only; a Performance Guarantee, Inspection Fee, Building Permit Application and other associated fees and permits will be required prior to construction.

Signature of Applicant:	**Date:**
Esther K Bijoux	March 3, 2023

City of Auburn, Maine
Office of Planning & Permitting
Eric J. Cousens, Director
60 Court Street | Auburn, Maine 04210
www.auburnmaine.gov | 207.333.6601

Development Review Checklist

The following information is required where applicable to be submitted for an application to be complete

PROJECT NAME: Taylor Brook House

PROPOSED DEVELOPMENT ADDRESS: _____

PARCEL #: 237-070-001

Required Information		*Check when Submitted*		*Applicable Ordinance*
Site Plan		*Applicant*	*Staff*	
	Owner's Names/Address	x		
	Names of Development	x		
	Professionally Prepared Plan	x		
	Tax Map or Street/Parcel Number	x		
	Zoning of Property	x		
	Distance to Property Lines	x		
	Boundaries of Abutting land	x		
	Show Setbacks, Yards and Buffers	x		
	Airport Area of Influence	N/A		
	Parking Space Calcs	x		
	Drive Openings/Locations	x		
	Subdivision Restrictions	N/A		
	Proposed Use	x		
	PB/BOA/Other Restrictions	N/A		
	Fire Department Review	x		
	Open Space/Lot Coverage	x		

Required Information		*Check when Submitted*		*Applicable Ordinance*
Landscape Plan		*Applicant*	*Staff*	
	Greenspace Requirements	x		
	Setbacks to Parking	x		
	Buffer Requirements	x		
	Street Tree Requirements	n/a		
	Screened Dumpsters	x		
	Additional Design Guidelines	x		
	Planting Schedule	x		
Stormwater & Erosion Control Plan		*Applicant*	*Staff*	
	Compliance w/ chapter 500	x		
	Show Existing Surface Drainage	x		
	Direction of Flow	x		
	Location of Catch Basins, etc.	x		
	Drainage Calculations	x		
	Erosion Control Measures	x		
	Maine Construction General Permit	x		
	Bonding and Inspection Fees			
	Post-Construction Stormwater Plan	x		
	Inspection/monitoring requirements	x		
Lighting Plan		*Applicant*	*Staff*	
	Full cut-off fixtures	x		
	Meets Parking Lot Requirements	x		
Traffic Information		*Applicant*	*Staff*	
	Access Management	x		
	Signage	x		
	PCE - Trips in Peak Hour	x		

Required Information		*Check when Submitted*		*Applicable Ordinance*
	Vehicular Movements	x		
	Safety Concerns	x		
	Pedestrian Circulation	x		
	Police Traffic	x		
	Engineering Traffic	x		
Utility Plan		***Applicant***	***Staff***	
	Water	x		
	Adequacy of Water Supply	x		
	Water main extension agreement			
	Sewer	x		
	Available city capacity	x		
	Electric	x		
	Natural Gas	x		
	Cable/Phone	x		
Natural Resources		***Applicant***	***Staff***	
	Shoreland Zone	x		
	Flood Plain	x		
	Wetlands or Streams	x		
	Urban Impaired Stream	N/A		
	Phosphorus Check	N/A		
	Aquifer/Groundwater Protection	NA		
	Applicable State Permits	x		
	Lake Auburn Watershed	N/A		
	Taylor Pond Watershed	N/A		
Right, Title or Interest		***Applicant***	***Staff***	
	Verify	x		
	Document Existing Easements, Covenants, etc.	x		

Required Information		*Check when Submitted*		*Applicable Ordinance*
Technical & Financial Capacity		***Applicant***	***Staff***	
	Cost Est./Financial Capacity	x		
	Performance Guarantee			
State Subdivision Law		***Applicant***	***Staff***	
	Verify/Check	N/A		
	Covenants/Deed Restrictions	N/A		
	Offers of Conveyance to City	N/A		
	Association Documents	N/A		
	Location of Proposed Streets & Sidewalks	N/A		
	Proposed Lot Lines, etc.	N/A		
	Data to Determine Lots, etc.	N/A		
	Subdivision Lots/Blocks	N/A		
	Specified Dedication of Land	N/A		
Additional Subdivision Standards		***Applicant***	***Staff***	
	Mobile Home Parks	N/A		
	PUD	N/A		
A JPEG or PDF of the proposed site plan		***Applicant***	***Staff***	
Final sets of the approved plans shall be submitted digitally to the City, on a CD or DVD, in AutoCAD format R 14 or greater, along with PDF images of the plans for archiving				

John F. Murphy Homes, Inc.

To Whom It May Concern:

The signature below authorizes Main-Land Development Consultants, Inc. and Stoneybrook Land Use, Inc. to act as the applicant's agents in the processing of the enclosed application.

2/20/2023

Andrew Cowan, CFO
for John F. Murphy Homes, Inc., applicant

800 Center St ● Auburn, Maine 04210 ● (207) 782-2726 ● Fax (207) 782-1734
www.jfmh.org

MAIN-LAND
DEVELOPMENT
CONSULTANTS, INC.

ENGINEERS, SURVEYORS, SCIENTISTS

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367 US ROUTE 1, S. BUILDING, FALMOUTH, ME 04105
TEL: (207) 897-6752/FAX: (207) 897-5404
WWW.MAIN-LANDDCI.COM

March 3, 2023

Mr. John A. Blais
Planning, Permitting and Code Division
City of Auburn
60 Court Street
Auburn, ME 04210

RE: Taylor Brook House for John F. Murphy Homes, Inc.
Hotel Road, Auburn, Maine

Dear Mr. Blais,

On behalf of John F. Murphy Homes, Inc. (JFMH), we are pleased to submit this permit application to secure approvals for Taylor Brook House, an 8-bed Care Home to be located off Hotel Road. The parcel is located in the Suburban Residential District and is also subject to the Resource Protection Shoreland Overlay District. Care Homes are a special exception use in the Suburban Residential District. As shown on plans and in this application, the use will not alter the characteristics of the neighborhood and will not result in the creation of any nuisance or unsafe conditions on site or in the surrounding area. The parcel is identified on the City GIS system as Parcel ID 237-070-001.

The property is currently vacant and is a mixture of field and woods, with one small gravel pull off adjacent to Hotel Road. Property boundaries are shown on the Existing Conditions Plan which is based on a survey completed by Main-Land. The lot contains 12.63 acres and has about 331 feet of frontage on Hotel Road. The lot also has about 1,425 feet of frontage on Taylor Brook. The Existing Condition Plan also shows mapped wetland areas, the 100-Year Flood Plain areas on the property and the location of the Resource Protection Shoreland Overlay District as depicted on the City of Auburn Zoning Map. City of Auburn sewer runs through the property along Taylor Brook via an easement and a Central Maine Power Easement runs across the eastern portion of the property. These utilities are shown on the Existing Condition Plans and Site Plans.

A full set of engineered Site Plans are enclosed. The site engineering plans provide full details for the site improvements, utility connections and stormwater improvements. All these improvements have been designed to meet City and State standards. We have also included plans showing a preliminary floor layout and elevation views of the building prepared by TAC Architectural Group, Inc.

Since 1977, people with intellectual disabilities, other developmental disabilities, and Autism Spectrum Disorder have been calling JFMH "home". JFMH is one of the nation's premier providers of these services and the leading provider in the Greater Lewiston-Auburn area. Their dedicated and committed professionals utilize best practices and the latest developments in the field of direct support and education to provide learning opportunities, community integration and compassionate care to those they support and their families. They offer Long-Term Residential Settings, Nursing Home Care, Community Support Programs, Shared Living Partnerships and Case Management.

The Taylor Brook House has been designed to replace an existing facility located in Lewiston which has become outdated. Taylor Brook House is fully handicap accessible and specifically designed for residents in wheelchairs with intellectual disabilities and/or autism. It will include about 13,000 square feet of new space all on one level. Each

resident will have a private bedroom with bathroom facilities. They will also have access to shared sitting areas near their bedrooms. The facility will include a kitchen, a common living area, a common dining area, activity area and common porch. Separate areas for private dining, tub rooms and PT services are also provided. On-duty staff will also have separate work areas and a conference room. The floor plan layout, with a single row of bedrooms off of a hallway, was purposefully designed to provide a residential feel for those who call Taylor Brook House home. As such, two residential wings were needed to provide the required number of bedrooms and to prevent the institutional feel of bedrooms off either side of a hallway. The proposed building is set back 83' from the nearest property line and 241' from the Hotel Road. The building is set back 252' from Taylor Brook.

The project will also include a separate garage structure with storage areas. The garage is sized to accommodate a small bus and van used to transport residents to appointments or outings off-site. The driveway and garage have been designed to allow drive-in/drive-out movements with these vehicles. The driveway also provides a covered drop-off/pick-up area at the main entrance. The entrance canopy provides 12 feet of clearance from pavement grade to roof, tall enough to accommodate the van and small bus used by JFMH for resident transport. Other large service vehicles are intended to access the site in front of or on the side of the garage, keeping the canopy for resident use only. The intent is that a vehicle, such as a garbage truck or fuel truck, could drive through the parking area, pull in front of the garage and then back up and drive out through the parking area. Vehicle drive paths are shown in further detail in Section 12 of this application.

Site access from Hotel Road will be a single, two-way 25' wide private driveway. Sidewalks are provided from the parking lot to the main entrance and to the employee entrance near the garage. Walkways are also provided from the bedroom wings and the common porch to access the outdoor sitting area. These walkways are also connected to the driveway for use in case of an emergency. Parking is for a total of 19 vehicles, 2 spaces of which are handicap accessible.

The facility will operate 24 hours per day, seven days per week, 365 days per year. This is done in three shifts with the maximum number of seven employees on duty between 6:00 AM and 1:00 PM. The second shift, with 6 employees, begins at 1:00 PM and the third shift begins at 9:00 PM with only two employees on duty. A minimum of thirteen spaces are required to accommodate employees during first and second shift changes each day. With 19 spaces provided, there will be six spaces remaining for visitor parking.

With only 13 employees entering and exiting the site during the shift change at 1pm (equal to 13 one-way trips and the maximum number of per hour trips for this site), the project will not exceed the 100-vehicle peak hour trip generation that would require a Traffic Movement Permit from MDOT. Sight distances measured at the proposed site driveway are 650 feet looking northerly and 1,000 feet looking southerly. These measurements exceed the ordinance requirements for 350 feet at the posted speed limit of 35 mph. Therefore, the driveway location proposed has sufficient sight distance and will operate safely for the proposed use.

In the proposed condition, total non-revegetated, impervious area totals 49,658 square feet (1.13 acres) and total developed area totals 122,404 square feet (2.81 acres). Stormwater improvements include a roof dripline filter around the building, two grassed underdrain soil filter ponds and a bioretention filter (rain garden). Main-Land has prepared a stormwater quality analysis, erosion control narrative and have provided plans with details showing how these improvements meet the requirements of Local and State stormwater rules.

Public sewer and water utilities will be utilized by this development. The sewer service will leave the east side of the building and connect to the existing public sewer main, which runs across the property along Taylor Brook. Water service for domestic use and the building sprinkler system will be extended along the proposed driveway from the existing water main in Hotel Road. Power and communications will be extended from Hotel Road overhead to a new pole on the property and then underground along the proposed driveway to reach the building. New propane tanks and a generator are proposed to be installed on site as shown on the Site Plans.

The project will impact 3,282 square feet of wetland area. The project also impacts XXX square feet of Inland Wading Waterfowl Habitat, a Significant Wildlife Habitat (SWH) mapped by the Department of Inland Fisheries and Wildlife. Please note that wetlands within the SWH are considered a wetland of special significance (WOSS). The project was designed so that no WOSS were permanently impacted or altered. Applications to secure State and Federal permits for these impacts are being submitted to The Maine Department of Environmental Protection (MDEP) and U.S. Army Corps of Engineers (USACOE) concurrently with this Application.

As shown on the project Site Plans, 805 square feet of the proposed building, 1,182 square feet of driveway area, some minor grading and limited tree removal is proposed within the Resource Protection District. These activities are allowed with Planning Board review. Building location and finish floor elevation was optimized in order to minimize and avoid impacts to on site wetlands and the significant wildlife habitat. The drive access was sited to provide safe access to structures on site and to minimize impacts within the Resource Protection District. Tree removal is proposed to support these permittable site construction activities. Some selective cutting within an upland area of the Resource Protection District is also proposed in order to provide and improve bird and wildlife viewing from bedrooms and sitting areas.

Construction is expected to begin this May for occupancy by May 2024. Total project costs are not expected to exceed $5.1 million and a financial capacity letter is provided in Section 4 of this application. Please do not hesitate to call if you have any questions about the information provided or need additional information to complete your review of this project.

Sincerely,

Esther K. Bizier

Esther K. Bizier, P.E.
Senior Engineer & Director of Main-Land Falmouth Office

Section 3: Title, Right, or Interest

In the following section please find the following:

- Purchase and Sale Document between the Applicant and Owner
- Signed extension of Purchase & Sale until June 1, 2023
- Property Deed

PURCHASE AND SALE AGREEMENT - LAND ONLY

("days" means business days unless otherwise noted, see paragraph 20)

September 7, 2022
Offer Date

Sept 12 2022 Effective Date
Effective Date is defined in Paragraph 20 of this Agreement.

1. PARTIES: This Agreement is made between John F. Murphy Homes, Inc. ("Buyer") and Beth C. Bell, John D. Crafts ("Seller").

2. DESCRIPTION: Subject to the terms and conditions hereinafter set forth, Seller agrees to sell and Buyer agrees to buy [X] all [ ] part of (if "part of" see para. 22 for explanation) the property situated in municipality of Auburn, County of Androscoggin, State of Maine, located at Hotel Road and described in deed(s) recorded at said County's Registry of Deeds Book(s) 7114, Page(s) 278.

3. PURCHASE PRICE/EARNEST MONEY: For such Deed and conveyance Buyer agrees to pay the total purchase price of _____. Buyer [ ] has delivered; or [X] will deliver to the Agency within 3 days of the Effective Date, a deposit of earnest money in the amount _____. Buyer agrees that an additional deposit of earnest money in the amount of $n/a will be delivered n/a.
If Buyer fails to deliver the initial or additional deposit in compliance with the above terms Seller may terminate this Agreement. This right to terminate ends once Buyer has delivered said deposit (s). The remainder of the purchase price shall be paid by wire, certified, cashier's or trust account check upon delivery of the Deed.

This Purchase and Sale Agreement is subject to the following conditions:

4. ESCROW AGENT/ACCEPTANCE: Better Homes & Gardens Real Estate The Masiello Group ("Agency") shall hold said earnest money and act as escrow agent until closing; this offer shall be valid until September 9, 2022 (date) 12:00 [ ] AM [X] PM; and, in the event of non-acceptance, this earnest money shall be returned promptly to Buyer.

5. TITLE AND CLOSING: A deed, conveying good and merchantable title in accordance with the Standards of Title adopted by the Maine Bar Association shall be delivered to Buyer and this transaction shall be closed and Buyer shall pay the balance due and execute all necessary papers on March 1, 2023 (closing date) or before, if agreed in writing by both parties. If Seller is unable to convey in accordance with the provisions of this paragraph, then Seller shall have a reasonable time period, not to exceed 30 calendar days, from the time Seller is notified of the defect, unless otherwise agreed to in writing by both Buyer and Seller, to remedy the title. Seller hereby agrees to make a good-faith effort to cure any title defect during such period. If, at the later of the closing date set forth above or the expiration of such reasonable time period, Seller is unable to remedy the title, Buyer may close and accept the deed with the title defect or may terminate this Agreement in which case the parties shall be relieved of any further obligations hereunder and any earnest money shall be returned to the Buyer.

6. DEED: The property shall be conveyed by a Quit claim with covenant deed, and shall be free and clear of all encumbrances except covenants, conditions, easements and restrictions of record which do not materially and adversely affect the continued current use of the property.

7. POSSESSION: Possession of premises shall be given to Buyer immediately at closing unless otherwise agreed in writing.

8. RISK OF LOSS: Until the closing, the risk of loss or damage to said premises by fire or otherwise, is assumed by Seller. Buyer shall have the right to view the property within 24 hours prior to closing for the purpose of determining that the premises are in substantially the same condition as on the date of this Agreement.

9. PRORATIONS: The following items, where applicable, shall be prorated as of the date of closing: rent, association fees, (other) no other. Real estate taxes shall be prorated as of the date of closing (based on municipality's fiscal year). Seller is responsible for any unpaid taxes for prior years. If the amount of said taxes is not known at the time of closing, they shall be apportioned on the basis of the taxes assessed for the preceding year with a reapportionment as soon as the new tax rate and valuation can be ascertained, which latter provision shall survive closing. Buyer and Seller will each pay their transfer tax as required by State of Maine.

10. DUE DILIGENCE: Buyer is encouraged to seek information from professionals regarding any specific issue or concern. Neither Seller nor Licensee makes any warranties regarding the condition, permitted use or value of Sellers' real property. This Agreement is subject to the following contingencies, with results being satisfactory to Buyer:

CONTINGENCY	YES	NO	FULL RESOLUTION	OBTAINED BY	TO BE PAID FOR BY
1. SURVEY	☒	☐	within 75 days	buyer	buyer
Purpose:					
2. SOILS TEST	☐	☒	within ____ days		
Purpose:					
3. SEPTIC SYSTEM DESIGN	☐	☒	within ____ days		
Purpose:					
4. LOCAL PERMITS	☒	☐	within 120 days	buyer	buyer
Purpose:					
5. HAZARDOUS WASTE REPORTS	☐	☒	within ____ days		
Purpose:					
6. UTILITIES	☒	☐	within 75 days	buyer	buyer
Purpose:					
7. WATER	☐	☒	within ____ days		
Purpose:					
8. SUB-DIVISION APPROVAL	☐	☒	within ____ days		
Purpose:					
9. DEP/LUPC/ACOE APPROVALS	☐	☒	within ____ days		
Purpose:					
10. ZONING VARIANCE	☐	☒	within ____ days		
Purpose:					
11. HABITAT REVIEW/ WATERFOWL	☐	☒	within ____ days		
Purpose:					
12. REGISTERED FARMLAND	☐	☒	within ____ days		
Purpose:					
13. MDOT DRIVEWAY/ ENTRANCE PERMIT	☐	☒	within ____ days		
Purpose:					
14. DEED RESTRICTION	☐	☒	within ____ days		
Purpose:					
15. TAX STATUS*	☐	☒	within ____ days		
Purpose:					
16. BUILD PACKAGE	☐	☒	within ____ days		
Purpose:					
17. OTHER	☒	☐	within 75 days	buyer	buyer
Purpose: Phase I Environmental Study					

* If the land is enrolled in the Maine Tree Growth Tax program, Seller agrees to provide Buyer with the current Forest Management and Harvest Plan within ____ days. ☐ Yes ☒ No

Further specifications regarding any of the above: **Subject to a wetland study being completed within 75 business days and being paid for by the buyer.**

Unless otherwise specified above, all of the above will be obtained and paid for by Buyer. Seller agrees to cooperate with Buyer and shall give Buyer and Buyer's agents and consultants reasonable access to the property in order to undertake the above investigations. Buyer agrees to take reasonable steps to return the property to its pre-inspection condition. If the result of any investigation or other condition specified herein is unsatisfactory to Buyer in Buyer's sole discretion, Buyer will declare the Agreement null and void by notifying Seller in writing within the specified number of days, and any earnest money shall be returned to Buyer. If the result of any investigation or other condition specified herein is unsatisfactory to Buyer, and Buyer wishes to pursue remedies other than voiding the Agreement, Buyer must do so to full resolution within the time period set forth above; otherwise this contingency is waived. If Buyer does not notify Seller that an investigation is unsatisfactory within the time period set forth above, or if any investigation under this paragraph is not performed or completed during the period specified in this paragraph, this contingency and the right to conduct an investigation are waived by Buyer. In the absence of inspection(s) mentioned above, Buyer is relying completely upon Buyer's own opinion as to the condition of the property.

11. FINANCING: Buyer's obligation to close:

Not Subject to Financing

☐ is not subject to a financing contingency. Buyer has provided Seller with acceptable proof of the funds.

☒ is not subject to a financing contingency. Buyer shall provide proof of the funds acceptable to Seller within 5 days. If such proof is unacceptable to Seller, Seller may terminate this Agreement no later than 3 days from receipt. If proof of funds is not provided within such time period, Seller may terminate this Agreement which right shall end once such proof is received, however Seller retains the agreed upon time period to terminate if such proof is unacceptable. If Seller terminates in either case, the earnest money shall be returned to Buyer.

☒ Buyer's ability to purchase ☐ is ☒ is not subject to the sale of another property. See addendum ☐ Yes ☒ No.

Subject to Financing

☐ Buyer's obligation to close is subject to financing as follows:

a. Buyer's obligation to close is subject to Buyer obtaining a n/a loan of n/a % of the purchase price, at an interest rate not to exceed n/a % and amortized over a period of n/a years. Buyer is under a good faith obligation to seek and obtain financing on these terms. If such financing is not available to Buyer as of the closing date, Buyer is not obligated to close and may terminate this Agreement in which case the earnest money shall be returned to Buyer.

b. Buyer to provide Seller with letter from lender showing that Buyer has made application for loan specified in (a) and, subject to verification of information, is qualified for the loan requested within n/a days from the Effective Date of the Agreement. If Buyer fails to provide Seller with such letter within said time period, Seller may terminate this Agreement and the earnest money shall be returned to Buyer. This right to terminate ends once Buyer's letter is received.

c. Buyer hereby authorizes, instructs and directs its lender to communicate the status of the Buyer's loan application to Seller, Seller's licensee and Buyer's licensee.

d. After (b) is met, if the lender notifies Buyer that it is unable or unwilling to provide said financing, Buyer is obligated to provide Seller with written documentation of the loan denial within two days of receipt. After notifying Seller, Buyer shall have n/a days to provide Seller with a letter from another lender showing that Buyer has made application for loan specified in (a) and, subject to verification of information, is qualified for the loan requested. If Buyer fails to provide Seller with such letter within said time period, Seller may terminate this Agreement and the earnest money shall be returned to Buyer. This right to terminate ends once Buyer's letter is received.

e. Buyer agrees to pay no more than n/a points. Seller agrees to pay up to $n/a toward Buyer's actual pre-paids, points and/or closing costs, but no more than allowable by Buyer's lender.

f. Buyer's ability to obtain financing ☐ is ☒ is not subject to the sale of another property. See addendum ☐ Yes ☒ No.

g. Buyer may choose to pay cash instead of obtaining financing. If so, Buyer shall notify Seller in writing including providing proof of funds and the Agreement shall no longer be subject to financing, and Seller's right to terminate pursuant to the provisions of this paragraph shall be void and Seller's obligations pursuant to 11e shall remain in full force and effect.

12. BROKERAGE DISCLOSURE: Buyer and Seller acknowledge they have been advised of the following relationships:

Beth Bell (007867) of Keller Williams Realty (1898)
Licensee / MLS ID / Agency / MLS ID

is a ☒ Seller Agent ☐ Buyer Agent ☐ Disc Dual Agent ☐ Transaction Broker

Jane Cyr / Evan Cyr (000202) of Better Homes & Gardens Real Estate The Modello Group (1066)
Licensee / MLS ID / Agency / MLS ID

is a ☐ Seller Agent ☒ Buyer Agent ☐ Disc Dual Agent ☐ Transaction Broker

If this transaction involves Disclosed Dual Agency, the Buyer and Seller acknowledge the limited fiduciary duties of the agents and hereby consent to this arrangement. In addition, the Buyer and Seller acknowledge prior receipt and signing of a Disclosed Dual Agency Consent Agreement.

13. PROPERTY DISCLOSURE FORM: Buyer acknowledges receipt of Property Disclosure Form.

14. DEFAULT/RETURN OF EARNEST MONEY: Buyer's failure to fulfill any of Buyer's obligations hereunder shall constitute a default and Seller may employ all legal and equitable remedies, including without limitation, termination of this Agreement and forfeiture by Buyer of the earnest money. Seller's failure to fulfill any of Seller's obligations hereunder shall constitute a default and Buyer may employ all legal and equitable remedies, including without limitation, termination of this Agreement and return to Buyer of the earnest money. Agency acting as escrow agent has the option to require written releases from both parties prior to disbursing the earnest money to either Buyer or Seller. In the event that the Agency is made a party to any lawsuit by virtue of acting as escrow agent, Agency shall be entitled to recover reasonable attorney's fees and costs which shall be assessed as court costs in favor of the prevailing party.

15. MEDIATION: Earnest money or other disputes within the jurisdictional limit of small claims court will be handled in that forum. All other disputes or claims arising out of or relating to this Agreement or the property addressed in this Agreement (other than requests for injunctive relief) shall be submitted to mediation in accordance with generally accepted mediation practices. Buyer and Seller are bound to mediate in good faith and to each pay half of the mediation fees. If a party fails to submit a dispute or claim to mediation prior to initiating litigation (other than requests for injunctive relief), then that party will be liable for the other party's legal fees in any subsequent litigation regarding that same matter in which the party who failed to first submit the dispute or claim to mediation loses in that subsequent litigation. This clause shall survive the closing of the transaction.

16. PRIOR STATEMENTS: Any representations, statements and agreements are not valid unless contained herein. This Agreement completely expresses the obligations of the parties and may only be amended in writing, signed by both parties.

17. HEIRS/ASSIGNS: This Agreement shall extend to and be obligatory upon heirs, personal representatives, successors, and assigns of the Seller and the assigns of the Buyer.

18. COUNTERPARTS: This Agreement may be signed on any number of identical counterparts, such as a faxed copy, with the same binding effect as if the signatures were on one instrument. Original, faxed or other electronically transmitted signatures are binding.

19. NOTICE: Any notice, communication or document delivery requirements hereunder may be satisfied by providing the required notice, communication or documentation to or from the parties or their Licensees. Only withdrawals of offers and withdrawals of counteroffers will be effective upon communication, verbally or in writing.

20. EFFECTIVE DATE/BUSINESS DAYS: This Agreement is a binding contract when the last party signing has caused a paper or electronic copy of the fully executed agreement to be delivered to the other party which shall be the Effective Date. Licensee is authorized to fill in the Effective Date on Page 1 hereof. Except as expressly set forth to the contrary, the use of the term "days" in this Agreement, including all addenda made a part hereof, shall mean business days defined as excluding Saturdays, Sundays and any observed Maine State/Federal holidays. Deadlines in this Agreement, including all addenda, expressed as "within x days" shall be counted from the Effective Date, unless another starting date is expressly set forth, beginning with the first day after the Effective Date, or such other established starting date, and ending at 5:00 p.m. Eastern Time on the last day counted. Unless expressly stated to the contrary, deadlines in this Agreement, including all addenda, expressed as a specific date shall end at 5:00 p.m. Eastern Time on such date.

21. CONFIDENTIALITY: Buyer and Seller authorize the disclosure of the information herein to the real estate licensees, attorneys, lenders, appraisers, inspectors, investigators and others involved in the transaction necessary for the purpose of closing this transaction. Buyer and Seller authorize the lender and/or closing agent preparing the entire closing disclosure and/or settlement statement to release a copy of the closing disclosure and/or settlement statement to the parties and their licensees prior to, at and after the closing.

22. OTHER CONDITIONS: **Subject to John F. Murphy Homes, Inc. Board approval once all contingencies/studies are completed and reviewed.**

Should buyer elect not to purchase the property during pursuit of their due diligence, buyer agrees to provide at no charge to the seller a completed copy of one or more of the following as applicable: Survey, Wetlands Study and Phase I Environmental Study.

23. GENERAL PROVISIONS:
   a. A copy of this Agreement is to be received by all parties and, by signature, receipt of a copy is hereby acknowledged. If not fully understood, contact an attorney. This is a Maine contract and shall be construed according to the laws of Maine.
   b. Seller acknowledges that State of Maine law requires buyers of property owned by non-resident sellers to withhold a prepayment of capital gains tax unless a waiver has been obtained by Seller from the State of Maine Revenue Services.
   c. Buyer and Seller acknowledge that under Maine law payment of property taxes is the legal responsibility of the person who owns the property on April 1, even if the property is sold before payment is due. If any part of the taxes is not paid when due, the lien will be filed in the name of the owner as of April 1 which could have a negative impact on their credit rating. Buyer and Seller shall agree at closing on their respective obligations regarding actual payment of taxes after closing. Buyer and Seller should make sure they understand their obligations agreed to at closing and what may happen if taxes are not paid as agreed.
   d. Buyer acknowledges that Maine law requires continuing interest in the property and any back up offers to be communicated by the listing agent to the Seller.
   e. Whenever this Agreement provides for earnest money to be returned or released, agency acting as escrow agent must comply with Maine Real Estate Commission rules which may require written notices or obtaining written releases from both parties.

24. ADDENDA: ☐ Yes ☒ No Explain: _____

25. ELECTRONIC SIGNATURES: Pursuant to the Maine Uniform Electronic Transactions Act and Digital Signature Act, the parties authorize and agree to the use of electronic signatures as a method of signing/initialing this Agreement, including all addenda. The parties hereby agree that either party may sign electronically by utilizing an electronic signature service.

Buyer's Mailing address is 860 Center Street, Auburn, ME 04240

Todd Goodwin 09-07-2022
BUYER John F. Murphy Homes, Inc. DATE

BUYER DATE

BUYER DATE

BUYER DATE

Seller accepts the offer and agrees to deliver the above-described property at the price and upon the terms and conditions set forth and agrees to pay agency a commission for services as specified in the listing agreement.

Seller's Mailing address is 86 Nottingham Rd Auburn / 2 Passing Ln Lisbon Falls

SELLER Beth C. Bell DATE

SELLER DATE

SELLER John D. Crafts DATE

SELLER DATE

COUNTER-OFFER

Seller agrees to sell on the terms and conditions as detailed herein with the following changes and/or conditions:

The parties acknowledge that until signed by Buyer, Seller's signature constitutes only an offer to sell on the above terms and the offer will expire unless accepted by Buyer's signature with communication of such signature to Seller by (date) 9/13/2022 (time) 4 ☐ AM ☒ PM.

Beth C. Bell 9-9-22
SELLER DATE

John D Crafts 9/9/22
SELLER DATE

SELLER DATE

SELLER DATE

The Buyer hereby accepts the counter offer set forth above.

BUYER DATE

BUYER DATE

BUYER DATE

BUYER DATE

EXTENSION

The closing date of this Agreement is extended until _____ DATE

SELLER DATE

SELLER DATE

SELLER DATE

SELLER DATE

BUYER DATE

BUYER DATE

BUYER DATE

BUYER DATE

Bk 7114 Pg278 #7917
04-19-2007 @ 10:40a

DEED OF SALE BY PERSONAL REPRESENTATIVE (Testate)

KNOW ALL MEN BY THESE PRESENTS, That I, **LAURIER T. RAYMOND, JR.** of **Lewiston,** County of **Androscoggin,** State of **Maine,** duly appointed and acting Personal Representative of the Estate of Madeline C. Whitman, deceased, whose will was duly admitted to probate in the Probate Court for the County of Androscoggin, Maine, and having given notice to each person succeeding to an interest in the real property described below at least ten (10) days prior to the sale, by the power conferred by the Probate Code, and every other power, grant to **BETH C. BELL** of **Auburn** and **JOHN D. CRAFTS** of **Lisbon Falls,** both in the County of **Androscoggin,** State of **Maine,** ***as joint tenants with rights of survivorship,*** the land thereon situated in **AUBURN,** County of **ANDROSCOGGIN,** State of **MAINE,** bounded and described as follows, to wit:

MAINE REAL ESTATE TRANSFER TAX PAID

A CERTAIN LOT OR PARCEL OF LAND situated in said ***Auburn,*** on the Easterly side of the Hotel Road, so-called, as more particularly described in **Exhibit A** attached hereto and made a part hereof.

BEING A PART OF THE PREMISES conveyed to Madeline C. Whitman by Deed of Albert D. Crockett dated June 21, 1976, and recorded in Book 1212, Page 335, Androscoggin County Registry of Deeds.

Madeline C. Whitman died on July 14, 2004. See Androscoggin County Probate Court, Docket No. 2004-378.

WITNESS my hand and seal in said capacity this 9th day of April, 2007.

Laurier T. Raymond, Jr.
Personal Representative of the
Estate of Madeline C. Whitman

STATE OF MAINE
ANDROSCOGGIN, SS. **APRIL 9, 2007**

Then personally appeared ***Laurier T. Raymond, Jr.***, in his capacity as Personal Representative of the Estate of Madeline C. Whitman and acknowledged the foregoing instrument to be his voluntary act and deed.

Before me,

Notary Public
Print Name: ELEANOR B. DOUGLAS
NOTARY PUBLIC, MAINE
Commission Expires: MY COMMISS.ON EXPIRES SEPTEMBER [illegible] 2012

SEAL

Title not Examined; Description not verified

Clients/Whitman/Deed of Sale-land.doc

Exhibit A

Land Only

A certain lot or parcel of land with the buildings thereon, situated in said Auburn, on the easterly side of the Hotel Road, so-called, bounded and described as follows, to wit:

On the North and East by Taylor Brook there situated; on the south by land now or formerly of the H.L. Haskell Estate; and on the west by the Hotel Road aforesaid.

Being all the same premises, and subject to the same exceptions and reservations as contained in deed of Madeline C. Whitman et als to Alice M. Crockett dated March 26, 1958, recorded in the Androscoggin County Registry of Deeds in Book 778, Page 216.

There is excepted from the above described premises a certain lot or parcel of land with any improvements thereon, it being further bounded and described as follows:

Beginning on the northeasterly sideline of Hotel Road at the northwesterly corner of land now or formerly of Michael and Jacqueline Pettengill evidenced by deed recorded in the Androscoggin County Registry of Deeds in Book 1212, Page 335;

Thence North twenty-two degrees thirteen minutes forty-seven seconds West (N 22° 13' 47" W), along said sideline of Hotel Road, five hundred seventy-one and eleven hundredths (571.11) feet to an iron rod set;

Thence North sixty-six degrees thirty-four minutes seven seconds East (N 66° 34' 07" E), passing through land of this grantor, two hundred fifty and zero hundredths (250.00) feet to an iron rod set;

Thence South fifty degrees twenty-three minutes nine seconds East (S 50° 23' 09" E), continuing through land of this grantor, three hundred twenty nine and forty hundredths (329.40) feet to an iron rod set along the northwesterly line of land now or formerly of Kurvin, LLC evidenced by deed recorded in said Registry in Book 4337, Page 35;

Thence South thirty-two degrees thirty-four minutes twenty-five seconds West (S 32° 34' 25" W), along the northwesterly lines of land of said Kurvin, LLC and said Pettengill, four hundred ninety-six and eight hundredths (496.08) feet to the point of beginning.

The above described parcel is subject to a 100' wide Central Maine Power easement evidenced by deed recorded in said Registry in Book 907, Page 75.

All bearings refer to magnetic north as shown on a plan entitled "Master Plan – Granite Mill Estates", dated April 6, 2002, recorded at said Registry in Plan Book 42, Page 146.

Said excepted parcel contains 3.5 acres, and the above description derives from a deed sketch prepared by Sebago Technics dated April, 2007 under Project No. 07197.

The premises hereby conveyed being a portion of the premises conveyed to Madeline C. Whitman by deed of Albert D. Crockett dated June 21, 1976 and recorded in said Registry in Book 1212, Page 335. Reference should be made to the probate estate of Madeline C. Whitman on file with the Androscoggin County Registry of Probate under Docket No. 2004-378, and recorded Abstract thereof recorded in said Registry in Book 6100, Page 62. Albert D. Crockett predeceased Madeline C. Whitman, thereby terminating the former's reserved Right of First Refusal set forth in the aforesaid deed recorded in said Registry in Book 1212, Page 335.

ANDROSCOGGIN COUNTY
Tina M. Chaunard
REGISTER OF DEEDS

KNOW ALL MEN BY THESE PRESENTS That (I) ~~(We)~~ Alice M. Crockett of Auburn in the County of Androscoggin and State of Maine, in consideration of one dollar and other valuable consideration paid by the Auburn Sewerage District, a quasi-municipal corporation, duly chartered under the laws of the State of Maine, and located at said Auburn, the receipt whereof is hereby acknowledged do hereby grant and convey to the Auburn Sewerage District, its successors and assigns to have and to hold forever the perpetual right and easement to enter upon, construct, repair, replace and maintain a sewer pipe or drain with necessary appurtenances across (my) ~~(our)~~ land located in said Auburn and described as follows:

Land as described in a deed and recorded in the Androscoggin County Registry of Deeds, Book 778 Page 216.

as further delineated on the City of Auburn Tax Map 83-1-3.

(I) (We) covenant and agree for ourselves, our heirs and assigns that we will not erect any permanent structure, tree or shrub above the location of the pipes of the grantee.

The Auburn Sewerage District covenants and agrees with the grantor(s) ~~(his)~~ (her) ~~(their)~~ heirs and assigns that it will cause no unnecessary damage in connection with its use of the land above described and that upon each entry it will restore the surface of the land to its original condition so far as possible and will not otherwise interfere with the grantors use of said land.

________ ~~(wife) (husband) of said grantor joins as grantor and releases all rights by descent and other rights.~~

WITNESS (my) ~~(our)~~ hand(s) this 6 day of June 1972.

________ Alice M Crockett

THE STATE OF MAINE

ANDROSCOGGIN, SS: June 6, 1972.

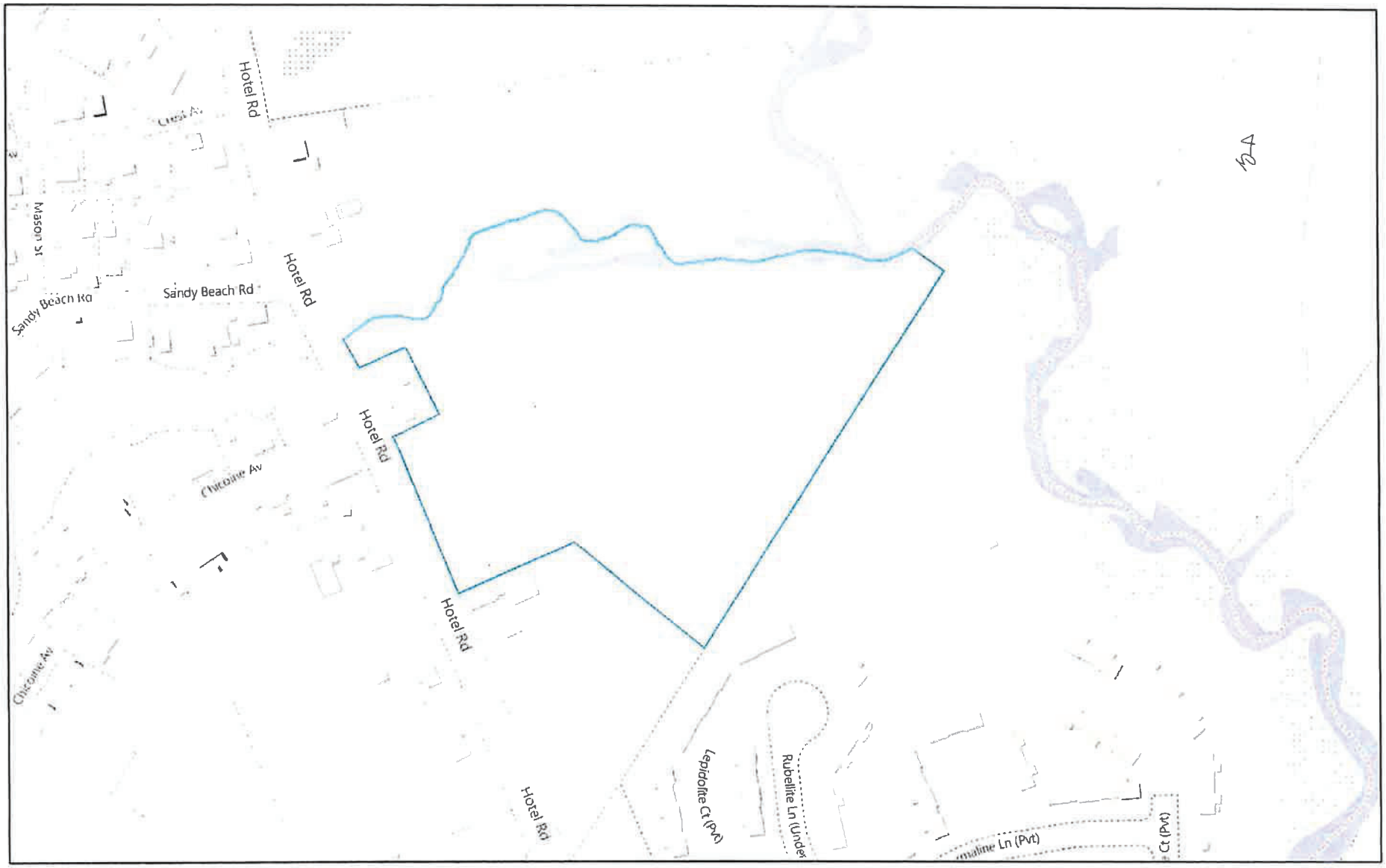
Then personally appeared the above named Alice M. Crockett and acknowledged the foregoing instrument to be her free act and deed,

Before me,

[signature]
~~Justice of the Peace~~
Notary Public
My Commission expires May 3, 1979

ANDROSCOGGIN, SS.
RECEIVED FEB 27 1975 H. M. P M.
and recorded from the original

ArcGIS Web Map



4/7/2021, 6:46:01 AM

Parcels _ 2019

1:4,514

0 0.03 0.06 0.11 mi

0 0.04 0.09 0.17 km

Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS,

Web AppBuilder for ArcGIS

Esri Community Maps Contributors, BuildingFootprintUSA, Esri Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA | Maine GeoLibrary |

25. **ELECTRONIC SIGNATURES:** Pursuant to the Maine Uniform Electronic Transactions Act and Digital Signature Act, the parties authorize and agree to the use of electronic signatures as a method of signing/initialing this Agreement, including all addenda. The parties hereby agree that either party may sign electronically by utilizing an electronic signature service.

Buyer's Mailing address is 800 Center Street, Auburn, ME 04240

Todd Goodwin 09/07/2022			
BUYER John F. Murphy Homes, Inc.	DATE	BUYER	DATE
BUYER	DATE	BUYER	DATE

Seller accepts the offer and agrees to deliver the above-described property at the price and upon the terms and conditions set forth and agrees to pay agency a commission for services as specified in the listing agreement.

Seller's Mailing address is 82 Nottingham Rd Auburn / 2 Passing Ln Lisbon Falls

SELLER Beth C. Bell	DATE	SELLER John D. Crafts	DATE
SELLER	DATE	SELLER	DATE

COUNTER-OFFER

Seller agrees to sell on the terms and conditions as detailed herein with the following changes and/or conditions:
Purchase price to be $255,000 ECO 1.0. All other terms remain the same.

The parties acknowledge that until signed by Buyer, Seller's signature constitutes only an offer to sell on the above terms and the offer will expire unless accepted by Buyer's signature with communication of such signature to Seller by (date) 9/13/2022
(time) 4 ☐ AM ☒ PM.

Beth C Bell 9-9-22		John D Crafts 9/9/22	
SELLER	DATE	SELLER	DATE
SELLER	DATE	SELLER	DATE

The Buyer hereby accepts the counter offer set forth above.

Andrew Cowan			
BUYER	DATE	BUYER	DATE
BUYER	DATE	BUYER	DATE

EXTENSION

The closing date of this Agreement is extended until June 1, 2023
DATE

Beth C Bell 2-1-2023			
SELLER	DATE	SELLER	DATE
John D Crafts 2-1-2023			
SELLER	DATE	SELLER	DATE
Andrew Cowan 01-31-2023			
BUYER	DATE	BUYER	DATE
BUYER	DATE	BUYER	DATE

Bk 7114 Pg278 #7917
04-19-2007 @ 10:40a

DEED OF SALE BY PERSONAL REPRESENTATIVE (Testate)

KNOW ALL MEN BY THESE PRESENTS, That I, LAURIER T. RAYMOND, JR. of **Lewiston,** County of **Androscoggin,** State of **Maine,** duly appointed and acting Personal Representative of the Estate of Madeline C. Whitman, deceased, whose will was duly admitted to probate in the Probate Court for the County of Androscoggin, Maine, and having given notice to each person succeeding to an interest in the real property described below at least ten (10) days prior to the sale, by the power conferred by the Probate Code, and every other power, grant to **BETH C. BELL** of **Auburn** and **JOHN D. CRAFTS** of **Lisbon Falls,** both in the County of **Androscoggin,** State of **Maine,** ***as joint tenants with rights of survivorship,*** the land thereon situated in **AUBURN,** County of **ANDROSCOGGIN,** State of **MAINE,** bounded and described as follows, to wit:

MAINE REAL ESTATE TRANSFER TAX PAID

A CERTAIN LOT OR PARCEL OF LAND situated in said ***Auburn,*** on the Easterly side of the Hotel Road, so-called, as more particularly described in **Exhibit A** attached hereto and made a part hereof.

BEING A PART OF THE PREMISES conveyed to Madeline C. Whitman by Deed of Albert D. Crockett dated June 21, 1976, and recorded in Book 1212, Page 335, Androscoggin County Registry of Deeds.

Madeline C. Whitman died on July 14, 2004. See Androscoggin County Probate Court, Docket No. 2004-378.

WITNESS my hand and seal in said capacity this 9th day of April, 2007.

Laurier T. Raymond, Jr.
Personal Representative of the
Estate of Madeline C. Whitman

STATE OF MAINE
ANDROSCOGGIN, SS. **APRIL 9, 2007**

Then personally appeared ***Laurier T. Raymond, Jr.***, in his capacity as Personal Representative of the Estate of Madeline C. Whitman and acknowledged the foregoing instrument to be his voluntary act and deed.

Before me,

Notary Public
Print Name: ELEANOR B. DOUGLAS NOTARY PUBLIC, MAINE
Commission Expires: MY COMMISSION EXPIRES SEPTEMBER [illegible] 2012

SEAL

Title not Examined; Description not verified

Clients/Whitman/Deed of Sale-land.doc

Exhibit A

Land Only

NOT AN OFFICIAL COPY

A certain lot or parcel of land with the buildings thereon, situated in said Auburn, on the easterly side of the Hotel Road, so-called, bounded and described as follows, to wit:

NOT AN OFFICIAL COPY

On the North and East by Taylor Brook there situated; on the south by land now or formerly of the H.L. Haskell Estate; and on the west by the Hotel Road aforesaid.

NOT AN OFFICIAL COPY

Being all the same premises, and subject to the same exceptions and reservations as contained in deed of Madeline C. Whitman et als to Alice M. Crockett dated March 26, 1958, recorded in the Androscoggin County Registry of Deeds in Book 778, Page 216.

There is excepted from the above described premises a certain lot or parcel of land with any improvements thereon, it being further bounded and described as follows:

Beginning on the northeasterly sideline of Hotel Road at the northwesterly corner of land now or formerly of Michael and Jacqueline Pettengill evidenced by deed recorded in the Androscoggin County Registry of Deeds in Book 1212, Page 335;

Thence North twenty-two degrees thirteen minutes forty-seven seconds West (N 22° 13' 47" W), along said sideline of Hotel Road, five hundred seventy-one and eleven hundredths (571.11) feet to an iron rod set;

Thence North sixty-six degrees thirty-four minutes seven seconds East (N 66° 34' 07" E), passing through land of this grantor, two hundred fifty and zero hundredths (250.00) feet to an iron rod set;

Thence South fifty degrees twenty-three minutes nine seconds East (S 50° 23' 09" E), continuing through land of this grantor, three hundred twenty nine and forty hundredths (329.40) feet to an iron rod set along the northwesterly line of land now or formerly of Kurvin, LLC evidenced by deed recorded in said Registry in Book 4337, Page 35;

Thence South thirty-two degrees thirty-four minutes twenty-five seconds West (S 32° 34' 25" W), along the northwesterly lines of land of said Kurvin, LLC and said Pettengill, four hundred ninety-six and eight hundredths (496.08) feet to the point of beginning.

The above described parcel is subject to a 100' wide Central Maine Power easement evidenced by deed recorded in said Registry in Book 907, Page 75.

All bearings refer to magnetic north as shown on a plan entitled "Master Plan – Granite Mill Estates", dated April 6, 2002, recorded at said Registry in Plan Book 42, Page 146.

Said excepted parcel contains 3.5 acres, and the above description derives from a deed sketch prepared by Sebago Technics dated April, 2007 under Project No. 07197.

The premises herein conveyed being a portion of the premises conveyed to Madeline C. Whitman by deed of Albert D. Crockett dated June 21, 1976 and recorded in said Registry in Book 1212, Page 335. Reference should be made to the probate estate of Madeline C. Whitman on file with the Androscoggin County Registry of Probate under Docket No. 2004-378, and recorded Abstract thereof recorded in said Registry in Book 6100, Page 62. Albert D. Crockett predeceased Madeline C. Whitman, thereby terminating the former's reserved Right of First Refusal set forth in the aforesaid deed recorded in said Registry in Book 1212, Page 335.

ANDROSCOGGIN COUNTY
Tina M. Chaunard
REGISTER OF DEEDS

John F. Murphy Homes, Inc.

January 26, 2023

John Blais
Deputy Director of Planning, Permitting and Code
City of Auburn, Maine
60 Court St. Auburn, Maine 04210

RE: John F. Murphy Homes, Inc. – Financing for Proposed Taylor Brook House

Dear Mr. Blais:

John F. Murphy Homes, Inc. ("JFM") intents to construct a new 8 bed Intermediate Care Facility ("ICF") to replace our existing ICF facility currently located at 2 Teakwood Knoll in Lewiston, ME. We plan to build this new facility on land located between 952 & 988 Hotel Rd. in Auburn, Maine. This facility serves individuals with Intellectual Disabilities or Autistic Spectrum Disorder and operates under Section 50 of the MaineCare Benefits Manual. The residents at 2 Teakwood Knoll would relocate to this new facility upon completion.

We expect the construction costs to be between $4.9M - $5.1M. In November 2022 we closed on financing from Maine Health & Higher Education Financing Authority. The amount borrowed exceeds the expected construction costs. However, in the event that cost exceed our financing, JFM maintains an average daily cash balance with Maine Community Bank (aka - Mechanics Savings Bank) in excess of 25% of the estimated construction costs. Cash reserves will be used for any overages.

Please do not hesitate to contact me should you have any questions.

Sincerely,

Andrew Cowan, CPA
Chief Financial Officer
John F. Murphy Homes, Inc.
800 Center St. Auburn, ME
207-440-6213

A Division of Maine Community Bank
MECHANICS SAVINGS

January 26, 2023

John Blais
Deputy Director of Planning, Permitting and Code Department
City of Auburn
60 Court St.
Auburn, Maine 04210

Re: John F. Murphy Homes, Inc.
Proposed Taylor Brook House

Dear John:

We understand John F. Murphy Homes is working on an application to construct a new 8 bed Intermediate Care Facility ("ICF") to replace their existing ICF facility currently located at 2 Teakwood Knoll in Lewiston, ME. They plan to build this new facility on land located between 952 & 988 Hotel Rd. in Auburn, Maine. The budgeted construction costs are between $4.9M - $5.1M.

Funding for the project has been provided by Maine Health & Higher Education Financing Authority. In the event that costs exceed the financing available, John F. Murphy Homes, Inc. maintains cash balance with Mechanics Savings, a division of Maine Community Bank in excess of 25% of the estimated construction costs. These cash reserves will be used for any cost overages.

If you have questions, or need further information, I can be reached at 207-333-4551.

Very truly yours,

MECHANICS SAVINGS

JoAnne P. Campbell

JoAnne P. Campbell
Senior Vice President
Commercial Lending

MAIN-LAND DEVELOPMENT CONSULTANTS, INC.
ENGINEERS, SURVEYORS,
P.O. BOX Q LIVERMORE FALLS, ME 04254
367 US ROUTE 1, S. BUILDING, FALMOUTH, ME 04105
TEL: (207) 897-6752/FAX: (207) 897-5404
WWW.MAIN-LANDDCI.COM

Wetland, Streams, and Cursory Vernal Pool Delineation Report
Stoneybrook Land Use, Inc.
Hotel Road, Auburn, Maine

2/23/2023

INTRODUCTION

A site visit was made by Main-Land Development Consultants (Main-Land) to map potential natural resource features on the project site. The project site consists of one parcel located between Hotel Road and Taylor Brook in Auburn. The approximately 13-acre parcel is shown as Lot 1 on Tax Map 70. Wetland delineation, stream identification, and a cursory vernal pool screening were included in this mapping process.

The purpose of this report is to document identified wetlands and water resources that fall under the federal jurisdiction of the U.S. Army Corps of Engineers (USACE) and the Clean Water Act (CWA), in addition to the state jurisdiction of the Maine Department of Environmental Protection (Maine DEP) and the Natural Resources Protection Act (NRPA).

METHODOLGY

Preliminary Data

Prior to performing the field delineation, steps were taken to gather and evaluate preliminary data on the project site. Data made available by the Maine Office of GIS was reviewed, as well as from sources such as the National Wetlands Inventory (NWI) wetlands, USDA Natural Resource Conservation Soil Survey Maps, and digital aerial photography.

Wetland and Stream Delineation

On November 10th, 2022, a wetland and stream delineation was performed within the project site. Wetlands were identified and delineated in accordance with the ***1987 Federal Manual for Identifying and Delineating Jurisdictional Wetlands*** and the ***2012 Regional Supplement to The Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region.*** Eric Whitney, L.S.E, S.S., flagged the perimeter of wetland boundaries at an average interval of 30 feet per flag. Locations of the set flags were recorded with the use of a Trimble Geo 7x Handheld GPS unit. Hydric soils, hydrophytic vegetation, and hydrology indicators are three requirements that must all be present during the natural resources survey for the determination of wetland classification.

The stream delineation methodology follows the guidance provided by the Maine DEP Natural Resource Protection Act (NRPA) "*Identification Guide for Rivers, Streams, and Brooks*", and the definition of a stream in Maine State Statute, as follows:

River, stream or brook. "River, stream or brook" means a channel between defined banks. A channel is created by the action of surface water and has 2 or more of the following characteristics.

A. It is depicted as a solid or broken blue line on the most recent edition of the U.S. Geological Survey 7.5-minute series topographic map or, if that is not available, a 15-minute series topographic map.

B. It contains or is known to contain flowing water continuously for a period of at least 6 months of the year in most years.

C. The channel bed is primarily composed of mineral material such as sand and gravel, parent material or bedrock that has been deposited or scoured by water.

D. The channel contains aquatic animals such as fish, aquatic insects or mollusks in the water or, if no surface water is present, within the stream bed.

E. The channel contains aquatic vegetation and is essentially devoid of upland vegetation.

"River, stream or brook" does not correlate to a ditch or other drainage way constructed, or constructed and maintained, solely for the purpose of draining stormwater or a grassy swale.

Wetland and Stream features are classified using the *Classification of Wetlands and Deepwater Habitats of the United States, Cowardin et al. 1979.*

Cursory Vernal Pool Survey

A cursory vernal pool survey was completed using guides and standards established by the DEP and Army Corps of Engineers (ACOE). Significant Vernal Pools are defined by the NRPA as "*naturally occurring, temporary or semi-permanent pools that provide habitat for a specific abundance of vernal pool amphibian species*". If any potential vernal pools were identified during this review, then a full survey (amphibian breeding area survey) during the Spring must be completed to verify.

Wetlands of Special Significance (WOSS)

Wetlands were evaluated under criteria of Wetlands of Special Significance (WOSS). Wetlands of Special Significance are defined in NRPA Chapter 310: Wetlands and Waterbodies Protection Section 4. According to Chapter 310, WOSS include all coastal wetlands and great ponds, and freshwater wetlands that exhibit one or more of the following characteristics:

1. Critically imperiled or imperiled community. The freshwater wetland contains a natural community that is critically imperiled (S1) or imperiled (S2) as defined by the Natural Areas Program.

2. Significant wildlife habitat. The freshwater wetland contains significant wildlife habitat as defined by 38 M.R.S.A. § 480-B (10).

3. Location near coastal wetland. The freshwater wetland area is located within 250 feet of a coastal wetland.

4. Location near GPA great pond. The freshwater wetland area is located within 250 feet of the normal

high water line, and within the same watershed, of any lake or pond classified as GPA under 38 M.R.S.A. § 465-A.

5. Aquatic vegetation, emergent marsh vegetation or open water. The freshwater wetland contains under normal circumstances at least 20,000 square feet of aquatic vegetation, emergent marsh vegetation or open water, unless the 20,000 or more square foot area is the result of an artificial ponds or impoundment.

6. Wetlands subject to flooding. The freshwater wetland area is inundated with floodwater during a 100-year flood event based on flood insurance maps produced by the Federal Emergency Management Agency or other site-specific information.

7. Peatlands. The freshwater wetland is or contains peatlands, except that the department may determine that a previously mined peatland, or portion thereof, is not a wetland of special significance.

8. River, stream or brook. The freshwater wetland area is located within 25 feet of a river, stream or brook.

RESULTS

Project Area Overview

The objective of this delineation is to determine the feasibility of development on the project site. The project site is accessed by and is east of Hotel Road. Taylor Brook abuts the property to the north. Around half of the property remains forested as of November 10th, 2022, with the rest having been previously cleared and maintained as a field area. The surrounding properties are generally developed as residential homes.

Wetlands

Two freshwater wetland complexes were identified within the project area during the natural resource survey. One of the wetland complexes, 43,111 SF in area, exists adjacent to Taylor Brook and is classified as a broad-leaved deciduous, seasonally flooded/saturated Palustrine Emergent (PEM1E) wetland. PEM wetlands are characterized by erect, herbaceous hydrophytes, excluding mosses and lichens. The second wetland complex identified is 288,571 SF in size and is classified as deciduous Palustrine Forested (PFO7). PFO wetlands are characterized by woody vegetation that is at least 20 feet tall.

The PEM wetland area located by the road is classified as such due to the presence of herbaceous vegetation. This area has been maintained as a cleared area. If allowed to regrow, the area would become forested or scrub-shrub.

Streams

Taylor Brook is located within the project site. The stream is classified as a perennial stream with a silt bottom. Emergent and scrub-shrub wetlands are associated with this stream.

Vernal Pools

At the time of the cursory vernal pool survey there were no potential vernal pools identified.

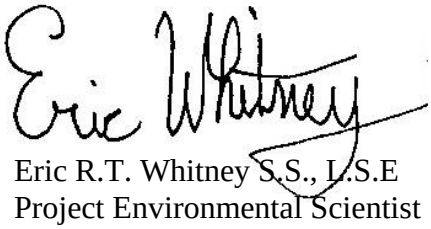
Wetlands of Special Significance (WOSS)

After reviewing data provided by the State of Maine Inland Fisheries and Wildlife (IF&W), it was noted that Inland Waterfowl and Wading Bird Habitat was mapped within the subject property. Wetlands within this significant habitat meet the WOSS classification. The Inland Waterfowl and Wading Bird Habitat boundary

is also delineated as the Resource Protection Zone on the Existing Condition Site Plan.

SUMMARY

A wetland, stream, and cursory vernal pool delineation was completed for the project site. The delineation was completed on November 10th, 2022. Within the project site **NRPA wetlands, a stream, and WOSS wetland characteristics were identified during the wetland delineation**. The wetland complexes are classified as palustrine forested and palustrine emergent. Please see the associated site plan for locations of natural resource features.



Eric R.T. Whitney S.S., L.S.E
Project Environmental Scientist

Site Photos

Photo 1. Wetland area from parking.

Photo 2. General area of proposed development.

Photo 3. Wetland boundary with road on right.

Photo 4. PEM wetland complex around Taylor Brook.

Section 6: Site Lighting

The following section contains cut sheets of the lighting fixtures proposed as part of the lighting plan. Fixture types are identified in the legend of the Lighting Plan and fixture locations are also shown on the project Site Plans.

EXTERIOR LIGHTING FIXTURE & LAMPING SCHEDULE

TYPE	DESCRIPTION	VOLTS	VA	MOUNTING & INSTRUCTIONS	LAMPING
1	PRESCOLITE CAT# LTR-6RD-H-SL10L-DM1-LTR-6RD-T-SL-40K-8-XW-SS 6" LED ROUND EXTERIOR DOWNLIGHT, APPROX 1000 LUMENS, EXTRA WIDE DISTRIBUTION, 0-10V DIMMING TO 1%, 80 CRI, SEMI-SPECULAR REFLECTOR AND FLANGE	UNIV	15	MOUNT IN CEILING OF CANOPY	LED INCLUDED 4000K
2	AAL CAT# PROS-Y3-2040-DBS-WMA59X LED EXTERIOR SCONCE, APPROX 1900 LUMENS, TYPE III DISTRIBUTION, 70 CRI, CLEAR LENS, DARK BRONZE GLOSS SMOOTH FINISH	120	30	WALL MOUNT ON COLUMNS 8'-0" AFG	LED INCLUDED 4000K
3A	BEACON CAT# RWL1-48L-15-4K7-3-UNV-DBS LED WALL PACK, APPROX 2000 LUMENS, TYPE III DISTRIBUTION, 70 CRI, DARK BRONZE GLOSS SMOOTH FINISH	UNIV	20	WALL MOUNT 24'-0" AFG	LED INCLUDED 4000K
3B	BEACON CAT# RWL1-48L-15-4K7-4W-UNV-DBS LED WALL PACK, APPROX 2000 LUMENS, TYPE IV WIDE DISTRIBUTION, 70 CRI, DARK BRONZE GLOSS SMOOTH FINISH	UNIV	20	WALL MOUNT 24'-0" AFG	LED INCLUDED 4000K
3C	BEACON CAT# RWL1-48L-20-4K7-4W-UNV-DBS LED WALL PACK, APPROX 2600 LUMENS, TYPE IV WIDE DISTRIBUTION, 70 CRI, DARK BRONZE GLOSS SMOOTH FINISH	UNIV	25	WALL MOUNT 24'-0" AFG	LED INCLUDED 4000K
4A	AAL CAT# PROS-Y2-2040-DBS-TRA59X LED DECORATIVE POST TOP LUMENAIRE, APPROX 1900 LUMENS, TYPE II DISTRIBUTION, 70 CRI, CLEAR LENS, DARK BRONZE GLOSS SMOOTH FINISH, W/DECORATIVE POLE TBD	120	30	POLE MOUNTED AT 14'-0" AFG	LED INCLUDED 4000K
4B	AAL CAT# PROS-Y3-2040-DBS-TRA59X LED DECORATIVE POST TOP LUMINAIRE, APPROX 1900 LUMENS, TYPE III DISTRIBUTION, 70 CRI, CLEAR LENS, DARK BRONZE GLOSS SMOOTH FINISH, W/DECORATIVE POLE TBD	120	30	POLE MOUNTED AT 14'-0" AFG	LED INCLUDED 4000K
4C	AAL CAT# PROS-Y5-2040-DBS-TRA59X LED DECORATIVE POST TOP LUMINAIRE, APPROX 1900 LUMENS, TYPE V DISTRIBUTION, 70 CRI, CLEAR LENS, DARK BRONZE GLOSS SMOOTH FINISH, W/DECORATIVE POLE TBD	120	30	POLE MOUNTED AT 14'-0" AFG	LED INCLUDED 4000K
5A	BEACON CAT# VP-1-160L-35-4K7-4F-UNV-A-DBS-HSS-90-B VIPER AREA MICROSTRIKE LUMINAIRE, APPROX 5500 LUMENS, TYPE IV FORWARD THROW DISTRIBUTION, SQUARE POLE ARM MOUNT, HOUSE SIDE SHIELD 90° BACK, DARK BRONZE GLOSS SMOOTH FINISH, W/CAT# SSS-B-25-40-A-1-B3-DBS SQUARE STRAIGHT STEEL POLE, SINGLE ARM MOUNT, DARK BRONZE GLOSS SMOOTH POLE FINISH	UNIV	35	POLE MOUNTED AT 25'-0" AFG (22.5' POLE ON 2.5' BASE)	LED INCLUDED 4000K
5B	BEACON CAT# VP-1-160L-100-4K7-2-UNV-A-DBS VIPER AREA MICROSTRIKE LUMINAIRE, APPROX 14000 LUMENS, TYPE II DISTRIBUTION, SQUARE POLE ARM MOUNT, DARK BRONZE GLOSS SMOOTH FINISH, W/CAT SSS-B-25-40-A-1-B3-DBS SQUARE STRAIGHT STEEL POLE, SINGLE ARM MOUNT, DARK BRONZE GLOSS SMOOTH POLE FINISH	UNIV	100	POLE MOUNTED AT 25'-0" AFG (22.5' POLE ON 2.5' BASE)	LED INCLUDED 4000K
5C	BEACON CAT# VP-1-160L-100-4K7-4W-UNV-A-DBS VIPER AREA MICROSTRIKE LUMINAIRE, APPROX 14000 LUMENS, TYPE IV WIDE DISTRIBUTION, SQUARE POLE ARM MOUNT, DARK BRONZE GLOSS SMOOTH FINISH, W/CAT# SSS-B-25-40-A-1-B3-DBS SQUARE STRAIGHT STEEL POLE, SINGLE ARM MOUNT, DARK BRONZE GLOSS SMOOTH POLE FINISH	UNIV	100	POLE MOUNTED AT 25'-0" AFG (22.5' POLE ON 2.5' BASE)	LED INCLUDED 4000K
5D	BEACON CAT# VP-1-160L-115-4K7-4W-UNIV-A-DBS VIPER ARE MICROSTRIKE LUMINAIRE, APPROX 16000 LUMENS, TYPE IV WIDE DISTRIBUTION, SQUARE POLE ARM MOUNT, DARK BRONZE GLOSS SMOOTH FINISH, W/CAT# SSS-B-25-40-A-1-B3-DBS SQUARE STRAIGHT STEEL POLE, SINGLE ARM MOUNT, DARK BRONZE GLOSS SMOOTH POLE FINISH	UNIV	115	POLE MOUNTED AT 25'-0" AFG (22.5' POLE ON 2.5' BASE)	LED INCLUDED 4000K
6	PROGRESS CAT# P5582-31 1-LAMP HANGING LANTERN, CAST ALUMINUM, TEXTURED BLACK FINISH, DAMP LOCATION LISTED			CHAIN SUSPEND 1'-0" FROM PEAK OF GAZEBO	1-LED 100W EQUIVALENT LAMP, 4000K E26 BASE

Hewett & Whitney
ENGINEERS DESIGNERS
ELECTRICAL & MECHANICAL SYSTEMS
161 MAIN STREET WINTHROP, MAINE
Tel 207•377•6969 Fax 207•377•7584

PLOT DATE: Mar 01, 2023

NO.	DATE	DESCRIPTION

ISSUE FOR PLANNING BOARD REVIEW
03.01.23

TAC Architectural Group Inc.
40 Summer St., Suite 4 Bangor, ME 04401

STATE OF MAINE
COLIN C. HEWETT
8374
LICENSED PROFESSIONAL ENGINEER
03-01-23

JFM HOMES TAYLOR BROOK HOUSE

AUBURN, MAINE

PROJECT NO:	22-051 / 23002
CAD DWG FILE:	ElecSchedDts.dwg
DRAWN BY:	EEHB/CCH
CHK'D BY:	CCH
COPYRIGHT:	2023

SHEET TITLE

ELECTRICAL SITE PHOTOMETRIC PLAN

E001

prescolite

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

LTR-6RD

LITEISTRY 6" ROUND DOWNLIGHT

LITEISTRY

FEATURES

- 6" architectural LED downlight delivering 600 – 9000 lm
- Five beam distributions from 0.3 to 1.1 Spacing Criteria
- Quiet reflector appearance with superior 50° optical cutoff
- 2700K – 5000K, 80+ and 90+ CRI options
- Available for New Construction (non-IC), IC and Chicago Plenum applications
- Variety of dimming protocol options including 0–10V, DALI, DMX, and Lutron EcoSystem
- NX Lighting Controls wired and wireless controls capability available

WET LOCATION · C SA US · ENERGY STAR · BUY AMERICAN SOLUTIONS (See Certification Specifications) · IP66** · IK10** · IP69K**

**Select models

SERVICE PROGRAMS

STOCK · QS

CONTROL TECHNOLOGY

NX LIGHTING CONTROLS

SPECIFICATIONS

CONSTRUCTION

- Standard Non-IC. Chicago Plenum and IC options
- Painted black durable steel platform with pre-installed bar hangers
- Pre-wired junction box with snap-on covers for easy access
- Snap-in connection from driver compartment allows easy installation
- Light Engine connections use plenum rated (CMP) cable

OPTICS

- Visually pleasing 50° cutoff to source and source image
- The light distribution is free of distracting bright spots or pixelation and the perimeter has a smooth transition
- Optical grade silicone lens integral to light engine
- High purity spun aluminum reflector, self-flanged
- Flush Mount flange option with mud-in ring available
- Large selection of anodized finishes and colors
- Painted cones and flange options available

ELECTRICAL

- Chip-on-board LED with 2 SDCM
- Multiple CCTs, 80+ or 90+ CRI
- Long LED life: L90 at >55,000 hours (TM-21)
- Universal voltage 120V–277V driver, 347V optional
- UL Class 2, inherent short circuit and overload protection
- Flicker free 0-10V dimming with 1% or <1% performance
- DALI, DMX, and Lutron EcoSystem options
- NX or Lutron Vive control options available
- Integral and remote controller and battery pack options available
- Refer to additional spec sheets for information on SpectraSync™ Tunable White or Dim-to-Warm or solutions

INSTALLATION

- Accommodates ceiling thickness up to 2" (SL, ML, HL); up to 1.25" (VL, XL) (See DIMENSIONS section for details)
- Universal adjustable mounting brackets also accept 0.5" EMT conduit or 1.5" or 0.75" lathing channel (by others) or Prescolite accessory bar hangers (B24 or B6).
- Light Engine/Driver fully serviceable from above or below the ceiling

CERTIFICATIONS

- cCSAus certified to UL 1598
- For ≥70L: Marked spacing required 36" fixture center to center; 36" fixture center to building member; 0.5" above fixture
- Suitable for wet locations, covered ceiling. EM/ EMR: Suitable for damp locations.
- EM/EMR: Certified under UL 924 standard for emergency lighting and power equipment
- When used with CE Bezel Trim Accessories: IP66/IP69K rating; also meets IK10 per IEC 60068-2-75 impact testing
- Approved for 8 (4 in/4 out) No. 12AWG conductors rated for 90°C through wiring
- ENERGY STAR® certified models available (For list and additional information, visit www.energystar.gov)
- This product qualifies as a "designated country construction material" per F AR 52.225-11 Buy American-Construction. Materials under Trade Agreements effective 6/6/2020.

WARRANTY

- 5 year warranty

KEY DATA	
Lumen Range	600-9000
Wattage Range	8-99
Efficacy Range (LPW)	94-104*
Reported Life (Hours)	L90 / >55,000
Input Current (mA)	65-825 (120V)

*Based on Specular, 35K, 80 CRI

prescolite

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

= Service Program STOCK QS

LTR-6RD

LITEISTRY 6" ROUND DOWNLIGHT

ORDERING GUIDE

Example: LTR–6RD–H–SL10L–DM1–LTR–6RD–T–SL35K8MD–S

CATALOG #

HOUSING

LTR-6RD-H –

Aperture/Shape/Function	
LTR-6RD-H	6" Round Downlight New Construction Housing

Lumen Package		Lumen Output	
SL	Standard Lumen	**06L**	600
		10L	1000
		15L	1500
ML	Medium Lumen	**20L**	2000
		25L	2500
		30L	3000
HL	High Lumen	**35L**	3500
		40L	4000
		45L	4500
VL	Very High Lumen	**50L**	5000
		55L	5500
		60L	6000
XL	Extra high Lumen [11]	**70L**	7000
		80L	8000
		90L	9000

Driver Options	
DM1	0-10V Dimming to 1%
DM01	0-10V Dimming to < 1% [2]
DMX	DMX with RDM dimming to < 0.1% [2]
DALI	DALI Dimming to 1% [2]
EDM	Lutron Hi-Lume EcoSystem Dimming to 1% [2]

Control Options	
NXE	NX Wired Dual RJ45 SmartPORTS, without Sensor [3]
NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [3]
LV	Lutron Vive Enabled, 0-10V (requires DM1 driver)
LVE	Lutron Vive Enabled, EcoSystem, (requires EDM)

Voltage	
Standard 120-277V	
34	347V [6]

Housing Options	
CP	Chicago Plenum [7, 9]
IC	IC rated [8, 9]
EM	Emergency Battery Pack with integral test switch and indicator light [9]
EMR	Emergency Battery Pack with remote test switch and indicator light [9]
DTS	Device Transfer Switch with Dimming Bypass [9, 12]
GTD	Generator Transfer Device [9]
F	Fuse [9]

TRIM

LTR-6RD-T –

Aperture/Shape/Function	
LTR-6RD-T	6" Round Downlight Light Engine/Trim Assembly

Lumen Package	
SL	Standard Lumen
ML	Medium Lumen
HL	High Lumen
VL	Very High Lumen
XL	Extra High Lumen [11]

CCT	
27K	2700K
30K	3000K
35K	3500K
40K	4000K
50K	5000K [1]

CRI	
8	80+CRI
9	90+CRI

Distribution	
VNR	Very Narrow (0.3 SC/18°)
NR	Narrow (0.5 SC/29°)
MD	Medium (0.6 SC/37°)
WD	Wide (0.9 SC/59°)
XW	Extra Wide (1.1 SC/76°)

TRIM CONTINUED

–

Reflector Finish	
Finish not applicable with painted reflectors (WC or BC)	
S	Specular
SS	Semi-Specular
MFC	American Matte™
VS	Softglow®
VSS	SoftSheen™

Reflector Color	
Standard Clear	
CG	Champagne Gold
BL	Black
LW	Light Wheat
PW	Pewter
WC	Painted White Cone and Flange
BC	Painted Black Cone and Flange

Flange Color Options	
Standard matches reflector color	
WT	White Flange [4]
BT	Black Flange [4]

Lower Trim Options	
EM	Pre-punched reflector for EM integral test switch and indicator
FM	Flush Mount Mud-in Ring [10]
WF	Wide Flange

Reflector Options	
AM	Antimicrobial Coating [5]

Accessories	
☐ **B24**	Set of two (2) 24" bar hangers for T-bar ceilings
☐ **B6**	Set of two bar hangers for ceiling joist up to 24" centers
☐ **FMR6-R**	Flush Mount Mud-In Ring, 6" Round
☐ **LiteGear**	LiteGear® Inverter, 125VA-250VA
☐ **LPS Series**	LightPower Micro-Inverter, 20VA-55VA
☐ **MOR6-R-WH**	Metal Oversized Ring, 6" Round, White (10" outside diameter)
☐ **MOR6-R-BL**	Metal Oversized Ring, 6" Round, Black (10" outside diameter)
☐ **LTR-SCA6-__**	Sloped Ceiling Adapter, 6", White [13]

(See next page for Bezel Trim Accessories for Complex Environments) [14]

Notes:

1 5000K available in 80+ CRI only.
2 EDM available in 10L-35L. DMX not available on >35L. DM01, DALI not available on >55L.
3 NX requires DM1 driver option, not available on >60L.
4 WT not needed for WC, BT not needed for BC.
5 AM available with WC or Specular Clear (S or SWT). Consult factory for other colors.
6 347V requires DM1 driver option; available 06L - 30L not available with Controls, F, GTD, DTS, EM, EMR.
7 CP available up to 50L; not available with DMX, Controls, or EMR options.
8 IC available up to 20L; not available with Controls options.
9 Housing options (except Fuse) not available in combination.
10 Flush Mount Flange (FM) requires FMR accessory (sold separately).
11 XL (70L-90L) require marked spacing. See line art for more details.
12 DTS available with DM1, DM01, or DALI.
13 Specify slope angle 5°-35° in 5° increments. Not available with EM, WF, or FM options.
14 See next page for option restrictions when using with bezel trim accessories.

prescolite

LTR-6RD

LITEISTRY 6" ROUND DOWNLIGHT

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

ACCESSORIES CONTINUED

Bezel Trim Accessories

For more demanding environments, LITEISTRY™ offers bezel trim accessories that can be field installed onto standard housing/trim assemblies and are available with antimicrobial trim finish and/or vandal resistant hardware options.

FEATURES:

- Marine grade die cast aluminum bezel trim with low-copper alloy for durability
- Shatter resistant, 1/4" clear polycarbonate lens, completely flush for easy wipe down
- Closed cell silicone gasket protects against dust and water ingress
- Suitable for wet locations, covered ceiling
- IP66/IP69K rated (room side) when properly installed per installation instructions
- Meets IK10 per IEC 60068-2-75 impact testing
- Optional anti-microbial (AM) trim finish

WET LOCATION | IP66 | IK10 | IP69K

Complex Environment (Includes stainless steel Philips head screws)	
☐ **LTR-6RD-CE-WT**	Bezel Trim Accessory, IP66/IP69K, 6" Round, White
☐ **LTR-6RD-CE-WTAM**	Bezel Trim Accessory, IP66/IP69K, 6" Round, White Antimicrobial

Vandal Resistant (Includes stainless steel Torx® screws with tamper resistant center pin reject)	
☐ **LTR-6RD-CEVR-WT**	Bezel Trim Accessory, Vandal Resistant/IP66/IP69K, 6" Round, White
☐ **LTR-6RD-CEVR-WTAM**	Bezel Trim Accessory, Vandal Resistant/IP66/IP69K, 6" Round, White Antimicrobial

Dimensional Data	
Aperture Opening	Ø 5.75" (146.1 mm)
Overall Flange	Ø 9.42" (293.3 mm)
Trim Height	0.42" (10.7 mm)
Ceiling Cutout	Ø 8.25" (209.6 mm)
Ceiling Thickness	0.50" to 2.00"(12.7 mm to 50.8 mm)

Notes:

1 Available up to 4000 Max Lumens.
2 Not available in combination with EM, FM, or WF options.
3 Not available in combination with FMR, LTR-MOR or LTR-SCA accessories.
4 Refer to all Installation Instructions for complete details.

CONTROLS

NX Lighting Controls:

Supports applications in a variety of deployment options. Integrates with and enables a wide array of luminaires including those with SpectraSync™ Color Tuning Technology.

NX LIGHTING CONTROLS™

NX INTEGRATED CONTROLS REFERENCE								
NX Option	Sensor	Networkable	Scheduling	Occupancy	Daylight Harvesting	0–10V Dimming	On/off Control	Bluetooth® App Programming
NX Networked – Wired								
NXE	N/A	Yes	Yes	No	No	Yes	Yes	Requires NXBTC[1]
NX Networked – Wireless								
NXW[2]	N/A	Yes	Yes	No	No	Yes	Yes	Yes

1 NXBTC needs to be plugged into an available NX SmartPort™ on the fixture network
2 Programming via App requires factory assistance

LTR-6RD

LITEISTRY 6" ROUND DOWNLIGHT

PERFORMANCE DATA TABLE

Performance data provided below is for 3500K, 80 CRI with Specular Clear reflector finish/color

Lumen Package	Nominal Lumens	Distribution	Delivered Lumens	Watts	LPW
06L	600	Very Narrow	806	7.8	103
		Narrow	717	7.8	92
		Medium	746	7.8	96
		Wide	691	7.8	89
		Extra Wide	665	7.8	85
10L	1000	Very Narrow	1288	12.0	107
		Narrow	1146	12.0	96
		Medium	1192	12.0	99
		Wide	1104	12.0	92
		Extra Wide	1063	12.0	89
15L	1500	Very Narrow	1851	18.7	99
		Narrow	1623	18.7	87
		Medium	1712	18.7	92
		Wide	1586	18.7	85
		Extra Wide	1527	18.7	82
20L	2000	Very Narrow	2355	22.6	104
		Narrow	2263	22.7	100
		Medium	2265	22.6	100
		Wide	2180	22.7	96
		Extra Wide	2139	22.7	94
25L	2500	Very Narrow	3093	27.7	112
		Narrow	2751	27.7	99
		Medium	2860	27.7	103
		Wide	2650	27.7	96
		Extra Wide	2551	27.7	92
30L	3000	Very Narrow	3686	34.3	107
		Narrow	3278	34.3	96
		Medium	3409	34.3	99
		Wide	3158	34.3	92
		Extra Wide	3040	34.3	89

LTR-6RD

LITEISTRY 6" ROUND DOWNLIGHT

PERFORMANCE DATA TABLE CONTINUED

Performance data provided below is for 3500K, 80 CRI with Specular Clear reflector finish/color

Lumen Package	Nominal Lumens	Distribution	Delivered Lumens	Watts	LPW
35L	3500	Very Narrow	4477	43.0	104
		Narrow	3942	43.0	93
		Medium	4140	43.0	96
		Wide	3836	43.0	89
		Extra Wide	3693	43.0	86
40L	4000	Very Narrow	5117	51.6	99
		Narrow	4552	51.6	88
		Medium	4733	51.6	92
		Wide	4385	51.6	85
		Extra Wide	4221	51.6	82
45L	4500	Very Narrow	5371	55.1	98
		Narrow	4775	55.1	87
		Medium	4967	55.1	90
		Wide	4602	55.1	84
		Extra Wide	4430	55.1	80
50L	5000	Very Narrow	5740	48.7	118
		Narrow	5105	48.7	105
		Medium	5308	48.7	109
		Wide	4918	48.7	101
		Extra Wide	4734	48.7	97
55L	5500	Very Narrow	6365	53.9	119
		Narrow	5662	53.9	105
		Medium	5887	53.9	109
		Wide	5454	53.9	101
		Extra Wide	5250	53.9	97
60L	6000	Very Narrow	7090	60.7	117
		Narrow	6299	60.7	104
		Medium	6557	60.7	108
		Wide	6075	60.7	100
		Extra Wide	5848	60.7	96
70L	7000	Very Narrow	8266	72.1	115
		Narrow	7353	72.1	102
		Medium	7645	72.1	106
		Wide	7083	72.1	98
		Extra Wide	6819	72.1	95
80L	8000	Very Narrow	9301	84.3	111
		Narrow	8273	84.3	98
		Medium	8602	84.3	102
		Wide	7970	84.3	95
		Extra Wide	7672	84.3	91
90L	9000	Very Narrow	10549	98.1	108
		Narrow	9383	98.1	96
		Medium	9756	98.1	99
		Wide	9039	98.1	92
		Extra Wide	8701	98.1	89

prescolite

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

LTR-6RD

LITEISTRY 6" ROUND DOWNLIGHT

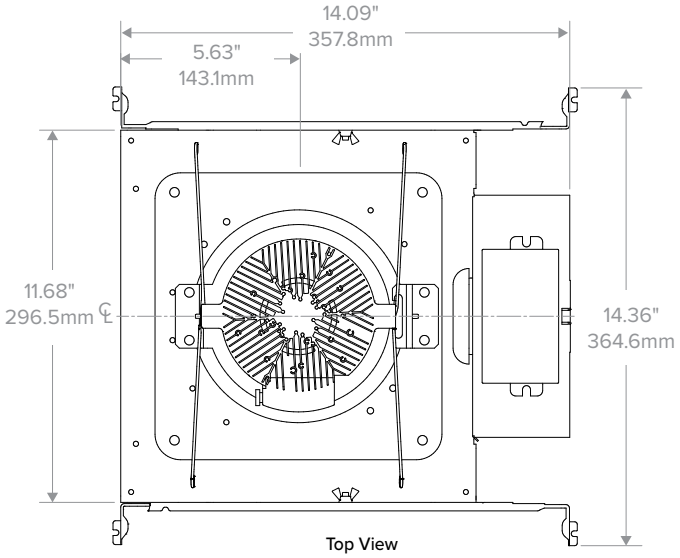
DIMENSIONS

Lumen Package	"A"
06L-15L	5.90" (149.9mm)
20L-30L	6.68" (169.7mm)
35L-40L	7.86" (199.6mm)
50L-60L	9.04" (229.6mm)

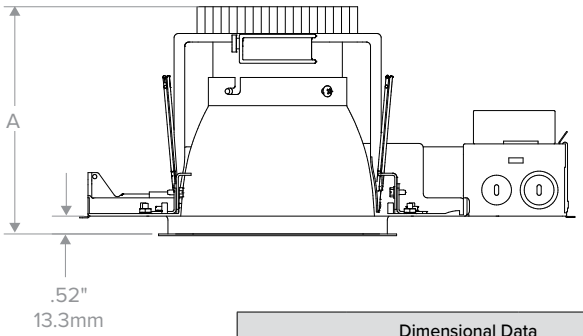
Dimensional Data		
Aperture		5.75" (146.1mm)
Flange:	Standard	7.00" (177.8mm)
	Flush Mount	6.54" (166.0mm)
	With Bezel Trim Accessory**	Ø 9.42" (293.3 mm)
Ceiling Cutout:	Standard	6.50" (165.1mm)
	Flush Mount	6.75" (171.5mm)
	With Bezel Trim Accessory**	Ø 8.25" (209.6 mm)
Ceiling Thickness:	Standard or w/SCA 5-20° slope	0.50" to 2.00" (12.7mm to 50.8mm)
	With SCA 25-35° slope	0.50" to 1.75" (12.7mm to 44.6mm)
	With Bezel Trim Accessory**	0.50" to 2.00"(12.7 mm to 50.8 mm)

SCA Sloped Ceiling Adapter accessory available, see LTR-SCA specification sheet and installation instructions for dimensional data and other details.

** For complete details on Bezel Trim Accessories, see Accessory section on Page 3 and Bezel Trim Installation Instructions on currentlighting.com/prescolite.



Top View

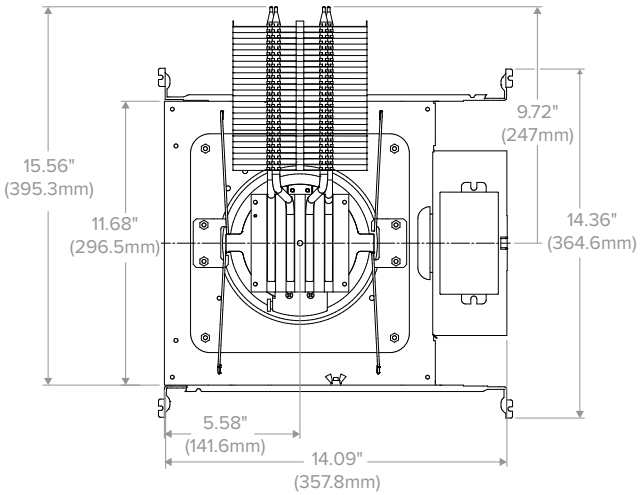


LTR-6RD-H (06L - 60L) New Construction

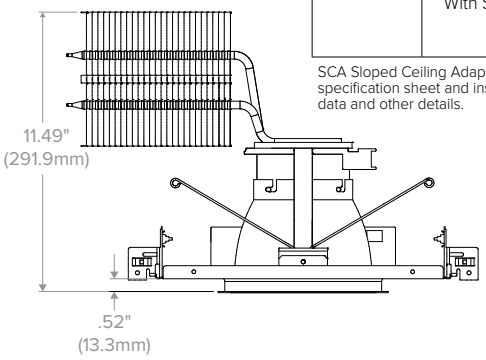
Dimensional Data		
Aperture		5.75" (146.1mm)
Flange:	Standard	7.00" (177.8mm)
	Flush Mount	6.54" (166.0mm)
Ceiling Cutout:	Standard	6.50" (165.1mm)
	Flush Mount	6.75" (171.5mm)
Ceiling Thickness:	Standard or w/SCA 5-20° slope	0.50" to 2.00" (12.7mm to 50.8mm)
	With SCA 25-35° slope	0.50" to 1.75" (12.7mm to 44.6mm)

SCA Sloped Ceiling Adapter accessory available, see LTR-SCA specification sheet and installation instructions for dimensional data and other details.

Marked spacing required:
36" fixture center to center;
36" center to building member;
0.50" above fixture



Top View



LTR-6RD-H (70L - 90L) New Construction

prescolite

DATE: LOCATION:

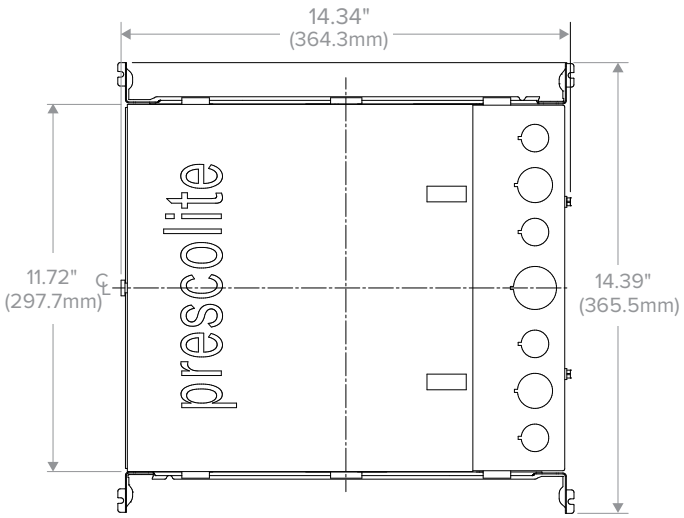
TYPE: PROJECT:

CATALOG #:

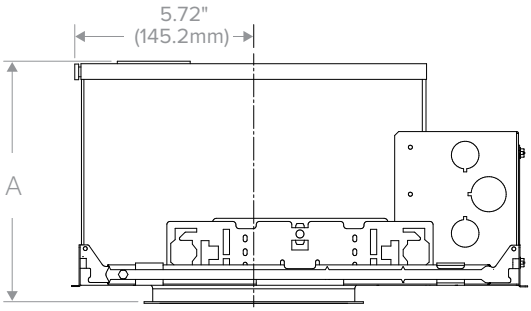
LTR-6RD

LITEISTRY 6" ROUND DOWNLIGHT

DIMENSIONS CONTINUED



LTR-6RD-IC / LTR-6RD-CP



Lumen Package	"A"
Standard	7.68" (195.0mm)
CP option ≥35L	10.06" (255.5mm)

Dimensional Data		
Aperture		5.75" (146.1mm)
Flange:	Standard	7.00" (177.8mm)
	Flush Mount	6.54" (166.0mm)
Ceiling Cutout:	Standard	6.50" (165.1mm)
	Flush Mount	6.75" (171.5mm)
Ceiling Thickness:	Standard or w/SCA 5-20° slope	0.50" to 2.00" (12.7mm to 50.8mm)
	With SCA 25-35° slope	0.50" to 1.75" (12.7mm to 44.6mm)

SCA Sloped Ceiling Adapter accessory available, see LTR-SCA specification sheet and installation instructions for dimensional data and other details.

PHOTOMETRY

LTR-6RD-H-ML20L-DM1 / LTR-6RD-T-ML35K8VNR-S

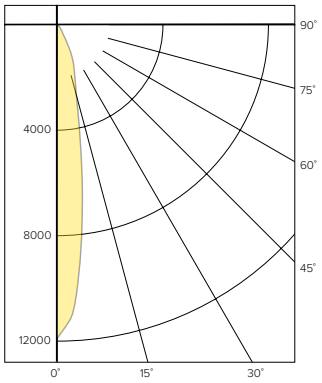
LUMINAIRE DATA

Test No.	**19.00588**
Description	**2000 lm, Very Narrow, 3500K, 80 CRI**
Delivered Lumens	**2355**
Watts	**22.6W**
Efficacy	**104.0**
Mounting	**Recessed**
Spacing Criterion	**0.3**
Beam Angle (FWHM)	**18**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	2290	97.2
0-60	2355	100.0
0-90	2355	100.0
0-180	2355	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	11881
5	9399
15	2776
25	1236
35	255
45	74
55	0
65	0
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	6247
55°	0
65°	0
75°	0
85°	0

*Candela/Square Meter

LTR-6RD-H-ML20L-DM1 / LTR-6RD-T-ML35K8NR-S

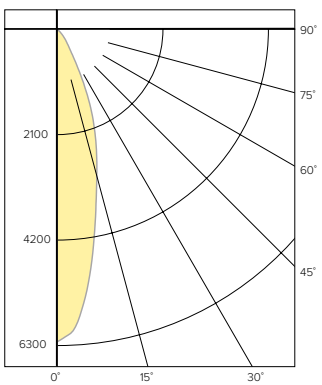
LUMINAIRE DATA

Test No.	**20.01439**
Description	**2000 lm, Narrow, 3500K, 80 CRI**
Delivered Lumens	**2263**
Watts	**22.1W**
Efficacy	**103.0**
Mounting	**Recessed**
Spacing Criterion	**0.5**
Beam Angle (FWHM)	**29**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	2185	96.6
0-60	2260	99.9
0-90	2263	100.0
0-180	2263	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	6222
5	5603
15	3035
25	1354
35	348
45	83
55	5
65	2
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	6712
55°	498
65°	271
75°	221
85°	0

*Candela/Square Meter

LTR-6RD

LITEISTRY 6" ROUND DOWNLIGHT

PHOTOMETRY CONTINUED

LTR-6RD-H-ML20L-DM1 / LTR-6RD-T-ML35K8MD-S

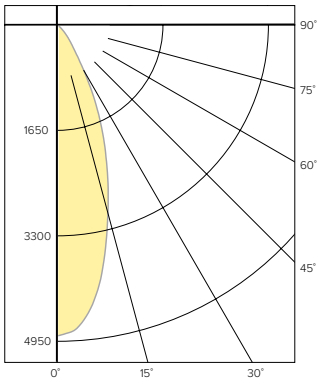
LUMINAIRE DATA

Test No.	**19.00587**
Description	**2000 lm, Medium, 3500K, 80 CRI**
Delivered Lumens	**2265**
Watts	**22.6W**
Efficacy	**100.0**
Mounting	**Recessed**
Spacing Criterion	**0.6**
Beam Angle (FWHM)	**37**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	2171	95.9
0-60	2262	99.9
0-90	2265	100.0
0-180	2265	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	4851
5	4619
15	3007
25	1450
35	386
45	99
55	6
65	2
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	8357
55°	624
65°	282
75°	231
85°	0

*Candela/Square Meter

LTR-6RD-H-ML20L-DM1 / LTR-6RD-T-ML35K8WD-S

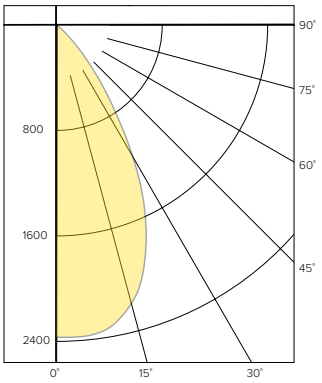
LUMINAIRE DATA

Test No.	**19.00585**
Description	**2000 lm, Wide, 3500K, 80 CRI**
Delivered Lumens	**2180**
Watts	**22.6W**
Efficacy	**96.1**
Mounting	**Recessed**
Spacing Criterion	**0.9**
Beam Angle (FWHM)	**59**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	2014	92.4
0-60	2176	99.8
0-90	2180	100.0
0-180	2180	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	2368
5	2371
15	2189
25	1591
35	726
45	177
55	10
65	3
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	14942
55°	1041
65°	424
75°	231
85°	0

*Candela/Square Meter

LTR-6RD-H-ML20L-DM1 / LTR-6RD-T-ML35K8XW-S

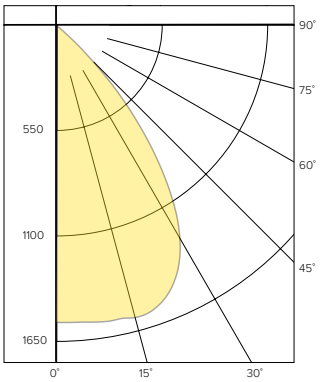
LUMINAIRE DATA

Test No.	**19.00586**
Description	**2000 lm, Extra Wide, 3500K, 80 CRI**
Delivered Lumens	**2139**
Watts	**22.7W**
Efficacy	**94.4**
Mounting	**Recessed**
Spacing Criterion	**1.1**
Beam Angle (FWHM)	**76**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1875	87.7
0-60	2134	99.8
0-90	2139	100.0
0-180	2139	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	1547
5	1552
15	1576
25	1461
35	1007
45	301
55	9
65	3
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	25409
55°	937
65°	424
75°	231
85°	0

*Candela/Square Meter

LUMEN MULTIPLIER

Option	27K8	30K8	35K8	40K8	50K8	27K9	30K9	35K9	40K9
Multiplier	0.94	0.98	1.00	1.01	1.02	0.81	0.84	0.85	0.85

Photometrics are published below at a nominal 3500 Kelvin, 80+ CRI. This table may be used to approximate the lumen values at different Kelvin temperatures. Power consumption would stay the same.

DATE: LOCATION:

TYPE: PROJECT:

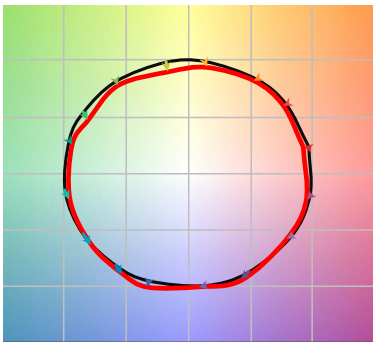
CATALOG #:

LTR-6RD

LITEISTRY 6" ROUND DOWNLIGHT

TM-30 DATA

COLOR VECTOR GRAPHIC 3500K, 90 CRI

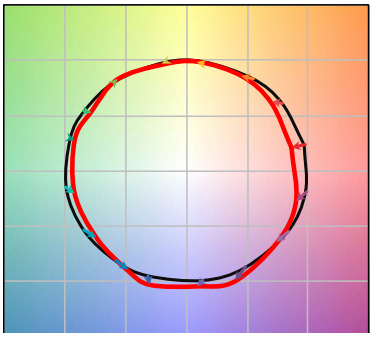


Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC 3500K, 90 CRI

TEST RESULTS - 3500K		
Value	80+ CRI	90+ CRI
R_f	84	88
R_g	95	95
CCT (K)	3411	3419
D_{UV}	0.0015	0.0042
x	0.4120	0.4147
y	0.3974	0.4052
CIE R_a	84	93
CIE R_g	11	62

COLOR VECTOR GRAPHIC 3500K, 80 CRI



Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC 3500K, 80 CRI

LTR-6RD

LITEISTRY 6" ROUND DOWNLIGHT

ELECTRICAL DATA

DRIVER DATA		
Input Voltage	120-277 V	347 V
Input Frequency	50/60 Hz	50/60 Hz
Power Factor	≥0.90	≥0.90
THD	<20%	<20%
EMI Filtering (FCC 47 CFR Part 15)	Class A	Class A

* Values for DM1 option shown, values for other dimming options may vary.

ADDITIONAL INFORMATION

Dimming Compatibility

For more details and recommended dimmer list, see Dimming Compatibility Information on currentlighting.com/prescolite.

DMX

See instruction sheet on currentlighting.com/prescolite for connection & installation information.

Central Inverters

For full fixture output in back-up mode, we recommend you visit currentlighting.com/dual-lite for your Central Lighting Inverter options. Please contact your local Current representative for any assistance with proper sizing and loading of your inverter selection. Central lighting inverters must be ordered separately.

Bezel Trim Accessories for Complex Environments

See installation instructions on currentlighting.com/prescolite for complete details.

architectural arealighting

PROS

ARCHITECTURAL AREA/SITE

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

PROVIDENCE®

FEATURES

- Reliable, uniform, glare free illumination
- Types II, III, IV and V distributions
- 3000K, 4000K, 5000K CCT
- 0-10V dimming ready
- Integral surge suppression
- 15 standard powder coat finishes
- Upgrade Kits

3000K and warmer CCTs only

Providence Small

SPECIFICATIONS

CONSTRUCTION

- All housing components aluminum 360 alloy, sealed with continuous silicone rubber gaskets
- All internal and external hardware is stainless steel
- Finish: fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat
- Optical bezel finish is match the luminaire housing

LED/OPTICS

- LEDs are mounted to a metal printed circuit board assembly (MCPCB) with a uniform conformal coating over the panel surface and electrical features
- Cartridge is easily disassembled to replace components. Optics are held in place without the use of adhesives
- Molded silicone gasket ensures a weather-proof seal around each individual LED
- Features revolutionary individual LED optical control based on high performance TIR optical designs
- House Side Shield is available on Standard and Clear Lens options except any Type 5 distribution. House Side Shield is not available for any distribution using a Diffused Lens

INSTALLATION

- Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury

ELECTRICAL

- Luminaires have integral surge protection, UL recognized and have a surge current rating of 10,000 Amps using the industry standard 8/20uSec wave and surge rating of 372J
- Drivers are UL recognized with an inrush current maximum of <20.0 Amps maximum at 230VAC
- 100%-1% dimming range. Fixture will be wired for low voltage 0-10V dimming control
- Driver and surge suppressor are mounted to a prewired tray with quick disconnects that may be removed from the gear compartment

CONTROLS

- Photocell adapter shall include an internal twist lock receptacle. Photocell by others.
- Egress adapter shall require an auxiliary 120 volt supply for operation of an integral MR16 lamp in the event of emergency. The lamp may be aimed and locked into position with an adjustment range of 15°-45°. Adapter shall have a socket that accepts miniature bi-pin MR16 lamps up to 50 watts, lamp by others

CERTIFICATIONS

- ETL listed under UL 1598 and CSA C22.2 No. 250.0-08 for wet locations
- This product qualifies as a “designated country construction material” per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 6/06/2020.

WARRANTY

- 5 year warranty

KEY DATA	
LUMEN RANGE	1,275–3,270
WATTAGE RANGE	25–42
EFFICACY RANGE (LPW)	46–78
INPUT CURRENT RANGE (mA)	255/400 mA
WEIGHT	9 lbs 4 kg
EPA	.46

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

ORDERING GUIDE

Example: PROS-Y3-3030-BLS-BPS-WMA59D

CATALOG #

HOUSING

PROS

Housing		Distribution		Lumen Package		Finish		Options		Mounting
PROS	Providence Small LED	**Y2**	Type II	**2030**	3000K CCT 25 watts	**BLS**	Black Gloss Smooth	**FS1**	Fusing	**Standard Mount**
		Y3	Type III	**2040**	4000K CCT 25 watts	**BLT**	Black Matte Textured	**PFN**	Brass Painted Finial	Slips over a 3"/75mm pole or may choose one
		Y4	Type IV	**2050**	5000K CCT 25 watts	**DBS**	Dark Bronze Gloss Smooth	**SPK**	Brass Painted Spike	**Wall Mount**
		Y5	Type V	**3030**	3000K CCT 43 watts	**DBT**	Dark Bronze Matte Textured	**BPS**	Brass Painted Struts	**WMA59D** Mount down
				3040	4000K CCT 43 watts	**GTT**	Graphite Matte Textured	**LDL**	Lightly diffused lens	**WMA59U** Mount up
				3050	5000K CCT 43 watts	**LGS**	Light Gray Gloss Smooth	**AD4**	Adapter used only with standard AAL arms and post top mount fixtures to slip over a 4"/100mm O.D. pole	**Pole Mount/Side Mounts**
						LGT	Light Gray Matte Textured			**TRA59D** Mount down
						PSS	Platinum Silver Gloss Smooth			**TRA59U** Mount up
						VGT	Verde Green Matte Textured			
						WHS	White Gloss Smooth			
						WHT	White Matte Textured			
						Color Options				
						CC	Custom Color [1]			

Notes:

1 Consult factory for custom color, marine and corrosive finish options

DATE: LOCATION:

TYPE: PROJECT:

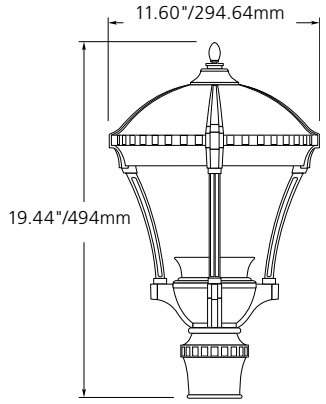
CATALOG #:

DELIVERED LUMENS

The table below shows the delivered lumens for the various lumen outputs and beam distributions. Use this chart in connection with the lumen factor (LF) capability to deliver any output required.

System Watts	Lumen Package	Lens	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
				Lumen	Bug Rating			Efficancy (Lm/W)	Lumen	Bug Rating			Efficancy (Lm/W)	Lumen	Bug Rating			Efficancy (Lm/W)
					B	U	G			B	U	G			B	U	G	
25	2000	Clear Lens (Standard)	Type 2	1792	1	0	1	72	1957	1	0	1	78	1951	1	0	1	78
			Type 3	1830	1	0	1	73	1970	1	0	1	79	1958	1	0	1	78
			Type 4W	1793	0	0	1	72	1957	0	0	1	78	1960	0	0	1	78
			Type 5	1735	1	0	1	69	1894	1	0	1	76	1889	1	0	1	76
		Lightly Diffused Lens	Type 2	1216	1	1	1	49	1361	1	1	1	54	1387	1	1	1	55
			Type 3	1216	1	1	1	49	1361	1	1	1	54	1386	1	1	1	55
			Type 4W	1298	1	1	1	52	1417	1	1	1	57	1419	1	1	1	57
			Type 5	1139	1	1	1	46	1275	1	1	1	51	1299	1	1	1	52
43	3000	Clear Lens (Standard)	Type 2	2975	1	0	1	69	3247	1	0	1	76	3238	1	0	1	75
			Type 3	3038	1	1	1	71	3270	1	0	1	76	3261	1	0	1	76
			Type 4W	2988	1	0	1	69	3262	1	0	1	76	3253	1	0	1	76
			Type 5	2892	2	0	1	67	3157	2	0	1	73	3148	2	0	1	73
		Lightly Diffused Lens	Type 2	2092	1	1	1	49	2342	1	1	1	54	2386	1	1	1	55
			Type 3	2091	1	1	1	49	2341	1	1	1	54	2385	1	1	1	55
			Type 4W	2164	1	1	1	50	2362	1	1	1	55	2356	1	1	1	55
			Type 5	1959	1	1	1	46	2193	1	1	1	51	2234	1	1	1	52

DIMENSIONS



PHOTOMETRY

PROS-Y2-3040

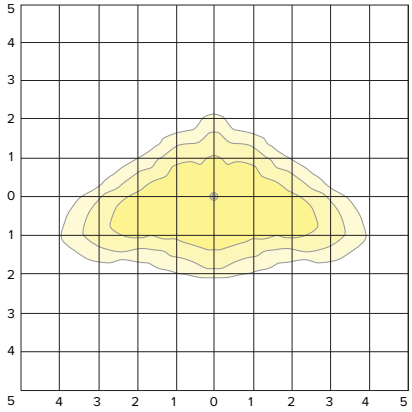
LUMINAIRE DATA

Description	**3040K, 70CRI**
Delivered Lumens	**3247**
Watts	**43.2**
Efficacy	**75.2**
IES Type	**TYPE II, MEDIUM**
BUG Rating	**B1-U0-G1**
Mounting Height	**15 ft**
Grid Scale	**15 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	2229	68.6%
Downward House Side	1018	31.3%
Downward Total	3247	100.0%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	3247	100%

ISOFOOT CANDLE PLOT



PROS-Y3-3040

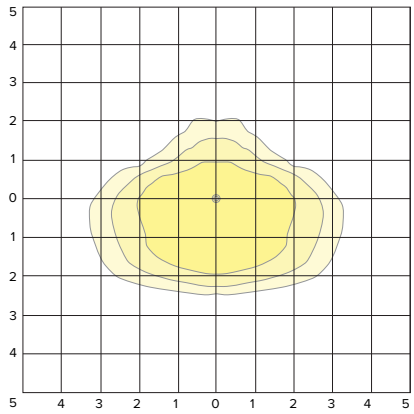
LUMINAIRE DATA

Description	**3040K, 70CRI**
Delivered Lumens	**3270**
Watts	**43.2**
Efficacy	**75.7**
IES Type	**Type III**
BUG Rating	**B1-U0-G1**
Mounting Height	**15 ft**
Grid Scale	**15 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	2376	72.6%
Downward House Side	894	27.3%
Downward Total	3270	100.0%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	3270	100%

ISOFOOT CANDLE PLOT



PROS-Y4W-3040

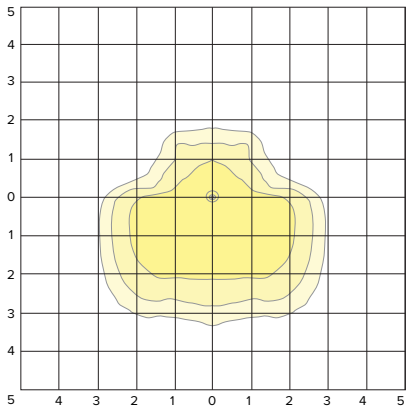
LUMINAIRE DATA

Description	**3040K, 70CRI**
Delivered Lumens	**3262**
Watts	**43**
Efficacy	**75.9**
IES Type	**Type IV**
BUG Rating	**B1-U0-G1**
Mounting Height	**15 ft**
Grid Scale	**15 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	2670	81.9%
Downward House Side	592	18.2%
Downward Total	3262	100.1%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	3262	100%

ISOFOOT CANDLE PLOT



PHOTOMETRY

PROS-Y5-3040

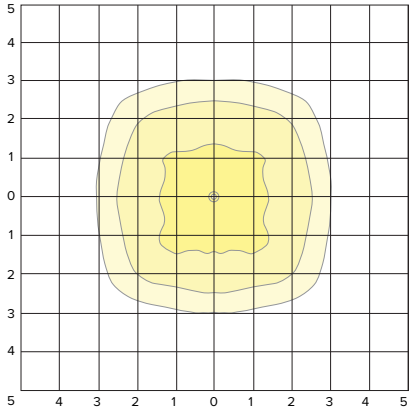
LUMINAIRE DATA

Description	**3040K, 70CRI**
Delivered Lumens	**3157**
Watts	**42.8**
Efficacy	**73.8**
IES Type	**Type VS**
BUG Rating	**B2-U0-G1**
Mounting Height	**15 ft**
Grid Scale	**15 ft**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	1594	50.5%
Downward House Side	1563	49.5%
Downward Total	3157	100.0%
Upward Street Side	0	0.0%
Upward House Side	0	0.0%
Upward Total	0	0.0%
Total Flux	3157	100%

ISOFOOT CANDLE PLOT



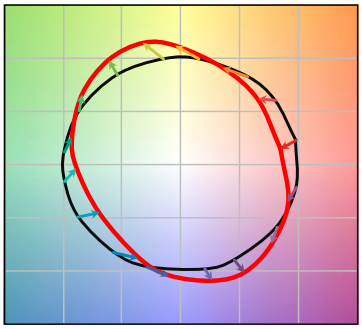
DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

TM-30 DATA

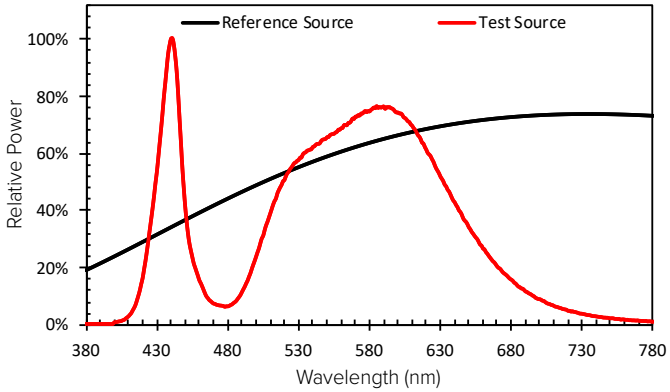
COLOR VECTOR GRAPHIC



TEST SOURCE

R_f	68
R_g	99
CCT(K)	3947
D_{UV}	0.0004
x	0.3831
y	0.3793
CIE R_a	72

SPECTRAL POWER DISTRIBUTION COMPARISON



ELECTRICAL DATA

Configuration		Electrical Characteristics											Dimming			
		LED Drive mA	System Watts	Line Voltage		Amps AC					Min. POWER FACTOR	Max THD (%)	Dimming Range	Source Current Out		Absolute Voltage	
Ordering Code				VAC	Hz	120	208	220	240	277				Min	Max	Min	Max
2020	2000 series	255	25	120-277	50/60	0.35	0.15	0.35	0.15	0.15	≥.9	20	10% to 100%	OmA	1mA	0V	10V
2040																	
2050																	
3020	3000 series	400	42			0.21	0.09	0.21	0.09	0.09							
3040																	
3050																	

TM-21 LIFETIME CALCULATION - PROJECTED LUMEN MAINTENANCE (25°C / 77°F)						
HOURS	0	25,000	36,000	50,000	100,000	REPORTED L70
Projected Lumen Maintenance	100%	99.0%	99.5%	98.0%	95.0%	>60000

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DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

RATIO Wall

RWL1/RWL2 LED WALLPACK

FEATURES

- Low profile LED wall luminaire with a variety of IES distributions for lighting applications such as retail, commercial and industrial building mount
- Featuring Micro Strike Optics which maximizes target zone illumination with minimal losses at the house-side, reducing light trespass issues
- Visual comfort standard
- Control options including photo control, occupancy sensing, NX Distributed Intelligence™, Wiscape and 7-Pin with networked controls
- Battery Backup options available for emergency code compliance
- Quick-mount adapter allows easy installation/maintenance
- 347V and 480V versions for industrial applications and Canada
- Stock versions available in 3500lm and 5500lm configurations at 4000K

C US

BUY AMERICAN SOLUTIONS
See Certification Specifications

DLC QPL LISTED

DLC QPL LISTED PREMIUM

CONTROL TECHNOLOGY

NX LIGHTING CONTROLS™ wiSCAPE™

SPECIFICATIONS

CONSTRUCTION

- Die-cast housing with hidden vertical heat fins that are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with powder coat paint finish
- Powder paint finish provides durability in outdoor environments. Tested to meet 1000 hour salt spray rating.

OPTICS

- Entire optical aperture illuminates to create a larger luminous surface area resulting in a low glare appearance without sacrificing optical performance
- 48 or 160 midpower LEDs
- 3000K, 4000K or 5000K (70 CRI/80 CRI) CCT
- Zero uplight distributions
- LED optics provide IES type II, III and IV distributions. Type II only available in RWL2 configurations.

INSTALLATION

- Quick-mount adapter provides easy installation to wall or to recessed junction boxes (4" square junction box)
- Designed for direct j-box mount.
- Integral back box contains 1/2" conduit hubs
- Integral back box standard with Dual Driver, Dual Power Feed, NX, Wiscape and battery versions (battery versions for RWL1 only)

ELECTRICAL

- 120V-277V universal voltage 50/60Hz 0-10V dimming drivers
- 347V and 480V dimmable driver option for all wattages above 35W.

ELECTRICAL (CONTINUED)

- Ambient operating temperature -40˚C to 40˚C
- Drivers have greater than .90 power factor and less than 20% Total Harmonic Distortion
- Driver RoHS and IP66
- Field replaceable surge protection device provides 20kA protection meeting ANSI/IEEE C62.41.2 Category C High and Surge Location Category C3; Automatically takes fixture off-line for protection when device is compromised
- Dimming drivers are standard and dimming leads are extended out of the luminaire unless control options require connection to the dimming leads. Must specify if wiring leads are to be greater than 6" standard.

CONTROLS

- Photo control, occupancy sensor and wireless available for complete on/off and dimming control
- Button photocontrol is suitable for 120-277V operation
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
- NX Distributed Intelligence™ available with in fixture wireless control module, features dimming and occupancy sensor wiSCAPE® available with in fixture wireless control module, features dimming and occupancy sensor
- Integral Battery Backup provides emergency lighting for the required 90 minute path of egress
- Battery Backup suitable for operating temperatures -25˚C to 40˚C. RWL1 battery is 12.5W RWL2 battery is 18W

CONTROLS (CONTINUED)

- Dual Driver and Dual Power Feed options creates product configuration with 2 internal drivers for code compliance
- Please consult brand or sales representative when combining control and electrical options as some combinations may not operate as anticipated depending on your application.

CERTIFICATIONS

- Listed to UL1598 and CSAC22.2#250.0-24 for wet locations
- IP65 rated housing
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 04/23/2020. See Buy American Solutions
- DLC® (DesignLights Consortium Qualified), with some Premium Qualified configurations. Please refer to the DLC website for specific product qualifications at www.designlights.org

WARRANTY

- 5 year limited warranty

KEY DATA	
Lumen Range	1,300–18,800
Wattage Range	10–155
Efficacy Range (LPW)	119–148
Weights lbs. (kg)	6.5/16.5 (2.9/7.5)

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RATIO WALL

RWL1/RWL2 LED WALLPACK

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

ORDERING GUIDE

Example: RWL1–48L-10–3K7–2–UNV–BLS–E

CATALOG #

ORDERING INFORMATION

Series		# LEDs - Wattage		CCT/CRI		Distribution		Voltage		Color	
RWL1	Ratio Wall 1	**48L-10**	1,000 Lumens[4]	**3K7**	3000K, 70 CRI	**2**	IES TYPE II[1]	**UNV**	120-277V	**BLT**	Black Matte Textured
		48L-15	2,000 Lumens[4]	**4K7**	4000K, 70 CRI	**3**	IES TYPE III	**120**	120V	**BLS**	Black Gloss Smooth
		48L-20	2,500 Lumens[4]	**5K7**	5000K, 70 CRI	**4F**	IES TYPE IV Forward	**208**	208V	**DBT**	Dark Bronze Matte Textured
		48L-25	3,500 Lumens			**4W**	IES TYPE IV	**240**	240V	**DBS**	Dark Bronze Gloss Smooth
		48L-35	4,500 Lumens					**277**	277V	**GTT**	Graphite Matte Textured
		48L-45	5,500 Lumens[4]					**347**	347V	**LGS**	Light Grey Gloss Smooth
RWL2	Ratio Wall 2	**160L-45**	6,500 Lumens					**480**	480V	**LGT**	Light Grey Matte Textured
		160L-50	7,500 Lumens							**PSS**	Platinum Silver Smooth
		160L-65	9,500 Lumens							**WHT**	White Matte Textured
		160L-80	11,000 Lumens							**WHS**	White Gloss Smooth
		160L-95	13,000 Lumens							**VGT**	Verde Green Textured
		160L-115	15,000 Lumens							**Color Option**	
		160L-135	17,500 Lumens							**CC**	Custom Color
		160L-155	19,500 Lumens								

Control Options Network	
NXWE	NX Wireless Enabled (module + radio)[4,7]
NXSPW_F	NX Wireless, PIR Occ. Sensor, Daylight Harvesting[4,5,7]
NXSP_F	NX, PIR Occ. Sensor, Daylight Harvesting[4,5,7]
WIR	Wireless Controls, wiSCAPE™ [2,6]
Stand Alone Sensors	
SCP-8F	Remote control programmable line voltage sensor[3,4]
SCP-20F	Remote control programmable line voltage sensor[3,4]
BTS-14F	Bluetooth® Programmable, PIR Occupancy/Daylight Sensor [10]
BTS-40F	Bluetooth® Programmable, PIR Occupancy/Daylight Sensor [10]
BTSO-12F	Bluetooth® Programmable, PIR Occupancy/Daylight Sensor, up to 12'mounting height [10]
Control Options	
7PR_	7-Pin Receptacle[6]

Options*	
F	Fusing[3]
E	Emergency Battery Backup[7,8,9]
EH	Emergency Battery w/ Heater Option[7,8]
2DR	Dual Driver[4,6,11]
2PF	Dual Power Feed[4,6,11]
PC	Button Photocontrol[8]

Notes:

1 Only available with RWL2

2 wiSCAPE Gateway required for system programming

3 Specific voltage selection is required

4 Not available with 347/480V

5 Replace "_" with "14" for up to 14' mounting height, "40" for up to 40' mounting height

6 This item is located in the integral backbox which will be automatically added onto the fixture if chosen.

7 This item is located in the integral backbox for RWL1 configurations only.

8 Option only available at 120 or 277V

9 2DR and 2PF can't be combined with E and EH due to space limitations

10 Not available in RWL1 or 2 PF

11 Available only in UNV in 25, 35 and 45 Watt in RWL1; Not available in RWL1 10, 15 and 20 Watt.

∗ Based on space limitations, some options may not be able to be combined

STOCK ORDERING INFORMATION

Catalog Number	Lumens	Wattage	LED Count	CCT/CRI	Voltage	Distribution	Finish
RWL1-48L-25-4K-3	3500lm	25	48L	4000K/70CRI	120-277V	Type III	Dark Bronze Textured
RWL1-48L-25-4K-4W	3500lm	25	48L	4000K/70CRI	120-277V	Type IV Wide	Dark Bronze Textured
RWL1-48L-45-4K-3	5500lm	45	48L	4000K/70CRI	120-277V	Type III	Dark Bronze Textured
RWL1-48L-45-4K-4W	5500lm	45	48L	4000K/70CRI	120-277V	Type IV Wide	Dark Bronze Textured

CONTROLS

Control Options	
Standalone	
SCPREMOTE	Order at least one per project location to program and control

ACCESSORIES AND REPLACEMENT PARTS - MADE TO ORDER

	Catalog Number	Description
☐	**WP-BB-XXX**	Accessory for conduit entry[1]

Notes:

1 replace "xxx" with color option

RATIO WALL

RWL1/RWL2 LED WALLPACK

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

PERFORMANCE DATA

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 70 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
RWL1	10	10.1	3	1362	135	0	0	1	1355	134	0	0	1	1303	129	0	0	1
			4W	1343	133	0	0	1	1336	132	0	0	1	1285	127	0	0	1
	15	14.5	3	1972	136	1	0	1	1962	135	1	0	1	1887	130	1	0	1
			4W	1945	134	0	0	1	1935	133	0	0	1	1861	128	0	0	1
	20	19.9	3	2722	137	1	0	1	2709	136	1	0	1	2605	131	1	0	1
			4W	2685	135	1	0	1	2672	134	1	0	1	2569	129	1	0	1
	25	28.0	3	3749	134	1	0	1	3732	133	1	0	1	3588	128	1	0	1
			4W	3698	132	1	0	1	3680	131	1	0	1	3538	126	1	0	1
	35	36.9	3	4751	129	1	0	2	4728	128	1	0	2	4546	123	1	0	1
			4W	4685	127	1	0	2	4663	126	1	0	2	4483	121	1	0	2
	45	46.5	3	5812	125	1	0	2	5784	124	1	0	2	5562	120	1	0	2
			4W	5731	123	1	0	2	5704	123	1	0	2	5485	118	1	0	2
RWL2	45	46.1	2	6701	145	1	0	2	6668	145	1	0	2	6412	139	1	0	2
			3	6812	148	1	0	2	6780	147	1	0	2	6519	141	1	0	2
			4W	6678	145	1	0	2	6646	144	1	0	2	6390	139	1	0	2
	50	54.0	2	7747	143	1	0	2	7710	143	1	0	2	7413	137	1	0	2
			3	7876	146	1	0	2	7838	145	1	0	2	7537	140	1	0	2
			4W	7720	143	1	0	2	7683	142	1	0	2	7388	137	1	0	2
	65	67.2	2	9539	142	1	0	2	9494	141	1	0	2	9129	136	1	0	2
			3	9699	144	2	0	2	9652	144	2	0	2	9281	138	2	0	2
			4W	9507	141	2	0	2	9461	141	2	0	2	9097	135	2	0	2
	80	80.8	2	11228	139	2	0	2	11174	138	2	0	2	10745	133	2	0	2
			3	11416	141	2	0	2	11361	141	2	0	2	10924	135	2	0	2
			4W	11190	138	2	0	2	11136	138	2	0	2	10708	133	2	0	2
	95	93.2	2	13148	141	2	0	2	13085	140	2	0	2	12582	135	2	0	2
			3	13368	143	2	0	2	13304	143	2	0	2	12792	137	2	0	2
			4W	13103	141	2	0	2	13040	140	2	0	2	12539	135	2	0	2
	115	109.8	2	15102	138	2	0	3	15030	137	2	0	3	14452	132	2	0	3
			3	15354	140	2	0	3	15281	139	2	0	3	14693	134	2	0	3
			4W	15050	137	2	0	3	14978	136	2	0	3	14402	131	2	0	3
	135	137.1	2	17533	128	2	0	3	17449	127	2	0	3	16778	122	2	0	3
			3	17826	130	2	0	3	17740	129	2	0	3	17058	124	2	0	3
			4W	17473	127	2	0	3	17389	127	2	0	3	16720	122	2	0	3
	155	156.8	2	19495	124	2	0	3	19402	124	2	0	3	18656	119	2	0	3
			3	19821	126	2	0	3	19726	126	2	0	3	18967	121	2	0	3
			4W	19542	125	2	0	3	19448	124	2	0	3	18700	119	2	0	3

RATIO WALL

RWL1/RWL2 LED WALLPACK

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

Ambient Temperature		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98
50°C	122°F	0.97

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

PROJECTED LUMEN MAINTENANCE

Ambient Temperature	OPERATING HOURS					
	0	25,000	TM-21-11 L90 36,000	50,000	100,000	L70 (Hours)
25°C / 77°F	1.00	0.97	0.96	0.95	0.91	408,000
40°C / 104°F	0.99	0.96	0.95	0.94	0.89	356,000

ELECTRICAL DATA

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
RWL1	10	120	0.08	10.1
		208	0.05	
		240	0.04	
		277	0.04	
		347	0.03	
		480	0.02	
	15	120	0.12	14.5
		208	0.07	
		240	0.06	
		277	0.05	
		347	0.04	
		480	0.03	
	20	120	0.17	19.9
		208	0.10	
		240	0.08	
		277	0.07	
		347	0.06	
		480	0.04	
	25	120	0.23	28.0
		208	0.13	
		240	0.12	
		277	0.10	
		347	0.08	
		480	0.06	
	35	120	0.31	36.9
		208	0.18	
		240	0.15	
		277	0.13	
		347	0.11	
		480	0.08	
	45	120	0.39	46.5
		208	0.22	
		240	0.19	
		277	0.17	
		347	0.13	
		480	0.10	

# OF LEDS	Nominal Wattage	Input Voltage	Oper. Current (Amps)	System Power (Watts)
RWL2	45	120	0.38	46.1
		208	0.22	
		240	0.19	
		277	0.17	
		347	0.13	
		480	0.10	
	50	120	0.45	54.0
		208	0.26	
		240	0.23	
		277	0.19	
		347	0.16	
		480	0.11	
	65	120	0.56	67.2
		208	0.32	
		240	0.28	
		277	0.24	
		347	0.19	
		480	0.14	
	80	120	0.67	80.8
		208	0.39	
		240	0.34	
		277	0.29	
		347	0.23	
		480	0.17	
	95	120	0.78	93.2
		208	0.45	
		240	0.39	
		277	0.34	
		347	0.27	
		480	0.19	
	115	120	0.92	109.8
		208	0.53	
		240	0.46	
		277	0.40	
		347	0.32	
		480	0.23	
	135	120	1.14	137.1
		208	0.66	
		240	0.57	
		277	0.49	
		347	0.40	
		480	0.29	
	155	120	1.31	156.8
		208	0.75	
		240	0.65	
		277	0.57	
		347	0.45	
		480	0.33	

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RATIO WALL

RWL1/RWL2 LED WALLPACK

DATE: LOCATION:

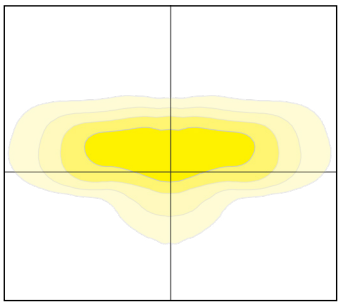
TYPE: PROJECT:

CATALOG #:

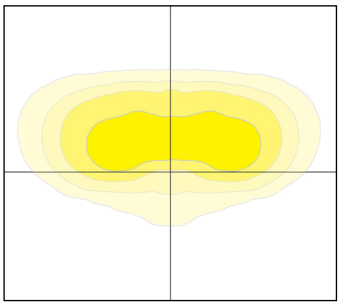
PHOTOMETRY

Mounting Height: 30ft

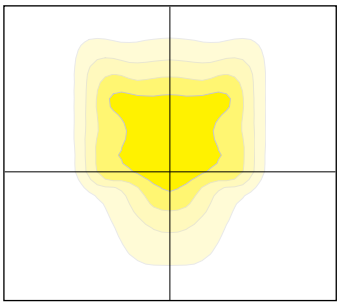
Type 2



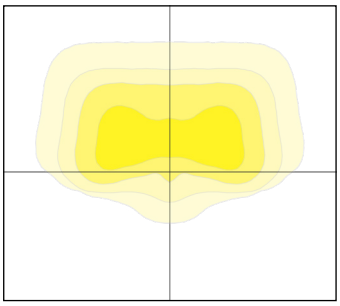
Type 3



Type 4F

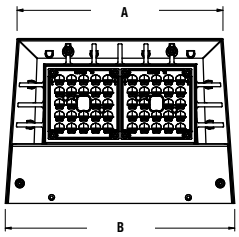


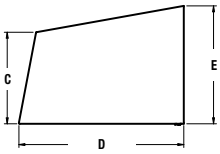
Type 4W



DIMENSIONS

RWL1

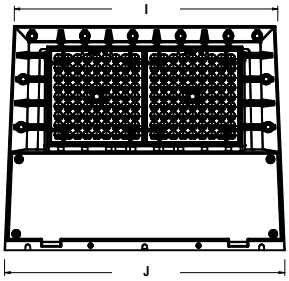


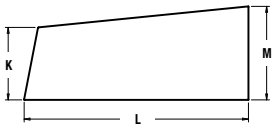


A	B	C	D	E
8.7"	9.7"	3.9"	7.0"	5.0"
221mm	246mm	99mm	178mm	127mm

Weight
6.5 lbs (2.95 kgs)

RWL2

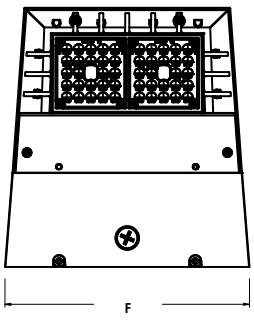


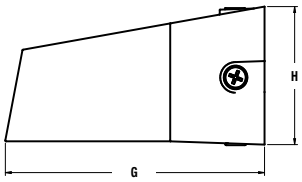


I	J	K	L	M
14.0"	15.0"	3.9"	12.0"	5.0"
356mm	381mm	99mm	305mm	127mm

Weight
16.5 lbs (7.48 kgs)

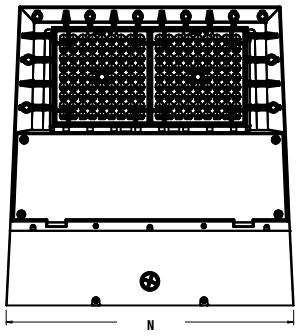
RWL1 with Integral Back Box

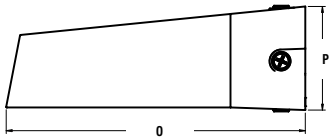




F	G	H
10.4"	11.0"	5.9"
264mm	279mm	150mm

RWL2 with Integral Back Box





N	O	P
15.4"	16.0"	5.5"
391mm	406mm	140mm

RATIO WALL

RWL1/RWL2 LED WALLPACK

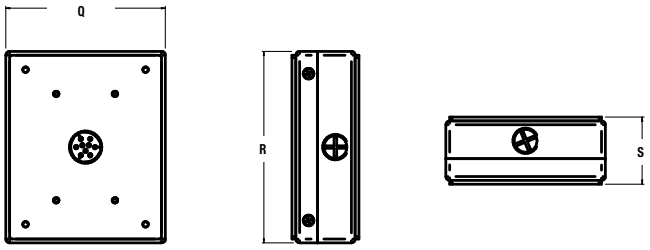
DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

DIMENSIONS (CONTINUED)

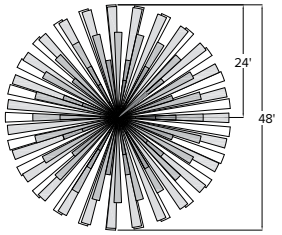
Back Box Accessory

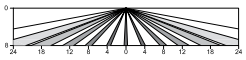


Q	R	S
4.9" 124mm	5.9" 150mm	2.1" 53mm

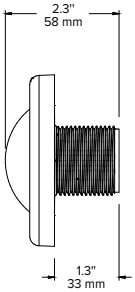
ADDITIONAL INFORMATION

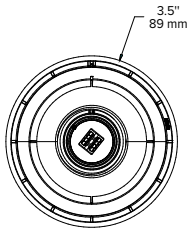
NXSP-14F



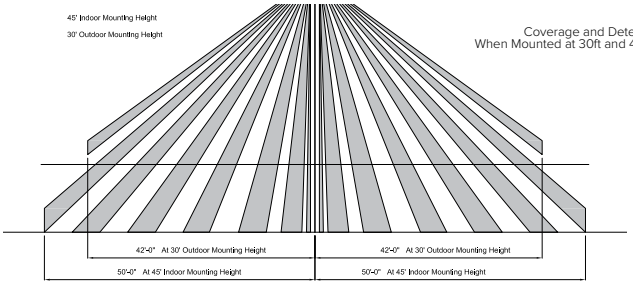


Sensor Lens Coverage and Detection Patterns
When Mounted at 8ft with Low Mount Lens

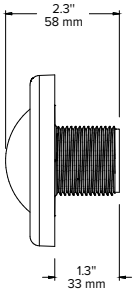


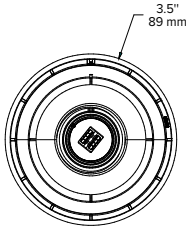


NXSP-40F

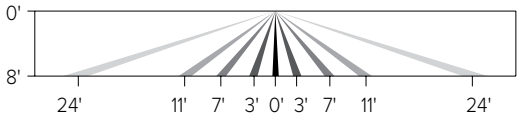


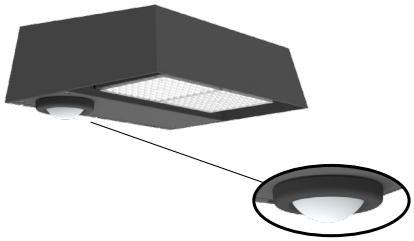
Coverage and Detection Patterns
When Mounted at 30ft and 45ft with Standard Lens

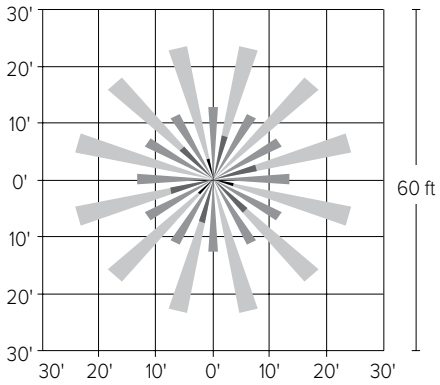


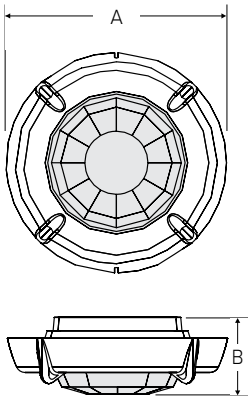


SCP-8F







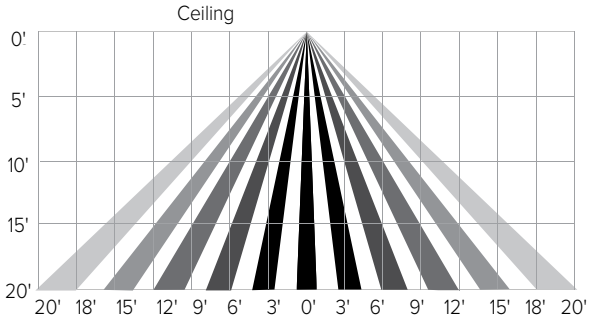


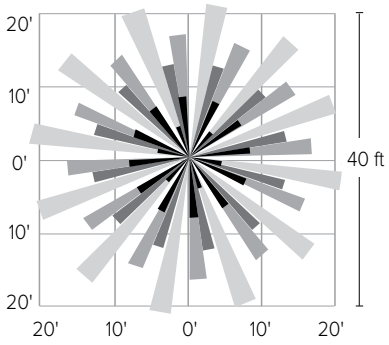
A	B
2.3" (59mm)	.8" (20mm)

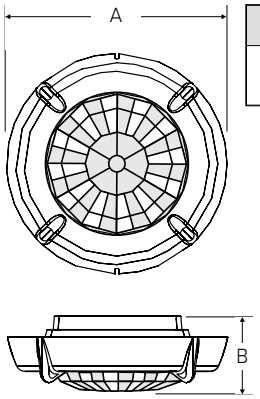
RATIO WALL

RWL1/RWL2 LED WALLPACK

SCP-20F







A	B
2.3" (59mm)	.8" (20mm)

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VIPER Area/Site

VIPER LUMINAIRE

DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #:

MICROSTRIKE | OPTICS STRIKE

FEATURES

- Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as auto dealership, retail, commercial, and campus parking lots
- Featuring two different optical technologies, Strike and Micro Strike Optics, which provide the best distribution patterns for retrofit or new construction
- Rated for high vibration applications including bridges and overpasses. All sizes are rated for 1.5G
- Control options including photo control, occupancy sensing, NX Lighting Controls™, wiSCAPE and 7-Pin with networked controls
- New customizable lumen output feature allows for the wattage and lumen output to be customized in the factory to meet whatever specification requirements may entail
- Field interchangeable mounting provides additional flexibility after the fixture has shipped

c UL us IP65 | BUY AMERICAN SOLUTIONS (See Certification Specifications) | DLC LISTED | DLC LISTED PREMIUM

CONTROL TECHNOLOGY

NX LIGHTING CONTROLS | wiSCAPE™

SPECIFICATIONS

CONSTRUCTION

- Die-cast housing with hidden vertical heat fins are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with 1000 hour powder coat paint finish
- External hardware is corrosion resistant

OPTICS

- Micro Strike Optics (160, 320, 480, or 720 LED counts) maximize uniformity in applications and come standard with mid-power LEDs which evenly illuminate the entire luminous surface area to provide a low glare appearance. Catalog logic found on page 2
- Strike Optics (36, 72, 108, or 162 LED counts) provide best in class distributions and maximum pole spacing in new applications with high powered LEDs. Strike optics are held in place with a polycarbonate bezel to mimic the appearance of the Micro Strike Optics so both solutions can be combined on the same application. Catalog logic found on page 3
- Both optics maximize target zone illumination with minimal losses at the house-side, reducing light trespass issues. Additional backlight control shields and house side shields can be added for further reduction of illumination behind the pole
- One-piece silicone gasket ensures a weatherproof seal
- Zero up-light at 0 degrees of tilt
- Field rotatable optics

INSTALLATION

- Mounting patterns for each arm can be found on page 11
- Optional universal mounting block for ease of installation during retrofit applications. Available as an option (ASQU) or accessory for square and round poles.

INSTALLATION (CONTINUED)

- All mounting hardware included
- Knuckle arm fitter option available for 2-3/8" OD tenon
- For products with EPA less than 1 mounted to a pole greater that 20ft, a vibration damper is recommended

ELECTRICAL

- Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz
- Ambient operating temperature -40˚C to 40˚C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 20kA protection meeting ANSI/IEEE C62.41.2 Category C High and Surge Location Category C3; Automatically takes fixture off-line for protection when device is compromised

CONTROLS

- Photo control, occupancy sensor programmable controls, and Zigbee wireless controls available for complete on/off and dimming control
- Please consult brand or sales representative when combining control and electrical options as some combinations may not operate as anticipated depending on your application
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
- 0- 10V Dimming Drivers are standard and dimming leads are extended out of the luminaire unless control options require connection to the dimming leads. Must specify if wiring leads are to be greater than the 6" standard

CONTROLS (CONTINUED)

- NX Lighting Controls™ available with in fixture wireless control module, features dimming and occupancy sensor
- wiSCAPE® available with in fixture wireless control module, features dimming and occupancy sensor. Also available in 7-pin configuration

CERTIFICATIONS

- DLC® (DesignLights Consortium Qualified), with both Premium and Standard Qualified configurations. Please refer to the DLC website for specific product qualifications at http://www.designlights.org
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40˚C ambient temperatures
- 1.5 G rated for ANSI C136.31 high vibration applications
- Fixture is IP65 rated
- Meets IDA recommendations using 3K CCT configuration at 0 degrees of tilt
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 04/23/2020.

WARRANTY

- 5 year warranty

KEY DATA	
Lumen Range	5,000–80,000
Wattage Range	36–600
Efficacy Range (LPW)	92–155
Weight lbs. (kg)	13.7-30.9 (6.2-13.9)

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DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #:

VIPER Area/Site

VIPER LUMINAIRE

MICROSTRIKE OPTICS – ORDERING GUIDE

Example: VP–2–320L-145–3K7–2–R–UNV–A3–BLT

CATALOG #

VP – | Series | Optic Platform | Size | Light Engine | – CCT/CRI | – Distribution | – Optic Rotation | – Voltage

Series	
VP	Viper

Optic Platform	
Micro Strike	

Size	
1	Size 1
2	Size 2
3	Size 3
4	Size 4

Light Engine	
160L-35 [6]	5500 lumens
160L-50 [6]	7500 lumens
160L-75	10000 lumens
160L-100	12500 lumens
160L-115	15000 lumens
160L-135	18000 lumens
160L-160	21000 lumens
320L-145	21000 lumens
320L-170	24000 lumens
320L-185	27000 lumens
320L-210	30000 lumens
320L-235	33000 lumens
320L-255	36000 lumens
320L-315 [6]	40000 lumens
480L-285	40000 lumens
480L-320	44000 lumens
480L-340	48000 lumens
480L-390	52000 lumens
480L-425	55000 lumens
480L-470	60000 lumens
720L-435	60000 lumens
720L-475	65000 lumens
720L-515	70000 lumens
720L-565 [6]	75000 lumens
720L-600 [6]	80000 lumens
CLO	Custom Lumen Output [1]

CCT/CRI	
AP	AP-Amber Phosphor Converted
27K8	2700K, 80 CRI
3K7	3000K, 70 CRI
3K8	3000K, 80 CRI
35K8	3500K, 80 CRI
3K9	3000K, 90 CRI
4K7	4000K, 70 CRI
4K8	4000K, 80 CRI
4K9	4000K, 90 CRI
5K7	5000K, 70 CRI
5K8	5000K, 80 CRI

Distribution	
2	Type 2
3	Type 3
4F	Type 4 Forward
4W	Type 4 Wide
5QW	Type 5 Square Wide

Optic Rotation	
BLANK	**No Rotation**
L	Optic rotation left
R	Optic rotation right

Voltage	
UNV	120-277V
120	120V
208	208V
240	240V
277	277V
347	347V
480	480V

– | Mounting | – Color | – Options | – Network Control Options

Mounting	
A	Arm mount for square pole/flat surface
A_	Arm mount for round pole [2]
ASQU	Universal arm mount for square pole
A_U	Universal arm mount for round pole [2]
AAU	Adjustable arm for pole mounting (universal drill pattern)
AA_U	Adjustable arm mount for round pole [2]
ADU	Decorative upswept Arm (universal drill pattern)
AD_U	Decorative upswept arm mount for round pole [2]
MAF	Mast arm fitter for 2-3/8" OD horizontal arm
K	Knuckle
T	Trunnion
WB	Wall Bracket, horizontal tenon with MAF
WM	Wall mount bracket with decorative upswept arm
WA	Wall mount bracket with adjustable arm

Color	
BLT	Black Matte Textured
BLS	Black Gloss Smooth
DBT	Dark Bronze Matte Textured
DBS	Dark Bronze Gloss Smooth
GTT	Graphite Matte Textured
LGS	Light Grey Gloss Smooth
LGT	Light Grey Gloss Textured
PSS	Platinum Silver Smooth
WHT	White Matte Textured
WHS	White Gloss Smooth
VGT	Verde Green Textured
Color Option	
CC	Custom Color

Options	
F	Fusing
2PF	Dual Power Feed
2DR	Dual Driver
TE	Tooless Entry
BC	Backlight Control
TB	Terminal Block

Network Control Options	
NXWS16F	NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,3,4]
NXWS40F	NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,3,4]
NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [3,4]
WIR	wiSCAPE® In-Fixture Module [3,4]
WIRSC	wiSCAPE® Module and Occupancy Sensor [3,4]
Stand Alone Sensors	
BTS-14F	Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
BTS-40F	Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
BTSO-12F	Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
7PR	7-Pin Receptacle [4]
7PR-SC	7-Pin Receptacle with shorting cap [4]
3PR	3-Pin twist lock [4]
3PR-SC	3-Pin receptacle with shorting cap [4]
3PR-TL	3-Pin PCR with photocontrol [4]
Programmed Controls	
ADD	AutoDim Timer Based Dimming [4]
ADT	AutoDim Time of Day Dimming [4]
Photocontrols	
PC	Button Photocontrol [4,7]

1 – Items with a grey background can be done as a custom order. Contact brand representative for more information
2 – Replace "_" with "2" for 2.5"-3.4" OD pole, "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
3 – Networked Controls cannot be combined with other control options
4 – Not available with 2PF option
5 – Not available with Dual Driver option
6 – Some voltage restrictions may apply when combined with controls
7 – Not available with 480V

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DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #:

VIPER Area/Site

VIPER LUMINAIRE

STRIKE OPTIC – ORDERING GUIDE

Example: VP–ST–1–36L-39–3K7–2–UNV–A–BLT

CATALOG #

VP –

Series	
VP	Viper

– | Optic Platform | |
|---|---|
| **ST** | Strike |

– | Size | |
|---|---|
| **1** | Size 1 |
| **2** | Size 2 |
| **3** | Size 3 |
| **4** | Size 4 |

– | Light Engine | |
|---|---|
| **36L-39** [8] | 5500 lumens |
| **36L-55** [8] | 7500 lumens |
| **36L-85** | 10000 lumens |
| **36L-105** | 12500 lumens |
| **36L-120** | 14000 lumens |
| **72L-115** | 15000 lumens |
| **72L-145** | 18000 lumens |
| **72L-180** | 21000 lumens |
| **72L-210** | 24000 lumens |
| **72L-240** | 27000 lumens |
| **108L-215** [8] | 27000 lumens |
| **108L-250** | 30000 lumens |
| **108L-280** | 33000 lumens |
| **108L-325** | 36000 lumens |
| **108L-365** | 40000 lumens |
| **162L-320** | 40000 lumens |
| **162L-365** [10] | 44000 lumens |
| **162L-405** | 48000 lumens |
| **162L-445** | 52000 lumens |
| **162L-485** | 55000 lumens |
| **162L-545** [8] | 60000 lumens |
| **CLO** | Custom Lumen Output [1] |

– | CCT/CRI | |
|---|---|
| **AM** | monochromatic amber, 595nm |
| **27K8** | 2700K, 80 CRI |
| **3K7** | 3000K, 70 CRI |
| **3K8** | 3000K, 80 CRI |
| **3K9** | 3000K, 90 CRI |
| **35K8** | 3500K, 80 CRI |
| **4K7** | 4000K, 70 CRI |
| **4K8** | 4000K, 80 CRI |
| **4K9** | 4000K, 90 CRI |
| **5K7** | 5000K, 70 CRI |
| **5K8** | 5000K, 80 CRI |

– | Distribution | |
|---|---|
| **FR** | Auto Front Row |
| **2** | Type 2 |
| **3** | Type 3 |
| **4F** | Type 4 Forward |
| **4W** | Type 4 Wide |
| **5QN** | Type 5 Square Narrow |
| **5QW** | Type 5 Square Wide |
| **5W** | Type 5 Wide (Round) |
| **5RW** | Type 5 Rectangular |
| **C** | Corner Optic |
| **TC** | Tennis Court Optic |

– | Optic Rotation | |
|---|---|
| **BLANK** | **No Rotation** |
| **L** | Optic rotation left |
| **R** | Optic rotation right |

– | Voltage | |
|---|---|
| **UNV** | 120-277V |
| **120** | 120V |
| **208** | 208V |
| **240** | 240V |
| **277** | 277V |
| **347** | 347V |
| **480** | 480V |

–

Mounting	
A	Arm mount for square pole/flat surface
A_	Arm mount for round pole [3]
ASQU	Universal arm mount for square pole
A_U	Universal arm mount for round pole [3]
AAU	Adjustable arm for pole mounting (universal drill pattern)
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ADU	Decorative upswept Arm (universal drill pattern)
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K	Knuckle
T	Trunnion
WB	Wall Bracket, horizontal tenon with MAF
WM	Wall mount bracket with decorative upswept arm
WA	Wall mount bracket with adjustable arm

–

Color	
BLT	Black Matte Textured
BLS	Black Gloss Smooth
DBT	Dark Bronze Matte Textured
DBS	Dark Bronze Gloss Smooth
GTT	Graphite Matte Textured
LGS	Light Grey Gloss Smooth
LGT	Light Grey Gloss Textured
PSS	Platinum Silver Smooth
WHT	White Matte Textured
WHS	White Gloss Smooth
VGT	Verde Green Textured

Color Option	
CC	Custom Color

–

Options	
F	Fusing
E	Battery Backup [1,2,7,8,9]
2PF	Dual Power Feed
2DR	Dual Driver
TE	Tooless Entry
BC	Backlight Control
TB	Terminal Block

–

Network Control Options	
NXWS16F	NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,3,4]
NXWS40F	NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,3,4]
NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [3,4]
WIR	wiSCAPE® In-Fixture Module [3,4]
WIRSC	wiSCAPE® Module and Occupancy Sensor [3,4]

Stand Alone Sensors	
BTS-14F	Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
BTS-40F	Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming® Photocell and 360° Lens
BTSO-12F	Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
7PR	7-Pin Receptacle [4]
7PR-SC	7-Pin Receptacle with shorting cap [4]
3PR	3-Pin twist lock [4]
3PR-SC	3-Pin receptacle with shorting cap [4]
3PR-TL	3-Pin PCR with photocontrol [4]

Programmed Controls	
ADD	AutoDim Timer Based Dimming [4]
ADT	AutoDim Time of Day Dimming [4]

Photocontrols	
PC	Button Photocontrol [4,7]

1 – Items with a grey background can be done as a custom order. Contact brand representative for more information
2 – Battery temperature rating -20C to 55C
3 – Replace "_" with "2" for 2.5"-3.4" OD pole, "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
4 – Networked Controls cannot be combined with other control options
5 – Not available with 2PF option
6 – Not available with 480V
7 – Not available with 347 or 480V
8 – Not available with Dual Driver option
9 – Only available in Size 1 housing
10 – Some voltage restrictions may apply when combined with controls

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VIPER Area/Site

VIPER LUMINAIRE

ORDERING GUIDE (CONTINUED)

CATALOG #

Accessory Type		Size		Option		Color	
SHD	Shield	**1**	Size 1	**HSS-90-B**	House Side Shield 90° Back	**BLS**	Black Gloss Smooth
		2	Size 2	**HSS-90-F**	House Side Shield 90° Front	**BLT**	Black Matte Textured
		3	Size 3	**HSS-90-S**	House Side Shield 90° Side	**DBS**	Dark Bronze Gloss Smooth
		4	Size 4	**HSS-270-BSS**	House Side Shield 270° Back/Side/Side	**DBT**	Dark Bronze Matte Textured
				HSS-270-FSS	House Side Shield 270° Front/Side/Side	**GTT**	Graphite Matte Textured
				HSS-270-FSB	House Side Shield 270° Front/Side/Back	**LGS**	Light Gray Gloss Smooth
				HSS-360	House Side Shield 360°	**PSS**	Platinum Silver Smooth
				BC	Back Light Control	**WHS**	White Gloss Smooth
MTG	Mounting			**A**	Arm Mount for square pole/flat surface	**WHT**	White Matte Textured
				ASQU	Universal Arm Mount for square pole	**VGT**	Green Landscape Decorative
				AAU	Adjustable Arm for pole mounting	**LEG**	Legacy Colors
				ADU	Decorative upswept Arm	**Color Option**	
				RPA	Round Pole Adapter	**CC**	Custom Color
				MAF	Mast Arm Fitter for 2-3/8" OD horizontal arm		
				K	Knuckle		
				T	Trunnion		
				WB	Wall Bracket (compatible with universal arm mounts)		

Accessory Type		Option	
MSC	Miscellaneous	**BIRD SPK**	Bird Spike

Current Control Solutions — Accessories (Sold Separately)

NX Lighting Controls

☐ **NXOFM-1R1D-UNV** — On-fixture Module (7-pin), On / Off / Dim, Daylight Sensor with NX Radio and Bluetooth® Radio, 120–480VAC

wiSCAPE® Lighting Control

☐ **WIR-RME-L** — On-fixture Module (7-pin or 5-pin), On / Off / Dim, Daylight Sensor with wiSCAPE Radio, 110–480VAC

☐ **SCP-REMOTE** — Remote Control for SCP/_F option. Order at least one per project to program and control the occupancy sensor

For additional information related to these accessories please visit currentlighting.com/beacon. Options provided for use with integrated sensor, please view specification sheet ordering information table for details.

CONTROLS

wiSCAPE™ NX LIGHTING CONTROLS™

Control Option	Sensor	Networkable	Scheduling	Occupancy	Daylight Harvesting	On/Off Control	Programming	Pair with Sensor	Sensor Mounting Height
NXW	–	✔	✔	–	–	✔	✔	–	–
NXWS_F	NXSMP2	✔	✔	✔	✔	✔	✔	–	16ft, 40ft
BTSO12F	BTSMP-OMNI-O	–	–	✔	✔	✔	Bluetooth	–	12ft
BTS_F	BTSMP	–	–	✔	✔	✔	Bluetooth	–	14ft, 40ft
ADD	–	–	✔	–	–	✔	–	✔	–
ADT	–	–	✔	–	–	✔	–	✔	–
7PR	–	Paired with external control	Paired with external control	–	Paired with external control	Paired with external control	–	✔	–
7PR-SC	–	–	–	–	–	–	–	✔	–
3PR	–	–	–	–	–	Paired with external control	–	✔	–
3PR-SC	–	–	–	–	–	–	–	✔	–
3PR-TL	–	–	–	–	✔	✔	–	✔	–
WIR	–	✔	✔	–	✔	✔	Gateway	–	–
WIRSC	BTSMP	✔	✔	✔	✔	✔	Gateway	–	14ft, 40ft

DATE: LOCATION:

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VIPER Area/Site

VIPER LUMINAIRE

DELIVERED LUMENS

For delivered lumens, please see Lumens Data PDF on www.Currentlighting.com

PROJECTED LUMEN MAINTENANCE

Ambient Temp.	0	25,000	*TM-21-11 36,000	50,000	100,000	Calculated L_{70} (Hours)
25°C / 77°F	1.00	0.97	0.96	0.95	0.91	408,000
40°C / 104°F	0.99	0.96	0.95	0.94	0.89	356,000

LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

Ambient Temperature		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98

Micro Strike Lumen Multiplier			
CCT	70 CRI	80 CRI	90 CRI
2700K	–	0.841	–
3000K	0.977	0.861	0.647
3500K	–	0.900	–
4000K	1	0.926	0.699
5000K	1	0.937	0.791
Monochromatic Amber Multiplier			
Amber	0.250		

Strike Lumen Multiplier			
CCT	70 CRI	80 CRI	90 CRI
2700K	–	0.859	–
3000K	0.941	0.912	0.703
3500K	–	0.906	–
4000K	1	0.894	0.734
5000K	1	0.879	0.711
Monochromatic Amber Multiplier			
Amber	0.255		

VIPER Area/Site

VIPER LUMINAIRE

DATE: | LOCATION:

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ELECTRICAL DATA: MICRO STRIKE

# OF LEDS	160						
NOMINAL WATTAGE	35	50	75	100	115	135	160
SYSTEM POWER (W)	34.9	50.5	72.1	97.2	111.9	132.2	157.8
INPUT VOLTAGE (V)	CURRENT (Amps)						
120	0.29	0.42	0.63	0.83	0.96	1.13	1.33
208	0.17	0.24	0.36	0.48	0.55	0.65	0.77
240	0.15	0.21	0.31	0.42	0.48	0.56	0.67
277	0.13	0.18	0.27	0.36	0.42	0.49	0.58
347	0.10	0.14	0.22	0.29	0.33	0.39	0.46
480	0.07	0.10	0.16	0.21	0.24	0.28	0.33

# OF LEDS	320						
NOMINAL WATTAGE	145	170	185	210	235	255	315
SYSTEM POWER (W)	150	166.8	185.7	216.2	240.9	261.5	312
INPUT VOLTAGE (V)	CURRENT (Amps)						
120	1.21	1.42	1.54	1.75	1.96	2.13	2.63
208	0.70	0.82	0.89	1.01	1.13	1.23	1.51
240	0.60	0.71	0.77	0.88	0.98	1.06	1.31
277	0.52	0.61	0.67	0.76	0.85	0.92	1.14
347	0.42	0.49	0.53	0.61	0.68	0.73	0.91
480	0.30	0.35	0.39	0.44	0.49	0.53	0.66

# OF LEDS	480					
NOMINAL WATTAGE	285	320	340	390	425	470
SYSTEM POWER (W)	286.2	316.7	338.4	392.2	423.2	468
INPUT VOLTAGE (V)	CURRENT (Amps)					
120	2.38	2.67	2.83	3.25	3.54	3.92
208	1.37	1.54	1.63	1.88	2.04	2.26
240	1.19	1.33	1.42	1.63	1.77	1.96
277	1.03	1.16	1.23	1.41	1.53	1.70
347	0.82	0.92	0.98	1.12	1.22	1.35
480	0.59	0.67	0.71	0.81	0.89	0.98

# OF LEDS	720				
NOMINAL WATTAGE	435	475	515	565	600
SYSTEM POWER (W)	429.3	475	519.1	565.2	599.9
INPUT VOLTAGE (V)	CURRENT (Amps)				
120	3.63	3.96	4.29	4.71	5.00
208	2.09	2.28	2.48	2.72	2.88
240	1.81	1.98	2.15	2.35	2.50
277	1.57	1.71	1.86	2.04	2.17
347	1.25	1.37	1.48	1.63	1.73
480	0.91	0.99	1.07	1.18	1.25

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VIPER LUMINAIRE

ELECTRICAL DATA: STRIKE

# OF LEDS	36				
NOMINAL WATTAGE	39	55	85	105	120
SYSTEM POWER (W)	39.6	56.8	83.6	108.2	120.9
INPUT VOLTAGE (V)	CURRENT (Amps)				
120	0.33	0.46	0.71	0.88	0.96
208	0.19	0.26	0.41	0.50	0.55
240	0.16	0.23	0.35	0.44	0.48
277	0.14	0.20	0.31	0.38	0.42
347	0.11	0.16	0.24	0.30	0.33
480	0.08	0.11	0.18	0.22	0.24

# OF LEDS	72				
NOMINAL WATTAGE	115	145	180	210	240
SYSTEM POWER (W)	113.7	143.2	179.4	210.2	241.7
INPUT VOLTAGE (V)	CURRENT (Amps)				
120	1.00	1.21	1.50	1.75	1.79
208	0.58	0.70	0.87	1.01	1.03
240	0.50	0.60	0.75	0.88	0.90
277	0.43	0.52	0.65	0.76	0.78
347	0.35	0.42	0.52	0.61	0.62
480	0.25	0.30	0.38	0.44	0.45

# OF LEDS	108				
NOMINAL WATTAGE	215	250	280	325	365
SYSTEM POWER (W)	214.8	250.8	278.3	324.7	362.6
INPUT VOLTAGE (V)	CURRENT (Amps)				
120	2.00	2.08	2.33	3.04	2.67
208	1.15	1.20	1.35	1.75	1.54
240	1.00	1.04	1.17	1.52	1.33
277	0.87	0.90	1.01	1.32	1.16
347	0.69	0.72	0.81	1.05	0.92
480	0.50	0.52	0.58	0.76	0.67

# OF LEDS		162				
NOMINAL WATTAGE	320	365	405	445	485	545
SYSTEM POWER (W)	322.1	362.6	403.6	445.1	487.1	543.9
INPUT VOLTAGE (V)		CURRENT (Amps)				
120	2.71	2.67	3.38	3.71	4.04	4.54
208	1.56	1.54	1.95	2.14	2.33	2.62
240	1.35	1.33	1.69	1.85	2.02	2.27
277	1.17	1.16	1.46	1.61	1.75	1.97
347	0.94	0.92	1.17	1.28	1.40	1.57
480	0.68	0.67	0.84	0.93	1.01	1.14

VIPER Area/Site

VIPER LUMINAIRE

DATE: LOCATION:

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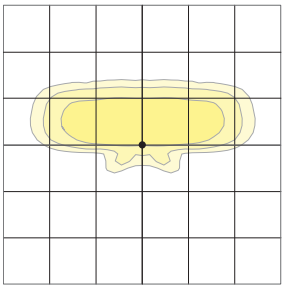
CATALOG #:

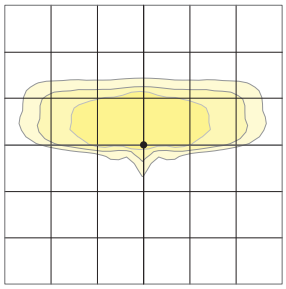
MICRO STRIKE PHOTOMETRY

The following diagrams represent the general distribution options offered for this product. For detailed information on specific product configurations, see website photometric test reports.

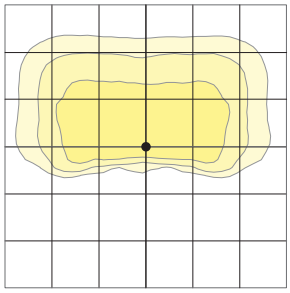
Type 2



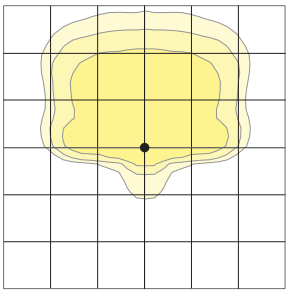
Type 3



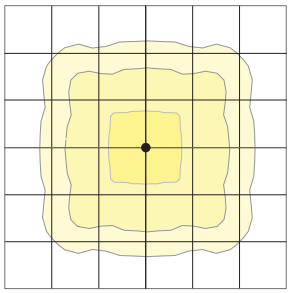
Type 4 Wide



Type 4F



Type 5QW



DATE: LOCATION:

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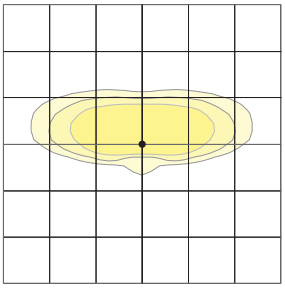
VIPER LUMINAIRE

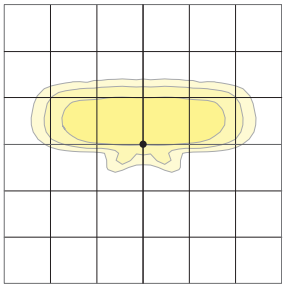
OPTIC STRIKE PHOTOMETRY

The following diagrams represent the general distribution options offered for this product. For detailed information on specific product configurations, see website photometric test reports.

Type FR – Front Row/Auto Optic



Type 2



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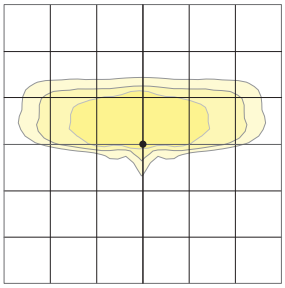
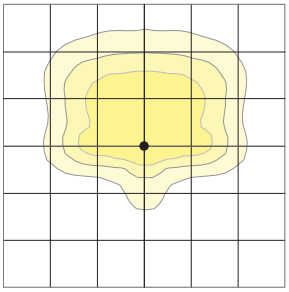
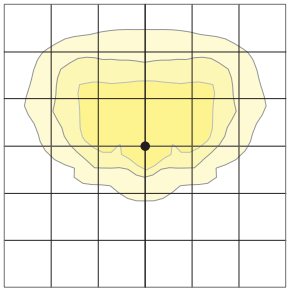


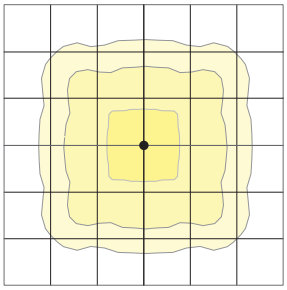
Type 4 Forward



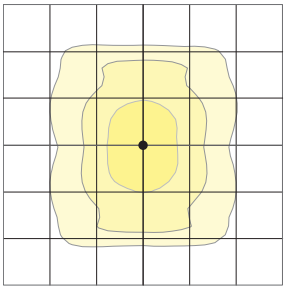
Type 4 Wide



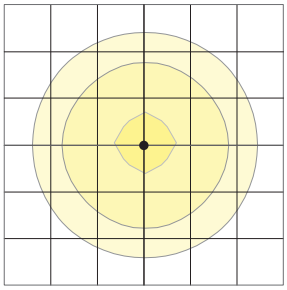
Type 5QM



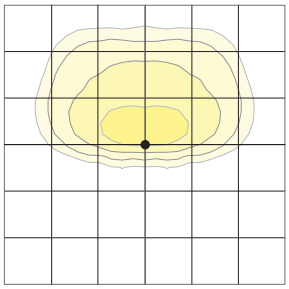
Type 5R (rectangular)



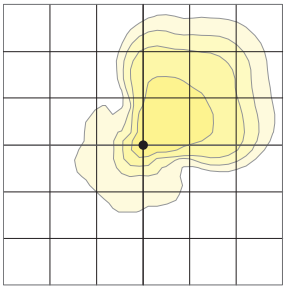
Type 5W (round wide)



Type TC



Type Corner



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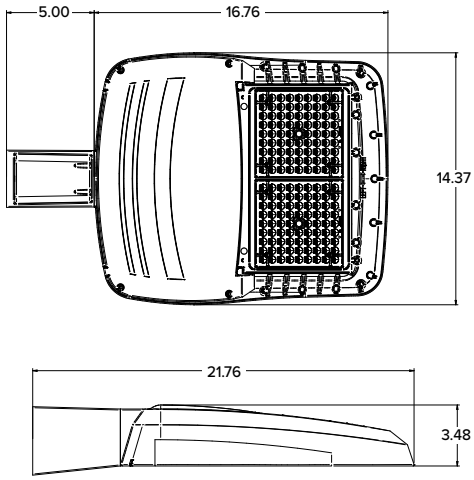
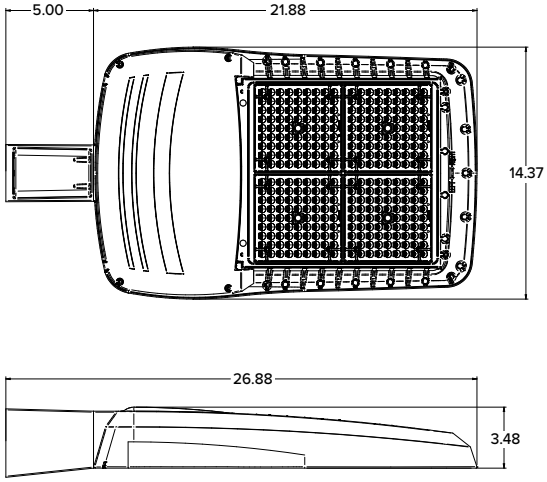
DIMENSIONS

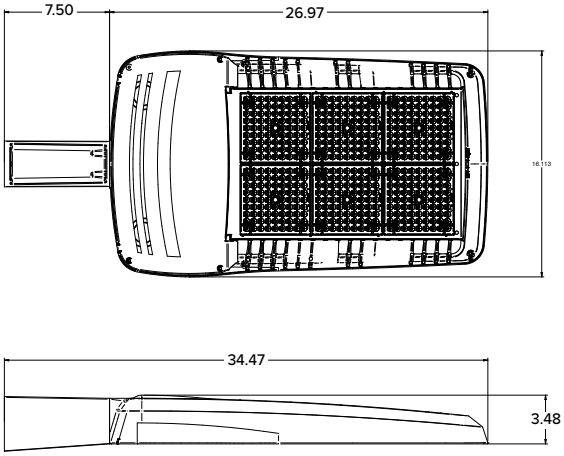
SIZE 1



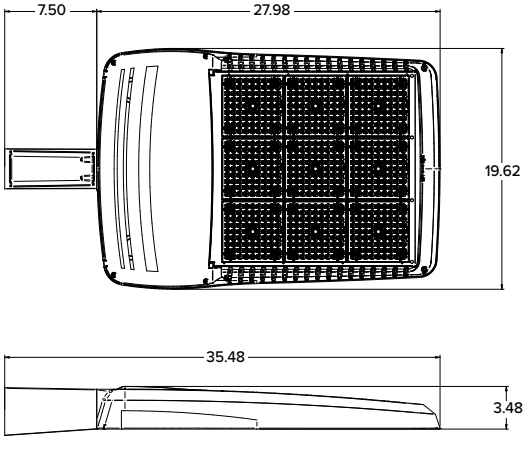
SIZE 2



SIZE 3



SIZE 4



	EPA				
	VP1 (Size 1)	VP2 (Size 2)	VP3 (Size 3)	VP4 (Size 4)	Config.
Single Fixture	0.454	0.555	0.655	0.698	
Two at 180	0.908	1.110	1.310	1.396	
Two at 90	0.583	0.711	0.857	0.948	
Three at 90	1.037	1.266	1.512	1.646	
Three at 120	0.943	1.155	1.392	1.680	
Four at 90	1.166	1.422	1.714	1.896	

	Weight	
	lbs	kgs
VP1 (Size 1)	13.7	6.2
VP2 (Size 2)	16.0	7.26
VP3 (Size 3)	25.9	11.7
VP4 (Size 4)	30.8	13.9

DATE: LOCATION:

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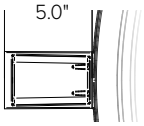
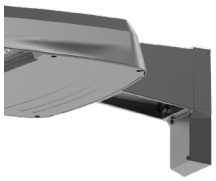
VIPER LUMINAIRE

MOUNTING

A–STRAIGHT ARM MOUNT

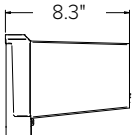
Fixture ships with integral arm for ease of installation. Compatible with Current Outdoor B3 drill pattern. For round poles add applicable suffix (2/3/4/5)

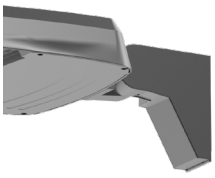




ASQU–UNIVERSAL ARM MOUNT

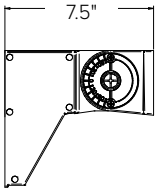
Universal mounting block for ease of installation. Compatible with drill patterns from 2.5" to 4.5" and Current drill pattern S2. For round poles add applicable suffix (2/3/4/5)

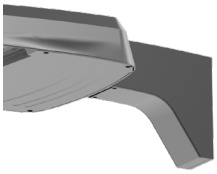




AAU–ADJUSTABLE ARM FOR POLE MOUNTING

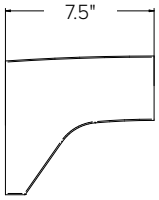
Rotatable arm mounts directly to pole. Compatible with drill patterns from 2.5" to 4.5" and Current drill pattern S2. For round poles add applicable suffix (2/3/4/5). Rotatable in 15˚ aiming angle increments. Micro Strike configurations have a 45° aiming limitation.
Strike configurations have a 30° aiming limitation.

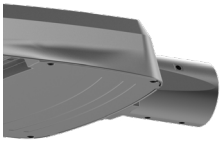




ADU–DECORATIVE UPSWEPT ARM

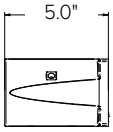
Upswept Arm compatible with drill patterns from 2.5" to 4.5". For round poles add applicable suffix (2/3/4/5).

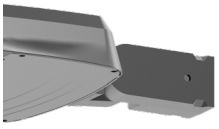




MAF–MAST ARM FITTER

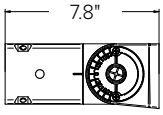
Fits 2-3/8" OD horizontal tenons.

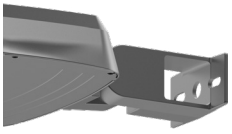




K–KNUCKLE

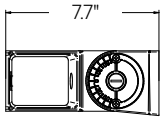
Knuckle mount 15˚ aiming angle increments for precise aiming and control, fits 2-3/8" tenons or pipes. Micro Strike configurations have a 45° aiming limitation. Strike configurations have a 30° aiming limitation.

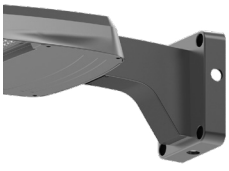




T–TRUNNION

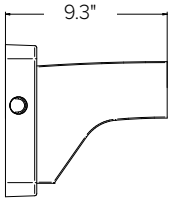
Trunnion for surface and crossarm mounting using (1) 3/4" or (2) 1/2" size through bolts. Micro Strike configurations have a 45° aiming limitation. Strike configurations have a 30° aiming limitation.





WM–WALL MOUNT

Compatible with universal arm mount, adjustable arm mount, and decorative arm mount. The WA option uses the same wall bracket but replaces the decorative arm with an adjustable arm.



DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

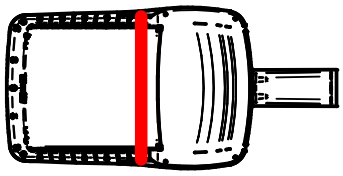
VIPER Area/Site

VIPER LUMINAIRE

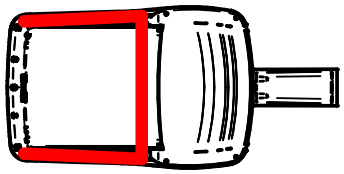
ADDITIONAL INFORMATION (CONTINUED)

HOUSE SIDE SHIELD FIELD INSTALL ACCESSORIES

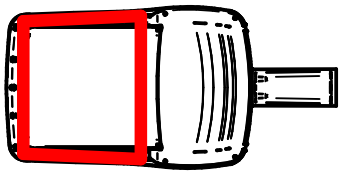
VPR2x HSS-90-B-xx



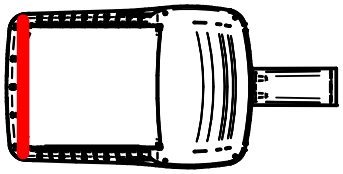
VPR2x HSS-270-BSS-xx



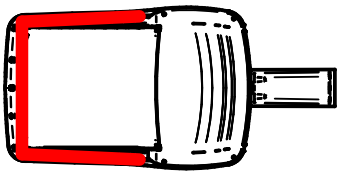
VPR2x HSS-360-xx



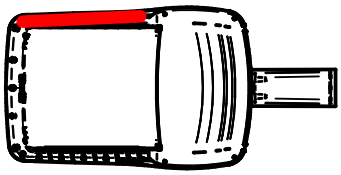
VPR2x HSS-90-F-xx



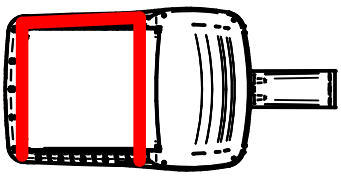
VPR2x HSS-270-FSS-xx



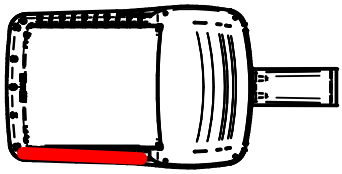
VPR2x HSS-90-S-xx



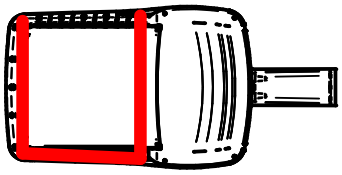
VPR2x HSS-270-FSB-xx



VPR2x HSS-90-S-xx



VPR2x HSS-270-FSB-xx



VIPER Area/Site

VIPER LUMINAIRE

ADDITIONAL INFORMATION (CONTINUED)

PROGRAMMED CONTROLS

ADD-AutoDim Timer Based Options

- Light delay options from 1-9 hours after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1-9 hours after the light has been dimmed previously.

EX: ADD-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	1-9 Hours	6 - Delay 6 hours
Auto-Dim Brightness	10-100% Brightness	5 - Dim to 50% brightness
Auto-Dim Return	Delay 0-9 Hours	R6 - Return to full output after 6 hours

ADT-AutoDim Time of Day Based Option

- Light delay options from 1AM-9PM after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1AM-9PM after the light has been dimmed previously.

EX: ADT-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	12-3 AM and 6-11 PM	6 - Dim at 6PM
Auto-Dim Brightness	10-100% Brightness	5 - Dim to 50%
Auto-Dim Return	12-6 AM and 9-11P	R6 - Return to full output at 6AM

PROGRESS LIGHTING™

DATE: TYPE:

NAME:

PROJECT:

Diameter: 9-3/8”
Height: 14-1/16”
Overall Ht. W/Chain: 53”

Incandescent

P5582-31

Welbourne

The Welbourne collection features hexagonal framework and clear beveled glass panels. Cast aluminum construction with durable powder coat finish. One-light hanging lantern.

- Hexagonal framework.
- Vine inspired scrolls.
- Clear beveled glass panels.

Category: Outdoor

Finish: Textured Black (painted)

Construction: Die-cast aluminum construction

Glass/Shade: Clear Beveled glass panels

MOUNTING	ELECTRICAL	LAMPING	ADDITIONAL INFORMATION
Ceiling chain mounted Mounting strap for outlet box included Three feet of 9 gauge chain supplied Canopy covers a standard 4” octagonal recessed outlet box 4.5” W.	Pre-wired 10 feet of wire supplied 120 V	Quantity: One 100w max. Medium Base E26 base porcelain socket	UL-CUL Damp location listed 1 year warranty

BEACON
design . performance . technology

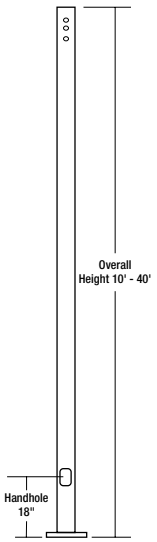
DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #:

SSS-B Series Poles

SQUARE STRAIGHT STEEL



APPLICATIONS

- Lighting installations for side and top mounting of luminaires with effective projected area (EPA) not exceeding maximum allowable loading of the specified pole in its installed geographic location

CONSTRUCTION

- SHAFT: One-piece straight steel with square cross section, flat sides and minimum 0.23" radius on all corners; Minimum yield of 46,000 psi (ASTM-A500, Grade B); Longitudinal weld seam to appear flush with shaft side wall; Steel base plate with axial bolt circle slots welded flush to pole shaft having minimum yield of 36,000 psi (ASTM A36)
- BASE COVER: Two-piece square aluminum base cover included standard
- POLE CAP: Pole shaft supplied with removable cover when applicable; Tenon and post-top configurations also available
- HAND HOLE: Rectangular 3x5 steel hand hole frame (2.38" x 4.38" opening); Mounting provisions for grounding lug located behind gasketed cover
- ANCHOR BOLTS: Four galvanized anchor bolts provided per pole with minimum yield of 55,000 psi (ASTM F1554). Galvanized hardware with two washers and two nuts per bolt for leveling

  Anchor bolt part numbers: 3/4 x 30 x 3 — TAB-30-M38

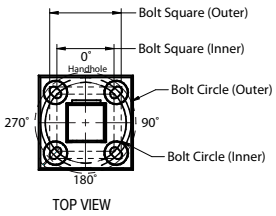
  1 x 36 x 4 — TAB-36-M38

FINISH

- Durable thermoset polyester powder coat paint finish with nominal 3.0 mil thickness
- Powder paint prime applied over “white metal” steel substrate cleaned via mechanical shot blast method
- Decorative finish coat available in multiple standard colors; Custom colors available; RAL number preferable

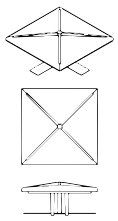
WAREHOUSE ‘STOCKED’ POLES:

- SSSH20-40A-4-HV-DB-RDC, SSSH25-40A-4-HV-DB-RDC and SSSH30-50B-4-HV-DB-RDC
- The HV designation in the above catalog numbers is a combination drill pattern of the Current S2 pattern and the Beacon B3/B4 Viper pattern (rectangular arm mounting)

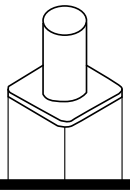


TOP VIEW

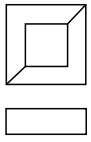
POLE CAP



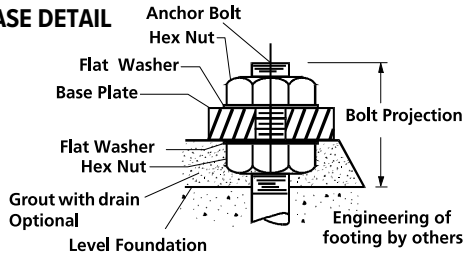
TENON



BASE COVER



BASE DETAIL



ORDERING INFORMATION

ORDERING EXAMPLE:

Reference page 2 for available configurations

SSS -B - 25 - 40 - A/B/C - 2L - B3 - BLT - UL

SERIES	HEIGHT	SHAFT	THICKNESS
SSS-B Square Straight Steel Pole Beacon	Reference page 2 Ordering matrix	Reference page 2 Ordering matrix	Reference page 2 Ordering matrix

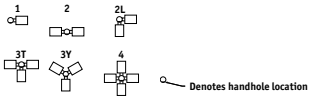
MOUNTING	
1	Single arm mount
2	Two fixtures at 180˚
2L	Two fixtures at 90˚
3T	Three fixtures at 90˚
4	Four fixtures at 90˚
TA	Tenon (2.38” OD x 4” Tall)
TB	Tenon (2.88” OD x 4” Tall)
TC	Tenon (3.5” OD x 6” Tall)
TR[1]	Removable Tenon (2.375 x 4.25)
OT	Open Top (includes pole cap)

FINISH	
BLT	Black Matte Textured
BLS	Black Gloss Smooth
DBT	Dark Bronze Matte Textured
DBS	Dark Bronze Gloss Smooth
GTT	Graphite Matte Textured
LGS	Light Grey Gloss Smooth
PSS	Platinum Silver Smooth
WHT	White Matte Textured
WHS	White Gloss Smooth
VGT	Verde Green Textured
Color Option	
CC	Custom Color

OPTIONS	
GFI[2]	20 Amp GFCI Receptacle and Cover
EHH[2]	Extra Handhole
C05[2]	.5” Coupling
C07[2]	.75” Coupling
C20[2]	2” Coupling
MPB[2]	Mid-pole Luminaire Bracket
VM2	2nd mode vibration damper
LAB	Less Anchor Bolts
UL	UL Certified

DRILL PATTERN	
B1	Cruzer, “AM” arm
B3	2 bolt (2-½” spacing), Viper “A” arm
S2	2 bolt (3-½” spacing), Viper “AD” arm

MOUNTING ORIENTATION



1 Removable tenon used in conjunction with side arm mounting. First specify desired arm configuration followed by the **“TR”** notation. Example: **SSS-B-25-40-A-1-B1-TR-BBT**

2 Specify option location using logic found on page 2 **(Option Orientation)**

3 VM1 recommended on poles 20' and taller with EPA of less than 1.

ACCESSORIES - Order Separately

Catalog Number	Description
VM1[3]	1st mode vibration damper
VM2SXX	2nd mode vibration damper

DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #:

SSS-B Series Poles

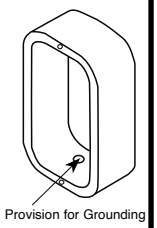
SQUARE STRAIGHT STEEL

ORDERING INFORMATION Cont.

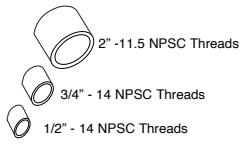
Catalog Number	Height		Nominal Shaft Dimensions	Wall Thickness	Bolt Circle (suggested)	Bolt Circle (range)	Bolt Square (range)	Base Plate Square	Anchor bolt size	Bolt Projection	Pole weight
	Feet	Meters									
SSS-B-10-40-A-XX-XX	10	3.0	4" square	0.125"	9"	8" - 10"	5.66" - 7.07"	9"	3/4" x 30" x 3"	3.5	77
SSS-B-12-40-A-XX-XX	12	3.7	4" square	0.125"	9"	8" - 10"	5.66" - 7.07"	9"	3/4" x 30" x 3"	3.5	90
SSS-B-14-40-A-XX-XX	14	4.3	4" square	0.125"	9"	8" - 10"	5.66" - 7.07"	9"	3/4" x 30" x 3"	3.5	103
SSS-B-16-40-A-XX-XX	16	4.9	4" square	0.125"	9"	8" - 10"	5.66" - 7.07"	9"	3/4" x 30" x 3"	3.5	116
SSS-B-18-40-A-XX-XX	18	5.5	4" square	0.125"	9"	8" - 10"	5.66" - 7.07"	9"	3/4" x 30" x 3"	3.5	129
SSS-B-20-40-A-XX-XX	20	6.1	4" square	0.125"	9"	8" - 10"	5.66" - 7.07"	9"	3/4" x 30" x 3"	3.5	142
SSS-B-25-40-A-XX-XX	25	7.6	4" square	0.125"	9"	8" - 10"	5.66" - 7.07"	9"	3/4" x 30" x 3"	3.5	175
SSS-B-14-40-B-XX-XX	14	4.3	4" square	.188"	11"	10" - 12"	7.07" - 8.48"	10.50"	3/4" x 30" x 3"	3.5	152
SSS-B-16-40-B-XX-XX	16	4.9	4" square	.188"	11"	10" - 12"	7.07" - 8.48"	10.50"	3/4" x 30" x 3"	3.5	171
SSS-B-18-40-B-XX-XX	18	5.5	4" square	.188"	11"	10" - 12"	7.07" - 8.48"	10.50"	3/4" x 30" x 3"	3.5	190
SSS-B-20-40-B-XX-XX	20	6.1	4" square	.188"	11"	10" - 12"	7.07" - 8.48"	10.50"	3/4" x 30" x 3"	3.5	209
SSS-B-25-40-B-XX-XX	25	7.6	4" square	.188"	11"	10" - 12"	7.07" - 8.48"	10.50"	3/4" x 30" x 3"	3.5	257
SSS-B-30-40-B-XX-XX	30	9.1	4" square	.188"	11"	10" - 12"	7.07" - 8.48"	10.50"	3/4" x 30" x 3"	3.5	304
SSS-B-16-50-B-XX-XX	16	4.9	5" square	.188"	11"	10.25" - 13.25"	7.25" - 9.37"	11.50"	1" x 36" x 4"	4.5	219
SSS-B-18-50-B-XX-XX	18	5.5	5" square	.188"	11"	10.25" - 13.25"	7.25" - 9.37"	11.50"	1" x 36" x 4"	4.5	243
SSS-B-20-50-B-XX-XX	20	6.1	5" square	.188"	11"	10.25" - 13.25"	7.25" - 9.37"	11.50"	1" x 36" x 4"	4.5	267
SSS-B-25-50-B-XX-XX	25	7.6	5" square	.188"	11"	10.25" - 13.25"	7.25" - 9.37"	11.50"	1" x 36" x 4"	4.5	327
SSS-B-30-50-B-XX-XX	30	9.1	5" square	.188"	11"	10.25" - 13.25"	7.25" - 9.37"	11.50"	1" x 36" x 4"	4.5	387
SSS-B-25-50-C-XX-XX	25	7.6	5" square	.25"	11"	10.25" - 13.25"	7.25" - 9.37"	11.50"	1" x 36" x 4"	4.5	427
SSS-B-30-50-C-XX-XX	30	9.1	5" square	.25"	11"	10.25" - 13.25"	7.25" - 9.37"	11.50"	1" x 36" x 4"	4.5	507
SSS-B-20-60-B-XX-XX	20	6.1	6" square	.188"	12"	11.00" - 13.25"	7.81" - 9.37"	12.25"	1" x 36" x 6"	4.5	329
SSS-B-25-60-B-XX-XX	25	7.6	6" square	.188"	12"	11.00" - 13.25"	7.81" - 9.37"	12.25"	1" x 36" x 6"	4.5	404
SSS-B-30-60-B-XX-XX	30	9.1	6" square	.188"	12"	11.00" - 13.25"	7.81" - 9.37"	12.25"	1" x 36" x 6"	4.5	479
SSS-B-35-60-B-XX-XX	35	10.7	6" square	.188"	12"	11.00" - 13.25"	7.81" - 9.37"	12.25"	1" x 36" x 6"	4.5	554
SSS-B-40-60-B-XX-XX	40	12.2	6" square	.188"	12"	11.00" - 13.25"	7.81" - 9.37"	12.25"	1" x 36" x 6"	4.5	629

NOTE Factory supplied template must be used when setting anchor bolts. Beacon Products will deny any claim for incorrect anchorage placement resulting from failure to use factory supplied template and anchor bolts.

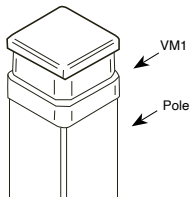
EHH - EXTRA HANDHOLE



C05 - C07 - C20 - COUPLING

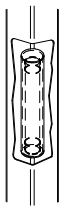


VM1 - VIBRATION DAMPER 1ST MODE



Field Installed Pole Top damper designed to reduce pole top deflection or sway. VM1 is recommended for pole systems 25' and taller with a total EPA of 1.0 or less.

VM2 - VIBRATION DAMPER 2ND MODE



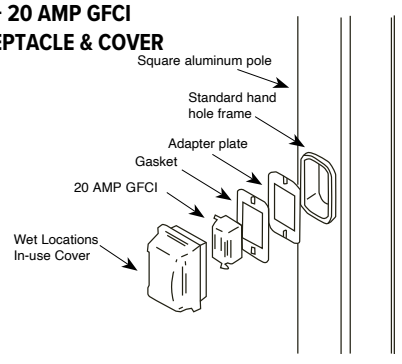
Factory installed, internal damper designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.

VM2SXX - VIBRATION DAMPER 2ND MODE

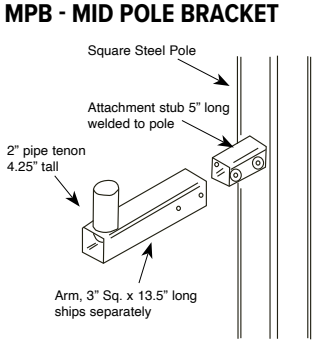
VM2S08 – 8'
VM2S12 – 12'
VM2S16 – 16'
VM2S20 – 20'
VM2S24 – 24'

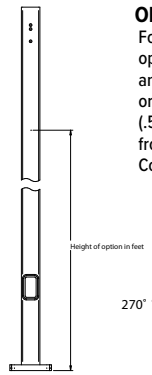
Field installed, internal damper designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.

GFI – 20 AMP GFCI RECEPTACLE & COVER



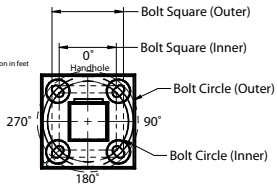
MPB - MID POLE BRACKET





OPTION ORIENTATION

Follow the logic below when ordering location specific options. For each option, include its orientation (in degrees) and its height (in feet). Example: Option C07 should be ordered as: **SSS-B-20-40-A-TA-DB-C05-0-15** (.5" coupling on the handhole/arm side of pole, 15 feet up from the pole base) 1' spacing required between option. Consult factory for other configurations.



For more information about pole vibration and vibration dampers, please consult our website.
Due to our continued efforts to improve our products, product specifications are subject to change without notice.

BEACON
design . performance . technology

SSS-B Series Poles

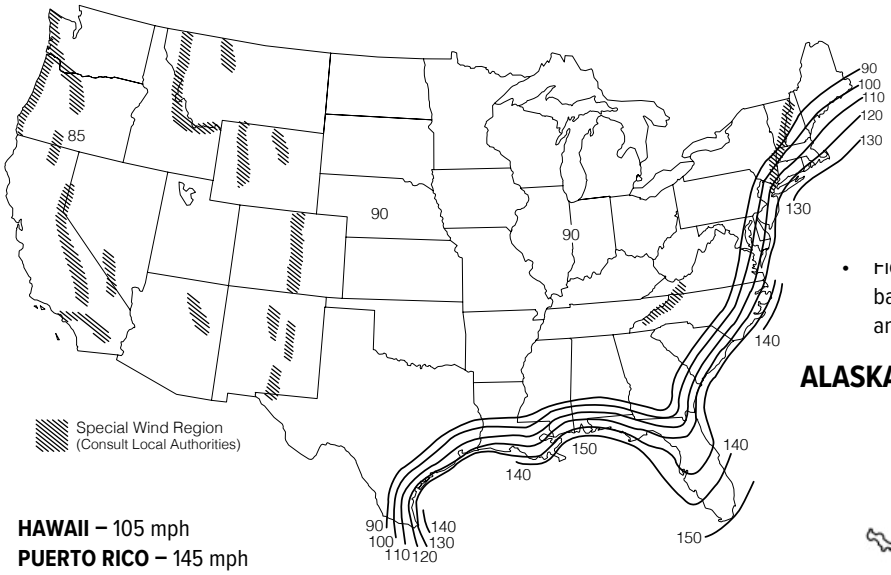
SQUARE STRAIGHT STEEL

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

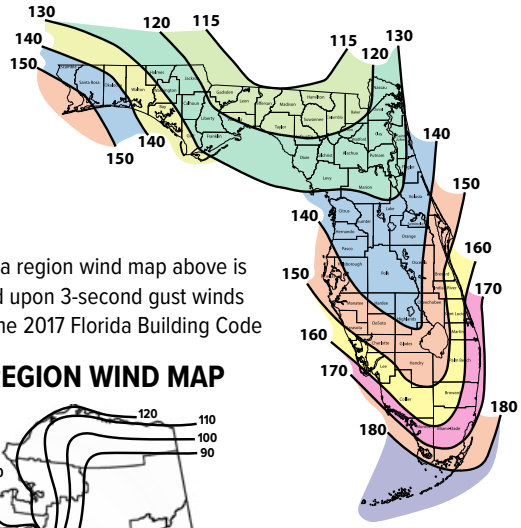
ASCE7-05 WIND MAP



HAWAII – 105 mph

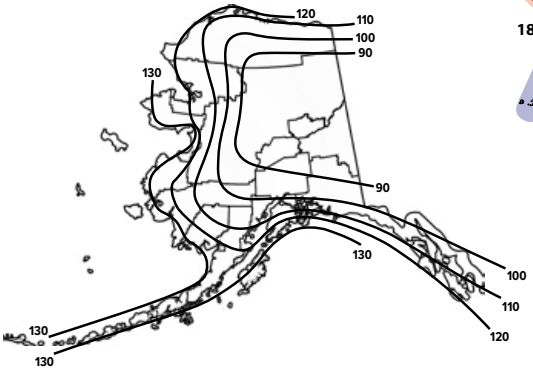
PUERTO RICO – 145 mph

FLORIDA REGION WIND MAP



- Florida region wind map above is based upon 3-second gust winds and the 2017 Florida Building Code

ALASKA REGION WIND MAP



ASCE 7-05 wind map EPA Load Rating - 3 second gust wind speeds (Use for all locations except Florida)										
Catalog Number	**85**	**90**	**100**	**105**	**110**	**120**	**130**	**140**	**145**	**150**
SSS-B-10-40-A	25.0	25.0	25.0	22.8	20.6	17.0	14.2	11.9	11.0	10.1
SSS-B-12-40-A	25.0	25.0	20.0	18.0	16.1	13.2	10.8	8.9	8.1	7.4
SSS-B-14-40-A	23.1	20.4	16.1	14.3	12.8	10.2	8.2	6.6	5.9	5.3
SSS-B-16-40-A	19.0	16.7	13.0	11.5	10.1	7.9	6.2	4.7	4.1	3.6
SSS-B-18-40-A	15.6	13.6	10.0	9.0	7.8	5.9	4.4	3.1	2.6	2.1
SSS-B-20-40-A	12.7	10.9	7.9	6.9	5.9	4.2	2.8	1.7	1.3	0.9
SSS-B-25-40-A	7.3	5.9	3.8	2.9	2.1	0.8	NR	NR	NR	NR
SSS-B-14-40-B	25.0	25.0	23.3	20.8	18.6	15.1	12.3	10.2	9.2	8.4
SSS-B-16-40-B	25.0	24.9	19.4	17.3	15.4	12.3	9.9	8.0	7.2	6.4
SSS-B-18-40-B	24.0	20.8	16.1	14.2	12.5	9.8	7.7	6.1	5.3	4.7
SSS-B-20-40-B	20.2	17.5	13.2	11.6	10.1	7.7	5.9	4.4	3.8	3.2
SSS-B-25-40-B	12.8	11.0	7.9	6.7	5.5	3.7	2.3	1.2	0.7	NR
SSS-B-30-40-B	8.0	6.6	4.1	3.1	2.2	0.8	NR	NR	NR	NR
SSS-B-16-50-B	25.0	25.0	25.0	25.0	24.8	20.1	16.5	13.6	12.3	11.2
SSS-B-18-50-B	25.0	25.0	25.0	22.9	20.4	16.4	13.2	10.7	9.6	8.6
SSS-B-20-50-B	25.0	25.0	21.3	18.9	16.7	13.2	10.4	8.1	7.2	6.3
SSS-B-25-50-B	20.7	17.8	13.3	11.5	9.8	7.2	5.0	3.3	2.6	1.9
SSS-B-30-50-B	13.5	11.3	7.7	6.2	4.9	2.8	1.1	NR	NR	NR
SSS-B-25-50-C	25.0	25.0	19.4	17.1	15.1	11.7	9.0	6.9	6.0	5.1
SSS-B-30-50-C	20.1	17.3	12.7	10.9	9.3	6.6	4.5	2.8	2.1	1.4
SSS-B-20-60-B	25.0	25.0	25.0	25.0	25.0	20.2	16.1	12.9	11.5	10.3
SSS-B-25-60-B	25.0	25.0	20.6	18.0	15.6	11.8	8.7	6.2	5.2	4.2
SSS-B-30-60-B	21.4	18.1	12.9	10.7	8.8	5.7	3.3	1.3	NR	NR
SSS-B-35-60-B	14.0	11.3	6.9	5.2	3.6	1.0	NR	NR	NR	NR
SSS-B-40-60-B	8.1	5.8	2.2	nr	NR	NR	NR	NR	NR	NR

Florida Building Code 2017 EPA Load Rating - 3 second gust wind speeds (Use for Florida only)								
Catalog Number	**115**	**120**	**130**	**140**	**150**	**160**	**170**	**180**
SSS-B-10-40-A	25.0	25.0	25.0	25.0	21.4	18.4	15.9	13.9
SSS-B-12-40-A	25.0	25.0	23.6	19.8	16.7	14.2	12.1	10.4
SSS-B-14-40-A	25.0	23.1	19.0	15.7	13.1	10.9	9.1	7.6
SSS-B-16-40-A	20.8	18.7	15.2	12.3	10.1	8.2	6.7	5.4
SSS-B-18-40-A	16.8	15.0	11.9	9.4	7.5	5.9	4.5	3.4
SSS-B-20-40-A	13.6	11.9	9.2	7.1	5.3	3.9	2.7	1.7
SSS-B-25-40-A	7.4	6.2	4.1	2.5	1.1	NR	NR	NR
SSS-B-14-40-B	25.0	23.6	19.4	16.1	13.4	11.2	9.4	7.8
SSS-B-16-40-B	21.4	19.2	15.6	12.7	10.4	8.5	6.9	5.6
SSS-B-18-40-B	17.2	15.4	12.2	9.7	7.7	6.1	4.7	3.6
SSS-B-20-40-B	13.9	12.3	9.5	7.3	5.5	4.1	2.9	1.9
SSS-B-25-40-B	7.7	6.4	4.3	2.6	1.3	NR	NR	NR
SSS-B-30-40-B	3.2	2.1	NR	NR	NR	NR	NR	NR
SSS-B-16-50-B	25.0	25.0	25.0	25.0	25.0	21.4	18.2	15.5
SSS-B-18-50-B	25.0	25.0	25.0	24.4	20.4	17.0	14.2	11.9
SSS-B-20-50-B	25.0	25.0	24.4	19.9	16.3	13.4	11.0	8.9
SSS-B-25-50-B	21.8	19.3	15.0	11.5	8.8	6.5	4.7	3.1
SSS-B-30-50-B	13.7	11.7	8.2	5.5	3.3	1.5	NR	NR
SSS-B-25-50-C	21.8	19.3	15.0	11.5	8.8	6.5	4.7	3.1
SSS-B-30-50-C	13.7	11.7	8.2	5.5	3.3	1.5	NR	NR
SSS-B-20-60-B	25.0	25.0	25.0	21.9	17.8	14.5	11.7	9.4
SSS-B-25-60-B	23.8	20.9	16.1	12.3	9.2	6.6	4.5	2.8
SSS-B-30-60-B	14.6	12.3	8.4	5.3	2.8	0.8	NR	NR
SSS-B-35-60-B	7.5	5.6	2.4	NR	NR	NR	NR	NR
SSS-B-40-60-B	1.8	NR	NR	NR	NR	NR	NR	NR

SSS-B Series Poles

SQUARE STRAIGHT STEEL

DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #:

NOTES

Wind-speed Website disclaimer:
Current has no connection to the linked website and makes no representations as to its accuracy. While the information presented on this third-party website provides a useful starting point for analyzing wind conditions, Current has not verified any of the information on this third party website and assumes no responsibility or liability for its accuracy. The material presented in the windspeed website should not be used or relied upon for any specific application without competent examination and verification of its accuracy, suitability and applicability by engineers or other licensed professionals. Current does not intend that the use of this information replace the sound judgment of such competent professionals, having experience and knowledge in the field of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the results of the windspeed report provided by this website. Users of the information from this third party website assume all liability arising from such use. Use of the output of these referenced websites do not imply approval by the governing building code bodies responsible for building code approval and interpretation for the building site described by latitude/longitude location in the windspeed report. http://windspeed.atcouncil.org

NOTES

- Allowable EPA, to determine max pole loading weight, multiply allowable EPA by 30 lbs.
- The tables for allowable pole EPA are based on the ASCE 7-05 Wind Map or the Florida Region Wind Map for the 2010 Florida Building Code. The Wind Maps are intended only as a general guide and cannot be used in conjunction with other maps. Always consult local authorities to determine maximum wind velocities, gusting and unique wind conditions for each specific application
- Allowable pole EPA for jobsite wind conditions must be equal to or greater than the total EPA for fixtures, arms, and accessories to be assembled to the pole. Responsibility lies with the specifier for correct pole selection. Installation of poles without luminaires or attachment of any unauthorized accessories to poles is discouraged and shall void the manufacturer's warranty
- Wind speeds and listed EPAs are for ground mounted installations. Poles mounted on structures (such as bridges and buildings) must consider vibration and coefficient of height factors beyond this general guide; Consult local and federal standards
- Wind Induced Vibration brought on by steady, unidirectional winds and other unpredictable aerodynamic forces are not included in wind velocity ratings.
- Extreme Wind Events like, Hurricanes, Typhoons, Cyclones, or Tornadoes may expose poles to flying debris, wind shear or other detrimental effects not included in wind velocity ratings

Due to our continued efforts to improve our products, product specifications are subject to change without notice.

ARMS POLES

and Accessories

ARMS
Contemporary Arms
Period Arms

POLES
Aluminum Poles
Decorative Poles
Multi-Post Poles

ACCESSORIES
Banner Arms
Egress
Photocells
Other

architectural arealighting

Current

“to create, inspire and nurture
EXCELLENCE in each other”

LONGEVITY

AAL manufactures its products to have a life span as long as the buildings and spaces they illuminate. The primary material used for all our products is aluminum to resist corrosion and the need for maintenance. Aluminum will not need the periodic refinishing required of steel products that will eventually rust and corrode. All our internal parts and fasteners are made of aluminum or stainless steel.

SUSTAINABILITY

AAL develops our products with recycling and resource management in mind. We recycle all incoming packaging materials. Our state-of-the-art finishing system uses eco-friendly cleansing and preparation chemicals that are harmless enough to send to the drain without further processing. Finally, AAL makes all products with renewable materials such as aluminum and stainless steel.

CONTENTS

PATENTS PENDING

PRM3-TRA35D-DB2

BREADTH OF PRODUCT

TRADITIONAL DECORATIVE ARM AND POLE WITH TOWNE COMMONS

AAL products are designed for easy installation and routine maintenance. Product features include tool-less access to the lamp and ballast as well as pre-wired arms and multi-post poles.

DECORATIVE POLE

Whether you are creating a traditional or contemporary site theme, AAL offers a complete fixture family package. AAL's fixture + arm + pole + matching bollard, can be specified in multiple configurations and elevated scales throughout the site.

LONG CURVE ARM WITH FLEX

MULTI-POST POLE

EFFICIENT • EFFECTIVE • ENVIRONMENTALLY FRIENDLY

AAL manufactures all its products to have a life span as long as the buildings or spaces they illuminate. AAL's precision optical systems put light where it is needed resulting in the lowest amount of energy being consumed. AAL offers dark sky friendly versions for controlling light pollution and glare.

DESIGNER SSL SERIES FEATURING MICROEMITTER™ TECHNOLOGY

1. PARKWAY SQUARE™
2. PROVIDENCE®
3. PROMENADE™
4. UNIVERSE®
5. LARGENT™
6. FLEX™

PROV LED

PRMN LED

PERIOD STYLE LUMINAIRES

Parkway Square™, part of AAL's Designer SSL Series, is a masterpiece of advanced design and innovation, capturing all the best of AAL. Featuring distinctive design elements and our newest technology, Parkway Square is available in two luminaire sizes for pole or wall mounting, and along with a matching bollard, provides an all new, whole-site package of luminaires.

Providence® — Transitional style fixtures that combine modern lighting performance with aesthetics in traditional forms. Part of AAL's Designer SSL Series. Available in 3 sizes, as well as a matching wall sconce and bollard.

Arts & Crafts® — A family of fixtures that reflects the style and warmth of the Craftsman era. Available in two sizes as well as a matching bollard. Features a wide variety of shade materials and finishes.

Civic Lantern™ — An elegantly proportioned coach lantern that features a one-piece clear acrylic light chamber that can house either the patented Moldcast Pericline vertical optical system or AAL horizontal optics.

Dundee™ — A high performance, decorative outdoor luminaire. Provides more footcandles on the ground than typical decorative fixtures, allowing wider pole spacing and lower wattage lamps.

Federal Globe™ — High performing, precision optics in an elegant and timeless traditional acorn form. Features the patented Moldcast ContraCline® optical system.

Promenade Series™ — A traditional style family that provides state-of-the-art, focused optical systems so light may be precisely aimed, resulting in smooth, even illumination of the environment.

Towne Commons® — Available in a wide range of sizes and configurations featuring a precision reflector system that minimizes light pollution while providing a superior lighting system for illuminating streets and pedestrian areas.

CONTEMPORARY STYLE LUMINAIRES

Universe Collection® — A complete family of decorative, yet highly functional luminaires that transcend architectural styles past and present. Part of AAL's Designer SSL Series. The fixtures are scaled in three sizes with a matching bollard.

Cubic Indirect™ — With its angular design and stainless steel vertical struts, the Cubic Indirect is a perfect complement to the rectilinear and angular compositions of modern architecture. The Cubic Indirect is available with highly efficient LEDs, and is perfect for projects that require a sense of mood as much as a sense of light.

Diretto® — The contemporary styling of Diretto redefines the visual language of contemporary fixtures. The lamp and ballast module's unique design have no flat surfaces and are unified by stainless steel struts. Sustainability features include tool-less servicing with efficient lamp and electronic ballast options.

Flex™ — The patented contemporary design of Flex provides greater operating efficacy, while the multiple arm designs and mounting options form a versatile "create it yourself" look. Available with single, double, triple or quad mount configuration.

Indirect™ — Combines contemporary styling with soft, low brightness illumination. Available in a fixed or adjustable head with round or square reflector, and highly efficient LED technology. Post and wall mount options are available.

Largent™ — A geometric design using state-of-the-art optical systems to precisely light streets, parks and pedestrian venues. Part of AAL's Designer SSL Series. Available with stacked louvers, diffused lens or a horizontal reflector system.

Pericline™ — This geometrically shaped luminaire features the patented Moldcast high performance optical system. Available in two sizes with either a cylindrical or rectilinear housing, is also available as a wall or pole mount fixture.

Perspect™ — Nautical inspired design theme combines a classic look with modern optics. Available with a lightly diffused lens or a frosted dome for a soft glow when illuminated.

Spectra™ — Offers the freedom to specify size, finish and optics to complement any design scheme. Available in three sizes for post or wall mounting, as well as a matching bollard.

HOW TO USE THIS GUIDE

Creating the look you desire is simple with this Product Selection Guide. Explore the wide range of options available and then choose the arm, pole, base, accessories and finish that best suits the project and fixture you desire. The breadth of AAL's arm, pole and options provides a wide selection that will complement architectural details and site design themes.

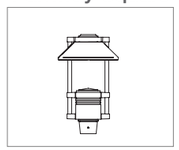
Follow These Easy Steps:

1. Choose a contemporary or traditional styled fixture.
2. Select mounting and an arm, if desired, that complements the fixture and site theme.
3. Select the complementing pole.
4. Make the look your own by adding stylish and functional options, accessories and finishes.

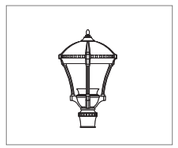
1. CHOOSE A LUMINAIRE

PERIOD

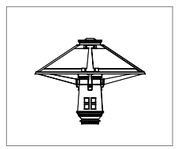
Parkway Square™



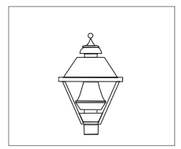
Providence®



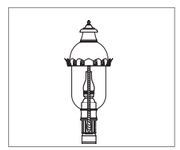
Arts & Crafts®



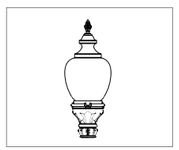
Civic Lantern™



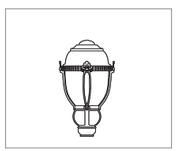
Dundee



Federal Globe™



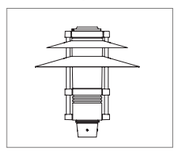
Promenade™



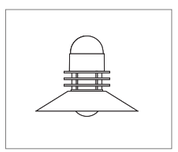
Towne Commons®

CONTEMPORARY

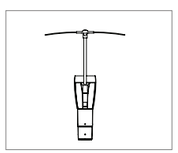
Parkway Square™



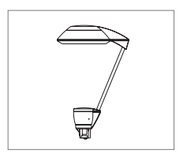
Universe®



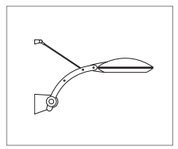
Cubic Indirect™



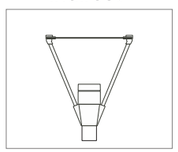
Diretto®



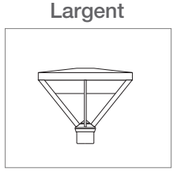
Flex™/miniFlex



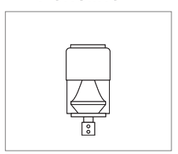
Indirect™



Largent



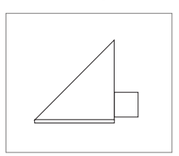
Pericline™



Spectra™

Spheres

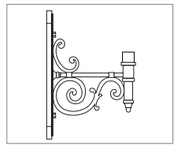
Mitre™



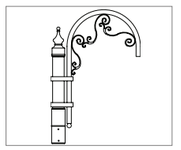
2. SELECT A MOUNT AND ARM

PERIOD

Wall Mount

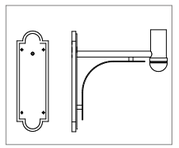


Pole Mount

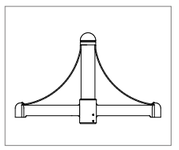


CONTEMPORARY

Wall Mount

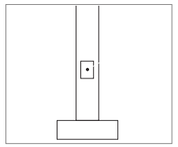


Pole Mount

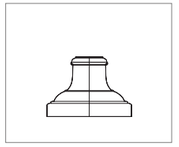


3. SELECT A POLE AND BASE COVER

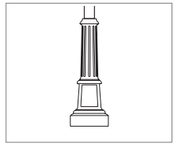
Aluminum



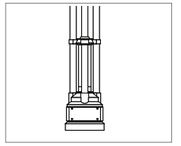
Base Cover
(For Aluminum pole only)



Decorative Base Series

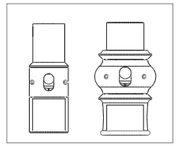


Multi-Post

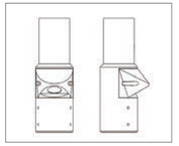


4. SELECT OPTIONS/ACCESSORIES

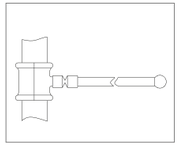
Egress



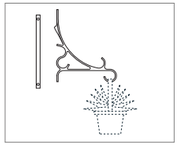
Photocell



Banner Arms



Ladder Rest / Plant Hangers



5. COLOR

All standard and premium AAL colors available. For RAL and custom colors, please submit a four-digit RAL number or color chip for custom colors.

STANDARD COLOR

AWT	Arctic White		DGN	Dark Green	
LGY	Light Gray		CRT	Corten	
MAL	Matte Aluminum		BRM	Metallic Bronze	
MDG	Medium Gray		DBZ	Dark Bronze	
ATG	Antique Green		BLK	Black	
VBL	Verde Blue		MTB	Matte Black	
WRZ	Weathered Bronze				

PREMIUM COLOR

SFM	Seafoam	
WCP	Weathered Copper	
SHK	Shamrock	
SPP	Salt & Pepper	

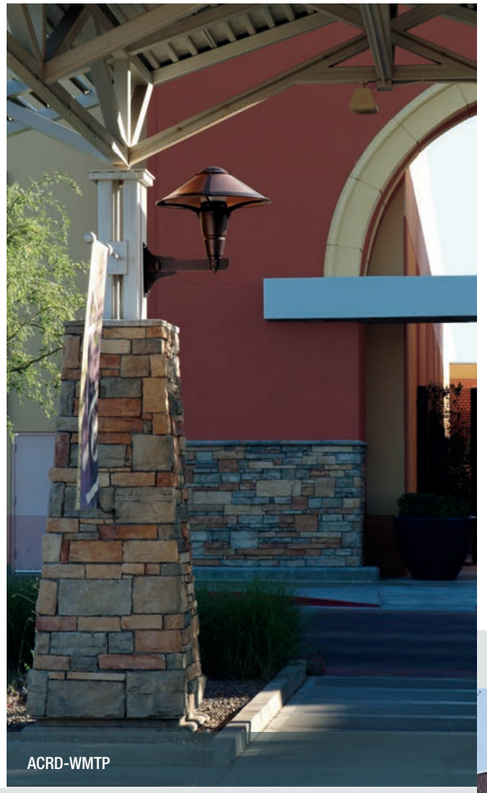
Contact a local representative for a color chip.

Arm Selections

All arm castings are cast from pure, certified #356 aluminum for maximum strength and structural integrity.

Fixtures are either welded to the arm or bolted on, depending on the selection. Custom and modified arms are available in many configurations.

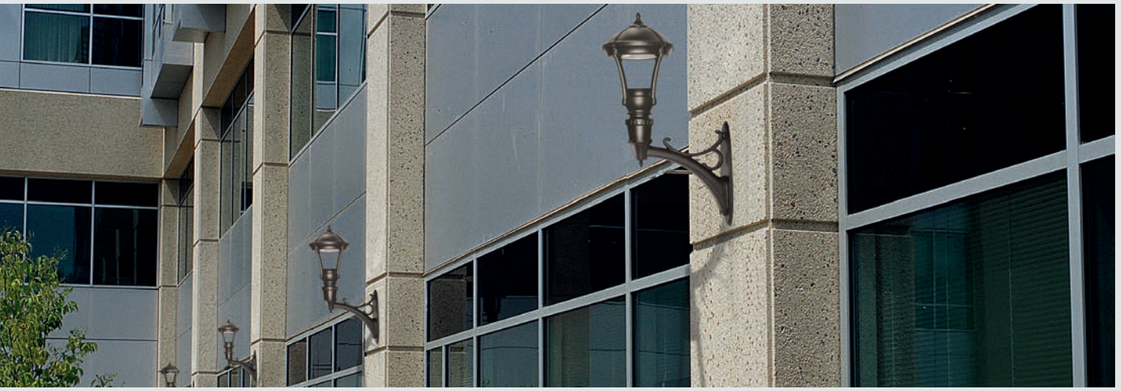
WALL MOUNT



ACRD-WMTP

POLE MOUNT

PROS-WMA59U



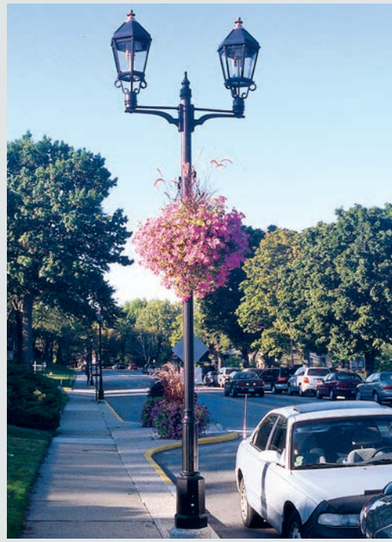
SPECIFY THE BEST

AAL traditional cast aluminum arms are unitized one piece designs for maximum strength. The arms are prewired for cost effective installation. Stainless steel mounting hardware is supplied for attaching to AAL poles.

PROV-TRA57

PRMS-TRA5U

ALN540-TRA55



For wall mounted arms the hardware is provided by the contractor.

For pole mounted arms the hardware is proved for attachment to AAL poles.

PRM3-TRA35D

ALL ARMS ARE NOT CREATED EQUAL

Accept No Imitations

AAL arms are factory fabricated and assembled for maximum strength and rigidity. All components are welded together as a unitized structure. All arms are prewired for easy, error proof installation with no field assembly required. AAL poles are factory drilled with threaded inserts (stainless steel hardware). Minimize the cost of installation and guarantee a great looking finished project with AAL arms.

ALN-TRA5U

PRMD-TRA9

PRM2-TRA60

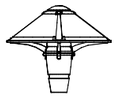
PERIOD LUMINAIRE ARM MATRIX

Wall Mount

ALN438W-WMA1L

ARTS & CRAFTS®

ACSQ



ACRD

SACSQ

SACRD

*Arms for Arts & Crafts are custom designed

CIVIC LANTERN™

CLL

FEDERAL GLOBE™

FGS

FGL

PROMENADE™

PRMN

PRMS

PRMD

PRM2

PRM3

PRM4

PROVIDENCE®

PROL

PROV

PROS*

*Arms for PROS are custom designed

TOWNE COMMONS®

ALN438*

ALN440

ALN445

ALN540PM

*Arms for ALN438 are custom

DUNDEE

ALN610

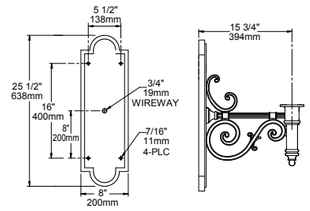
PARKWAY SQUARE™

PKWM

PKWS

*Arms for PKWS and PKWM are custom

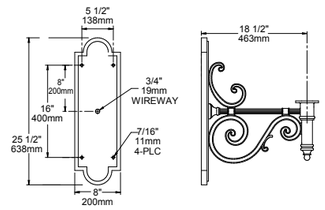
WMA1M WT: 12 LBS



AVAILABLE WITH:

CIVIC LANTERN	CLL
DUNDEE	ALN610
FEDERAL GLOBE	FGS
PROMENADE	PRMS, PRMN, PRM3-PM
TOWNE COMMONS	ALN440, ALN445, ALN540PM

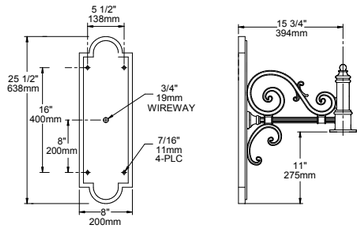
WMA1L WT:



AVAILABLE WITH:

CIVIC LANTERN	CLL
DUNDEE	ALN610
FEDERAL GLOBE	FGS
PROMENADE	PRMS, PRMN, PRM3-PM
TOWNE COMMONS	ALN440, ALN445, ALN540PM

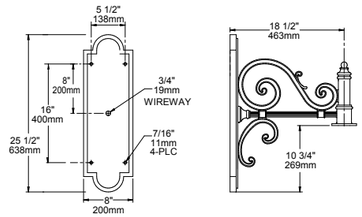
WMA2M WT: 12 LBS



AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM4
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

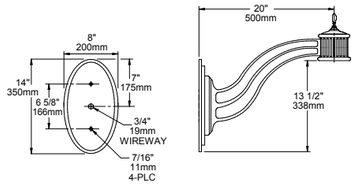
WMA2L WT:



AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM4
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

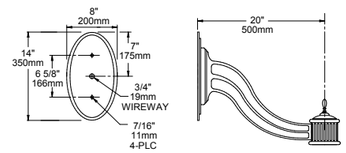
WMA35D WT: 12 LBS



AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4

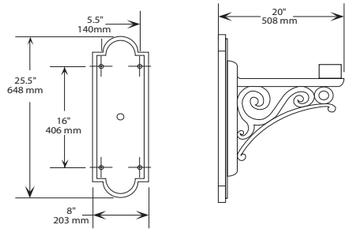
WMA36D WT: 12 LBS



AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4

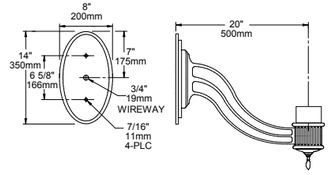
WMA3 WT: 17 LBS



AVAILABLE WITH:

DUNDEE	ALN610
PROMENADE	PRMN, PRMS
TOWNE COMMONS	ALN440, ALN445, ALN540PM

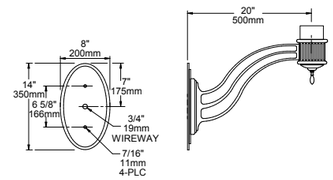
WMA35U WT: 12 LBS



AVAILABLE WITH:

DUNDEE	ALN610
PROMENADE	PRMS, PRMN, PRM3-PM
TOWNE COMMONS	ALN440, ALN445, ALN540PM

WMA36U WT: 12 LBS

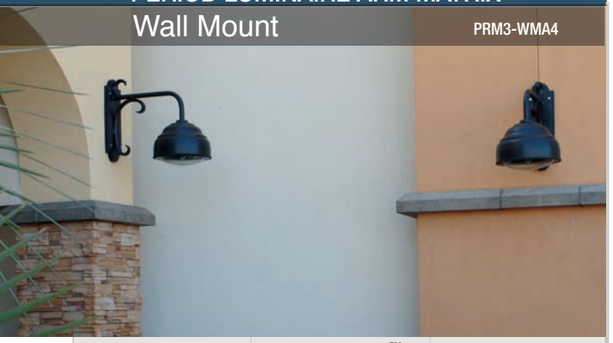


AVAILABLE WITH:

DUNDEE	ALN610
PROMENADE	PRMS, PRMN, PRM3-PM
TOWNE COMMONS	ALN440, ALN445, ALN540PM

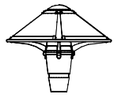
PERIOD LUMINAIRE ARM MATRIX

Wall Mount



ARTS & CRAFTS®


ACSQ


ACRD


SACSQ


SACRD

*Arms for Arts & Crafts are custom designed

CIVIC LANTERN™


CLL

FEDERAL GLOBE™


FGS


FGL

PROMENADE™


PRMN


PRMS


PRMD


PRM2


PRM3


PRM4

PROVIDENCE®


PROL


PROV


PROS*

*Arms for PROS are custom designed

TOWNE COMMONS®


ALN438*


ALN440


ALN445


ALN540PM

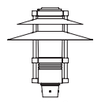
*Arms for ALN438 are custom

DUNDEE


ALN610

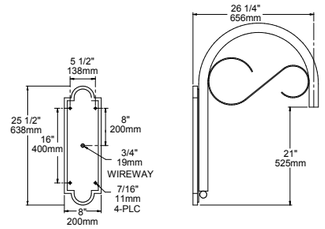
PARKWAY SQUARE™


PKWM


PKWS

*Arms for PKWS and PKWM are custom

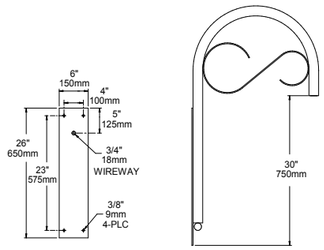
WMA37 WT: 12 LBS



AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

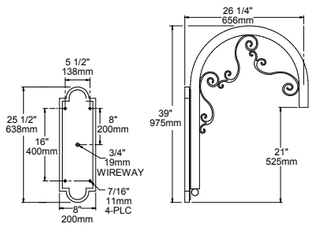
WMA38 WT: 12



AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

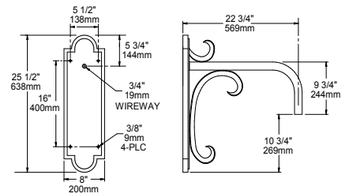
WMA39 WT: 14



AVAILABLE WITH:

PROMENADE	PRM2, PRM4, PRMD
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

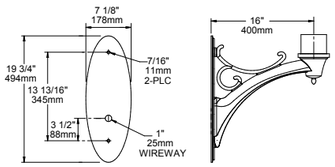
WMA4 WT: 12 LBS



AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

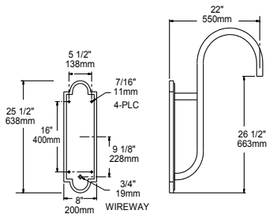
WMA56



AVAILABLE WITH:

CIVIC LANTERN	CLL
DUNDEE	ALN610
FEDERAL GLOBE	FGS
PROMENADE	PRMS, PRMN, PRM3-PM
PROVIDENCE	PROV, PROL
TOWNE COMMONS	ALN440, ALN445, ALN540PM

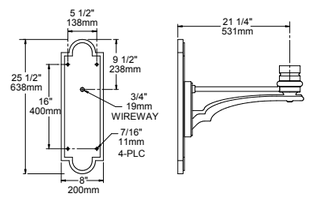
WMA6 WT: 14 LBS



AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

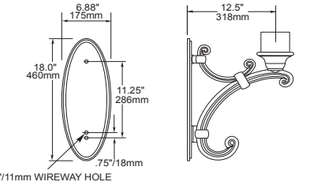
WMA55 WT: 10



AVAILABLE WITH:

CIVIC LANTERN	CLL
DUNDEE	ALN610
FEDERAL GLOBE	FGS
PROMENADE	PRMS, PRMN, PRM3-PM
PROVIDENCE	PROV, PROL
TOWNE COMMONS	ALN440, ALN445, ALN540PM

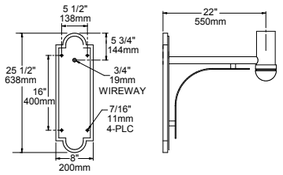
WMA57 WT: 9



AVAILABLE WITH:

CIVIC LANTERN	CLL
DUNDEE	ALN610
FEDERAL GLOBE	FGS
PROMENADE	PRMS, PRMN, PRM3-PM
PROVIDENCE	PROV
TOWNE COMMONS	ALN440, ALN445, ALN540PM

WMA7 WT: 16 LBS



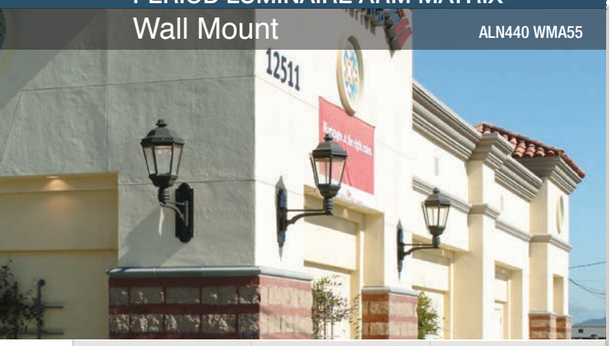
AVAILABLE WITH:

DUNDEE	ALN610
PROMENADE	PRMS, PRMN, PRM3-PM
PROVIDENCE	PROV
TOWNE COMMONS	ALN440, ALN445, ALN540PM

PERIOD LUMINAIRE ARM MATRIX

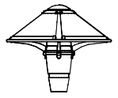
Wall Mount

ALN440 WMA55



ARTS & CRAFTS®

ACSQ



ACRD

SACSQ

SACRD

*Arms for Arts & Crafts are custom designed

CIVIC LANTERN™

CLL

FEDERAL GLOBE™

FGS

FGL

PROMENADE™

PRMN

PRMS

PRMD

PRM2

PRM3

PRM4

PROVIDENCE®

PROL

PROV

PROS*

*Arms for PROS are custom designed

TOWNE COMMONS®

ALN438*

ALN440

ALN445

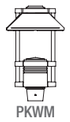
ALN540PM

*Arms for ALN438 are custom

DUNDEE

ALN610

PARKWAY SQUARE™

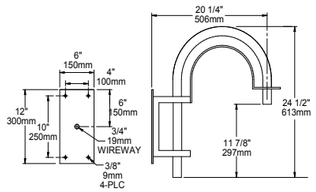


PKWM

PKWS

*Arms for PKWS and PKWM are custom

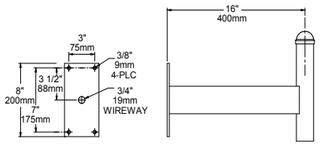
WMA8 WT: 10 LBS



AVAILABLE WITH:

PROMENADE	PRMD, PRM3
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

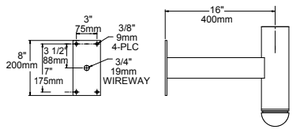
WMA9D WT: 6 LBS



AVAILABLE WITH:

PROMENADE	PRMD, PRM3
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

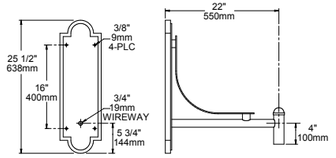
WMA9U WT: 8 LBS



AVAILABLE WITH:

DUNDEE	ALN610
PROMENADE	PRMS, PRMN, PRM3-PM
PROVIDENCE	PROV
TOWNE COMMONS	ALN440, ALN445, ALN540PM

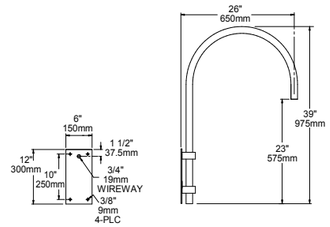
WMA10 WT:



AVAILABLE WITH:

PROMENADE	PRMD, PRM3
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

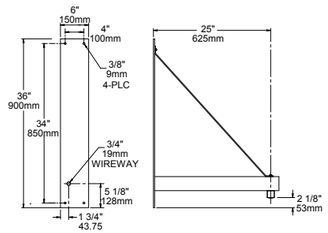
WMA12 WT: 12 LBS



AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

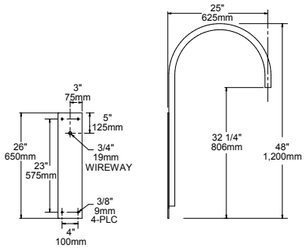
WMA17 WT: 15



AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

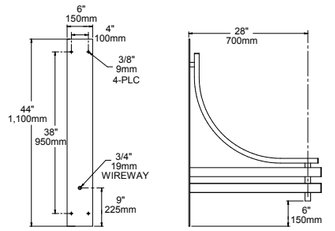
WMA11



AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

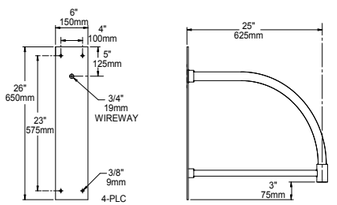
WMA16 WT: 22



AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

WMA18 WT: 18



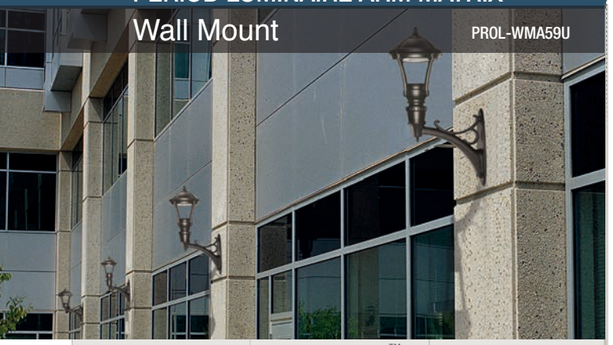
AVAILABLE WITH:

PROMENADE	PRMD, PRM3
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

PERIOD LUMINAIRE ARM MATRIX

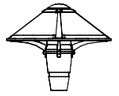
Wall Mount

PROL-WMA59U



ARTS & CRAFTS®

ACSQ



ACRD

SACSQ

SACRD

*Arms for Arts & Crafts are custom designed

CIVIC LANTERN™

CLL

FEDERAL GLOBE™

FGS

FGL

PROMENADE™

PRMN

PRMS

PRMD

PRM2

PRM3

PRM4

PROVIDENCE®

PROL

PROV

PROS*

*Arms for PROS are custom designed

TOWNE COMMONS®

ALN438*

ALN440

ALN445

ALN540PM

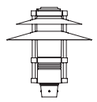
*Arms for ALN438 are custom

DUNDEE

ALN610

PARKWAY SQUARE™

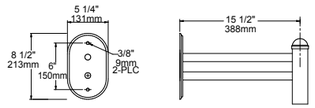
PKWM



PKWS

*Arms for PKWS and PKWM are custom

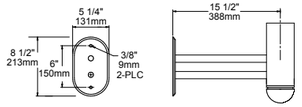
WMA22D WT: 4 LBS



AVAILABLE WITH:

PROMENADE	PRMD, PRM3
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

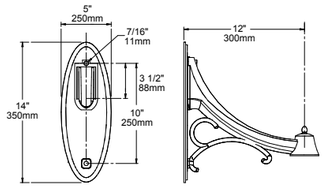
WMA22U WT: 5 LBS



AVAILABLE WITH:

DUNDEE	ALN610
PROMENADE	PRMS, PRMN, PRM3-PM
PROVIDENCE	PROV
TOWNE COMMONS	ALN440, ALN445, ALN540PM

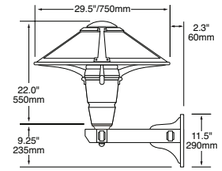
WMA59D WT: 4.6 LBS



AVAILABLE WITH:

PROVIDENCE	PROS

WMTP WT: 34.5 LBS

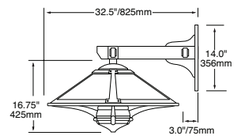


(ACRD/ACSQ dimensions shown)

AVAILABLE WITH:

ARTS & CRAFTS	ACRD. ACSQ

WMBL WT: 32 LBS

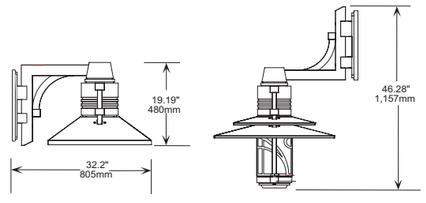


(ACRD/ACSQ dimensions shown)

AVAILABLE WITH:

ARTS & CRAFTS	ACRD. ACSQ

PSWM-BU/PSWM-BD WT: 18 LBS (PKWM)/7.8 LBS(PKWS)

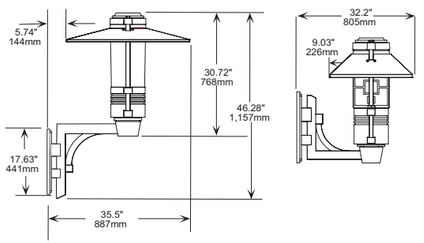


(PKWM dimensions shown)

AVAILABLE WITH:

PARKWAY SQUARE	PKWM, PKWS

PSWM-TU/PSWM-TD WT: 18 LBS (PKWM)/7.8 LBS(PKWS)

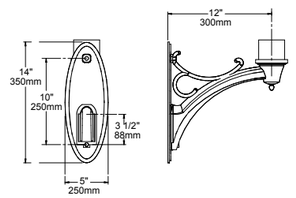


(PKWM dimensions shown)

AVAILABLE WITH:

PARKWAY SQUARE	PKWM, PKWS

WMA59U WT: 4.6 LBS



AVAILABLE WITH:

PROVIDENCE	PROS

PSWS/PKWM-TU

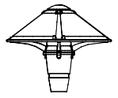
PERIOD LUMINAIRE ARM MATRIX

Pole Mount

ALN540D-TRA2L

ARTS & CRAFTS®

ACSQ



ACRD

SACSQ

SACRD

*Arms for Arts & Crafts are custom designed

CIVIC LANTERN™

CLL

FEDERAL GLOBE™

FGS

FGL

PROMENADE™

PRMN

PRMS

PRMD

PRM2

PRM3

PRM4

PROVIDENCE®

PROL

PROV

PROS*

*Arms for PROS are custom designed

TOWNE COMMONS®

ALN438*

ALN440

ALN445

ALN540PM

*Arms for ALN438 are custom

DUNDEE

ALN610

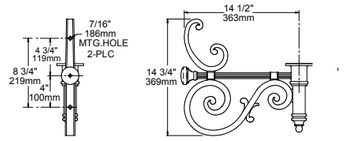
PARKWAY SQUARE™

PKWM

PKWS

*Arms for PKWS and PKWM are custom

TRA1M WT: 7 LBS EPA: .62

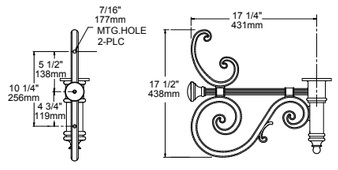


4" OR 5" POLE

AVAILABLE WITH:

CIVIC LANTERN	CLL
DUNDEE	ALN610
FEDERAL GLOBE	FGS
PROMENADE	PRMS, PRMN, PRM3-PM
TOWNE COMMONS	ALN440, ALN445, ALN540PM

TRA1L WT: 9 LBS EPA: .75

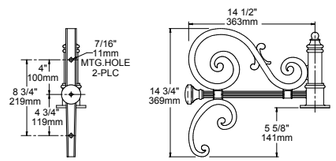


4" OR 5" POLE

AVAILABLE WITH:

CIVIC LANTERN	CLL
DUNDEE	ALN610
FEDERAL GLOBE	FGS
PROMENADE	PRMS, PRMN, PRM3-PM
TOWNE COMMONS	ALN440, ALN445, ALN540PM

TRA2M WT: 7 LBS EPA: .62

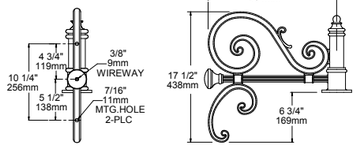


4" OR 5" POLE

AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM4
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

TRA2L WT: 9 LBS EPA: .75

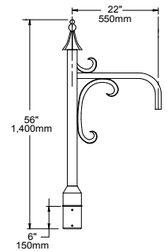


4" OR 5" POLE

AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM4
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

TRA4 WT: 16 LBS EPA: 1.81

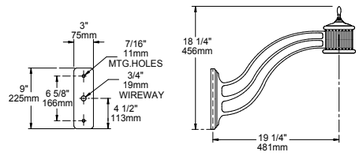


4" POLE

AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

TRA5D WT: 9 LBS EPA: .62



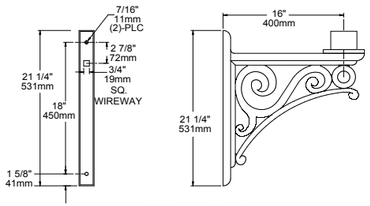
Note: Fixture head welded to arm

4" OR 5" POLE

AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4

TRA3 WT: 14 LBS EPA: .90

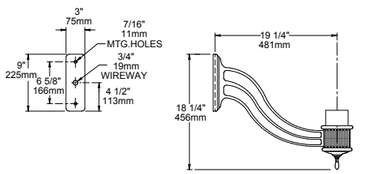


4" OR 5" POLE

AVAILABLE WITH:

DUNDEE	ALN610
PROMENADE	PRMS, PRMN
TOWNE COMMONS	ALN440, ALN445, ALN540PM

TRA5U WT: 9 LBS EPA: .62

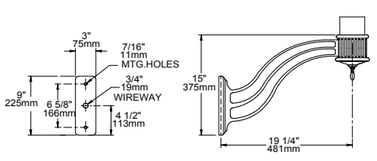


4" OR 5" POLE

AVAILABLE WITH:

DUNDEE	ALN610
PROMENADE	PRMS, PRMN, PRM3-PM
TOWNE COMMONS	ALN440, ALN445, ALN540PM

TRA6U WT: 9 LBS EPA: .62



4" OR 5" POLE

AVAILABLE WITH:

DUNDEE	ALN610
PROMENADE	PRMS, PRMN, PRM3-PM
TOWNE COMMONS	ALN440, ALN445, ALN540PM

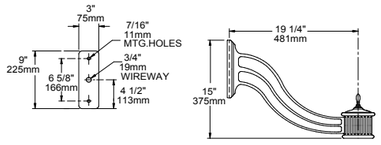
PERIOD LUMINAIRE ARM MATRIX

Pole Mount

ALN445-TRA2M

ARTS & CRAFTS®	PROMENADE™	TOWNE COMMONS®
ACSQ	PRMN	ALN438*
ACRD	PRMS	ALN440
SACSQ	PRMD	ALN445
SACRD	PRM2	ALN540PM
*Arms for Arts & Crafts are custom designed	PRM3	*Arms for ALN438 are custom
CIVIC LANTERN™	PRM4	DUNDEE
CLL	PROVIDENCE®	ALN610
FEDERAL GLOBE™	PROL	PARKWAY SQUARE™
FGS	PROV	PKWM
FGL	PROS*	PKWS
	*Arms for PROS are custom designed	*Arms for PKWS and PKWM are custom

TRA6D WT: 9 LBS EPA: .62



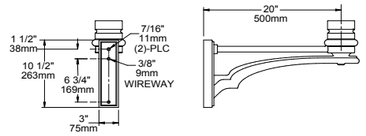
4" OR 5" POLE

Note: Fixture head welded to arm

AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4

TRA55 WT: 10 LBS EPA: .67

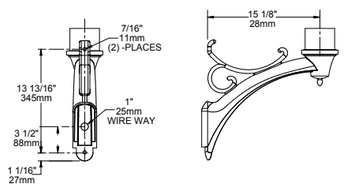


4" OR 5" POLE

AVAILABLE WITH:

CIVIC LANTERN	CLL
DUNDEE	ALN610
FEDERAL GLOBE	FGS
PROMENADE	PRMS, PRMN, PRM3-PM
PROVIDENCE	PROV, PROL
TOWNE COMMONS	ALN440, ALN445, ALN540PM

TRA56 WT: 8 LBS EPA: .54

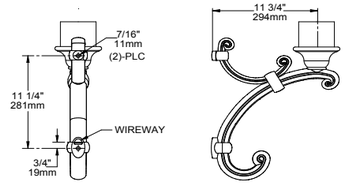


4" POLE

AVAILABLE WITH:

CIVIC LANTERN	CLL
DUNDEE	ALN610
FEDERAL GLOBE	FGS
PROMENADE	PRMS, PRMN, PRM3-PM
PROVIDENCE	PROV, PROL
TOWNE COMMONS	ALN440, ALN445, ALN540PM

TRA57 WT: 7 LBS EPA: .67

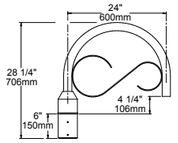


4" OR 5" POLE

AVAILABLE WITH:

CIVIC LANTERN	CLL
DUNDEE	ALN610
FEDERAL GLOBE	FGS
PROMENADE	PRMS, PRMN, PRM3-PM
PROVIDENCE	PROV
TOWNE COMMONS	ALN440, ALN445, ALN540PM

TRA7 WT: 12 LBS EPA:

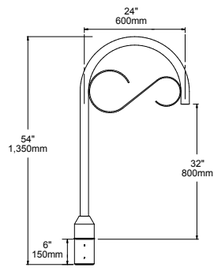


4" POLE

AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

TRA8 WT: 13 LBS EPA: 1.34

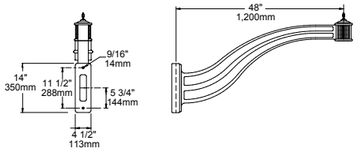


4" POLE

AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

TRA60 WT: 35 LBS EPA: 2.40 (5" O.D. PLE)



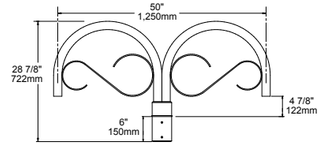
5" POLE

Note: Fixture head welded to arm

AVAILABLE WITH:

PROMENADE	PRM2, PRM4

TRA7-2 WT: 18 LBS EPA: 1.62

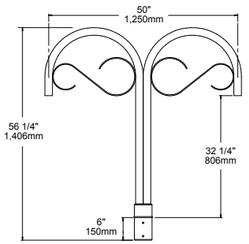


4" POLE

AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

TRA8-2 WT: 21 LBS EPA: 2.68



4" POLE

AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

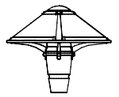
PERIOD LUMINAIRE ARM MATRIX

Pole Mount

ALN540PM-2-TRA55

ARTS & CRAFTS®

ACSQ



ACRD

SACSQ

SACRD

*Arms for Arts & Crafts are custom designed

CIVIC LANTERN™

CLL

FEDERAL GLOBE™

FGS

FGL

PROMENADE™

PRMN

PRMS

PRMD

PRM2

PRM3

PRM4

PROVIDENCE®

PROL

PROV

PROS*

*Arms for PROS are custom designed

TOWNE COMMONS®

ALN438*

ALN440

ALN445

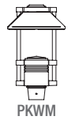
ALN540PM

*Arms for ALN438 are custom

DUNDEE

ALN610

PARKWAY SQUARE™

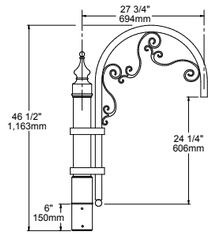


PKWM

PKWS

*Arms for PKWS and PKWM are custom

TRA9 WT: 17 LBS EPA: 1.90

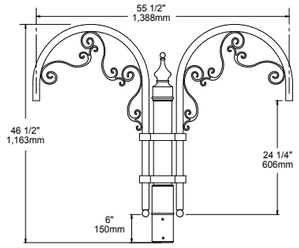


4" POLE

AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

TRA9-2 WT: 25 LBS EPA: 2.72



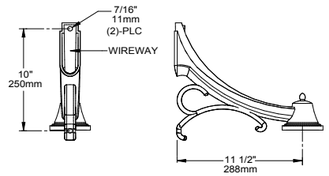
4" POLE

AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

PKWM-PSA-TU

TRA59D WT: 3.35 LBS EPA: .13

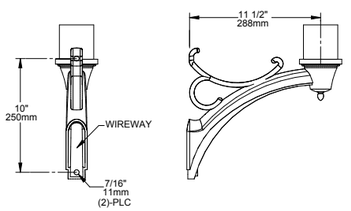


4" POLE

AVAILABLE WITH:

PROVIDENCE	PROS

TRA59U WT: 3.35 LBS EPA: .16



4" POLE

AVAILABLE WITH:

PROVIDENCE	PROS

PKWS-PSA TU

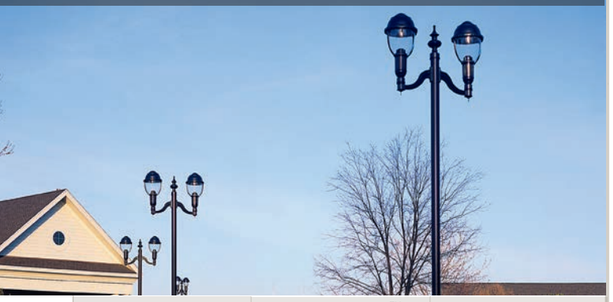
ALN540D-TRA2L

PRMD-TRA9

PERIOD LUMINAIRE ARM MATRIX

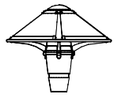
Pole Mount

PRMS-TRA5U



ARTS & CRAFTS®

ACSQ



ACRD

SACSQ

SACRD

*Arms for Arts & Crafts are custom designed

CIVIC LANTERN™

CLL

FEDERAL GLOBE™

FGS

FGL

PROMENADE™

PRMN

PRMS

PRMD

PRM2

PRM3

PRM4

PROVIDENCE®

PROL

PROV

PROS*

*Arms for PROS are custom designed

TOWNE COMMONS®

ALN438*

ALN440

ALN445

ALN540PM

*Arms for ALN438 are custom

DUNDEE

ALN610

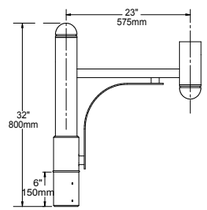
PARKWAY SQUARE™

PKWM

PKWS

*Arms for PKWS and PKWM are custom

SLA1 WT: 12 LBS EPA: 1.09

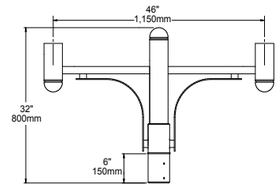


4" POLE

AVAILABLE WITH:

DUNDEE	ALN610
PROVIDENCE	PROV, PROL
PROMENADE	PRMS, PRMN, PRM3-PM
TOWNE COMMONS	ALN440, ALN445, ALN540PM

SLA1-2 WT: 16 LBS EPA: 1.47

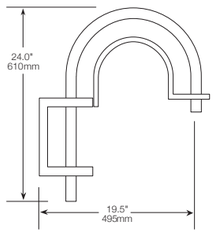


4" POLE

AVAILABLE WITH:

DUNDEE	ALN610
PROVIDENCE	PROV, PROL
PROMENADE	PRMS, PRMN, PRM3-PM
TOWNE COMMONS	ALN440, ALN445, ALN540PM

SLA3 WT: 8 LBS EPA: .77

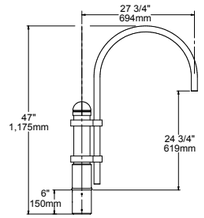


4" POLE

AVAILABLE WITH:

PROMENADE	PRMD, PRM3
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

SLA4 WT: 14 LBS EPA: 1.39

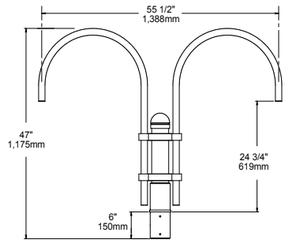


4" POLE

AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

SLA4-2 WT: 26 LBS EPA: 2.10

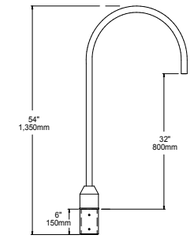


4" POLE

AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

SLA7 WT: 9 LBS EPA: 1.34

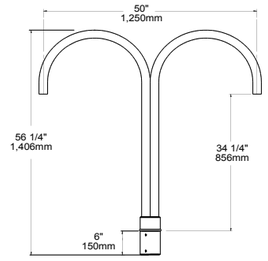


4" POLE

AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

SLA7-2 WT: 16 LBS EPA: 2.34

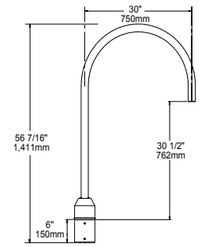


4" POLE

AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

SLA7 (5) WT: 11 LBS EPA: 1.73

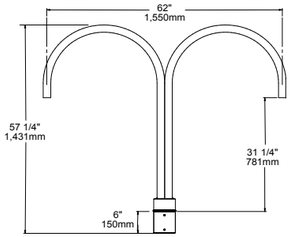


5" POLE

AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

SLA7 (5)-2 WT: 18 LBS EPA: 2.60



5" POLE

AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

PERIOD LUMINAIRE ARM MATRIX

Pole Mount

ALN445-TRA55

ARTS & CRAFTS®

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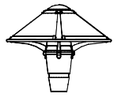

ACRD

SACSQ

SACRD

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CIVIC LANTERN™

CLL

FEDERAL GLOBE™

FGS

FGL

PROMENADE™

PRMN

PRMS

PRMD

PRM2

PRM3

PRM4

PROVIDENCE®

PROL

PROV

PROS*

*Arms for PROS are custom designed

TOWNE COMMONS®

ALN438*

ALN440

ALN445

ALN540PM

*Arms for ALN438 are custom

DUNDEE

ALN610

PARKWAY SQUARE™

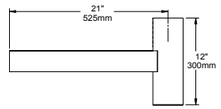
PKWM

PKWS

*Arms for PKWS and PKWM are custom

SLA8U

WT: 5 LBS EPA: .40



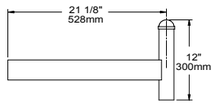
4" OR 5" POLE

AVAILABLE WITH:

DUNDEE	ALN610
PROVIDENCE	PROV
PROMENADE	PRMS, PRMN, PRM3-PM
TOWNE COMMONS	ALN440, ALN445, ALN540PM

SLA8D

WT: 5 LBS EPA: .40



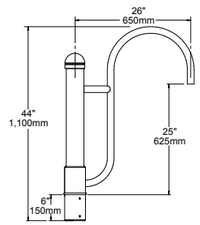
4" OR 5" POLE

AVAILABLE WITH:

PROMENADE	PRMD, PRM3
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

SLA9

WT: 18 LBS EPA: 1.90



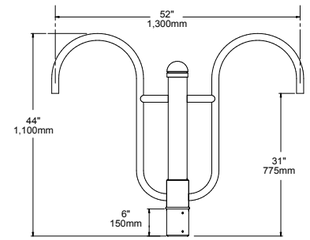
4" POLE

AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

SLA9-2

WT: 24 LBS EPA: 2.44



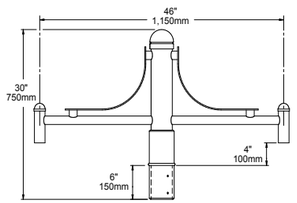
4" POLE

AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

SLA10-2

WT: 16 LBS EPA: 1.47



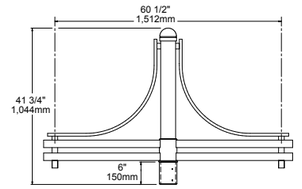
4" POLE

AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

SLA16-2

WT: 28 LBS EPA: 4.38



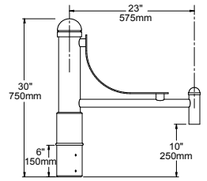
4" POLE

AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

SLA10

WT: 9 LBS EPA: 1.09



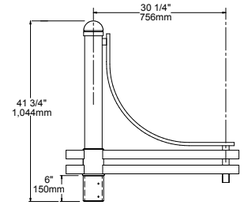
4" POLE

AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

SLA16

WT: 18 LBS EPA: 2.88



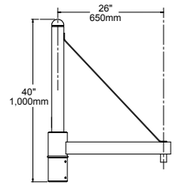
4" POLE

AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

SLA17

WT: 18 LBS EPA: 1.50



4" POLE

AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

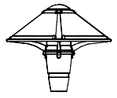
PERIOD LUMINAIRE ARM MATRIX

Pole Mount

PRM4-TRA5D

ARTS & CRAFTS®

ACSQ



ACRD

SACSQ

SACRD

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CIVIC LANTERN™

CLL

FEDERAL GLOBE™

FGS

FGL

PROMENADE™

PRMN

PRMS

PRMD

PRM2

PRM3

PRM4

PROVIDENCE®

PROL

PROV

PROS*

*Arms for PROS are custom designed

TOWNE COMMONS®

ALN438*

ALN440

ALN445

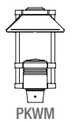
ALN540PM

*Arms for ALN438 are custom

DUNDEE

ALN610

PARKWAY SQUARE™

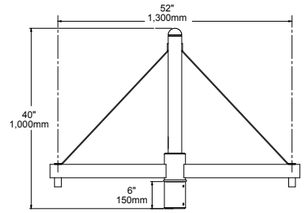


PKWM

PKWS

*Arms for PKWS and PKWM are custom

SLA17-2 WT: 24 LBS EPA: 2.05

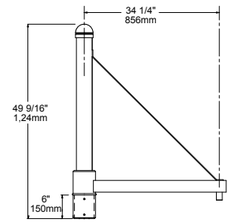


4" POLE

AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

SLA17 (5) WT: 24 LBS EPA: 2.20

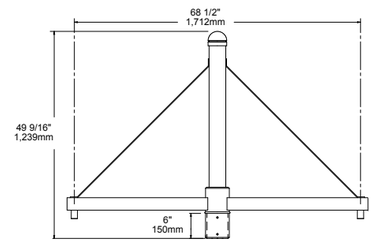


5" POLE

AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4

SLA17 (5)-2 WT: 33 LBS EPA: 2.90

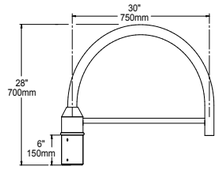


5" POLE

AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4

SLA18 WT: 12 LBS EPA: .85

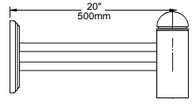


4" POLE

AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

SLA22D WT: 4 LBS EPA: .44

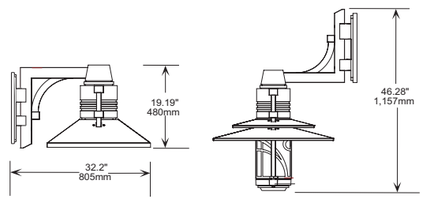


4" OR 5" POLE

AVAILABLE WITH:

PROMENADE	PRMD, PRM3
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

PSA-BU/PSA-BD PKWM WT: 14.4 LBS EPA: 1.10 PKWS WT: 6.41 LBS EPA: .43

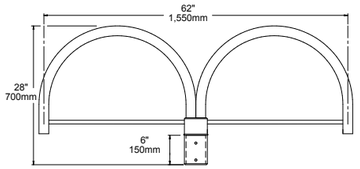


PKWS dimensions shown 4" POLE

AVAILABLE WITH:

PARKWAY SQUARE	PKWM, PKWS

SLA18-2 WT: 22 LBS EPA: 1.59

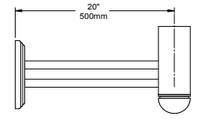


4" POLE

AVAILABLE WITH:

PROMENADE	PRMD, PRM2, PRM3, PRM4
TOWNE COMMONS	ALN440D, ALN445D, ALN540D

SLA22U WT: 6 LBS EPA: .60

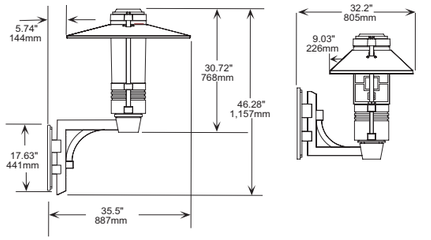


4" OR 5" POLE

AVAILABLE WITH:

DUNDEE	ALN610
PROMENADE	PRMS, PRMN, PRM3-PM
PROVIDENCE	PROV
TOWNE COMMONS	ALN440, ALN445, ALN540PM

PSA-TU/PSA-TD PKWM WT: 14.4 LBS EPA: 1.10 PKWS WT: 6.4 LBS EPA: .43



PKWS dimensions shown 4" POLE

AVAILABLE WITH:

PARKWAY SQUARE	PKWM, PKWS

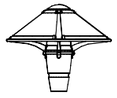
PERIOD LUMINAIRE ARM MATRIX

Pier Mount

PROV-PM3

ARTS & CRAFTS®

ACSQ



ACRD

SACSQ

SACRD

*Arms for Arts & Crafts are custom designed

CIVIC LANTERN™

CLL

FEDERAL GLOBE™

FGS

FGL

PROMENADE™

PRMN

PRMS

PRMD

PRM2

PRM3

PRM4

PROVIDENCE®

PROL

PROV

PROS*

*Arms for PROS are custom designed

TOWNE COMMONS®

ALN438*

ALN440

ALN445

ALN540PM

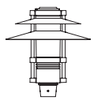
*Arms for ALN438 are custom

DUNDEE

ALN610

PARKWAY SQUARE™

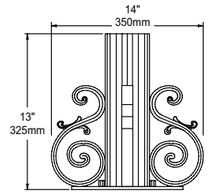
PKWM



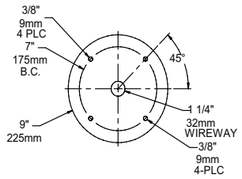
PKWS

*Arms for PKWS and PKWM are custom

PM1 WT: 18 LBS



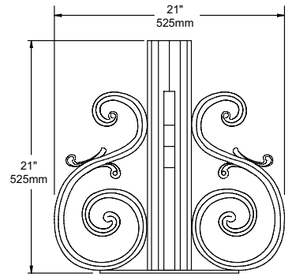
4" DIA



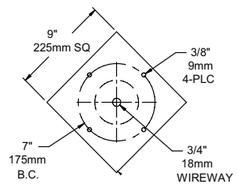
AVAILABLE WITH:

CIVIC LANTERN	CLL
DUNDEE	ALN610
FEDERAL GLOBE	FGS
PROVIDENCE	PROV, PROL
PROMENADE	PRMS, PRMN, PRM3-PM
TOWNE COMMONS	ALN440, ALN445, ALN540PM

PM2 WT: 22 LBS



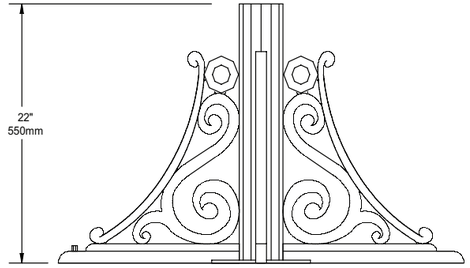
4" DIA



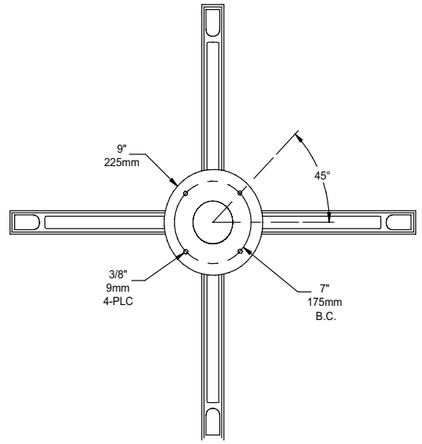
AVAILABLE WITH:

CIVIC LANTERN	CLL
DUNDEE	ALN610
FEDERAL GLOBE	FGS
PROVIDENCE	PROV, PROL
PROMENADE	PRMS, PRMN, PRM3-PM
TOWNE COMMONS	ALN440, ALN445, ALN540PM

PM3 WT: 30 LBS



4" DIA



AVAILABLE WITH:

CIVIC LANTERN	CLL
DUNDEE	ALN610
FEDERAL GLOBE	FGS
PROVIDENCE	PROV, PROL
PROMENADE	PRMS, PRMN, PRM3-PM
TOWNE COMMONS	ALN440, ALN445, ALN540PM

PRMS-PM2

Design Excellence

- Every arm has cast fitter precisely welded to the arm, ensuring a perfect alignment of the fixture to the pole during installation.
- The three point attachment provides a rigid mounting and a silicone gasket keeps the connection watertight.
- All arms are prewired with quick disconnects between the fixture and arm.
- The arm slips over the pole and rotates to allow for aligning the arms no matter how the poles were set. Six stainless steel set screws secure the arm.

(This 3-bolt feature for Universe only)

For wall mounted arms the hardware is provided by the contractor.

For pole mounted arms the hardware is proved for attachment to AAL poles.

ALL ARMS ARE NOT CREATED EQUAL

Accept no imitations. AAL arms are factory fabricated and assembled for maximum strength and rigidity. All components are welded together as a unitized structure. Easy, error proof installation with no field assembly required and all arms are prewired. Minimize the cost of installation and guarantee a great looking finished project with AAL arms.

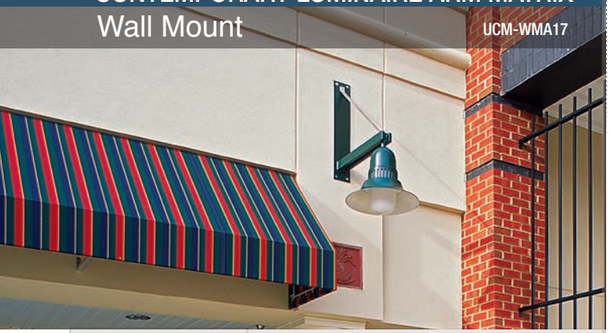
FH5-LS4

INDA-WMA

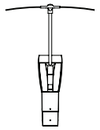
SVTL-SLA22U

CONTEMPORARY LUMINAIRE ARM MATRIX

Wall Mount



CUBIC INDIRECT™



INDC

INDIRECT™

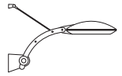
INDA *(ADJUSTABLE HEAD)*

INDF *(FIXED HEAD)*

DIRETTO®

DIR

FLEX™/MiniFLEX

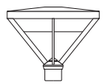


FH

FM

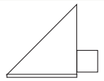
The arms for the Flex are custom designed for the fixture.

LARGENT®



SLVT

MITRE™



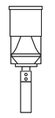
MITRE

The arms for the Mitre Medium are custom designed for the fixture.

The arms for the Mitre Large are included with the product.

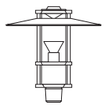
PERICLINE

PER-M *(MEDIUM)*



PER-S *(SMALL)*

SPECTRA™

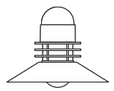


SP1 *(LARGE)*

SP2 *(SMALL)*

The arms for the Spectra are custom designed for the fixture.

UNIVERSE®



UCL *(LARGE)*

UCM *(MEDIUM)*

UCS *(SMALL)*

The arms for the Universe Small are custom designed for the fixture.

SPHERES

ALB 14-4SHG

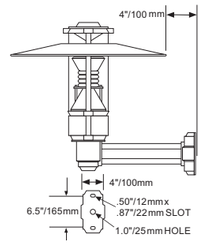
PARKWAY SQUARE™

PKWM

PKWS

*Arms for PKWS and PKWM are custom designed

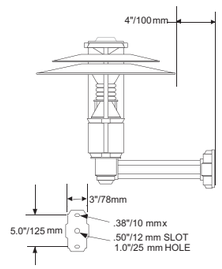
AWM1 WT: 8 LBS



AVAILABLE WITH:

SPECTRA	SP1

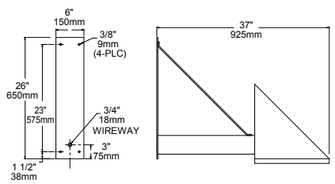
AWM2 WT: 5 LBS



AVAILABLE WITH:

SPECTRA	SP2

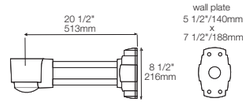
M2WDXA WT: 32 LBS



AVAILABLE WITH:

MITRE	M2

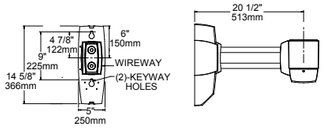
WMA WT: 10 LBS



AVAILABLE WITH:

DIRETTO	DIR
INDIRECT	INDA, INDF

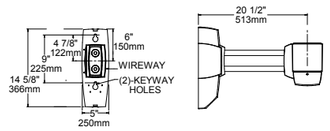
WMA2 WT: 13.87 LBS



AVAILABLE WITH:

CUBIC INDIRECT	INDC

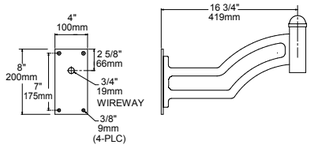
WMA2-NEG WT: 13.87 LBS



AVAILABLE WITH:

CUBIC INDIRECT	INDC

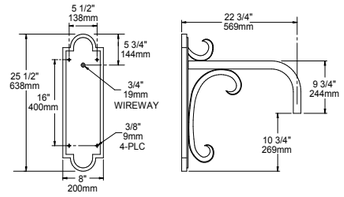
WMA5 WT: 6 LBS



AVAILABLE WITH:

UNIVERSE	UCM, UCL

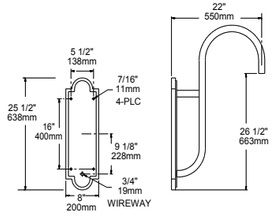
WMA4 WT: 12 LBS



AVAILABLE WITH:

UNIVERSE	UCM, UCL

WMA6 WT: 14 LBS



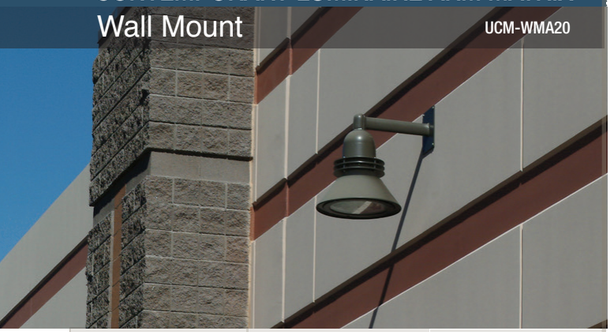
AVAILABLE WITH:

UNIVERSE	UCM, UCL

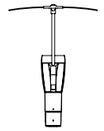
CONTEMPORARY LUMINAIRE ARM MATRIX

Wall Mount

UCM-WMA20



CUBIC INDIRECT™



INDC

INDIRECT™

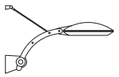
INDA *(ADJUSTABLE HEAD)*

INDF *(FIXED HEAD)*

DIRETTO®

DIR

FLEX™/MiniFLEX

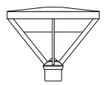


FH

FM

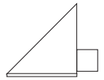
The arms for the Flex are custom designed for the fixture.

LARGENT®



SLVT

MITRE™



MITRE

The arms for the Mitre Medium are custom designed for the fixture.

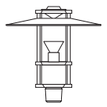
The arms for the Mitre Large are included with the product.

PERICLINE

PER-M *(MEDIUM)*

PER-S *(SMALL)*

SPECTRA™

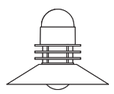


SP1 *(LARGE)*

SP2 *(SMALL)*

The arms for the Spectra are custom designed for the fixture.

UNIVERSE®



UCL *(LARGE)*

UCM *(MEDIUM)*

UCS *(SMALL)*

The arms for the Universe Small are custom designed for the fixture.

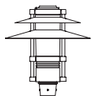
SPHERES

ALB 18

ALB 14-4SHG

PARKWAY SQUARE™

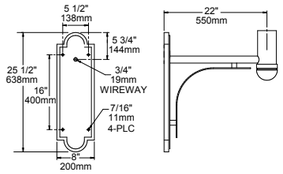
PKWM



PKWS

*Arms for PKWS and PKWM are custom designed

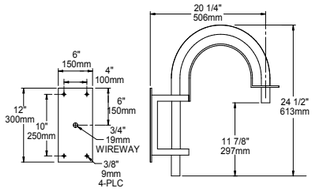
WMA7 WT: 16 LBS



AVAILABLE WITH:

LARGENT	SLVT
SPHERE	ALB14, ALB18

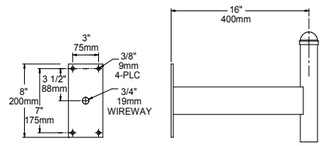
WMA8 WT: 10 LBS



AVAILABLE WITH:

UNIVERSE UCM, UCL

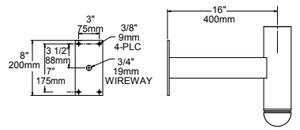
WMA9D WT: 6 LBS



AVAILABLE WITH:

UNIVERSE UCM, UCL

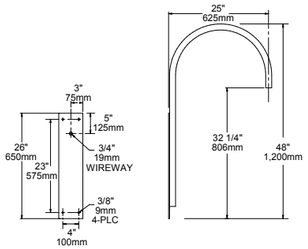
WMA9U WT: 8 LBS



AVAILABLE WITH:

LARGENT	SLVT
SPHERES	ALB14, ALB18

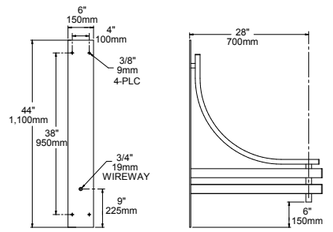
WMA11 WT: 10 LBS



AVAILABLE WITH:

UNIVERSE UCM, UCL

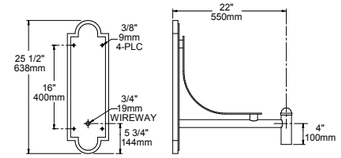
WMA16 WT: 22 LBS



AVAILABLE WITH:

UNIVERSE UCM, UCL

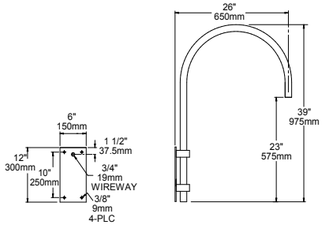
WMA10 WT: 16 LBS



AVAILABLE WITH:

UNIVERSE	UCM, UCL

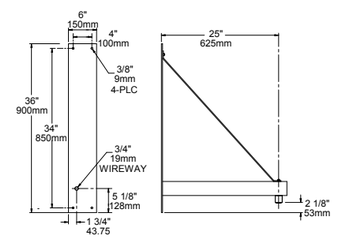
WMA12 WT: 12 LBS



AVAILABLE WITH:

UNIVERSE UCM, UCL

WMA17 WT: 15 LBS



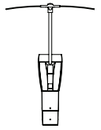
AVAILABLE WITH:

UNIVERSE UCM, UCL

CONTEMPORARY LUMINAIRE ARM MATRIX

Wall Mount

CUBIC INDIRECT™



INDC

INDIRECT™

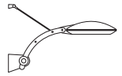
INDA *(ADJUSTABLE HEAD)*

INDF *(FIXED HEAD)*

DIRETTO®

DIR

FLEX™/MiniFLEX

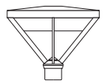


FH

FM

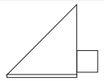
The arms for the Flex are custom designed for the fixture.

LARGENT®



SLVT

MITRE™



MITRE

The arms for the Mitre Medium are custom designed for the fixture.

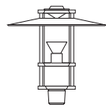
The arms for the Mitre Large are included with the product.

PERICLINE

PER-M *(MEDIUM)*

PER-S *(SMALL)*

SPECTRA™

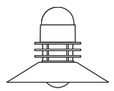


SP1 *(LARGE)*

SP2 *(SMALL)*

The arms for the Spectra are custom designed for the fixture.

UNIVERSE®



UCL *(LARGE)*

UCM *(MEDIUM)*

UCS *(SMALL)*

The arms for the Universe Small are custom designed for the fixture.

SPHERES

ALB 18

ALB 14-4SHG

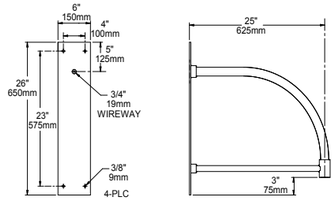
PARKWAY SQUARE™

PKWM

PKWS

*Arms for PKWS and PKWM are custom designed

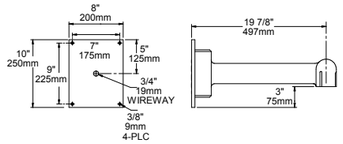
WMA18 WT: 18 LBS



AVAILABLE WITH:

UNIVERSE	UCM, UCL

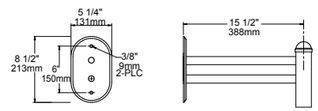
WMA20 WT: 12 LBS



AVAILABLE WITH:

UNIVERSE	UCM, UCL

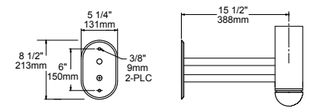
WMA22D WT: 4 LBS



AVAILABLE WITH:

UNIVERSE	UCM, UCL

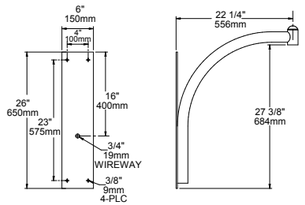
WMA22U WT: 5 LBS



AVAILABLE WITH:

LARGENT	SLVT
SPHERES	ALB14, ALB18

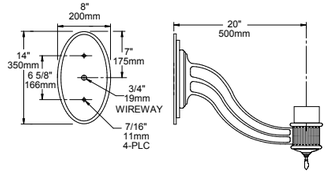
WMA24 WT: 12 LBS



AVAILABLE WITH:

UNIVERSE	UCM, UCL

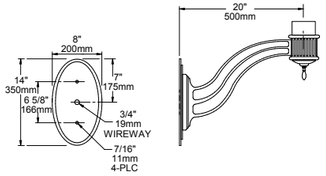
WMA35U WT: 12 LBS



AVAILABLE WITH:

LARGENT	SLVT
SPHERES	ALB18

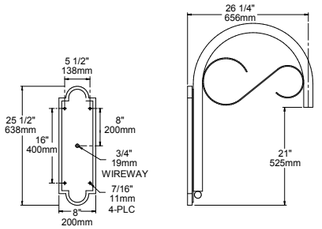
WMA36U WT: 12 LBS



AVAILABLE WITH:

LARGENT	SLVT
SPHERES	ALB18

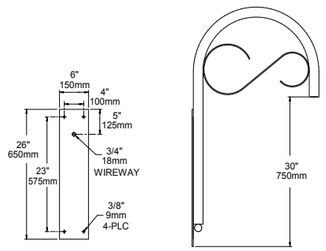
WMA37 WT: 12 LBS



AVAILABLE WITH:

UNIVERSE	UCM, UCL

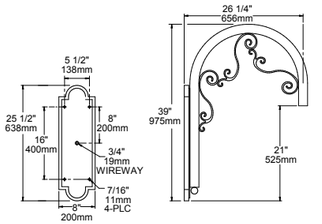
WMA38 WT: 12 LBS



AVAILABLE WITH:

UNIVERSE	UCM, UCL

WMA39 WT: 14 LBS



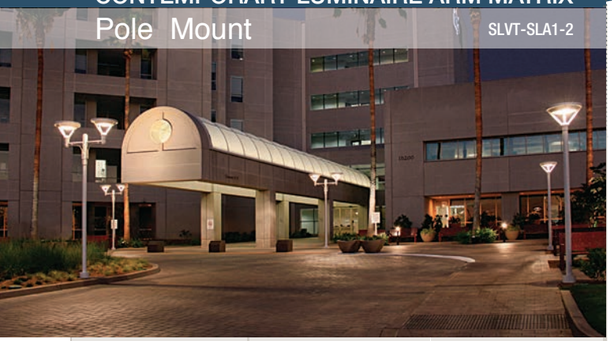
AVAILABLE WITH:

UNIVERSE	UCM, UCL

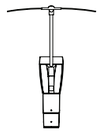
CONTEMPORARY LUMINAIRE ARM MATRIX

Pole Mount

SLVT-SLA1-2



CUBIC INDIRECT™



INDC

INDIRECT™

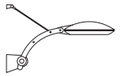
INDA *(ADJUSTABLE HEAD)*

INDF *(FIXED HEAD)*

DIRETTO®

DIR

FLEX™/MiniFLEX

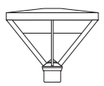


FH

FM

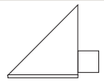
The arms for the Flex are custom designed for the fixture.

LARGENT®



SLVT

MITRE™



MITRE

The arms for the Mitre Medium are custom designed for the fixture.

The arms for the Mitre Large are included with the product.

PERICLINE

PER-M *(MEDIUM)*

PER-S *(SMALL)*

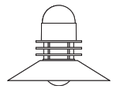
SPECTRA™

SP1 *(LARGE)*

SP2 *(SMALL)*

The arms for the Spectra are custom designed for the fixture.

UNIVERSE®



UCL *(LARGE)*

UCM *(MEDIUM)*

UCS *(SMALL)*

The arms for the Universe Small are custom designed for the fixture.

SPHERES

ALB 18

ALB 14-4SHG

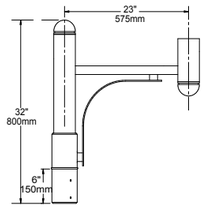
PARKWAY SQUARE™

PKWM

PKWS

*Arms for PKWS and PKWM are custom designed

SLA1 WT: 12 LBS EPA: 1.09

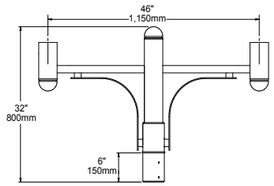


4" POLE

AVAILABLE WITH:

LARGENT	SLVT
SPHERES	ALB14, ALB18

SLA1-2 WT: 16 LBS EPA: 1.47

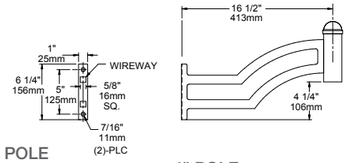


4" POLE

AVAILABLE WITH:

LARGENT	SLVT
SPHERES	ALB14, ALB18

SLA2 WT: 6 LBS EPA: .30



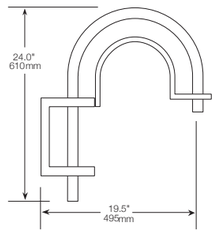
BOLTS TO POLE

4" POLE

AVAILABLE WITH:

UNIVERSE	UCM, UCL

SLA3 WT: 8 LBS EPA: .77



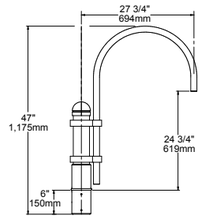
BOLTS TO POLE

4" POLE

AVAILABLE WITH:

UNIVERSE	UCM, UCL

SLA4 WT: 14 LBS EPA: 1.39

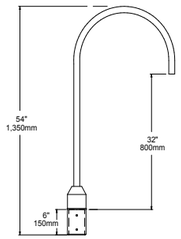


4" POLE

AVAILABLE WITH:

UNIVERSE	UCM, UCL

SLA7 WT: 9 LBS EPA: 1.34

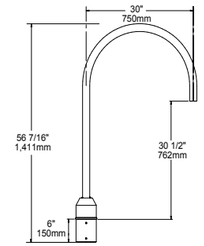


4" POLE

AVAILABLE WITH:

UNIVERSE	UCM, UCL

SLA7(5) WT: 11 LBS EPA: 1.73

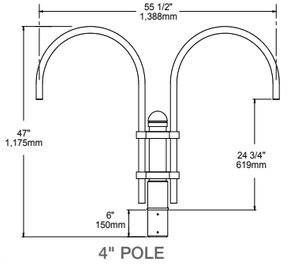


5" POLE

AVAILABLE WITH:

UNIVERSE	UCM, UCL

SLA4-2 WT: 26 LBS EPA: 2.10

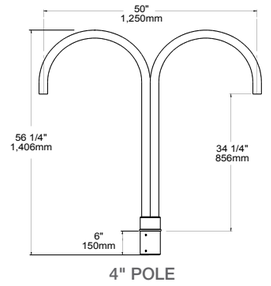


4" POLE

AVAILABLE WITH:

UNIVERSE	UCM, UCL

SLA7-2 WT: 16 LBS EPA: 2.34

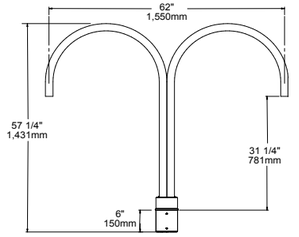


4" POLE

AVAILABLE WITH:

UNIVERSE	UCM, UCL

SLA7(5)-2 WT: 18 LBS EPA: 2.60



5" POLE

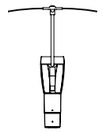
AVAILABLE WITH:

UNIVERSE	UCM, UCL

CONTEMPORARY LUMINAIRE ARM MATRIX

Pole Mount

CUBIC INDIRECT™



INDC

INDIRECT™

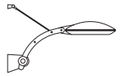
INDA *(ADJUSTABLE HEAD)*

INDF *(FIXED HEAD)*

DIRETTO®

DIR

FLEX™/MiniFLEX

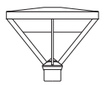


FH

FM

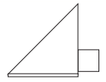
The arms for the Flex are custom designed for the fixture.

LARGENT®



SLVT

MITRE™



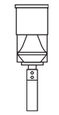
MITRE

The arms for the Mitre Medium are custom designed for the fixture.

The arms for the Mitre Large are included with the product.

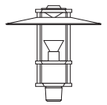
PERICLINE

PER-M *(MEDIUM)*



PER-S *(SMALL)*

SPECTRA™

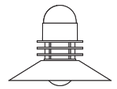


SP1 *(LARGE)*

SP2 *(SMALL)*

The arms for the Spectra are custom designed for the fixture.

UNIVERSE®



UCL *(LARGE)*

UCM *(MEDIUM)*

UCS *(SMALL)*

The arms for the Universe Small are custom designed for the fixture.

SPHERES

ALB 18

ALB 14-4SHG

PARKWAY SQUARE™

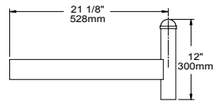
PKWM

PKWS

*Arms for PKWS and PKWM are custom designed

SLA8D

WT: 5 LBS EPA: .77



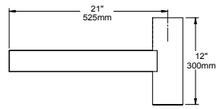
BOLTS TO POLE 4" OR 5" POLE

AVAILABLE WITH:

UNIVERSE	UCM, UCL

SLA8U

WT: 5 LBS EPA: .40



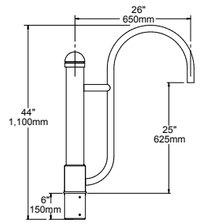
BOLTS TO POLE 4" OR 5" POLE

AVAILABLE WITH:

LARGENT	SLVT
SPHERES	ALB14, ALB18

SLA9

WT: 18 LBS EPA: 1.90



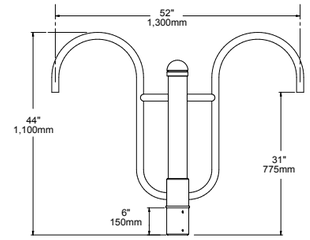
4" POLE

AVAILABLE WITH:

UNIVERSE	UCM, UCL

SLA9-2

WT: 24 LBS EPA: 2.44



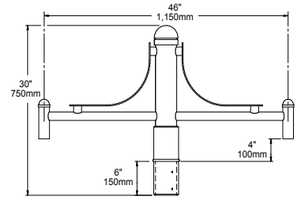
4" POLE

AVAILABLE WITH:

UNIVERSE	UCM, UCL

SLA10-2

WT: 16 LBS EPA: 1.47



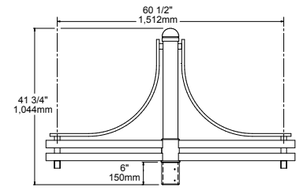
4" POLE

AVAILABLE WITH:

UNIVERSE	UCM, UCL

SLA16-2

WT: 28 LBS EPA: 4.38



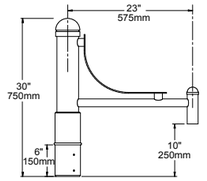
4" POLE

AVAILABLE WITH:

UNIVERSE	UCM, UCL

SLA10

WT: 9 LBS EPA: 1.09



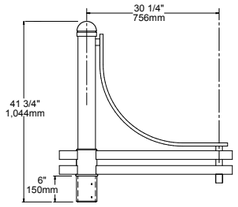
4" POLE

AVAILABLE WITH:

UNIVERSE	UCM, UCL

SLA16

WT: 18 LBS EPA: 2.88



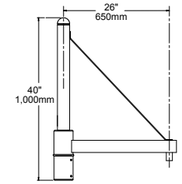
4" POLE

AVAILABLE WITH:

UNIVERSE	UCM, UCL

SLA17

WT: 18 LBS EPA: 1.50



4" POLE

AVAILABLE WITH:

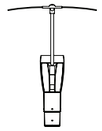
UNIVERSE	UCM, UCL

CONTEMPORARY LUMINAIRE ARM MATRIX

Pole Mount

PKWM-PSA TU

CUBIC INDIRECT™



INDC

INDIRECT™

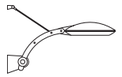
INDA *(ADJUSTABLE HEAD)*

INDF *(FIXED HEAD)*

DIRETTO®

DIR

FLEX™/MiniFLEX

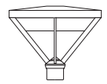


FH

FM

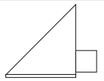
The arms for the Flex are custom designed for the fixture.

LARGENT®



SLVT

MITRE™



MITRE

The arms for the Mitre Medium are custom designed for the fixture.

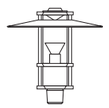
The arms for the Mitre Large are included with the product.

PERICLINE

PER-M *(MEDIUM)*

PER-S *(SMALL)*

SPECTRA™

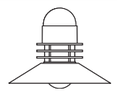


SP1 *(LARGE)*

SP2 *(SMALL)*

The arms for the Spectra are custom designed for the fixture.

UNIVERSE®



UCL *(LARGE)*

UCM *(MEDIUM)*

UCS *(SMALL)*

The arms for the Universe Small are custom designed for the fixture.

SPHERES

ALB 18

ALB 14-4SHG

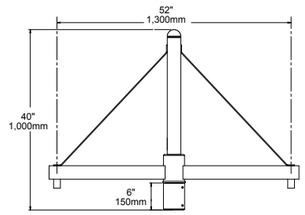
PARKWAY SQUARE™

PKWM

PKWS

*Arms for PKWS and PKWM are custom designed

SLA17-2 WT: 24 LBS EPA: 2.05

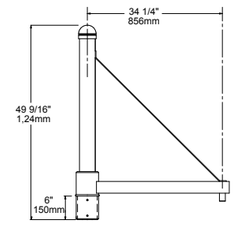


4" POLE

AVAILABLE WITH:

UNIVERSE UCM, UCL

SLA17(5) WT: 24 LBS EPA: 2.20

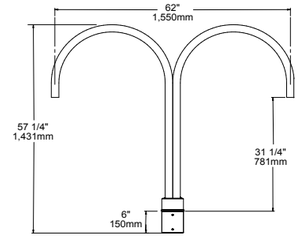


5" POLE

AVAILABLE WITH:

UNIVERSE UCM, UCL

SLA17(5)-2 WT: 33 LBS EPA: 2.90

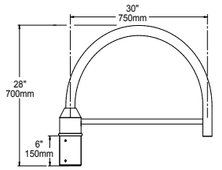


5" POLE

AVAILABLE WITH:

UNIVERSE UCM, UCL

SLA18 WT: 12 LBS EPA: .85

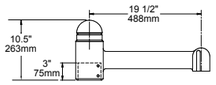


4" POLE

AVAILABLE WITH:

UNIVERSE UCM, UCL

SLA20 WT: 10 LBS EPA: .70

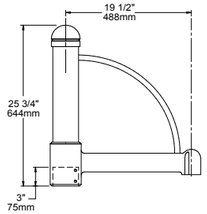


4" POLE

AVAILABLE WITH:

UNIVERSE UCM, UCL

SLA20A WT: 15 LBS EPA: 1.30

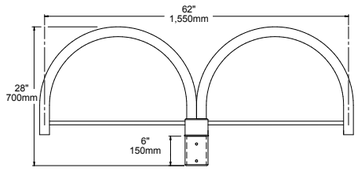


4" POLE

AVAILABLE WITH:

UNIVERSE UCM, UCL

SLA18-2 WT: 22 LBS EPA: 1.59

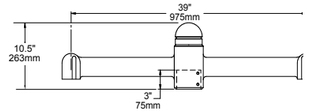


4" POLE

AVAILABLE WITH:

UNIVERSE UCM, UCL

SLA20-2 WT: 18 LBS EPA: 1.25

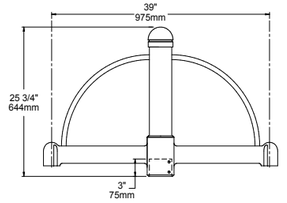


4" POLE

AVAILABLE WITH:

UNIVERSE UCM, UCL

SLA20A-2 WT: 26 LBS EPA: 1.94



4" POLE

AVAILABLE WITH:

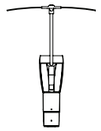
UNIVERSE UCM, UCL

CONTEMPORARY LUMINAIRE ARM MATRIX

Pole Mount

UCL-SLA17(5)

CUBIC INDIRECT™



INDC

INDIRECT™

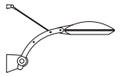
INDA *(ADJUSTABLE HEAD)*

INDF *(FIXED HEAD)*

DIRETTO®

DIR

FLEX™/MiniFLEX

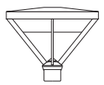


FH

FM

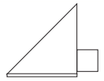
The arms for the Flex are custom designed for the fixture.

LARGENT®



SLVT

MITRE™



MITRE

The arms for the Mitre Medium are custom designed for the fixture.

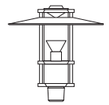
The arms for the Mitre Large are included with the product.

PERICLINE

PER-M *(MEDIUM)*

PER-S *(SMALL)*

SPECTRA™

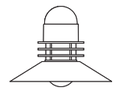


SP1 *(LARGE)*

SP2 *(SMALL)*

The arms for the Spectra are custom designed for the fixture.

UNIVERSE®



UCL *(LARGE)*

UCM *(MEDIUM)*

UCS *(SMALL)*

The arms for the Universe Small are custom designed for the fixture.

SPHERES

ALB 18

ALB 14-4SHG

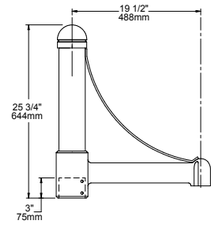
PARKWAY SQUARE™

PKWM

PKWS

*Arms for PKWS and PKWM are custom designed

SLA20B WT: 14 LBS EPA: 1.40

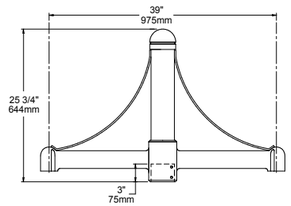


4" POLE

AVAILABLE WITH:

UNIVERSE	UCM, UCL

SLA20B-2 WT: 24 LBS EPA: 1.70

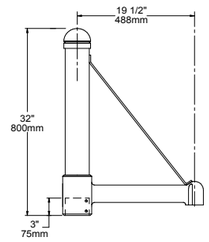


4" POLE

AVAILABLE WITH:

UNIVERSE	UCM, UCL

SLA20C WT: 15 LBS EPA: 1.39

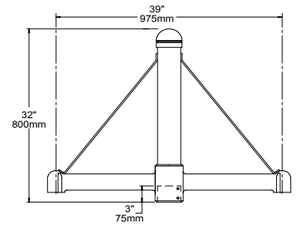


4" POLE

AVAILABLE WITH:

UNIVERSE	UCM, UCL

SLA20C-2 WT: 26 LBS EPA: 1.91

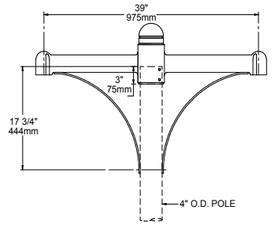


4" POLE

AVAILABLE WITH:

UNIVERSE	UCM, UCL

SLA20D-2 WT: 21 LBS EPA: 1.18

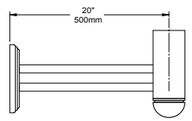


4" POLE

AVAILABLE WITH:

UNIVERSE	UCM, UCL

SLA22U WT: 6 LBS EPA: .60

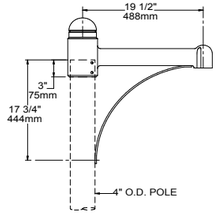


BOLTS TO 4" POLE 4" OR 5" POLE

AVAILABLE WITH:

LARGENT	SLVT
XSPHERES	ALB14, ALB18

SLA20D WT: 12 LBS EPA: .75

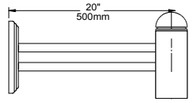


4" POLE

AVAILABLE WITH:

UNIVERSE	UCM, UCL

SLA22D WT: 4 LBS EPA: .44

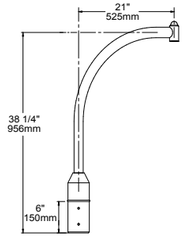


4" OR 5" POLE

AVAILABLE WITH:

UNIVERSE	UCM, UCL

SLA24 WT: 9 LBS EPA: .85



4" POLE

AVAILABLE WITH:

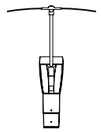
UNIVERSE	UCM, UCL

CONTEMPORARY LUMINAIRE ARM MATRIX

Pole Mount

UCM-SLA4

CUBIC INDIRECT™



INDC

INDIRECT™

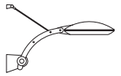
INDA *(ADJUSTABLE HEAD)*

INDF *(FIXED HEAD)*

DIRETTO®

DIR

FLEX™/MiniFLEX

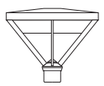


FH

FM

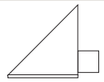
The arms for the Flex are custom designed for the fixture.

LARGENT®



SLVT

MITRE™

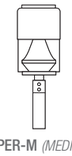


MITRE

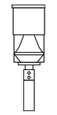
The arms for the Mitre Medium are custom designed for the fixture.

The arms for the Mitre Large are included with the product.

PERICLINE

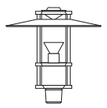


PER-M *(MEDIUM)*



PER-S *(SMALL)*

SPECTRA™

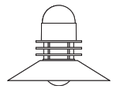


SP1 *(LARGE)*

SP2 *(SMALL)*

The arms for the Spectra are custom designed for the fixture.

UNIVERSE®



UCL *(LARGE)*

UCM *(MEDIUM)*

UCS *(SMALL)*

The arms for the Universe Small are custom designed for the fixture.

SPHERES

ALB 18

ALB 14-4SHG

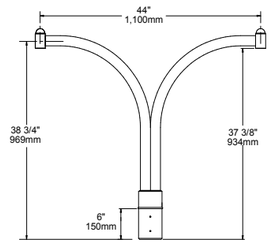
PARKWAY SQUARE™

PKWM

PKWS

*Arms for PKWS and PKWM are custom designed

SLA24-2 WT: 14 LBS EPA: 1.59

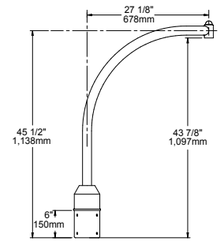


4" POLE

AVAILABLE WITH:

UNIVERSE	UCM, UCL

SLA24(5) WT: 11 LBS EPA: 1.17

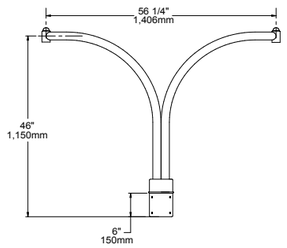


5" POLE

AVAILABLE WITH:

UNIVERSE	UCM, UCL

SLA24(5)-2 WT: 16 LBS EPA: 1.81

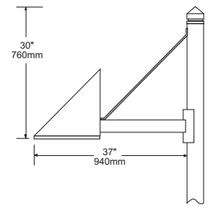


5" POLE

AVAILABLE WITH:

UNIVERSE	UCM, UCL

M2PXA WT: 41 LBS EPA: 1.55

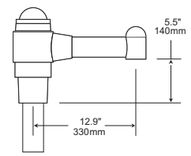


4" POLE

AVAILABLE WITH:

MITRE	M2

PSTS WT: 6 LBS EPA: .291

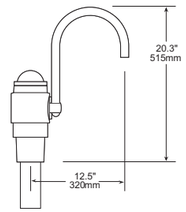


3" POLE

AVAILABLE WITH:

UNIVERSE	UCS

PCVS WT: 5.27 LBS EPA: .268

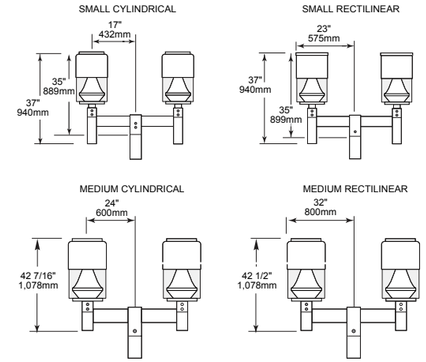


3" POLE

AVAILABLE WITH:

UNIVERSE	UCS

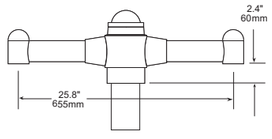
PT2 PER-S WT: 11 LBS EPA: .608 PER-M WT: 20 LBS EPA: .922



AVAILABLE WITH:

PERICLINE	PER-S, PER-M

PSTT WT: 6.71 LBS EPA: .367

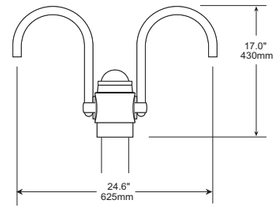


4" POLE

AVAILABLE WITH:

UNIVERSE	UCS

PCVT WT: 5.27 LBS EPA: .322



4" POLE

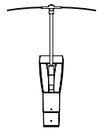
AVAILABLE WITH:

UNIVERSE	UCS

CONTEMPORARY LUMINAIRE ARM MATRIX

Pole Mount SP1-TAP1

CUBIC INDIRECT™



INDC

INDIRECT™

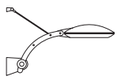
INDA *(ADJUSTABLE HEAD)*

INDF *(FIXED HEAD)*

DIRETTO®

DIR

FLEX™/MiniFLEX

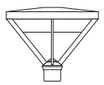


FH

FM

The arms for the Flex are custom designed for the fixture.

LARGENT®



SLVT

MITRE™

MITRE

The arms for the Mitre Medium are custom designed for the fixture.

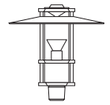
The arms for the Mitre Large are included with the product.

PERICLINE

PER-M *(MEDIUM)*

PER-S *(SMALL)*

SPECTRA™

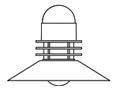


SP1 *(LARGE)*

SP2 *(SMALL)*

The arms for the Spectra are custom designed for the fixture.

UNIVERSE®



UCL *(LARGE)*

UCM *(MEDIUM)*

UCS *(SMALL)*

The arms for the Universe Small are custom designed for the fixture.

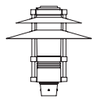
SPHERES

ALB 18

ALB 14-4SHG

PARKWAY SQUARE™

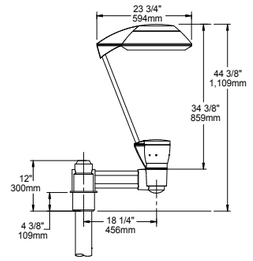
PKWM



PKWS

*Arms for PKWS and PKWM are custom designed

PMAS WT: 15 LBS EPA: .52

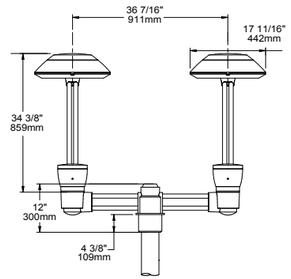


4" POLE

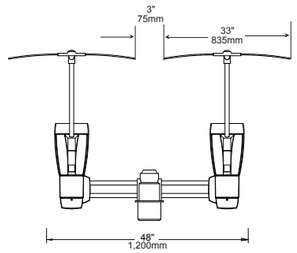
AVAILABLE WITH:

DIRETTO	DIR

PMAT DIR WT: 24 LBS EPA: .52 / INDC WT: 24 LBS EPA: .82



4" POLE

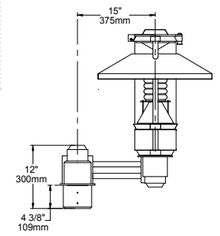


4" POLE

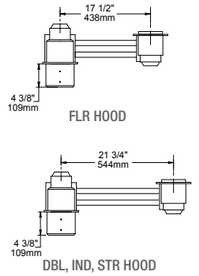
AVAILABLE WITH:

DIRETTO	DIR
INDIRECT	INDA, INDF
CUBIC INDIRECT	INDC

SAP1 WT: 9 LBS EPA: .63



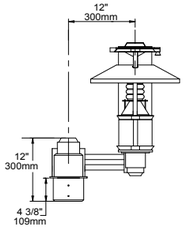
SLIP OVER 4" POLE



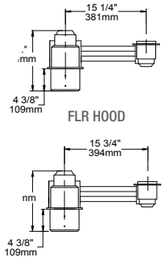
AVAILABLE WITH:

SPECTRA	SP1

SAP2 WT: 15 LBS EPA: .52



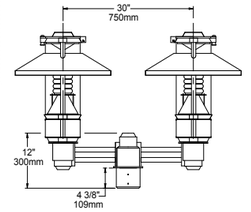
SLIP OVER 4" POLE



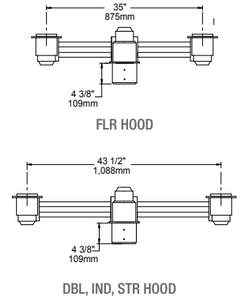
AVAILABLE WITH:

SPECTRA	SP2

TAP1 WT: 12 LBS EPA: .83



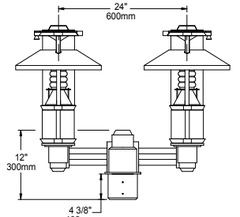
SLIP OVER 4" POLE



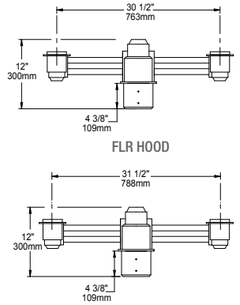
AVAILABLE WITH:

SPECTRA	SP1

TAP2 WT: 15 LBS EPA: .52



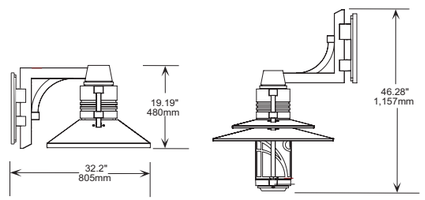
SLIP OVER 4" POLE



AVAILABLE WITH:

SPECTRA	SP2

PSA-BU/PSA-BD PKWM WT: 6.4 LBS EPA: 1.10 / PKWS WT: 6.4 LBS EPA: .43

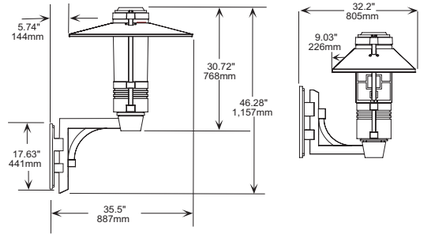


PKWS dimensions shown 4" POLE

AVAILABLE WITH:

PARKWAY SQUARE	PKWM, PKWS

PSA-TU/PSA-TD PKWM WT: 14.4 LBS EPA: 1.10 / PKWS WT: 6.4 LBS EPA: .43



PKWS dimensions shown 4" POLE

AVAILABLE WITH:

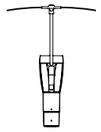
PARKWAY SQUARE	PKWM, PKWS

CONTEMPORARY LUMINAIRE ARM MATRIX

Pole Mount

FH3-TLC5

CUBIC INDIRECT™



INDC

INDIRECT™

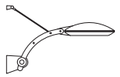
INDA *(ADJUSTABLE HEAD)*

INDF *(FIXED HEAD)*

DIRETTO®

DIR

FLEX™/MiniFLEX

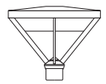


FH

FM

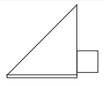
The arms for the Flex are custom designed for the fixture.

LARGENT®



SLVT

MITRE™



MITRE

The arms for the Mitre Medium are custom designed for the fixture.

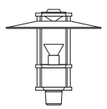
The arms for the Mitre Large are included with the product.

PERICLINE

PER-M *(MEDIUM)*

PER-S *(SMALL)*

SPECTRA™

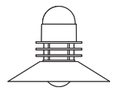


SP1 *(LARGE)*

SP2 *(SMALL)*

The arms for the Spectra are custom designed for the fixture.

UNIVERSE®



UCL *(LARGE)*

UCM *(MEDIUM)*

UCS *(SMALL)*

The arms for the Universe Small are custom designed for the fixture.

SPHERES

ALB 18

ALB 14-4SHG

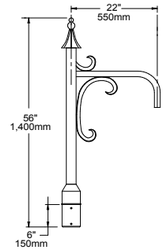
PARKWAY SQUARE™

PKWM

PKWS

*Arms for PKWS and PKWM are custom designed

TRA4 WT: 16 LBS EPA: 1.81

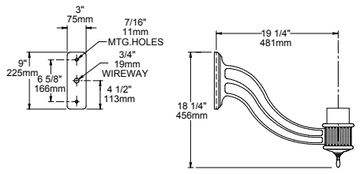


4" POLE

AVAILABLE WITH:

PERSPECT	SL PLD
UNIVERSE	UCM, UCL

TRA5U WT: 9 LBS EPA: .62

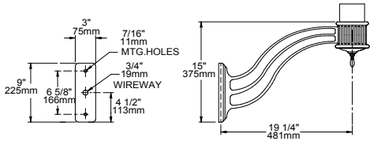


BOLTS TO POLE 4" OR 5" POLE

AVAILABLE WITH:

LARGENT	SLVT
PERSPECT	SL PL
SPHERES	ALB18

TRA6U WT: 9 LBS EPA: .62

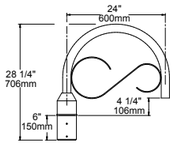


BOLTS TO POLE 4" OR 5" POLE

AVAILABLE WITH:

LARGENT	SLVT
PERSPECT	SL PL
SPHERES	ALB18

TRA7 WT: 12 LBS EPA: .90

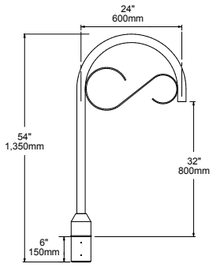


4" POLE

AVAILABLE WITH:

PERSPECT	SL PLD
UNIVERSE	UCM, UCL

TRA8 WT: 13 LBS EPA: 1.34

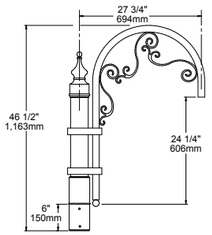


4" POLE

AVAILABLE WITH:

PERSPECT	SL PLD
UNIVERSE	UCM, UCL

TRA9 WT: 17 LBS EPA: 1.90

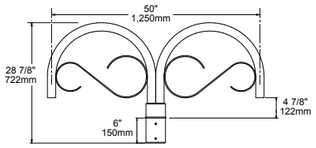


4" POLE

AVAILABLE WITH:

PERSPECT	SL PLD
UNIVERSE	UCM, UCL

TRA7-2 WT: 18 LBS EPA: 1.62

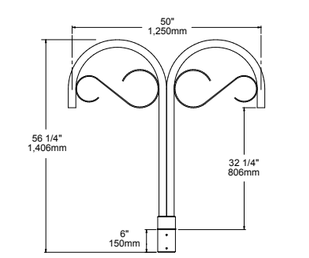


4" POLE

AVAILABLE WITH:

PERSPECT	SL PLD
UNIVERSE	UCM, UCL

TRA8-2 WT: 21 LBS EPA: 2.68

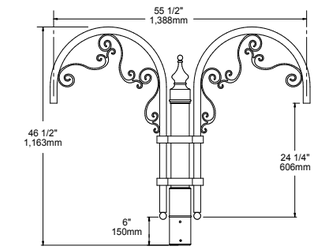


4" POLE

AVAILABLE WITH:

PERSPECT	SL PLD
UNIVERSE	UCM, UCL

TRA9-2 WT: 25 LBS EPA: 2.72



4" POLE

AVAILABLE WITH:

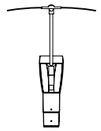
PERSPECT	SL PLD
UNIVERSE	UCM, UCL

architectural area lighting

CONTEMPORARY LUMINAIRE ARM MATRIX

Pier Mount

CUBIC INDIRECT™



INDC

INDIRECT™

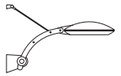
INDA *(ADJUSTABLE HEAD)*

INDF *(FIXED HEAD)*

DIRETTO®

DIR

FLEX™/MiniFLEX

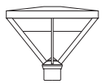


FH

FM

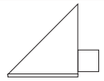
The arms for the Flex are custom designed for the fixture.

LARGENT®



SLVT

MITRE™



MITRE

The arms for the Mitre Medium are custom designed for the fixture.

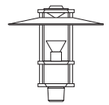
The arms for the Mitre Large are included with the product.

PERICLINE

PER-M *(MEDIUM)*

PER-S *(SMALL)*

SPECTRA™

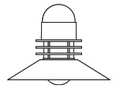


SP1 *(LARGE)*

SP2 *(SMALL)*

The arms for the Spectra are custom designed for the fixture.

UNIVERSE®



UCL *(LARGE)*

UCM *(MEDIUM)*

UCS *(SMALL)*

The arms for the Universe Small are custom designed for the fixture.

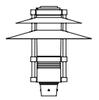
SPHERES

ALB 18

ALB 14-4SHG

PARKWAY SQUARE™

PKWM

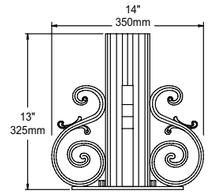


PKWS

*Arms for PKWS and PKWM are custom designed

PIER MOUNT

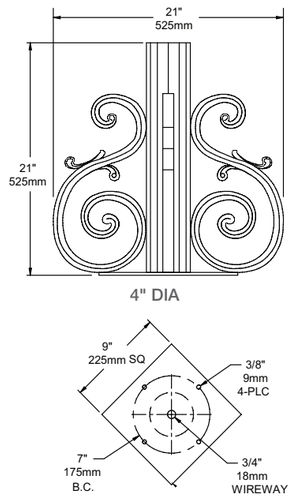
PM1 WT: 18 LBS



AVAILABLE WITH:

LARGENT SLVT

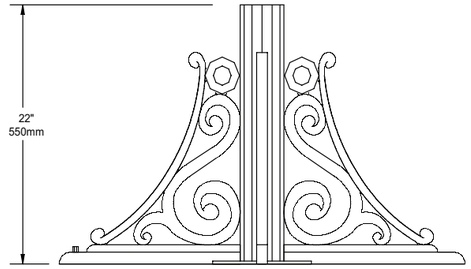
PM2 WT: 22 LBS

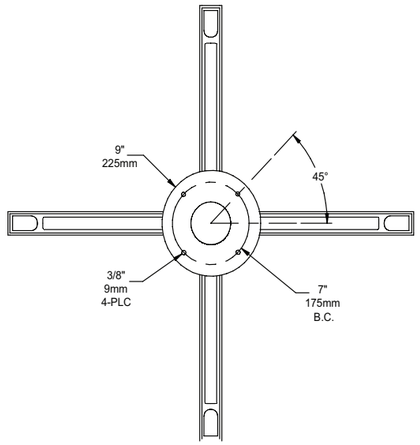


AVAILABLE WITH:

LARGENT SLVT

PM3 WT: 30 LBS





AVAILABLE WITH:

LARGENT SLVT

SLVT-PM2

WIND MAP

All fixtures and arms are assigned an EPA value (Effective Projected Area) which is defined as the maximum two dimensional area multiplied by the drag coefficient (Cd) designated by AASHTO.

The sum of the fixture and arm EPA must not exceed the maximum allowable pole EPA at the selected design wind speed.

NOTES

- The wind map presented is intended to be used as a general guide for selection of a design wind speed. Always consult the local authority that has jurisdiction over the special wind region in order to determine the correct design wind speed.
- Maximum allowable EPA values are calculated based on a 50 year recurrence interval in accordance with AASHTO 2001, 4th Edition (American Association of State Highway and Transportation Officials).
- Wind speed values are 3-second gust speeds for poles mounted at ground level for exposure C category.

American Association of State Highway and Transportation Officials:
444 N. Capitol Street, NW, Suite 249, Washington, D.C. 20001
(202) 624-5800, www.aashto.org

WARNINGS

- Caution must be exercised in the selection of a design wind speed where the pole is to be installed in a special wind region (as indicated by the wind map) or in an area where wind speed prediction is limited such as:

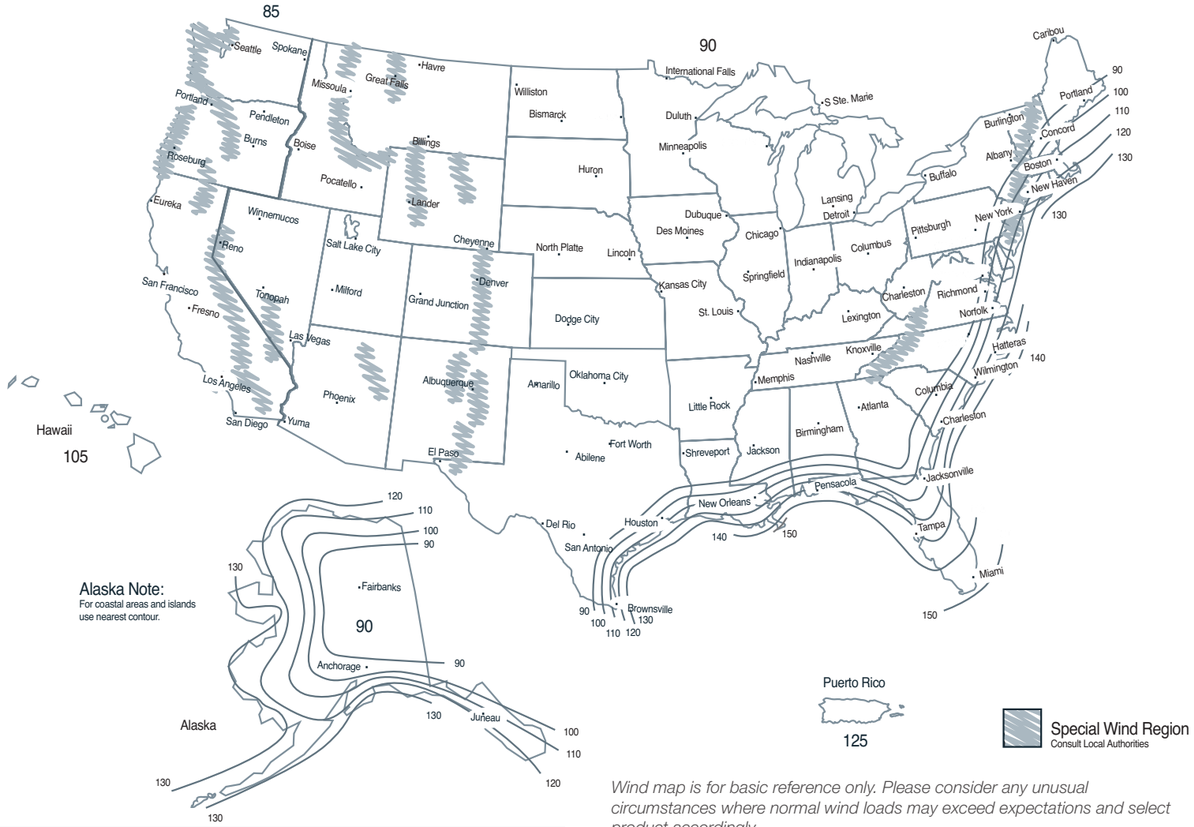
  Mountainous terrain

  Gorges

  Oceans or large bodies of water

  Large areas of open land

  Areas that are prone to hurricanes, typhoons, cyclones, tornadoes or any extreme environmental condition
- Poles that are to be installed on structures higher than ground level (such as buildings and bridges) may be subjected to vibration, oscillations, and other fatigue effects, which are not covered by the AAL warranty.
- The use of banners or other appendages may severely affect the loading of a pole. No banner or other appendages should be attached to an AAL pole unless designed and approved by AAL.
- Pole foundations should be designed and constructed based on local conditions and/or codes. AAL does not offer recommendations for the foundation of the pole.
- Poles should never be erected without the luminaire installed. Warranty is voided if the pole is erected without the luminaire. The warranty is voided if the pole is not grouted under the entire base after installation.



Wind map is for basic reference only. Please consider any unusual circumstances where normal wind loads may exceed expectations and select product accordingly.

PRM4-TRA35D

AAL POLES

AAL poles are designed for maximum strength to resist wind loads and perform well with the endless variety of fixtures, arms and accessories. Whether the pole is ten feet or twenty-five feet tall, the same robust design and structural integrity is built into every pole at AAL.

At AAL, we design and manufacture aluminum poles for the best balance of strength, corrosion resistance and longevity.

PRM2 -TRA35D

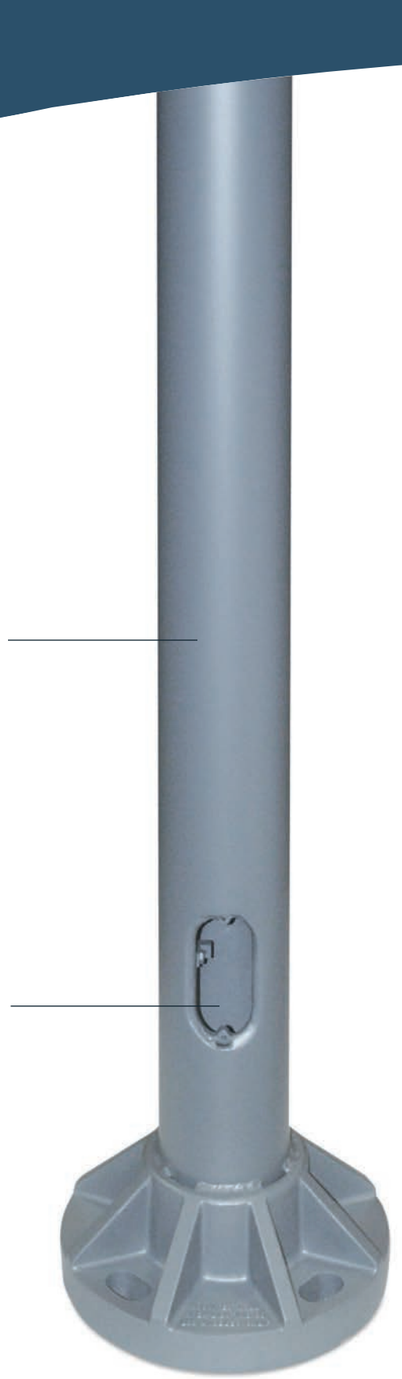
Extruded shafts of high strength 6061 T-6 aluminum.

AAL
Aluminum Poles

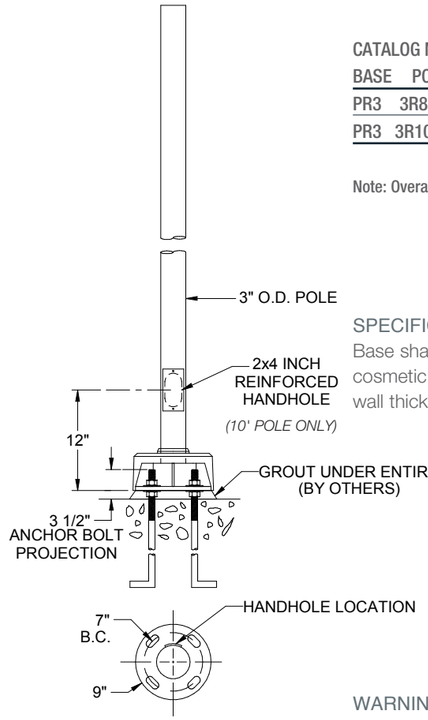
All hand holes (access cover) are reinforced with a cast aluminum ring welded around the perimeter of the opening.

AAL AVAILABLE ALUMINUM POLES

- PS3
- PR3
- PS4
- PR4
- PS5
- PR5



PR3
3" ROUND (RD) POLE



BOTTOM VIEW
(INDICATES POLE IS LAYING DOWN WITH HANDHOLE FACING UP)

CATALOG NO.MAXIMUM ALLOWABLE EPA (MPH)

BASE	POLE	OAH	SHAFT	WT	85	90	100	110	120	130	140	150
PR3	3R8-125	8' (2.4m)	3" RD x .125"	15	13.4	11.8	9.4	7.5	6.2	5.1	4.2	3.6
PR3	3R10-125	10' (3.1m)	3" RD x .125"	18	10.1	8.8	6.9	5.5	4.4	3.5	2.9	2.3

Note: Overall height is measured to post top adapter, or top of pole cap.

SPECIFICATIONS
Base shall be cast aluminum #356 alloy, free of any porosity, foreign materials, or cosmetic fillers. Base casting shall be heat treated to a T-6 condition, and of uniform wall thickness, with no warping or mold shifting.

WARNINGS
Caution must be exercised in the selection of a design wind speed when the pole is to be installed in a special wind region (as indicated by the wind map) or in an area where wind speed is unpredictable.

AAL recommends consulting a local engineer when the pole is to be installed in an area that may be subject to extreme weather and exposure.

Poles installed on structures such as buildings and bridges may be subjected to vibration, oscillations, and other fatigue effects which are not covered by the AAL warranty.

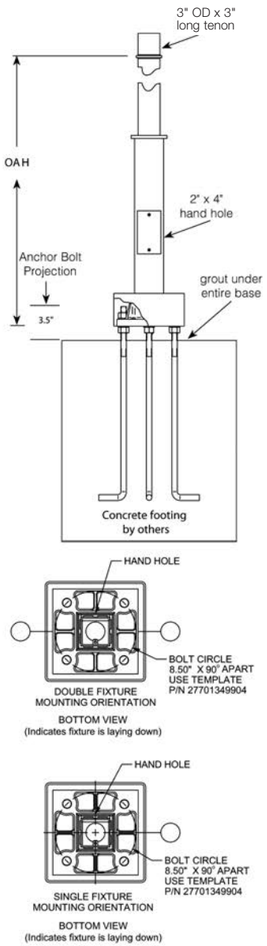
If the products are to be used on an existing foundation or on other structures, the customer assumes all responsibility for the structural integrity of the existing foundation, anchorage or structures and all the consequences arising therefrom.

Anchor bolts shall be hot dip galvanized steel. Eight galvanized hex nuts and flat washers, and a bolt circle template shall be provided. Anchor bolt for poles are 3/4" x 24" x 3".

All concrete foundation details are the responsibility of a local structural engineer.

PS3

3” SQUARE (SQ) POLE



CATALOG NO.MAXIMUM ALLOWABLE EPA (MPH)

BASE	POLE	OAH	SHAFT	WT	85	90	100	110	120	130	140	150
PS3	3S8-125	8' (2.4m)	3" SQ x .125"	28	10.6	9.4	7.5	6.1	4.9	4.0	3.3	2.7
PS3	3S10-125	10' (3.1m)	3" SQ x .125"	32	7.3	6.4	3.8	3.8	3.0	2.3	1.8	1.3

NOTE: OVERALL HEIGHT IS MEASURED TO TOP OF POLE.

SPECIFICATIONS

Base shall be cast aluminum #356 alloy, free of any porosity, foreign materials, or cosmetic fillers. Base casting shall be heat treated to a T-6 condition, and of uniform wall thickness, with no warping or mold shifting.

WARNINGS

Caution must be exercised in the selection of a design wind speed when the pole is to be installed in a special wind region (as indicated by the wind map) or in an area where wind speed is unpredictable.

AAL recommends consulting a local engineer when the pole is to be installed in an area that may be subject to extreme weather and exposure.

Poles installed on structures such as buildings and bridges may be subjected to vibration, oscillations, and other fatigue effects which are not covered by the AAL warranty.

The use of banners or other appendages can severely affect the loading of a pole. No banner or other appendage should be attached to an AAL pole unless approved by AAL.

If the products are to be used on an existing foundation or on other structures, the customer assumes all responsibility for the structural integrity of the existing foundation, anchorage or structures and all the consequences arising therefrom.

CAUTION

Poles should never be erected without the luminaire installed. Warranty is voided if the pole is erected without the luminaire. The warranty is voided if the pole is not grouted under the entire base after installation.

Anchor bolts shall be hot dip galvanized steel. Eight galvanized hex nuts and flat washers, and a bolt circle template shall be provided. Anchor bolt for poles are 3/4" x 24" x 3".

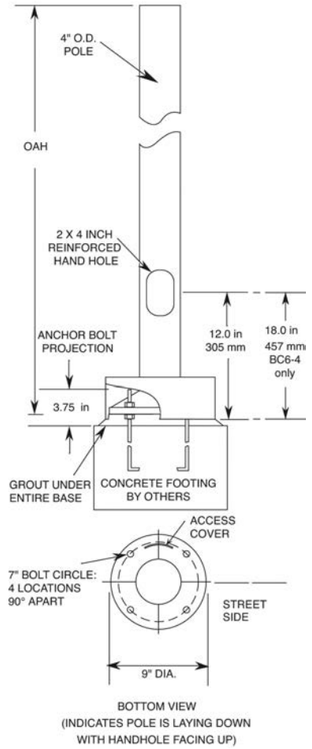
NOTES:

PS3 is used for Parkway Square Accent (Small) Scale - PKWS, and Spectra Small Scale - SP2.

All concrete foundation details are the responsibility of a local structural engineer.

PR4

4" ROUND (RD) POLE



CATALOG NO.MAXIMUM ALLOWABLE EPA (MPH)

BASE	POLE	OAH	SHAFT	WT	85	90	100	110	120	130	140	150
PR4	4R8-125	8’ (2.4m)	4” RD x .125”	22	12.3	10.9	8.7	7	5.7	4.8	4.1	3.6
PR4	4R10-125	10’ (3.1m)	4” RD x .125”	25	9.1	8	6.3	4.9	4.0	3.3	2.8	2.4
PR4	4R12-125	12’ (3.7m)	4” RD x .125”	28	6.9	6	4.5	3.4	2.6	2.1	1.8	1.5
PR4	4R14-125	14’ (4.3m)	4” RD x .125”	32	5.2	4.4	3.2	2.3	1.5	1.2	1	0.8
PR4	4R16-125	16’ (4.9m)	4” RD x .125”	35	3.9	3.2	2.1	1.3	0.8	0.5	0.4	0.2
PR4	4R8-226	8’ (2.4m)	4” RD x .226”	32	21.5	19.2	15.5	12.7	10.6	9.0	7.7	6.7
PR4	4R10-226	10’ (3.1m)	4” RD x .226”	38	16.5	14.6	11.7	9.4	7.8	6.6	5.6	4.8
PR4	4R12-226	12’ (3.7m)	4” RD x .226”	44	13.0	11.4	9	7.2	5.8	4.9	4.1	3.5
PR4	4R14-226	14’ (4.3m)	4” RD x .226”	51	10.3	9.1	7	5.4	4.3	3.6	3	2.5
PR4	4R16-226	16’ (4.9m)	4” RD x .226”	57	8.3	7.2	5.4	4.1	3.1	2.5	2.1	1.8
PR4	4R18-226	18’ (5.5m)	4” RD x .226”	63	6.6	5.6	4.1	2.9	2.1	1.6	1.3	1
PR4	4R20-226	20’ (6.2m)	4” RD x .226”	70	5.1	4.3	3.0	1.9	1.2	0.9	0.6	0.4

NOTE: OVERALL HEIGHT IS MEASURED TO TOP OF POLE.

SPECIFICATIONS

Base shall be cast aluminum #356 alloy, free of any porosity, foreign materials, or cosmetic fillers. Base casting shall be heat treated to a T-6 condition, and of uniform wall thickness, with no warping or mold shifting.

WARNINGS

Caution must be exercised in the selection of a design wind speed when the pole is to be installed in a special wind region (as indicated by the wind map) or in an area where wind speed is unpredictable.

AAL recommends consulting a local engineer when the pole is to be installed in an area that may be subject to extreme weather and exposure.

Poles installed on structures such as buildings and bridges may be subjected to vibration, oscillations, and other fatigue effects which are not covered by the AAL warranty.

The use of banners or other appendages can severely affect the loading of a pole. No banner or other appendage should be attached to an AAL pole unless approved by AAL.

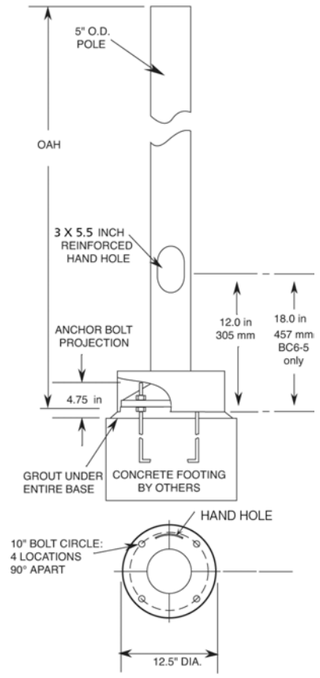
If the products are to be used on an existing foundation or on other structures, the customer assumes all responsibility for the structural integrity of the existing foundation, anchorage or structures and all the consequences arising therefrom.

Anchor bolts shall be hot dip galvanized steel. Eight galvanized hex nuts and flat washers, and a bolt circle template shall be provided. Anchor bolt for poles are 3/4" x 24" x 3".

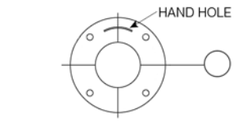
All concrete foundation details are the responsibility of a local structural engineer.

PR5

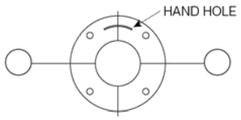
5" ROUND (RD) POLE



BOTTOM VIEW
(INDICATES POLE IS LAYING DOWN WITH HAND HOLE FACING UP)



SINGLE FIXTURE MOUNTING ORIENTATION
BOTTOM VIEW
(INDICATES POLE IS LAYING DOWN WITH HAND HOLE FACING UP)



DOUBLE FIXTURE MOUNTING ORIENTATION
BOTTOM VIEW
(INDICATES POLE IS LAYING DOWN WITH HAND HOLE FACING UP)

All concrete foundation details are the responsibility of a local structural engineer.

CATALOG NO.				MAXIMUM ALLOWABLE EPA (MPH)								
BASE	POLE	OAH	SHAFT	WT	85	90	100	110	120	130	140	150
PR5	5R8-188	8' (2.4m)	5" RD x .188"	47	30	26.7	21.7	18	15.2	13.0	11.1	9.7
PR5	5R10-188	10' (3.1m)	5" RD x .188"	54	23.1	20.5	16.6	13.8	11.5	9.8	8.4	7.3
PR5	5R12-188	12' (3.7m)	5" RD x .188"	61	18.3	16.2	13.0	10.8	9.0	7.6	6.5	5.6
PR5	5R14-188	14' (4.3m)	5" RD x .188"	68	14.8	13	10.4	8.5	7	5.9	5	4.3
PR5	5R16-188	16' (4.9m)	5" RD x .188"	75	12	10.5	8.2	6.7	5.5	4.6	3.9	3.3
PR5	5R18-188	18' (5.5m)	5" RD x .188"	82	9.6	8.2	6.4	5.2	4.2	3.5	2.9	2.4
PR5	5R20-188	20' (6.2m)	5" RD x .188"	88	7.6	6.4	4.9	3.9	3.1	2.5	2	1.7
PR5	5R22-188	22' (6.8m)	5" RD x .188"	95	6	5.0	3.6	2.7	2.1	1.7	1.3	1
PR5	5R24-188	24' (7.4m)	5" RD x .188"	101	4.5	3.6	2.4	1.9	1.3	1.0	0.7	0.5
PR5	5R25-188	25' (7.7m)	5" RD x .188"	105	3.9	3	1.9	1.4	1.0	0.6	0.4	0.2
PR5	5R14-250	14' (4.3m)	5" RD x .250"	83	19.5	17.5	14	11.6	9.7	8.2	7	6
PR5	5R16-250	16' (4.9m)	5" RD x .250"	92	16.3	14.3	11.4	9.4	7.8	6.6	5.6	4.8
PR5	5R18-250	18' (5.5m)	5" RD x .250"	100	13.4	11.7	9.2	7.5	6.2	5.2	4.4	3.7
PR5	5R20-250	20' (6.2m)	5" RD x .250"	109	10.9	9.4	7.3	5.9	4.8	4	3.3	2.8
PR5	5R22-250	22' (6.8m)	5" RD x .250"	118	8.85	7.5	5.7	4.5	3.7	3	2.4	2
PR5	5R24-250	24' (7.4m)	5" RD x .250"	127	7.1	5.9	4.4	3.4	2.7	2.1	1.7	1.3
PR5	5R25-250	25' (7.7m)	5" RD x .250"	131	6.3	5.2	3.8	2.9	2.2	1.7	1.3	1

NOTE: OVERALL HEIGHT IS MEASURED TO TOP OF POLE.

SPECIFICATIONS

Base shall be cast aluminum #356 alloy, free of any porosity, foreign materials, or cosmetic fillers. Base casting shall be heat treated to a T-6 condition, and of uniform wall thickness, with no warping or mold shifting.

WARNINGS

Caution must be exercised in the selection of a design wind speed when the pole is to be installed in a special wind region (as indicated by the wind map) or in an area where wind speed is unpredictable.

AAL recommends consulting a local engineer when the pole is to be installed in an area that may be subject to extreme weather and exposure.

Poles installed on structures such as buildings and bridges may be subjected to vibration, oscillations, and other fatigue effects which are not covered by the AAL warranty.

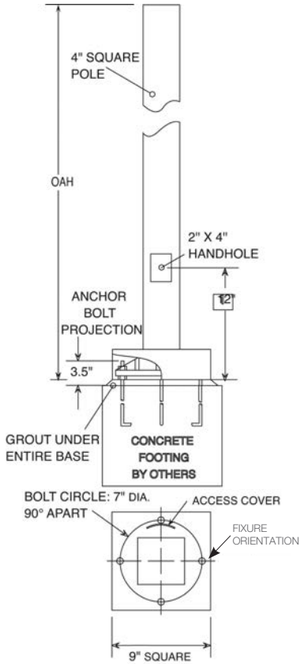
The use of banners or other appendages can severely affect the loading of a pole. No banner or other appendage should be attached to an AAL pole unless approved by AAL.

If the products are to be used on an existing foundation or on other structures, the customer assumes all responsibility for the structural integrity of the existing foundation, anchorage or structures and all the consequences arising therefrom.

Anchor bolts shall be hot dip galvanized steel. Eight galvanized hex nuts and flat washers, and a bolt circle template shall be provided. Anchor bolt for poles are 3/4" x 24" x 3".

PS4

4" SQUARE (SQ) POLE



BOTTOM VIEW
(INDICATES POLE IS LAYING DOWN WITH HANDHOLE FACING UP)

All concrete foundation details are the responsibility of a local structural engineer.

CATALOG NO.				MAXIMUM ALLOWABLE EPA (MPH)								
BASE	POLE	OAH	SHAFT	WT	85	90	100	110	120	130	140	150
PS4	4S10-125	10' (3.1M)	4" SQ X .125"	28	15.4	13.5	10.4	8.1	6.4	5.0	4.0	3.1
PS4	4S12-125	12' (3.7M)	4" SQ X .125"	32	11.8	10.2	7.6	5.7	4.3	3.2	2.3	1.6
PS4	4S14-125	14' (4.3M)	4" SQ X .125"	37	9.1	7.7	5.5	3.9	2.6	1.7	0.95	0.33
PS4	4S16-125	16' (4.9M)	4" SQ X .125"	42	6.9	5.7	3.8	2.3	1.3	0.46	-	-
PS4	4S18-125	18' (5.5M)	4" SQ X .125"	48	4.9	3.9	2.2	0.95	0.01	-	-	-
PS4	4S20-125	20' (6.2M)	4" SQ X .125"	53	3.2	0.75	-	-	-	-	-	-

NOTE: OVERALL HEIGHT IS MEASURED TO TOP OF POLE.

SPECIFICATIONS

Base shall be cast aluminum #356 alloy, free of any porosity, foreign materials, or cosmetic fillers. Base casting shall be heat treated to a T-6 condition, and of uniform wall thickness, with no warping or mold shifting

WARNINGS

Caution must be exercised in the selection of a design wind speed when the pole is to be installed in a special wind region (as indicated by the wind map) or in an area where wind speed is unpredictable.

AAL recommends consulting a local engineer when the pole is to be installed in an area that may be subject to extreme weather and exposure.

Poles installed on structures such as buildings and bridges may be subjected to vibration, oscillations, and other fatigue effects which are not covered by the AAL warranty.

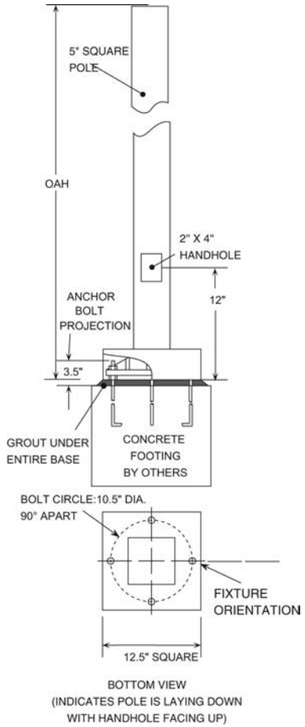
The use of banners or other appendages can severely affect the loading of a pole. No banner or other appendage should be attached to an AAL pole unless approved by AAL.

If the products are to be used on an existing foundation or on other structures, the customer assumes all responsibility for the structural integrity of the existing foundation, anchorage or structures and all the consequences arising therefrom.

Anchor bolts shall be hot dip galvanized steel. Six galvanized hex nuts and flat washers, and a bolt circle template shall be provided. Anchor bolt for poles are 3/4" x 24" x 3".

PS5

5" SQUARE (SQ) POLE



BOTTOM VIEW
(INDICATES POLE IS LAYING DOWN WITH HANDHOLE FACING UP)

CATALOG NO.MAXIMUM ALLOWABLE EPA (MPH)

BASE	POLE	OAH	SHAFT	WT	70	80	90	100
PS5	5S10-188	10' (3.1M)	5" SQ X .127"	61	32.2	24.5	18.0	14.5
PS5	5S12-1885	12' (3.7M)	5" SQ X .127"	69	29.0	21.5	15.7	12.5
PS5	5S14-1885	14' (4.3M)	5" SQ X .127"	78	25.5	18.5	13.5	10.5
PS5	5S16-188	16' (4.9M)	5" SQ X .127"	86	21.7	15.7	11.3	8.5
PS5	5S18-188	18' (5.5M)	5" SQ X .127"	95	18.5	12.8	9.0	6.5
PS5	5S20-188	20' (6.2M)	5" SQ X .127"	103	15.0	9.7	6.5	4.2

NOTE: OVERALL HEIGHT IS MEASURED TO TOP OF POLE.

SPECIFICATIONS

Base shall be cast aluminum #356 alloy, free of any porosity, foreign materials, or cosmetic fillers. Base casting shall be heat treated to a T-6 condition, and of uniform wall thickness, with no warping or mold shifting.

WARNINGS

Caution must be exercised in the selection of a design wind speed when the pole is to be installed in a special wind region (as indicated by the wind map) or in an area where wind speed is unpredictable.

AAL recommends consulting a local engineer when the pole is to be installed in an area that may be subject to extreme weather and exposure.

Poles installed on structures such as buildings and bridges may be subjected to vibration, oscillations, and other fatigue effects which are not covered by the AAL warranty.

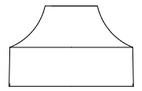
The use of banners or other appendages can severely affect the loading of a pole. No banner or other appendage should be attached to an AAL pole unless approved by AAL.

If the products are to be used on an existing foundation or on other structures, the customer assumes all responsibility for the structural integrity of the existing foundation, anchorage or structures and all the consequences arising therefrom.

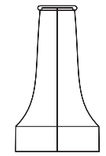
Anchor bolts shall be hot dip galvanized steel. Six galvanized hex nuts and flat washers, and a bolt circle template shall be provided. Anchor bolt for poles are 3/4" x 24" x 3".

All concrete foundation details are the responsibility of a local structural engineer.

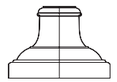
BASE COVERS



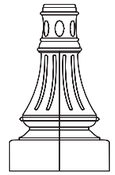
BC1-4 Fits over a 4"/100mm round pole.
BC1-5 Fits over a 5"/125mm round pole.
13"/330mm diameter x 8"/200mm high.
One piece spun aluminum.



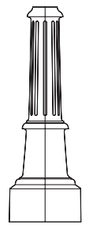
BC5-4 Fits over a 4"/100mm round pole.
BC5-5 Fits over a 5"/125mm round pole.
14"/100mm diameter x 24"/610mm high.
Two piece cast clamshell.



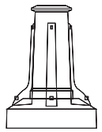
BC6-4 Fits over a 4"/100mm round pole.
BC6-5 Fits over a 5"/125mm round pole.
17"/430mm DIA x 13"/330mm high
Two piece clamshell.
*AAL poles configured with BC6 shall have hand hole location at 18".



BC7-4 Fits over a 4"/100mm round pole.
BC7-5 Fits over a 5"/125mm round pole.
18"/460mm diameter x 30"/760mm high.
Two piece cast clamshell with a one piece upper collar.



BC8-4 Fits over a 4"/100mm round pole.
12"/305mm diameter x 36"/915mm high.
Two piece cast clamshell.



ACBCR Fits over a 4"/100mm round pole.
ACBCS Fits over a 4"/100mm square pole.
18"/460mm high x 14"/356mm diameter.
One piece cast cover with a two piece cast upper collar.

SPECIFICATIONS

DESCRIPTION

Two piece base covers are cast #356 aluminum that fit over standard 4"/100mm or 5"/125mm round poles. Covers are attached with stainless steel hardware. Consult your AAL catalog for complete details on round poles.

WARNINGS

Caution must be exercised in the selection of a design wind speed when the pole is to be installed in a special wind region (as indicated by the wind map) or in an area where wind speed is unpredictable.

AAL recommends consulting a local engineer when the pole is to be installed in an area that may be subject to extreme weather and exposure.

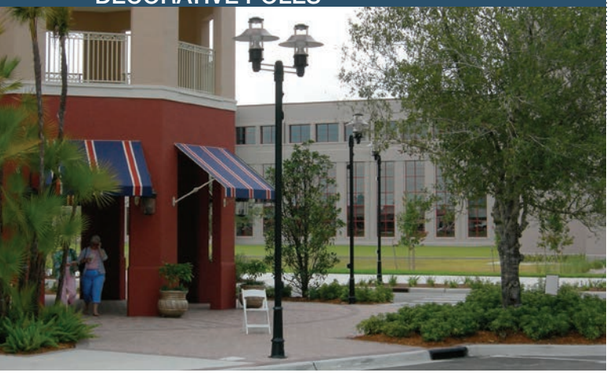
Poles installed on structures such as buildings and bridges may be subjected to vibration, oscillations, and other fatigue effects which are not covered by the AAL warranty.

The use of banners or other appendages can severely affect the loading of a pole. No banner or other appendage should be attached to an AAL pole unless approved by AAL.

If the products are to be used on an existing foundation or on other structures, the customer assumes all responsibility for the structural integrity of the existing foundation, anchorage or structures and all the consequences arising therefrom.

INDF-PR4-BC5-4

ACRD-PS4-ACBRD



AAL
Decorative Base Poles

AAL AVAILABLE
DECORATIVE POLES

- DB1
- DB2
- DB3
- DB4
- DB5
- DB6
- DB8
- DB9
- DB10
- DB12

Extruded shafts of high strength 6061 T-6 aluminum.

The pole shafts are set deeply welded into the base casting for maximum strength.

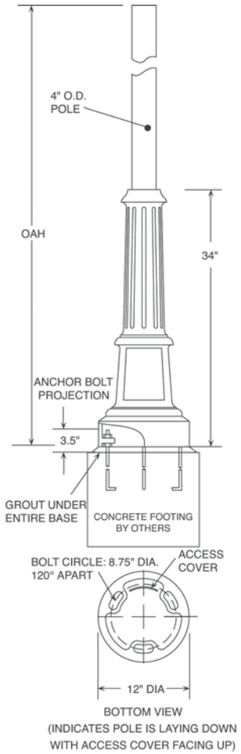
All decorative cast bases provide large internal* cavities for remote ballasts and managing large wiring conduits.

**Except for DB6, DB10, DB12*

All castings are produced with certified A356 Marine Grade aluminum alloy for maximum strength.

The anchor bolt lugs are cast as an integral part of the base structure, rather than welded on as separate pieces which can weaken the structure.

DB1
4" ROUND (RD) & FLUTED (FL) DECORATIVE BASE



CATALOG NO.					MAXIMUM ALLOWABLE EPA (MPH)								
BASE	POLE	OAH	SHAFT	WT	85	90	100	110	120	130	140	150
DB1	4R10-125	10' (3.1m)	4" RD x .125"	44	19.4	17.1	13.5	10.8	8.9	7.4	6.3	5.5
DB1	4R12-125	12' (3.7m)	4" RD x .125"	48	15.3	13.4	10.5	8.3	6.7	5.6	4.7	4.0
DB1	4R14-125	14' (4.3m)	4" RD x .125"	51	12.3	10.7	8.2	6.3	5.0	4.1	3.4	2.9
DB1	4R16-125	16' (4.9m)	4" RD x .125"	55	10.0	8.6	6.4	4.8	3.6	2.9	2.4	2.0
DB1	4R10-226	10' (3.1m)	4" RD x .226"	55	23.8	21.0	16.7	13.5	11.1	9.3	8.0	6.9
DB1	4R12-226	12' (3.7m)	4" RD x .226"	61	19.2	16.9	13.3	10.6	8.6	7.2	6.1	5.3
DB1	4R14-226	14' (4.3m)	4" RD x .226"	67	15.9	13.9	10.8	8.4	6.8	5.6	4.7	4.0
DB1	4R16-226	16' (4.9m)	4" RD x .226"	74	12.4	12.3	9.4	7.3	5.7	4.7	4.0	3.3
DB1	4F10-188	10' (3.1m)	4" FL x .188"	51	22.1	19.5	15.4	12.4	10.2	8.5	7.1	6.1
DB1	4F12-188	12' (3.7m)	4" FL x .188"	56	17.6	15.4	12.1	9.6	7.7	6.4	5.3	4.4
DB1	4F14-188	14' (4.3m)	4" FL x .188"	61	14.3	12.5	9.6	7.5	5.9	4.8	3.9	3.2
DB1	4F16-188	16' (4.9m)	4" FL x .188"	67	11.7	10.1	7.6	5.8	4.4	3.5	2.7	2.2

NOTE: OVERALL HEIGHT IS MEASURED TO TOP OF POLE.

SPECIFICATIONS

Base shall be cast aluminum #356 alloy, free of any porosity, foreign materials, or cosmetic fillers. Base casting shall be heat treated to a T-6 condition, and of uniform wall thickness, with no warping or mold shifting.

WARNINGS

Caution must be exercised in the selection of a design wind speed when the pole is to be installed in a special wind region (as indicated by the wind map) or in an area where wind speed is unpredictable.

AAL recommends consulting a local structural engineer when the pole is to be installed in an area that may be subject to extreme weather and exposure.

Poles installed on structures such as buildings and bridges may be subjected to vibration, oscillations, and other fatigue effects which are not covered by the AAL warranty.

The use of banners or other appendages can severely affect the loading of a pole. No banner or other appendage should be attached to an AAL pole unless approved by AAL.

If the products are to be used on an existing foundation or on other structures, the customer assumes all responsibility for the structural integrity of the existing foundation, anchorage or structures and all the consequences arising therefrom.

CAUTION

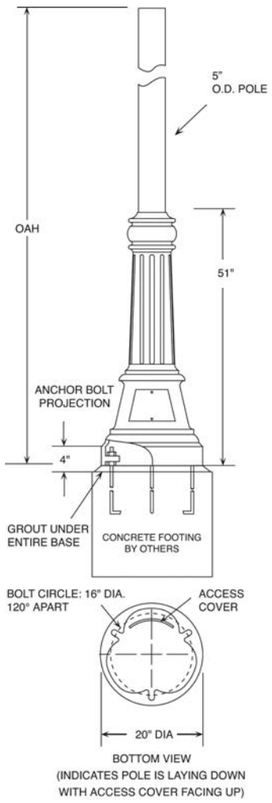
Poles should never be erected without the luminaire installed. Warranty is voided if the pole is erected without the luminaire. The warranty is voided if the pole is not grouted under the entire base after installation.

Anchor bolts shall be hot dip galvanized steel. Six galvanized hex nuts and flat washers, and a bolt circle template shall be provided. Anchor bolt for poles are 3/4" x 24" x 3".

All concrete foundation details are the responsibility of a local structural engineer.

DB2

5" ROUND (RD) & FLUTED (FL) DECORATIVE BASE



CATALOG NO. BASE	POLE	OAH	SHAFT	WT	MAXIMUM ALLOWABLE EPA (MPH) 85	90	100	110	120	130	140	150
DB2	5R14-188	14' (4.3m)	5" RD x .188"	116	32.3	28.5	22.7	18.6	15.5	13.1	11.2	9.6
DB2	5R16-188	16' (4.9m)	5" RD x .188"	123	27.3	23.9	19.0	15.5	12.8	10.8	9.2	7.9
DB2	5R18-188	18' (5.5m)	5" RD x .188"	129	22.8	19.8	15.6	12.7	10.5	8.8	7.4	6.4
DB2	5R20-188	20' (6.2m)	5" RD x .188"	136	18.9	16.4	12.8	10.3	8.5	7.0	5.9	5.0
DB2	5R22-188	22' (6.8m)	5" RD x .188"	142	15.8	13.5	10.4	8.3	6.8	5.6	4.7	3.9
DB2	5R24-188	24' (7.4m)	5" RD x .188"	148	13.1	11.1	8.4	6.6	5.3	4.3	3.6	3.0
DB2	5R25-188	25' (7.7m)	5" RD x .188"	151	11.9	10.0	7.5	5.9	4.7	3.8	3.1	2.5
DB2	5R14-250	14' (4.3m)	5" RD x .250"	132	35.7	31.5	25.2	20.6	17.2	14.5	12.4	10.7
DB2	5R16-250	16' (4.9m)	5" RD x .250"	140	30.5	26.8	21.3	17.4	14.5	12.2	10.4	9.0
DB2	5R18-250	18' (5.5m)	5" RD x .250"	150	25.8	22.5	17.8	14.5	12.0	10.1	8.6	7.3
DB2	5R20-250	20' (6.2m)	5" RD x .250"	158	21.8	18.9	14.8	12.0	9.9	8.3	7.0	6.0
DB2	5R22-250	22' (6.8m)	5" RD x .250"	167	18.5	15.9	12.4	9.9	8.1	6.7	5.7	4.8
DB2	5R24-250	24' (7.4m)	5" RD x .250"	176	15.7	13.4	10.3	8.2	6.6	5.5	4.5	3.8
DB2	5R25-250	25' (7.7m)	5" RD x .250"	180	14.5	12.3	9.3	7.4	6.0	4.9	4.0	3.4
DB2	5F14-188	14' (4.3m)	5" FL x .188"	116	21.4	18.7	14.8	12.1	10.0	8.2	6.9	5.8
DB2	5F16-188	16' (4.9m)	5" FL x .188"	123	17.8	15.5	12.1	9.8	8.0	6.6	5.4	4.5
DB2	5F18-188	18' (5.5m)	5" FL x .188"	129	14.5	12.5	9.7	7.8	6.3	5.1	4.1	3.3
DB2	5F20-188	20' (6.2m)	5" FL x .188"	136	11.8	10.0	7.6	6.1	4.8	3.7	3.0	2.3
DB2	5F22-188	22' (6.8m)	5" FL x .188"	142	9.4	7.9	5.8	4.6	3.9	2.6	2.0	1.4
DB2	5F24-188	24' (7.4m)	5" FL x .188"	148	7.4	6.1	4.3	3.3	2.4	1.7	1.1	0.6
DB2	5F25-188	25' (7.7m)	5" FL x .188"	151	6.6	5.2	3.6	2.7	1.9	1.2	0.7	0.3

NOTE: OVERALL HEIGHT IS MEASURED TO TOP OF POLE.

SPECIFICATIONS

Base shall be cast aluminum #356 alloy, free of any porosity, foreign materials, or cosmetic fillers. Base casting shall be heat treated to a T-6 condition, and of uniform wall thickness, with no warping or mold shifting.

WARNINGS

Caution must be exercised in the selection of a design wind speed when the pole is to be installed in a special wind region (as indicated by the wind map) or in an area where wind speed is unpredictable.

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The use of banners or other appendages can severely affect the loading of a pole. No banner or other appendage should be attached to an AAL pole unless approved by AAL.

If the products are to be used on an existing foundation or on other structures, the customer assumes all responsibility for the structural integrity of the existing foundation, anchorage or structures and all the consequences arising therefrom.

CAUTION

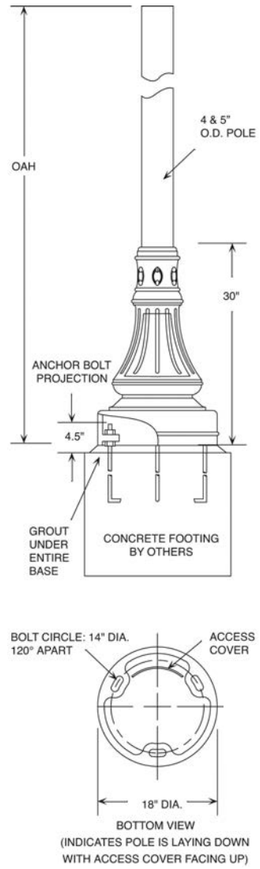
Poles should never be erected without the luminaire installed. Warranty is voided if the pole is erected without the luminaire. The warranty is voided if the pole is not grouted under the entire base after installation.

Anchor bolts shall be hot dip galvanized steel. Six galvanized hex nuts and flat washers, and a bolt circle template shall be provided. Anchor bolts for poles 14 feet high or less are 3/4" x 24" x 3". Anchor bolt for poles more than 14 feet high are 1"x 36" x 4".

All concrete foundation details are the responsibility of a local structural engineer.

DB3

4" & 5" ROUND (RD) & FLUTED (FL) DECORATIVE BASE



All concrete foundation details are the responsibility of a local structural engineer.

CATALOG NO. BASE	POLE	OAH	SHAFT	WT	MAXIMUM ALLOWABLE EPA (MPH) 85	90	100	110	120	130	140	150
DB3	4R10-125	10' (3.1m)	4" RD x .125"	73	19.4	17.1	13.5	10.8	8.9	7.4	6.3	5.5
DB3	4R12-125	12' (3.7m)	4" RD x .125"	77	15.3	13.4	10.5	8.3	6.7	5.6	4.7	4.0
DB3	4R14-125	14' (4.3m)	4" RD x .125"	81	12.3	10.7	8.2	6.3	5.0	4.1	3.4	2.9
DB3	4R16-125	16' (4.9m)	4" RD x .125"	84	10.0	8.6	6.4	4.8	3.6	2.9	2.4	2.0
DB3	4R10-226	10' (3.1m)	4" RD x .226"	85	23.8	21.0	16.7	13.5	11.1	9.3	8.0	6.9
DB3	4R12-226	12' (3.7m)	4" RD x .226"	92	19.2	16.9	13.3	10.6	8.6	7.2	6.1	5.3
DB3	4R14-226	14' (4.3m)	4" RD x .226"	98	15.9	13.9	10.8	8.4	6.8	5.6	4.7	4.0
DB3	4R16-226	16' (4.9m)	4" RD x .226"	104	12.4	12.3	9.4	7.3	5.7	4.7	4.0	3.3
DB3	4R18-226	18' (5.5m)	4" RD x .226"	110	11.7	10.0	7.5	5.6	4.3	3.5	2.9	2.4
DB3	4R20-226	20' (6.2m)	4" RD x .226"	116	9.5	8.1	5.9	4.2	3.1	2.4	1.9	1.6
DB3	4F10-188	10' (3.1m)	4" FL x .188"	80	22.1	19.5	15.4	12.4	10.2	8.5	7.1	6.1
DB3	4F12-188	12' (3.7m)	4" FL x .188"	86	17.6	15.4	12.1	9.6	7.7	6.4	5.3	4.4
DB3	4F14-188	14' (4.3m)	4" FL x .188"	91	14.3	12.5	9.6	7.5	5.9	4.8	3.9	3.2
DB3	4F16-188	16' (4.9m)	4" FL x .188"	96	11.7	10.1	7.6	5.8	4.4	3.5	2.7	2.2
DB3	4F18-188	18' (5.5m)	4" FL x .188"	101	9.4	8.0	5.6	4.3	3.1	2.3	1.7	1.2
DB3	4F20-188	20' (6.2m)	4" FL x .188"	106	7.4	6.2	4.3	2.9	1.9	1.2	0.7	0.4
DB3	5R14-188	14' (4.3m)	5" RD x .188"	100	32.3	28.5	22.7	18.6	15.5	13.1	11.2	9.6
DB3	5R16-188	16' (4.9m)	5" RD x .188"	106	27.3	23.9	19.0	15.5	12.8	10.8	9.2	7.9
DB3	5R18-188	18' (5.5m)	5" RD x .188"	113	22.8	19.8	15.6	12.7	10.5	8.8	7.4	6.4
DB3	5R20-188	20' (6.2m)	5" RD x .188"	120	18.9	16.4	12.8	10.3	8.5	7.0	5.9	5.0
DB3	5R22-188	22' (6.8m)	5" RD x .188"	127	15.8	13.5	10.4	8.3	6.8	5.6	4.7	3.9
DB3	5R24-188	24' (7.4m)	5" RD x .188"	134	13.1	11.1	8.4	6.6	5.3	4.3	3.6	3.0
DB3	5R25-188	25' (7.7m)	5" RD x .188"	138	11.9	10.0	7.5	5.9	4.7	3.8	3.1	2.5
DB3	5R14-250	14' (4.3m)	5" RD x .250"	113	35.7	31.5	25.2	20.6	17.2	14.5	12.4	10.7
DB3	5R16-250	16' (4.9m)	5" RD x .250"	122	30.5	26.8	21.3	17.4	14.5	12.2	10.4	9.0
DB3	5R18-250	18' (5.5m)	5" RD x .250"	131	25.8	22.5	17.8	14.5	12.0	10.1	8.6	7.3
DB3	5R20-250	20' (6.2m)	5" RD x .250"	139	21.8	18.9	14.8	12.0	9.9	8.3	7.0	6.0
DB3	5R22-250	22' (6.8m)	5" RD x .250"	148	18.5	15.9	12.4	9.9	8.1	6.7	5.7	4.8
DB3	5R24-250	24' (7.4m)	5" RD x .250"	157	15.7	13.4	10.3	8.2	6.6	5.5	4.5	3.8
DB3	5R25-250	25' (7.7m)	5" RD x .250"	161	14.5	12.3	9.3	7.4	6.0	4.9	4.0	3.4
DB3	5F14-188	14' (4.3m)	5" FL x .188"	100	21.4	18.7	14.8	12.1	10.0	8.2	6.9	5.8
DB3	5F16-188	16' (4.9m)	5" FL x .188"	106	17.8	15.5	12.1	9.8	8.0	6.6	5.4	4.5
DB3	5F18-188	18' (5.5m)	5" FL x .188"	113	14.5	12.5	9.7	7.8	6.3	5.1	4.1	3.3
DB3	5F20-188	20' (6.2m)	5" FL x .188"	120	11.8	10.0	7.6	6.1	4.8	3.7	3.0	2.3
DB3	5F22-188	22' (6.8m)	5" FL x .188"	127	9.4	7.9	5.8	4.6	3.9	2.6	2.0	1.4
DB3	5F24-188	24' (7.4m)	5" FL x .188"	134	7.4	6.1	4.3	3.3	2.4	1.7	1.1	0.6
DB3	5F25-188	25' (7.7M)	5" FL X .188"	138	6.6	5.2	3.6	2.7	1.9	1.2	0.7	0.3

NOTE: OVERALL HEIGHT IS MEASURED TO TOP OF POLE.

SPECIFICATIONS

Base shall be cast aluminum #356 alloy, free of any porosity, foreign materials, or cosmetic fillers. Base casting shall be heat treated to a T-6 condition, and of uniform wall thickness, with no warping or mold shifting.

WARNINGS

Caution must be exercised in the selection of a design wind speed when the pole is to be installed in a special wind region (as indicated by the wind map) or in an area where wind speed is unpredictable.

AAL recommends consulting a local structural engineer when the pole is to be installed in an area that may be subject to extreme weather and exposure.

Poles installed on structures such as buildings and bridges may be subjected to vibration, oscillations, and other fatigue effects which are not covered by the AAL warranty.

The use of banners or other appendages can severely affect the loading of a pole. No banner or other appendage should be attached to an AAL pole unless approved by AAL.

If the products are to be used on an existing foundation or on other structures, the customer assumes all responsibility for the structural integrity of the existing foundation, anchorage or structures and all the consequences arising therefrom.

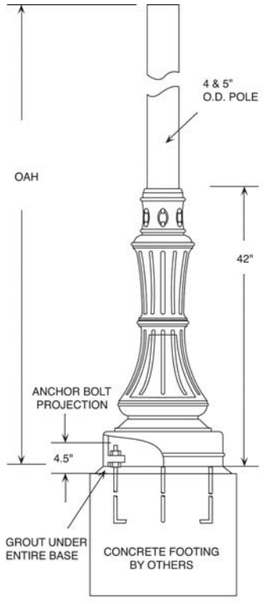
CAUTION

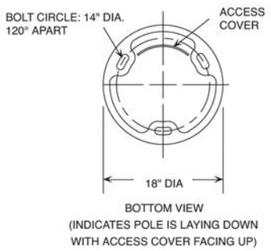
Poles should never be erected without the luminaire installed. Warranty is voided if the pole is erected without the luminaire. The warranty is voided if the pole is not grouted under the entire base after installation.

Anchor bolts shall be hot dip galvanized steel. Six galvanized hex nuts and flat washers, and a bolt circle template shall be provided. Anchor bolts for poles 14 feet high or less are 3/4" x 24" x 3". Anchor bolt for poles more than 14 feet high are 1"x 36" x 4".

DB4

4" & 5" ROUND (RD) & FLUTED (FL)
DECORATIVE BASE





CATALOG NO.					MAXIMUM ALLOWABLE EPA (MPH)							
BASE	POLE	OAH	SHAFT	WT	85	90	100	110	120	130	140	150
DB4	4R10-125	10' (3.1m)	4" RD x .125"	81	19.4	17.1	13.5	10.8	8.9	7.4	6.3	5.5
DB4	4R12-125	12' (3.7m)	4" RD x .125"	85	15.3	13.4	10.5	8.3	6.7	5.6	4.7	4.0
DB4	4R14-125	14' (4.3m)	4" RD x .125"	88	12.3	10.7	8.2	6.3	5.0	4.1	3.4	2.9
DB4	4R16-125	16' (4.9m)	4" RD x .125"	92	10.0	8.6	6.4	4.8	3.6	2.9	2.4	2.0
DB4	4R10-226	10' (3.1m)	4" RD x .226"	91	23.8	21.0	16.7	13.5	11.1	9.3	8.0	6.9
DB4	4R12-226	12' (3.7m)	4" RD x .226"	97	19.2	16.9	13.3	10.6	8.6	7.2	6.1	5.3
DB4	4R14-226	14' (4.3m)	4" RD x .226"	104	15.9	13.9	10.8	8.4	6.8	5.6	4.7	4.0
DB4	4R16-226	16' (4.9m)	4" RD x .226"	110	12.4	12.3	9.4	7.3	5.7	4.7	4.0	3.3
DB4	4F10-188	10' (3.1m)	4" FL x .188"	87	22.1	19.5	15.4	12.4	10.2	8.5	7.1	6.1
DB4	4F12-188	12' (3.7m)	4" FL x .188"	92	17.6	15.4	12.1	9.6	7.7	6.4	5.3	4.4
DB4	4F14-188	14' (4.3m)	4" FL x .188"	98	14.3	12.5	9.6	7.5	5.9	4.8	3.9	3.2
DB4	4F16-188	16' (4.9m)	4" FL x .188"	103	11.7	10.1	7.6	5.8	4.4	3.5	2.7	2.2
DB4	5R14-188	14' (4.3m)	5" RD x .188"	105	32.3	28.5	22.7	18.6	15.5	13.1	11.2	9.6
DB4	5R16-188	16' (4.9m)	5" RD x .188"	112	27.3	23.9	19.0	15.5	12.8	10.8	9.2	7.9
DB4	5R18-188	18' (5.5m)	5" RD x .188"	119	22.8	19.8	15.6	12.7	10.5	8.8	7.4	6.4
DB4	5R20-188	20' (6.2m)	5" RD x .188"	125	18.9	16.4	12.8	10.3	8.5	7.0	5.9	5.0
DB4	5R22-188	22' (6.8m)	5" RD x .188"	131	15.8	13.5	10.4	8.3	6.8	5.6	4.7	3.9
DB4	5R24-188	24' (7.4m)	5" RD x .188"	137	13.1	11.1	8.4	6.6	5.3	4.3	3.6	3.0
DB4	5R25-188	25' (7.7m)	5" RD x .188"	140	11.9	10.0	7.5	5.9	4.7	3.8	3.1	2.5
DB4	5R14-250	14' (4.3m)	5" RD x .250"	117	35.7	31.5	25.2	20.6	17.2	14.5	12.4	10.7
DB4	5R16-250	16' (4.9m)	5" RD x .250"	126	30.5	26.8	21.3	17.4	14.5	12.2	10.4	9.0
DB4	5R18-250	18' (5.5m)	5" RD x .250"	135	25.8	22.5	17.8	14.5	12.0	10.1	8.6	7.3
DB4	5R20-250	20' (6.2m)	5" RD x .250"	144	21.8	18.9	14.8	12.0	9.9	8.3	7.0	6.0
DB4	5R22-250	22' (6.8m)	5" RD x .250"	152	18.5	15.9	12.4	9.9	8.1	6.7	5.7	4.8
DB4	5R24-250	24' (7.4m)	5" RD x .250"	161	15.7	13.4	10.3	8.2	6.6	5.5	4.5	3.8
DB4	5R25-250	25' (7.7m)	5" RD x .250"	166	14.5	12.3	9.3	7.4	6.0	4.9	4.0	3.4
DB4	5F14-188	14' (4.3m)	5" FL x .188"	105	21.4	18.7	14.8	12.1	10.0	8.2	6.9	5.8
DB4	5F16-188	16' (4.9m)	5" FL x .188"	112	17.8	15.5	12.1	9.8	8.0	6.6	5.4	4.5
DB4	5F18-188	18' (5.5m)	5" FL x .188"	119	14.5	12.5	9.7	7.8	6.3	5.1	4.1	3.3
DB4	5F20-188	20' (6.2m)	5" FL x .188"	125	11.8	10.0	7.6	6.1	4.8	3.7	3.0	2.3
DB4	5F22-188	22' (6.8m)	5" FL x .188"	131	9.4	7.9	5.8	4.6	3.9	2.6	2.0	1.4
DB4	5F24-188	24' (7.4m)	5" FL x .188"	137	7.4	6.1	4.3	3.3	2.4	1.7	1.1	0.6
DB4	5F25-188	25' (7.7m)	5" FL x .188"	140	6.6	5.2	3.6	2.7	1.9	1.2	0.7	0.3

NOTE: OVERALL HEIGHT IS MEASURED TO TOP OF POLE.

SPECIFICATIONS

Base shall be cast aluminum #356 alloy, free of any porosity, foreign materials, or cosmetic fillers. Base casting shall be heat treated to a T-6 condition, and of uniform wall thickness, with no warping or mold shifting.

WARNINGS

Caution must be exercised in the selection of a design wind speed when the pole is to be installed in a special wind region (as indicated by the wind map) or in an area where wind speed is unpredictable.

AAL recommends consulting a local structural engineer when the pole is to be installed in an area that may be subject to extreme weather and exposure.

Poles installed on structures such as buildings and bridges may be subjected to vibration, oscillations, and other fatigue effects which are not covered by the AAL warranty.

The use of banners or other appendages can severely affect the loading of a pole. No banner or other appendage should be attached to an AAL pole unless approved by AAL.

If the products are to be used on an existing foundation or on other structures, the customer assumes all responsibility for the structural integrity of the existing foundation, anchorage or structures and all the consequences arising therefrom.

CAUTION

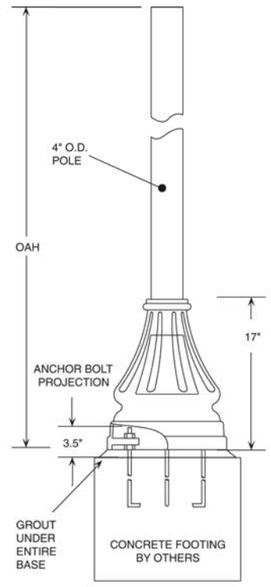
Poles should never be erected without the luminaire installed. Warranty is voided if the pole is erected without the luminaire. The warranty is voided if the pole is not grouted under the entire base after installation.

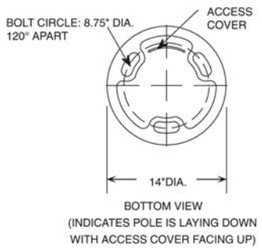
Anchor bolts shall be hot dip galvanized steel. Six galvanized hex nuts and flat washers, and a bolt circle template shall be provided. Anchor bolts for poles 14 feet high or less are 3/4" x 24" x 3". Anchor bolt for poles more than 14 feet high are 1"x 36" x 4".

All concrete foundation details are the responsibility of a local structural engineer.

DB5

4" ROUND (RD) & FLUTED (FL)
DECORATIVE BASE





CATALOG NO.					MAXIMUM ALLOWABLE EPA (MPH)							
BASE	POLE	OAH	SHAFT	WT	85	90	100	110	120	130	140	150
DB5	4R10-125	10' (3.1m)	4" RD x .125"	40	12.9	11.4	9.0	7.2	5.9	4.9	4.2	3.7
DB5	4R12-125	12' (3.7m)	4" RD x .125"	44	10.2	8.9	7.0	5.5	4.5	3.7	3.1	2.7
DB5	4R14-125	14' (4.3m)	4" RD x .125"	48	8.2	7.1	5.5	4.2	3.3	2.7	2.3	1.9
DB5	4R16-125	16' (4.9m)	4" RD x .125"	51	6.7	5.7	4.3	3.2	2.4	1.9	1.6	1.3
DB5	4R10-226	10' (3.1m)	4" RD x .226"	53	15.9	14.0	11.1	9.0	7.4	6.2	5.3	4.6
DB5	4R12-226	12' (3.7m)	4" RD x .226"	59	12.8	11.3	8.9	7.1	5.7	4.8	4.1	3.5
DB5	4R14-226	14' (4.3m)	4" RD x .226"	65	10.6	9.3	7.2	5.6	4.5	3.7	3.1	2.7
DB5	4R16-226	16' (4.9m)	4" RD x .226"	71	8.3	8.2	6.3	4.9	3.8	3.1	2.7	2.2
DB5	4F10-188	10' (3.1m)	4" FL x .188"	48	14.7	13.0	10.3	8.3	6.8	5.7	4.7	4.1
DB5	4F12-188	12' (3.7m)	4" FL x .188"	53	11.7	10.3	8.1	6.4	5.1	4.3	3.5	2.9
DB5	4F14-188	14' (4.3m)	4" FL x .188"	59	9.5	8.3	6.4	5.0	3.9	3.2	2.6	2.1
DB5	4F16-188	16' (4.9m)	4" FL x .188"	64	7.8	6.7	5.1	3.9	2.9	2.3	1.8	1.5

NOTE: OVERALL HEIGHT IS MEASURED TO TOP OF POLE.

SPECIFICATIONS

Base shall be cast aluminum #356 alloy, free of any porosity, foreign materials, or cosmetic fillers. Base casting shall be heat treated to a T-6 condition, and of uniform wall thickness, with no warping or mold shifting.

WARNINGS

Caution must be exercised in the selection of a design wind speed when the pole is to be installed in a special wind region (as indicated by the wind map) or in an area where wind speed is unpredictable.

AAL recommends consulting a local structural engineer when the pole is to be installed in an area that may be subject to extreme weather and exposure.

Poles installed on structures such as buildings and bridges may be subjected to vibration, oscillations, and other fatigue effects which are not covered by the AAL warranty.

The use of banners or other appendages can severely affect the loading of a pole. No banner or other appendage should be attached to an AAL pole unless approved by AAL.

If the products are to be used on an existing foundation or on other structures, the customer assumes all responsibility for the structural integrity of the existing foundation, anchorage or structures and all the consequences arising therefrom.

CAUTION

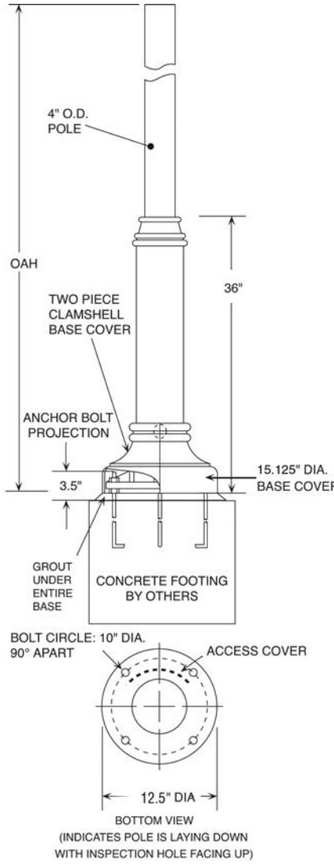
Poles should never be erected without the luminaire installed. Warranty is voided if the pole is erected without the luminaire. The warranty is voided if the pole is not grouted under the entire base after installation.

Anchor bolts shall be hot dip galvanized steel. Six galvanized hex nuts and flat washers, and a bolt circle template shall be provided. Anchor bolt for poles are 3/4" x 24" x 3".

All concrete foundation details are the responsibility of a local structural engineer.

DB6

4” ROUND (RD) & FLUTED (FL)
DECORATIVE BASE



CATALOG NO.					MAXIMUM ALLOWABLE EPA (MPH)							
BASE	POLE	OAH	SHAFT	WT	85	90	100	110	120	130	140	150
DB6	4R10-125	10' (3.1M)	4" RD X .125"	50	19.4	17.1	13.5	10.8	8.9	7.4	6.3	5.5
DB6	4R12-125	12' (3.7M)	4" RD X .125"	54	15.3	13.4	10.5	8.3	6.7	5.6	4.7	4.0
DB6	4R14-125	14' (4.3M)	4" RD X .125"	57	12.3	10.7	8.2	6.3	5.0	4.1	3.4	2.9
DB6	4R16-125	16' (4.9M)	4" RD X .125"	61	10.0	8.6	6.4	4.8	3.6	2.9	2.4	2.0
DB6	4F10-188	10' (3.1M)	4" FL X .188"	56	22.1	19.5	15.4	12.4	10.2	8.5	7.1	6.1
DB6	4F12-188	12' (3.7M)	4" FL X .188"	62	17.6	15.4	12.1	9.6	7.7	6.4	5.3	4.4
DB6	4F14-188	14' (4.3M)	4" FL X .188"	67	14.3	12.5	9.6	7.5	5.9	4.8	3.9	3.2
DB6	4F16-188	16' (4.9M)	4" FL X .188"	72	11.7	10.1	7.6	5.8	4.4	3.5	2.7	2.2
DB6	4R10-226	10' (3.1M)	4" RD X .226"	60	23.8	21.0	16.7	13.5	11.1	9.3	8.0	6.9
DB6	4R12-226	12' (3.7M)	4" RD X .226"	66	19.2	16.9	13.3	10.6	8.6	7.2	6.1	5.3
DB6	4R14-226	14' (4.3M)	4" RD X .226"	73	15.9	13.9	10.8	8.4	6.8	5.6	4.7	4.0
DB6	4R16-226	16' (4.9M)	4" RD X .226"	79	12.4	12.3	9.4	7.3	5.7	4.7	4.0	3.3

NOTE: OVERALL HEIGHT IS MEASURED TO TOP OF POLE.

SPECIFICATIONS

Base shall be cast aluminum #356 alloy, free of any porosity, foreign materials, or cosmetic fillers. Base casting shall be heat treated to a T-6 condition, and of uniform wall thickness, with no warping or mold shifting.

WARNINGS

Caution must be exercised in the selection of a design wind speed when the pole is to be installed in a special wind region (as indicated by the wind map) or in an area where wind speed is unpredictable.

AAL recommends consulting a local structural engineer when the pole is to be installed in an area that may be subject to extreme weather and exposure.

Poles installed on structures such as buildings and bridges may be subjected to vibration, oscillations, and other fatigue effects which are not covered by the AAL warranty.

The use of banners or other appendages can severely affect the loading of a pole. No banner or other appendage should be attached to an AAL pole unless approved by AAL.

If the products are to be used on an existing foundation or on other structures, the customer assumes all responsibility for the structural integrity of the existing foundation, anchorage or structures and all the consequences arising therefrom.

CAUTION

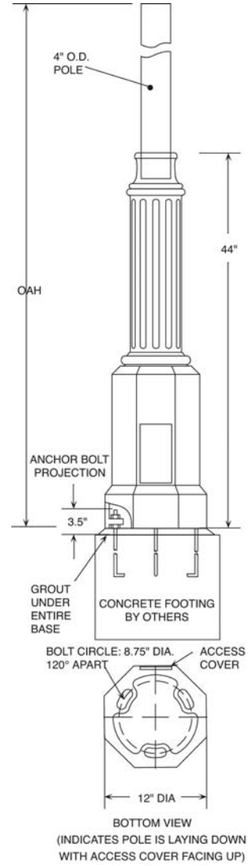
Poles should never be erected without the luminaire installed. Warranty is voided if the pole is erected without the luminaire. The warranty is voided if the pole is not grouted under the entire base after installation.

Anchor bolts shall be hot dip galvanized steel. Eight galvanized hex nuts and flat washers, and a bolt circle template shall be provided. Anchor bolt for poles are 3/4" x 24" x 3".

All concrete foundation details are the responsibility of a local structural engineer.

DB8

4" ROUND (RD) & FLUTED (FL)
DECORATIVE BASE



CATALOG NO.					MAXIMUM ALLOWABLE EPA (MPH)							
BASE	POLE	OAH	SHAFT	WT	85	90	100	110	120	130	140	150
DB8	4R10-125	10' (3.1m)	4" RD x .125"	49	19.4	17.1	13.5	10.8	8.9	7.4	6.3	5.5
DB8	4R12-125	12' (3.7m)	4" RD x .125"	52	15.3	13.4	10.5	8.3	6.7	5.6	4.7	4.0
DB8	4R14-125	14' (4.3m)	4" RD x .125"	56	12.3	10.7	8.2	6.3	5.0	4.1	3.4	2.9
DB8	4R16-125	16' (4.9m)	4" RD x .125"	59	10.0	8.6	6.4	4.8	3.6	2.9	2.4	2.0
DB8	4R10-226	10' (3.1m)	4" RD x .226"	58	23.8	21.0	16.7	13.5	11.1	9.3	8.0	6.9
DB8	4R12-226	12' (3.7m)	4" RD x .226"	64	19.2	16.9	13.3	10.6	8.6	7.2	6.1	5.3
DB8	4R14-226	14' (4.3m)	4" RD x .226"	71	15.9	13.9	10.8	8.4	6.8	5.6	4.7	4.0
DB8	4R16-226	16' (4.9m)	4" RD x .226"	77	12.4	12.3	9.4	7.3	5.7	4.7	4.0	3.3
DB8	4F10-188	10' (3.1m)	4" FL x .188"	55	22.1	19.5	15.4	12.4	10.2	8.5	7.1	6.1
DB8	4F12-188	12' (3.7m)	4" FL x .188"	60	17.6	15.4	12.1	9.6	7.7	6.4	5.3	4.4
DB8	4F14-188	14' (4.3m)	4" FL x .188"	65	14.3	12.5	9.6	7.5	5.9	4.8	3.9	3.2
DB8	4F16-188	16' (4.9m)	4" FL x .188"	70	11.7	10.1	7.6	5.8	4.4	3.5	2.7	2.2

NOTE: OVERALL HEIGHT IS MEASURED TO TOP OF POLE.

SPECIFICATIONS

Base shall be cast aluminum #356 alloy, free of any porosity, foreign materials, or cosmetic fillers. Base casting shall be heat treated to a T-6 condition, and of uniform wall thickness, with no warping or mold shifting.

WARNINGS

Caution must be exercised in the selection of a design wind speed when the pole is to be installed in a special wind region (as indicated by the wind map) or in an area where wind speed is unpredictable.

AAL recommends consulting a local structural engineer when the pole is to be installed in an area that may be subject to extreme weather and exposure.

Poles installed on structures such as buildings and bridges may be subjected to vibration, oscillations, and other fatigue effects which are not covered by the AAL warranty.

The use of banners or other appendages can severely affect the loading of a pole. No banner or other appendage should be attached to an AAL pole unless approved by AAL.

If the products are to be used on an existing foundation or on other structures, the customer assumes all responsibility for the structural integrity of the existing foundation, anchorage or structures and all the consequences arising therefrom.

CAUTION

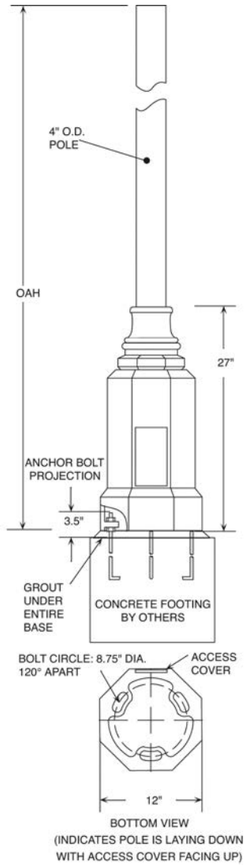
Poles should never be erected without the luminaire installed. Warranty is voided if the pole is erected without the luminaire. The warranty is voided if the pole is not grouted under the entire base after installation.

Anchor bolts shall be hot dip galvanized steel. Six galvanized hex nuts and flat washers, and a bolt circle template shall be provided. Anchor bolt for poles are 3/4" x 24" x 3".

All concrete foundation details are the responsibility of a local structural engineer.

DB9

4" ROUND (RD) & FLUTED (FL)
DECORATIVE BASE



CATALOG NO.					MAXIMUM ALLOWABLE EPA (MPH)							
BASE	POLE	OAH	SHAFT	WT	85	90	100	110	120	130	140	150
DB9	4R10-125	10' (3.1m)	4" RD x .125"	43	19.4	17.1	13.5	10.8	8.9	7.4	6.3	5.5
DB9	4R12-125	12' (3.7m)	4" RD x .125"	47	15.3	13.4	10.5	8.3	6.7	5.6	4.7	4.0
DB9	4R14-125	14' (4.3m)	4" RD x .125"	50	12.3	10.7	8.2	6.3	5.0	4.1	3.4	2.9
DB9	4R16-125	16' (4.9m)	4" RD x .125"	54	10.0	8.6	6.4	4.8	3.6	2.9	2.4	2.0
DB9	4F10-188	10' (3.1m)	4" FL x .188"	50	22.1	19.5	15.4	12.4	10.2	8.5	7.1	6.1
DB9	4F12-188	12' (3.7m)	4" FL x .188"	56	17.6	15.4	12.1	9.6	7.7	6.4	5.3	4.4
DB9	4F14-188	14' (4.3m)	4" FL x .188"	61	14.3	12.5	9.6	7.5	5.9	4.8	3.9	3.2
DB9	4F16-188	16' (4.9m)	4" FL x .188"	66	11.7	10.1	7.6	5.8	4.4	3.5	2.7	2.2
DB9	4R10-226	10' (3.1m)	4" RD x .226"	54	23.8	21.0	16.7	13.5	11.1	9.3	8.0	6.9
DB9	4R12-226	12' (3.7m)	4" RD x .226"	61	19.2	16.9	13.3	10.6	8.6	7.2	6.1	5.3
DB9	4R14-226	14' (4.3m)	4" RD x .226"	67	15.9	13.9	10.8	8.4	6.8	5.6	4.7	4.0
DB9	4R16-226	16' (4.9m)	4" RD x .226"	73	12.4	12.3	9.4	7.3	5.7	4.7	4.0	3.3

NOTE: OVERALL HEIGHT IS MEASURED TO TOP OF POLE.

SPECIFICATIONS

Base shall be cast aluminum #356 alloy, free of any porosity, foreign materials, or cosmetic fillers. Base casting shall be heat treated to a T-6 condition, and of uniform wall thickness, with no warping or mold shifting.

WARNINGS

Caution must be exercised in the selection of a design wind speed when the pole is to be installed in a special wind region (as indicated by the wind map) or in an area where wind speed is unpredictable.

AAL recommends consulting a local structural engineer when the pole is to be installed in an area that may be subject to extreme weather and exposure.

Poles installed on structures such as buildings and bridges may be subjected to vibration, oscillations, and other fatigue effects which are not covered by the AAL warranty.

The use of banners or other appendages can severely affect the loading of a pole. No banner or other appendage should be attached to an AAL pole unless approved by AAL.

If the products are to be used on an existing foundation or on other structures, the customer assumes all responsibility for the structural integrity of the existing foundation, anchorage or structures and all the consequences arising therefrom.

CAUTION

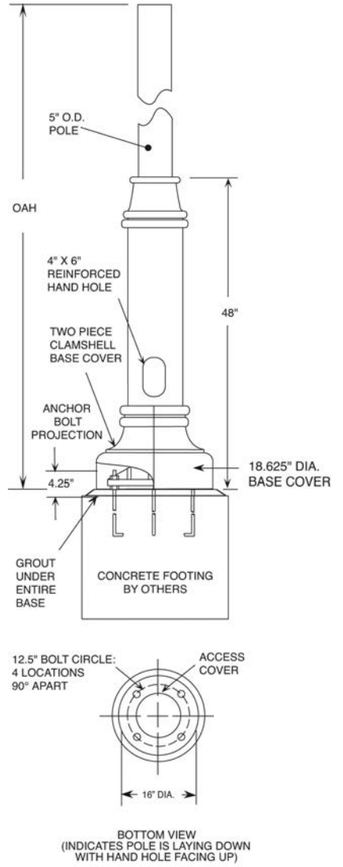
Poles should never be erected without the luminaire installed. Warranty is voided if the pole is erected without the luminaire. The warranty is voided if the pole is not grouted under the entire base after installation.

Anchor bolts shall be hot dip galvanized steel. Six galvanized hex nuts and flat washers, and a bolt circle template shall be provided. Anchor bolt for poles are 3/4" x 24" x 3".

All concrete foundation details are the responsibility of a local structural engineer.

DB10

5" ROUND (RD) & FLUTED (FL)
DECORATIVE BASE



CATALOG NO.					MAXIMUM ALLOWABLE EPA (MPH)							
BASE	POLE	OAH	SHAFT	WT	85	90	100	110	120	130	140	150
DB10	5R14-188	14' (4.3m)	5" RD x .188"	89	32.3	28.5	22.7	18.6	15.5	13.1	11.2	9.6
DB10	5R16-188	16' (4.9m)	5" RD x .188"	95	27.3	23.9	19.0	15.5	12.8	10.8	9.2	7.9
DB10	5R18-188	18' (5.5m)	5" RD x .188"	102	22.8	19.8	15.6	12.7	10.5	8.8	7.4	6.4
DB10	5R20-188	20' (6.2m)	5" RD x .188"	109	18.9	16.4	12.8	10.3	8.5	7.0	5.9	5.0
DB10	5R22-188	22' (6.8m)	5" RD x .188"	116	15.8	13.5	10.4	8.3	6.8	5.6	4.7	3.9
DB10	5R24-188	24' (7.4m)	5" RD x .188"	123	13.1	11.1	8.4	6.6	5.3	4.3	3.6	3.0
DB10	5R25-188	25' (7.7m)	5" RD x .188"	127	11.9	10.0	7.5	5.9	4.7	3.8	3.1	2.5
DB10	5F14-188	14' (4.3m)	5" FL x .188"	89	21.4	18.7	14.8	12.1	10.0	8.2	6.9	5.8
DB10	5F16-188	16' (4.9m)	5" FL x .188"	95	17.8	15.5	12.1	9.8	8.0	6.6	5.4	4.5
DB10	5F18-188	18' (5.5m)	5" FL x .188"	102	14.5	12.5	9.7	7.8	6.3	5.1	4.1	3.3
DB10	5F20-188	20' (6.2m)	5" FL x .188"	109	11.8	10.0	7.6	6.1	4.8	3.7	3.0	2.3
DB10	5F22-188	22' (6.8m)	5" FL x .188"	116	9.4	7.9	5.8	4.6	3.9	2.6	2.0	1.4
DB10	5F24-188	24' (7.4m)	5" FL x .188"	123	7.4	6.1	4.3	3.3	2.4	1.7	1.1	0.6
DB10	5F25-188	25' (7.7m)	5" FL x .188"	127	6.6	5.2	3.6	2.7	1.9	1.2	0.7	0.3
DB10	5R14-250	14' (4.3m)	5" RD x .250"	101	35.7	31.5	25.2	20.6	17.2	14.5	12.4	10.7
DB10	5R16-250	16' (4.9m)	5" RD x .250"	110	30.5	26.8	21.3	17.4	14.5	12.2	10.4	9.0
DB10	5R18-250	18' (5.5m)	5" RD x .250"	119	25.8	22.5	17.8	14.5	12.0	10.1	8.6	7.3
DB10	5R20-250	20' (6.2m)	5" RD x .250"	127	21.8	18.9	14.8	12.0	9.9	8.3	7.0	6.0
DB10	5R22-250	22' (6.8m)	5" RD x .250"	135	18.5	15.9	12.4	9.9	8.1	6.7	5.7	4.8
DB10	5R24-250	24' (7.4m)	5" RD x .250"	143	15.7	13.4	10.3	8.2	6.6	5.5	4.5	3.8
DB10	5R25-250	25' (7.7M)	5" RD X .250"	145	14.5	12.3	9.3	7.4	6.0	4.9	4.0	3.4

NOTE: OVERALL HEIGHT IS MEASURED TO TOP OF POLE.

SPECIFICATIONS

Base shall be cast aluminum #356 alloy, free of any porosity, foreign materials, or cosmetic fillers. Base casting shall be heat treated to a T-6 condition, and of uniform wall thickness, with no warping or mold shifting.

WARNINGS

Caution must be exercised in the selection of a design wind speed when the pole is to be installed in a special wind region (as indicated by the wind map) or in an area where wind speed is unpredictable.

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CAUTION

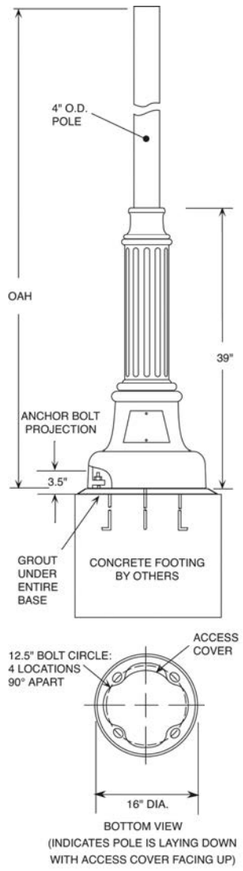
Poles should never be erected without the luminaire installed. Warranty is voided if the pole is erected without the luminaire. The warranty is voided if the pole is not grouted under the entire base after installation.

Anchor bolts shall be hot dip galvanized steel. Eight galvanized hex nuts and flat washers, and a bolt circle template shall be provided. Anchor bolts for poles 14 feet high or less are 3/4" x 24" x 3". Anchor bolt for poles more than 14 feet high are 1" x 36" x 4".

All concrete foundation details are the responsibility of a local structural engineer.

DB12

4" ROUND (RD) & FLUTED (FL)
DECORATIVE BASE



CATALOG NO.					MAXIMUM ALLOWABLE EPA (MPH)							
BASE	POLE	OAH	SHAFT	WT	85	90	100	110	120	130	140	150
DB12	4R10-125	10' (3.1m)	4" RD x .125"	55	19.4	17.1	13.5	10.8	8.9	7.4	6.3	5.5
DB12	4R12-125	12' (3.7m)	4" RD x .125"	59	15.3	13.4	10.5	8.3	6.7	5.6	4.7	4.0
DB12	4R14-125	14' (4.3m)	4" RD x .125"	63	12.3	10.7	8.2	6.3	5.0	4.1	3.4	2.9
DB12	4R16-125	16' (4.9m)	4" RD x .125"	66	10.0	8.6	6.4	4.8	3.6	2.9	2.4	2.0
DB12	4R10-226	10' (3.1m)	4" RD x .226"	68	23.8	21.0	16.7	13.5	11.1	9.3	8.0	6.9
DB12	4R12-226	12' (3.7m)	4" RD x .226"	74	19.2	16.9	13.3	10.6	8.6	7.2	6.1	5.3
DB12	4R14-226	14' (4.3m)	4" RD x .226"	80	15.9	13.9	10.8	8.4	6.8	5.6	4.7	4.0
DB12	4R16-226	16' (4.9m)	4" RD x .226"	87	12.4	12.3	9.4	7.3	5.7	4.7	4.0	3.3
DB12	4R18-226	18' (5.5m)	4" RD x .226"	93	11.7	10.0	7.5	5.6	4.3	3.5	2.9	2.4
DB12	4R20-226	20' (6.2m)	4" RD x .226"	99	9.5	8.1	5.9	4.2	3.1	2.4	1.9	1.6
DB12	4F10-188	10' (3.1m)	4" FL x .188"	63	22.1	19.5	15.4	12.4	10.2	8.5	7.1	6.1
DB12	4F12-188	12' (3.7m)	4" FL x .188"	68	17.6	15.4	12.1	9.6	7.7	6.4	5.3	4.4
DB12	4F14-188	14' (4.3m)	4" FL x .188"	74	14.3	12.5	9.6	7.5	5.9	4.8	3.9	3.2
DB12	4F16-188	16' (4.9m)	4" FL x .188"	79	11.7	10.1	7.6	5.8	4.4	3.5	2.7	2.2

NOTE: OVERALL HEIGHT IS MEASURED TO TOP OF POLE.

SPECIFICATIONS

Base shall be cast aluminum #356 alloy, free of any porosity, foreign materials, or cosmetic fillers. Base casting shall be heat treated to a T-6 condition, and of uniform wall thickness, with no warping or mold shifting.

WARNINGS

Caution must be exercised in the selection of a design wind speed when the pole is to be installed in a special wind region (as indicated by the wind map) or in an area where wind speed is unpredictable.

AAL recommends consulting a local structural engineer when the pole is to be installed in an area that may be subject to extreme weather and exposure.

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CAUTION

Poles should never be erected without the luminaire installed. Warranty is voided if the pole is erected without the luminaire. The warranty is voided if the pole is not grouted under the entire base after installation.

Anchor bolts shall be hot dip galvanized steel. Eight galvanized hex nuts and flat washers, and a bolt circle template shall be provided. Anchor bolt for poles are 3/4" x 24" x 3".

All concrete foundation details are the responsibility of a local structural engineer.

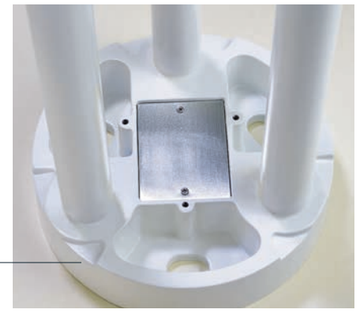
AAL

Contemporary & Traditional Multi-Post Poles

AAL AVAILABLE
MULTI-POST POLES

- 2P/3P
- C3P
- C4P/C4PB
- T4P

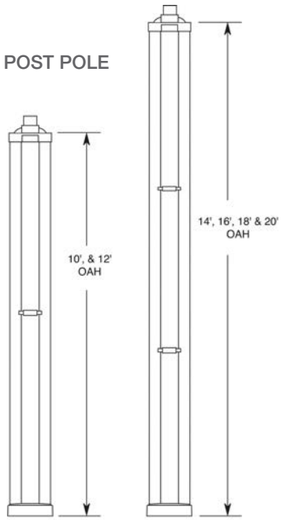
A one piece cast aluminum fitter accommodates an optional RBC receptacle on the underside of the fitter. All poles are prewired for an easy installation.

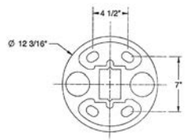


The anchor bolts and the integral wiring box with gasketed cover, is concealed by a cast aluminum cover plate to finish the clean contemporay design of AAL's multi post pole.

SP2-C3P

2P
DUAL POST POLE





CATALOG NO.			MAXIMUM ALLOWABLE EPA (MPH)							
POLE	OAH	WT	85	90	100	110	120	130	140	150
2P8	8' (2.5m)	44	24.9	22	17.4	14	11.4	9.4	7.8	6.5
2P10	10' (3.1m)	50	19.1	16.7	13.0	10.3	8.2	6.6	5.3	4.3
2P12	12' (3.7m)	55	15.0	13.0	9.9	7.6	5.9	4.5	3.4	2.6
2P14	14' (4.3m)	62	11.9	10.2	7.5	5.5	4.0	2.9	2.0	1.2
2P16	16' (4.9m)	67	9.3	7.9	5.5	3.8	2.5	1.5	0.7	0.07
2P18	18' (5.5m)	72	6.8	5.5	3.5	2.1	1.0	0.13	-	-
2P20	20' (6.2m)	77	4.6	3.5	1.8	0.57	-	-	-	-
3P8	8' (2.5m)	46	28.8	25.5	20.3	16.5	13.6	11.4	9.6	8.1
3P10	10' (3.1m)	51	22.3	19.7	15.5	12.4	10.1	8.3	6.8	5.7
3P12	12' (3.7m)	57	17.8	15.6	12.1	9.5	7.5	6.0	4.8	3.8
3P14	14' (4.3m)	63	14.1	12.2	9.3	7.1	5.5	4.2	3.1	2.3
3P16	16' (4.9m)	68	10.6	9.0	6.6	4.8	3.4	2.4	1.5	0.85
3P18	18' (5.5m)	73	7.4	6.1	4.1	2.7	1.5	0.70	0.03	-
3P20	20' (6.2m)	78	4.5	3.5	1.9	0.75	-	-	-	-

NOTE: OVERALL HEIGHT IS MEASURED AS SHOWN (OAH).

SPECIFICATIONS
Base shall be cast aluminum #356 alloy, free of any porosity, foreign materials, or cosmetic fillers. Base casting shall be heat treated to a T-6 condition, and of uniform wall thickness, with no warping or mold shifting.

WARNINGS
Caution must be exercised in the selection of a design wind speed when the pole is to be installed in a special wind region (as indicated by the wind map) or in an area where wind speed is unpredictable.

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Poles installed on structures such as buildings and bridges may be subjected to vibration, oscillations, and other fatigue effects which are not covered by the AAL warranty.

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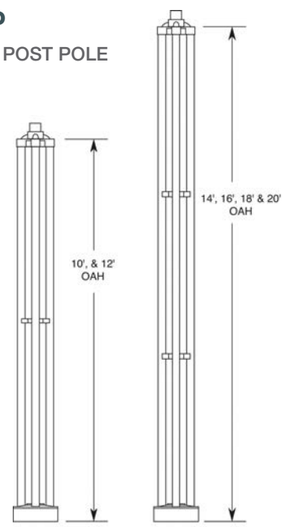
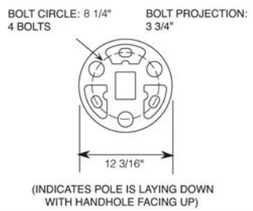
CAUTION
Poles should never be erected without the luminaire installed. Warranty is voided if the pole is erected without the luminaire. The warranty is voided if the pole is not grouted under the entire base after installation.

Anchor bolts are 3/4" x 24" x 3" hot dip galvanized steel. Eight galvanized hex nuts and flat washers, and a bolt circle template are provided.

All concrete foundation details are the responsibility of a local structural engineer.

3P
TRI POST POLE



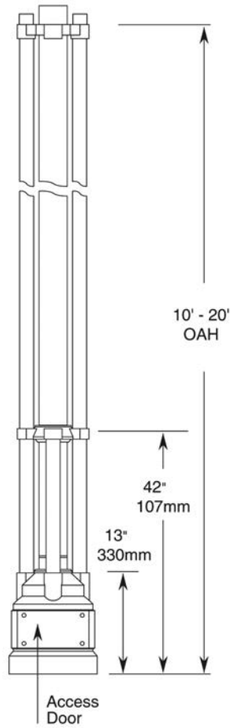


(INDICATES POLE IS LAYING DOWN WITH HANDHOLE FACING UP)

OPTIONS/ACCESSORIES
- RBC
- TA – TENON ADAPTOR FOR SP2

NOTE:
PLEASE REFER TO ACCESSORIES/OPTIONS PAGES FOR DESCRIPTIONS.

C3P
TRI POST POLE



CATALOG NO.			MAXIMUM ALLOWABLE EPA (MPH)							
POLE	OAH	WT	85	90	100	110	120	130	140	150
C3P-8	8' (2.5m)	58	46.4	40.9	32.3	26	21.2	17.4	14.4	12
C3P-10	10' (3.1m)	65	35.4	31.0	24.1	19.0	15.1	12.1	9.7	7.7
C3P-12	12' (3.7m)	72	27.6	23.9	18.2	13.9	10.6	8.1	6.1	4.5
C3P-14	14' (4.3m)	79	21.7	18.6	13.6	9.9	7.1	5.0	3.2	1.8
C3P-16	16' (4.9m)	86	17.0	14.2	9.9	6.7	4.2	2.3	0.8	-

NOTE: OVERALL HEIGHT IS MEASURED AS SHOWN (OAH).

SPECIFICATIONS
Base shall be cast aluminum #356 alloy, free of any porosity, foreign materials, or cosmetic fillers. Base casting shall be heat treated to a T-6 condition, and of uniform wall thickness, with no warping or mold shifting.

WARNINGS
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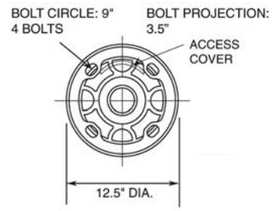
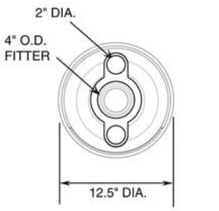


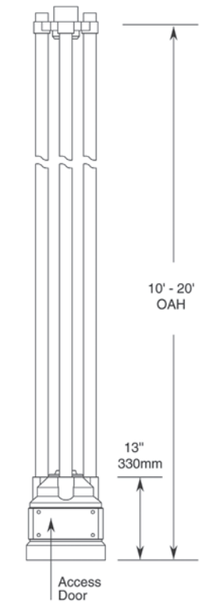
(INDICATES POLE IS LAYING DOWN)



(TOP VIEW OF POST & FITTER)

C4P

FOUR POST POLE



CATALOG NO.			MAXIMUM ALLOWABLE EPA (MPH)							
POLE	OAH	WT	85	90	100	110	120	130	140	150
C4P-8	8' (2.5m)	50	47.8	42.3	33.7	27.4	22.6	18.8	15.8	13.4
C4P-10	10' (3.1m)	58	37.1	32.7	25.8	20.7	16.9	13.8	11.4	9.5
C4P-12	12' (3.7m)	66	29.8	26.1	20.3	16.0	12.8	10.2	8.2	6.6
C4P-14	14' (4.3m)	71	24.2	21.1	16.1	12.4	9.6	7.5	5.7	4.3
C4P-16	16' (4.9m)	78	19.7	17.0	12.7	9.5	7.1	5.2	3.7	2.5
C4PB-8	8' (2.5m)	50	47.8	42.3	33.7	27.4	22.6	18.8	15.8	13.4
C4PB-10	10' (3.1m)	65	37.1	32.7	25.8	20.7	16.9	13.8	11.4	9.5
C4PB-12	12' (3.7m)	72	29.8	26.1	20.3	16.0	12.8	10.2	8.2	6.6
C4PB-14	14' (4.3m)	79	24.2	21.1	16.1	12.4	9.6	7.5	5.7	4.3
C4PB-16	16' (4.9m)	86	19.7	17.0	12.7	9.5	7.1	5.2	3.7	2.5

NOTE: OVERALL HEIGHT IS MEASURED AS SHOWN (OAH).

SPECIFICATIONS

Base shall be cast aluminum #356 alloy, free of any porosity, foreign materials, or cosmetic fillers. Base casting shall be heat treated to a T-6 condition, and of uniform wall thickness, with no warping or mold shifting.

WARNINGS

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CAUTION

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Anchor bolts shall be hot dip galvanized steel. Six galvanized hex nuts and flat washers, and a bolt circle template shall be provided. Anchor bolt for poles are 3/4" x 24" x 3"

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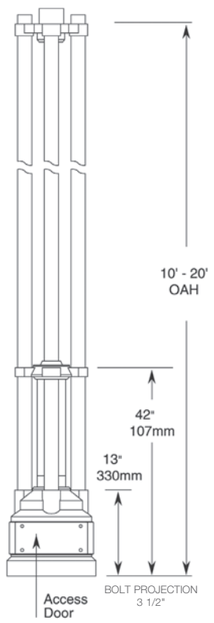
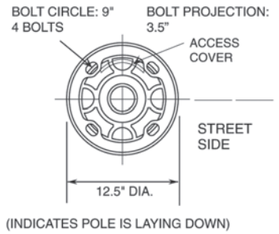
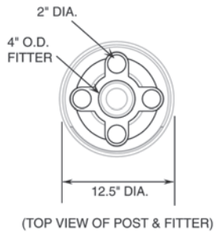
C4PB

FOUR POST POLE





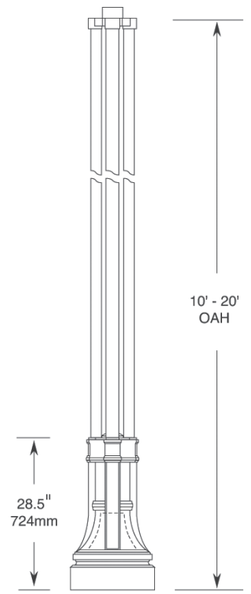
(INDICATES POLE IS LAYING DOWN)



(TOP VIEW OF POST & FITTER)

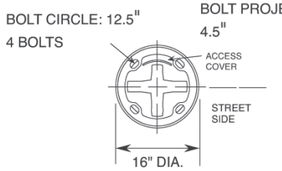
T4P

TRADITIONAL FOUR POST POLE



CATALOG NO.			MAXIMUM ALLOWABLE EPA (MPH)							
POLE	OAH	WT	85	90	100	110	120	130	140	150
T4P-8	8' (2.5m)	103	43.6	38.7	30.9	25.1	20.7	17.3	14.6	12.4
T4P-10	10' (3.1m)	117	32.7	28.8	22.7	18.3	14.8	12.2	10.1	8.4
T4P-12	12' (3.7m)	131	25.5	22.3	17.3	13.6	10.8	8.7	6.9	5.5
T4P-14	14' (4.3m)	145	20.2	17.5	13.3	10.2	7.8	5.1	2.3	-
T4P-16	16' (4.9m)	160	16.2	13.8	10.2	6.1	2.1	-	-	-

NOTE: OVERALL HEIGHT IS MEASURED AS SHOWN (OAH).



(INDICATES POLE IS LAYING DOWN
WITH HANDHOLE FACING UP)

SPECIFICATIONS

Base shall be cast aluminum #356 alloy, free of any porosity, foreign materials, or cosmetic fillers. Base casting shall be heat treated to a T-6 condition, and of uniform wall thickness, with no warping or mold shifting.

WARNINGS

Caution must be exercised in the selection of a design wind speed when the pole is to be installed in a special wind region (as indicated by the wind map) or in an area where wind speed is unpredictable.

AAL recommends consulting a local structural engineer when the pole is to be installed in an area that may be subject to extreme weather and exposure.

Poles installed on structures such as buildings and bridges may be subjected to vibration, oscillations, and other fatigue effects which are not covered by the AAL warranty.

The use of banners or other appendages can severely affect the loading of a pole. No banner or other appendage should be attached to an AAL pole unless approved by AAL.

If the products are to be used on an existing foundation or on other structures, the customer assumes all responsibility for the structural integrity of the existing foundation, anchorage or structures and all the consequences arising therefrom.

CAUTION

Poles should never be erected without the luminaire installed. Warranty is voided if the pole is erected without the luminaire. The warranty is voided if the pole is not grouted under the entire base after installation.

Anchor bolts shall be hot dip galvanized steel. Eight galvanized hex nuts and flat washers, and a bolt circle template shall be provided. Anchor bolt for poles are 3/4" x 24" x 3".

All concrete foundation details are the responsibility of a local structural engineer.

AAL
Accessories

The PCA Photocell Module is an innovative way of overcoming problems with photocells that cycle the lamp because of unwanted light sources in the environment. The PCA Photocell Modules are rotatable 360 degrees, so the photocell can be aimed away from light sources. The Photocell Module accepts a standard twist lock photo cell. The module has a glass window to protect the photocell from the elements and premature failure. The photocell is also shielded from light emissions from the fixture.

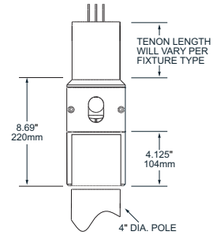
The photocell is shielded from the fixture's illumination, even when used with an arm mounted fixture.

The door is held in place with two captive screws and tethered with a stainless steel cable (not shown).

The Photocell Module is rotated by loosening three set screws.

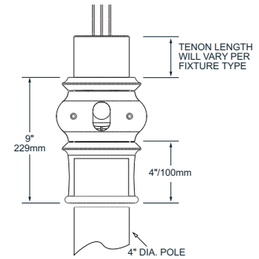
PROV-EPA-T

PHOTOCELL OPTIONS



PCA-C (CONTEMPORARY)

Rotatable photocell housing. The photocell can be aimed away from stray light sources for an accurate setting. The photocell is also shielded from light emissions from the fixture. The housing slips over a 4"/100mm O.D. pole. a fixture or arm slips over the 4"/100mm O.D. tenon. Includes an internal twist lock receptacle, and an access cover with integral lens and stainless steel tether. Adds 4.5"/114mm to the overall height of the pole/fixture assembly. Prewired on the load side and line side for easy installation. Photocell by others.

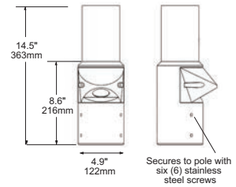


PCA-T (TRADITIONAL)

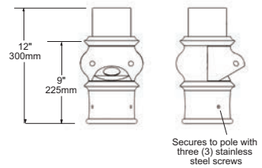
Rotatable photocell housing. The photocell can be aimed away from stray light sources for an accurate setting. The photocell is also shielded from light emissions from the fixture. The housing slips over a 4"/100mm O.D. pole. a fixture slips over the 4"/100mm O.D. tenon. Includes an internal twist lock receptacle, and an access cover with integral lens and stainless steel tether. Adds 5"/125mm to the overall height of the pole/fixture assembly. Prewired on the load side and line side for easy installation. Photocell by others.

EGRESS 2 styles to complement product: traditional and contemporary

CONTEMPORARY



TRADITIONAL



ILLUMINATION

CONTEMPORARY EGRESS ADAPTER - EPA-C

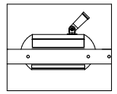
The Contemporary Egress Post Top Adapter can be integrated into an existing non-egress-fitted pole application to provide code-required egress illumination. This adapter features 360° rotation for easy field adjustments. It also features an adjustable bracket that can be positioned between 15-45 degrees, so concise, direct illumination can be provided onto the path of egress. The Egress PTA is wired to an auxiliary 120 volt power source that activates the lower-wattage MR16 in the event of an emergency or power interruption. The housing slips over a 4"/100mm O.D. pole. It includes an access cover with an integral lens and a lanyard safety cable. The contemporary model is 14 1/2" tall, but only adds 3 5/8" to the overall height of the pole. Prewired on both the load side and line side for easy installation.

TRADITIONAL EGRESS ADAPTER - EPA-T

The Traditional Egress Post Top Adapter can be integrated into an existing non-egress-fitted pole application to provide code-required egress illumination. This adapter features 360° rotation for easy field adjustments. It also features an adjustable bracket that can be positioned between 15-45 degrees, so concise, direct illumination can be provided onto the path of egress. The Egress PTA is wired to an auxiliary 120 volt power source that activates the lower-wattage MR16 in the event of an emergency or power interruption. The housing slips over a 4"/100mm O.D. pole. It includes an access cover with an integral lens and a lanyard safety cable. The traditional model is 12" tall, but only adds 3 5/8" to the overall height of the pole. Prewired on both the load side and line side for easy installation.

PHOTOCELL OPTIONS

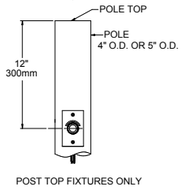
PHOTOCELLS



BPC12 - BPC27

Swivel type photocell with adjustable swivel for aiming. Requires field wiring.

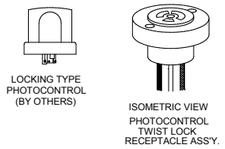
Consult factory for specific fixture availability.



PHC

Button type photocell and cast shield. Standard location is 12" down from top of pole. Inline with hand hole.

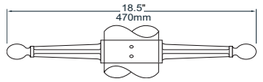
Specify voltage.



PCR

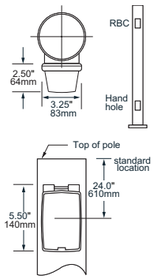
Low profile twist lock photocell receptacle with cast pole cap top. Secures to the top of the pole with three stainless steel set screws. Photocell by others.

OTHER ACCESSORIES



LR

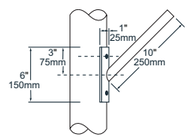
Ladder rest. Slips over a 4"/100mm O.D. pole



RBC

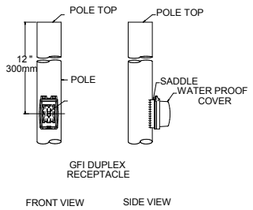
Cast aluminum receptacle housing, integrally welded to the pole. Includes a NEC approved clear weatherproof U.L.Listed in-use cover. Does not include a receptacle or internal wiring.

(Standard RBC is 24" below the top of the pole. Consult factory for alternative locations, which may require additional factory reinforcement)



FH

Flag holder. (Specify location on pole)



GFI (with RBC)

Ground Fault Interrupter. Wet location receptacle. Standard location is 24" down from top of pole. Inline with hand hole.

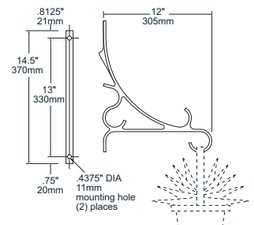
FS1

Single weatherproof fuse holder. Fuse by others.

FS2

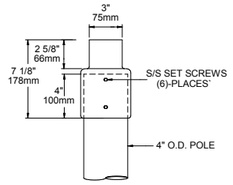
Double weatherproof fuse holder. Fuse by others.

Note: Fuse supplied and installed by others.



PLT

Plant Hanger.
For 4"/100mm O.D. poles. (Specify location on pole, holds up to 25 lbs.)
For 4" OD or 5" OD pole.



AD4

This adapter is used with AAL arms and post top fixtures designed to be installed on 5"/125mm O.D. poles. It adapts the fixture to a 4"/100mm pole or arm.

AD5

This adapter is used with AAL arms and post top fixtures designed to be installed on 4"/100mm O.D. poles. It adapts a 4"/100mm fixture to a 5"/125mm pole or arm.

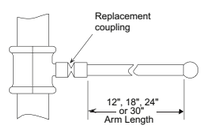
ACCESSORIES

BANNER ARMS

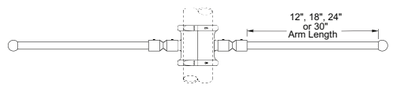
BREAKAWAY ARMS

CATALOG NO. BANNER ARMS	
BBS4-12	Single assembly for 4" O.D. pole, 12" arm.
BBS4-18	Single assembly for 4" O.D. pole, 18" arm.
BBS4-24	Single assembly for 4" O.D. pole, 24" arm.
BBS4-30	Single assembly for 4" O.D. pole, 30" arm.
BBS5-12	Single assembly for 5" O.D. pole, 12" arm.
BBS5-18	Single assembly for 5" O.D. pole, 18" arm.
BBS5-24	Single assembly for 5" O.D. pole, 24" arm.
BBS5-30	Single assembly for 5" O.D. pole, 30" arm.
BBD4-12 (2)	Twin assembly for 4" O.D. pole, 12" arms.
BBD4-18 (2)	Twin assembly for 4" O.D. pole, 18" arms.
BBD4-24 (2)	Twin assembly for 4" O.D. pole, 24" arms.
BBD4-30 (2)	Twin assembly for 4" O.D. pole, 30" arms.

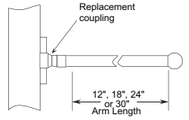
CATALOG NO. BANNER ARMS	
BSQ4-12 ARM.	SINGLE ASSEMBLY FOR 4" SQ. POLE, 12"
BSQ4-18 ARM.	SINGLE ASSEMBLY FOR 4" SQ. POLE, 18"
BSQ4-24 ARM.	SINGLE ASSEMBLY FOR 4" SQ. POLE, 24"
BSQ4-30 ARM.	SINGLE ASSEMBLY FOR 4" SQ. POLE, 30"



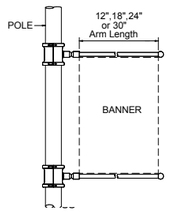
BBS
Single Assembly



BBD
Twin Assembly



BSQ
Square Pole



BBS (2)
Two Arms

DESCRIPTION

Round AAL banner arms are clamshell designs for 4"/100mm or 5"/125mm diameter poles. Banner arm for square pole is secured to the side of the pole with two bolts. The banner arms are easily added or removed from the pole. The breakaway coupling is designed to fail before over-stressing the pole. An internal, stainless steel cable keeps the arm attached to the pole assembly.

The failure point for the coupling is affected by the banner size, pole height and vertical location of the banner on the pole. The loading is also affected by securing the banner at the top only, or the top and bottom. Contact the factory for the maximum banner size recommended for your application.

Standard Colors

Colors are for reference only, as monitor or printer configuration may distort and/or change color appearance. Contact a local representative for a color chip

STANDARD COLORS

AWT	Arctic White
LGY	Light Gray
MAL	Matte Aluminum
MDG	Medium Gray
ATG	Antique Green
VBL	Verde Blue
WRZ	Weathered Bronze
DGN	Dark Green
CRT	Corten
BRM	Metallic Bronze
DBZ	Dark Bronze
BLK	Black
MTB	Matte Black

Premium Colors

Colors are for reference only, as monitor or printer configuration may distort and/or change color appearance. Contact a local representative for a color chip.

All Standard and premium AAL colors available. For RAL and custom colors, please submit a four-digit RAL number or color chip for custom colors.

PREMIUM COLORS

SFM	Seafoam
WCP	Weathered Copper
SHK	Shamrock
SPP	Salt & Pepper

ALN445-TRA1L

ARMS POLES

Accessories

Current

Current Lighting Solutions, LLC
701 Millennium Blvd.
Greenville, SC 29607

currentlighting.com/architecturalarealighting

Rev 06/23/22
aal_polesarms_lit_R02

Auburn Water and Sewer Districts

MEMO

To: Esther Bizier

From: Michael Broadbent, Superintendent

CC: Katherine Cook

Date: February 22, 2023

Re: Proposed John F Murphey Homes, Auburn Maine

Thank you for sending me the utility plan for the proposed John F Murphy Home on Hotel Rd. I offer the following comments on the water and sewer connections. The District has sufficient capacity to serve both water and sewer needs of this development.

Water:

The plans show multiple gates (4) on Hotel Road with two separate services coming down the access Road to the building. The District would prefer the connection on Hotel Road to be a tap sleeve with gate. Run one main down the access Road and tap the domestic off outside of the main building. A gate should be installed on the sprinkler main between the domestic service tap and the building. This way both lines can be isolated independently. We also recommend all valves be installed within paved surfaces that will be maintained year-round. This will be a private main extension, the District will provide an estimate for the tap and for the pressure and bacteria tests on the main. Once the main is ready to be activated we'll provide a meter estimate to the owner of the property.

Sewer:

The sewer connection to the cross country manhole is acceptable, however the flow line of the service must discharge directly into the flow line of the District's existing main without restricting access within the structure. There are a couple of sharp bends in the proposed service, the District recommends another manhole on the second bend off the northeast corner of the garage.

The owner will be responsible for sewer connection and capacity fees, these fees are based off the size of the domestic water meter in the facility. To review the fee schedule, visit our website, fees must be paid prior to activation of the services.

STORMWATER MANAGEMENT
GENERAL STANDARDS NARRATIVE

Taylor Brook House
Auburn, Maine

Prepared by:

MAIN-LAND DEVELOPMENT CONSULTANTS, INC.
P.O. Box Q, Livermore Falls, Maine

March 3, 2023

The 12.83 acre project site is located off of Hotel Road in Auburn, Maine and is bounded on the northerly side by Taylor Brook. The property generally a mixture of field and woods. Some emergent wetland is located along the stream and forested wetland extends into the site. There is a Central Maine Power Easement which runs through the site and a City of Auburn sewer main along the northern property boundary. The property is generally moderately sloping with mainly hydrologic soil group "C" sandy loam/silty loam soils. The property drains entirely into Taylor Brook which flows to the Androscoggin River. As such, the property is not within the watershed of a Lake Most at Risk and a Phosphorus Analysis was not required.

The proposed Taylor Brook House is a 13,469 square foot "Care Home" operated by John F. Murphy Homes. In addition to the new building, there is a paved access drive, paved parking, a garage and an outdoor seating area. The project as shown on Site Plans included with this application totals 1.14 acres of non-revegetated impervious area and a total of 2.81 acres of developed area. As such, the project requires stormwater quality treatment of 95% of new impervious area and 80% of new developed area to meet the General Standard in Maine DEP Chapter 500 Stormwater Management Law. As part of Chapter 500, the applicant is seeking a Linear Portion of Project exemption for the access drive which requires 75% treatment of linear impervious area and 50% treatment is linear developed area (ditchline).

Stormwater treatment is achieved via four proposed best management practices:

- Grassed Underdrain Soil Filter Pond 1: to treat entrance drive and parking area
- Grassed Underdrain Soil Filter Pond 2: to treat a portion of the new garage and drive through for the garage
- Bioretention Filter/Rain Garden 3: to treat walkways, outdoor seating area and lawn area
- Roof Dripline Filter: to treat the roof of the proposed building

Treatment devices are shown on the project Site Plans and the D2.1 Drainage Plan. Sizing calculations and design details for each treatment device are provided following this narrative.

These stormwater treatment methods provide treatment of 100% of non-linear impervious area, 80.7% of developed area, 84.2% of linear impervious area and 91.9% of linear developed area. These treatment percentages meet the Stormwater Management Law General Standard Requirements and therefore meet City of Auburn ordinances.

EROSION AND SEDIMENTATION CONTROL PLAN

Taylor Brook House
Hotel Road, Auburn, Maine

Prepared By:

MAIN-LAND DEVELOPMENT CONSULTANTS, INC.
Livermore Falls, Maine
March 3, 2023

1. INTRODUCTION:

"A person who conducts, or causes to be conducted, an activity that involves filling, displacing or exposing soil or other earthen materials shall take measures to prevent unreasonable erosion of soil or sediment beyond the project site or into a protected natural resource as defined in 38 M.R.S.A. §480-B. Sediment control measures must be in place before the activity begins. Measures must remain in place and functional until the site is permanently stabilized. Adequate and timely temporary and permanent stabilization measures must be taken." – Maine DEP Chapter 500 Rules, Appendix A.

This Plan has been developed to insure that construction activities on this project site utilize sound erosion and sedimentation control measures. These measures will prevent or reduce the potential for the deposition of sediments down stream of site. The methods of control consist of preventive measures and remedial measures. Preventive measures are aimed at keeping the soils in their present location through mulching and through the reestablishment of vegetation. Remedial measures deal with the trapping and/or filtering of sediment laden stormwater run-off. Both types of measures will be utilized on this project.

The Erosion and Sedimentation Control Plan is best broken down into Temporary Measures, Winter Stabilization, and Permanent Measures.

2. TEMPORARY EROSION CONTROL:

Temporary control measures may consist of a combination of measures where appropriate and/or as shown on the plans.

A. Sediment Filter Berms:

Sediment Filter Berms are the preferred filtering device, but may not be used in wetland areas. The berms shall be placed down slope of all earth moving activities, where water from these disturbed areas will run off. These berms will be placed along an even contour, be at least 24 inches tall, and 3 feet wide at the base. Turn the ends of the berm up-grade to avoid runoff flowing around the berm. In areas of high erosion potential, the berm will be backed by hay bales or silt fencing, as shown on the filter berm detail.

B. Silt Fencing:

Silt fencing may be used in place of, or together with, the sediment filter barriers. The silt

fencing will also be anchored at least four inches into the ground and placed along an even contour. Turn the ends of the fence up-grade to avoid runoff flowing around the fence. During frozen conditions, furnish and install Sediment Filter Berms in lieu of silt fencing or hay bales if frozen soil prevents the proper installation of silt fences and hay bales.

C. Stone Check dams:

Stone check dams shall be placed in the center of ditches immediately following excavation to provide a means of trapping sediments. (If the ditch has been immediately armored with rip-rap, check dams are not necessary.) The dams shall consist of small stone placed across the ditch, with a depression at the top of the dam to allow water over the top of the dam, should it become clogged with sediment. See the specifications on the Typical Details Plan for construction details of this measure.

D. Temporary Mulch:

Temporary mulch shall be placed on all disturbed areas where seeding, construction or stabilization activities will not take place for over 7 consecutive days. Temporary mulch will also be placed on areas within 75 feet of a natural resource (wetland, stream, etc.) where seeding will not take place for over 48 hours, and on all bare soils outside the road base prior to any predicted significant rain event. A significant rain event is considered to be at least ½ inch of rain or more. Temporary mulch may be hay and shall be applied at a rate of two bales per 1,000 square feet. Soil must not be visible upon completion of application, regardless of rate of application.

E. Topsoil Stockpiles:

Topsoil, removed as part of the construction, will be stockpiled on site for use in areas to be re-vegetated. The location of topsoil stockpiles must not be within 75 feet of a defined natural resource (wetland, stream, etc.), or within 75 feet of a swale or ditch.

Stockpiles shall be mulched with hay at two bales per 1,000 square feet. The area down slope from any stockpile areas will be protected by a sediment filter berm or silt fence placed directly below or down gradient from the stockpile. If the stockpile must be left for more than 30 days, the pile will be seeded with rye grass at a rate of two pounds per 1,000 square feet and mulched in accordance with this paragraph.

F. Catch Basins.

Catch basin inlets must be protected with a sediment trap until contributing areas, including paved and grassed island areas, are fully stabilized with pavement or grass. Temporary sediment traps shall be Dandy Bags or approved equal, with appropriate overflow slots. Geotextile cut to fit under the catch basin grate shall not be acceptable.

G. Maintenance of Temporary Measures:

All temporary measures described above shall be inspected weekly and before/after every significant storm event (1/2 inch of rain or greater) throughout the construction of the project. Repairs or replacements of temporary measures will be made as necessary. Once the site is stable, all temporary devices such as hay bale barriers and silt fencing will be removed.

A log shall be kept summarizing the inspections and any corrective action taken. The log must include the name(s) and qualifications of the person making the inspections, the date(s) of the inspections, and major observations about the operation and maintenance of erosion and sedimentation controls, materials storage areas, and vehicles access points to the parcel. Major observations must include BMPs that need maintenance, BMPs that failed to operate as designed or proved inadequate for a particular location, and location(s) where additional BMPs are needed. For each BMP requiring maintenance, BMP needing replacement, and location needing additional BMPs, note in the log the corrective action taken and when it was taken.

The log must be made accessible to department staff and a copy must be provided upon request. The permittee shall retain a copy of the log for a period of at least three years from the completion of permanent stabilization.

3. WINTER STABILIZATION:

The winter construction period is from November 1 through April 15. If the construction site is not stabilized with a combination of pavement, a road gravel base, 90% mature vegetation cover or riprap by November 1 then the site needs to be protected with winter stabilization.

Winter excavation and earthwork shall be completed such that no more than 1 acre of the site is denuded at any one time. Limit the exposed area to those areas in which work is expected to be under taken during the following 15 days. Exposed area shall not be so large that it cannot be mulched in one day prior to any snow event.

Areas shall be considered to be denuded until the subbase gravel is installed in roadway areas or the areas of future loam and seed have been loamed and mulched. Hay and straw mulch rate shall be a minimum of 200 lbs./1,000 s.f. (3 tons/acre) and shall be properly anchored.

The contractor must install any added measures which may be necessary to control erosion/sedimentation from the site dependent upon the actual site and weather conditions.

Continuation of earthwork operations on additional areas shall not begin until the exposed soil surface on the area being worked has been stabilized, in order to minimize areas without erosion control protection.

1. Soil Stockpiles

   Stockpiles of soil or subsoil will be mulched for over winter protection with hay or straw at twice the normal rate or at 200 lbs/1,000 s.f. (3 tons per acre) or with a four-inch layer of woodwaste erosion control mix. This will be done within 24 hours of stocking and re-established prior to any rainfall or snowfall.

   Any new soil stockpile will not be placed (even covered with hay or straw) within 100 feet of any natural resources.

2. Natural Resource Protection

   Any areas within 100 feet from any natural resources, if not stabilized with a minimum of 90 % mature vegetation catch, shall be mulched by December 1 and anchored with plastic netting or protected with erosion control mats.

   During winter construction, a double line of sediment barriers (i.e. silt fence backed with hay bales or erosion control mix) will be placed between any natural resource and the disturbed area. Silt fencing may not be placed on frozen ground.

   Projects crossing the natural resource shall be protected a minimum distance of 100 feet on either side from the resource. Existing projects not stabilized by December 1 shall be protected with the second line of sediment barrier to ensure functionality during the spring thaw and rains.

3. Mulching

   Areas shall be considered denuded until loamed, seeded and mulched. Hay and straw mulch shall be applied at a rate of 200 lb. per 1.000 square feet or 3 tons/acre (twice the normal accepted rate) and shall be properly anchored. Mulch shall not be spread on top of snow. The snow will be removed down to a one-inch depth or less prior to application.

   An area shall be considered stabilized when exposed surfaces have been either mulched with straw or hay at a rate of 200 lb. per 1,000 square feet and adequately anchored, such that the ground surface is not visible though the mulch.

   Between the dates of November 1 and April 15, all mulch shall be anchored by either peg line, mulch netting, or wood cellulose fiber. The ground surface shall

not be visible though the mulch.

After November 1th, mulch and anchoring of all bare soil shall occur at the end of each final grading work day.

4. Mulching on Slopes and Ditches

Slopes shall not be left exposed for more than 7 days unless fully mulched and anchored. Slopes within 75 feet of a natural resource shall not be left exposed for more than 48 hours. Mulching shall be applied at a rate of 300 lbs/1,000 sq ft on all slopes greater than 8%. Erosion Control mesh shall be used to anchor mulch in all drainage ways and ditches, for slopes exposed to direct winds, and for all other slopes greater that 8 %. Erosion control blanket and check dams (or permanent Rip-Rap) shall be used in lieu of mulch in all drainage ways with slopes of 8 % or more.

A six inch layer of erosion control mix can be used to substitute erosion control blankets on all slopes except ditches.

5. Seeding

Between the dates of October 15 and April 1st, loam or seed will not be required. During periods of above freezing temperatures, finished areas shall be fine graded and either protected with mulch or temporarily seeded (see table below) and mulched until such time as the final treatment can be applied. If after November 1st the exposed area has been final graded and loamed, then the area may be dormant seeded at a rate of 3 times higher than specified for permanent seed and then mulched.

TEMPORARY SEED MIX

TYPE	% BY WEIGHT	% PURITY	% GERMINATION
Domestic Rye Grass	60	69.75	90
Perennial Rye Grass	20	28.00	85
Aroostook Rye Grass	20	28.00	85

Dormant seeding may be placed prior to the placement of mulch and fabric netting anchored with staples.

If dormant seeding is used for the site, all disturbed areas shall receive 4” of loam and seed at an application rate of 5lbs/1000 s.f. All areas seeded during the winter

will be inspected in the spring for adequate catch. Areas not sufficiently vegetated (less than 90 % catch) shall be revegetated by replacing loam, seed and mulch.

If dormant seeding is not used, all disturbed areas shall be revegetated in the spring.

6. Trench Dewatering and Temporary Stream Diversion

Water from construction trench dewatering or temporary stream diversion will pass first through a filter bag or secondary containment structure (e.g. hay bale lined pool) prior to discharge. The discharge site shall be selected to avoid flooding, icing, and sediment discharges to a protected resource. In no case shall the filter bag or containment structure be located within 100 feet of a protected natural resource.

7. Inspection and Monitoring

Maintenance measures shall be applied as needed during the entire construction season. After each rainfall, snow storm or period of thawing and runoff, the site contractor shall perform a visual inspection of all installed erosion control measures and perform repairs as needed to insure their continuous function.

In the spring, following the temporary/final seeding and mulching, the contractor shall inspect and repair any damages and/ or un-established spots. Established vegetative cover means a minimum of 90 % of areas vegetated with vigorous growth.

8. Standard for the timely stabilization of ditches and channels

All stone-lined ditches and channels shall be constructed and stabilized by November 1. All grass-lined ditches and channels shall be constructed and stabilized by September 1. Failure to stabilize a ditch or channel to be grass-lined by September 1, will require one of the following actions to stabilize the ditch for late fall and winter.

Install a sod lining in the ditch – Sod lining shall be installed in ditches by October 1. Proper installation includes pinning the sod onto the soil with wire pins, rolling the sod to guarantee contact between the sod and underlying soil, watering the sod to promote root growth into the disturbed soil, and anchoring the sod with jute or plastic mesh to prevent the sod strips from sloughing during flow conditions.

Install a stone lining in the ditch –Ditches shall be lined with stone riprap by November 1, as presented below. If necessary, the applicant will regrade the

ditch prior to placing the stone lining so to prevent the stone lining from reducing the ditch's cross-sectional area.

9. Standard for the timely stabilization of disturbed slopes

Construct and stabilize stone-covered slopes by November 1. The applicant will Seed and mulch all slopes to be vegetated by September 1. Slopes will be considered any area having a grade greater than 15% (6H:1V). If the applicant fails to stabilize any slope to be vegetated by September 1, then the applicant will take one of the following actions to stabilize the slope for late fall and winter.

Stabilize the soil with temporary vegetation and erosion control mats -- Seed the disturbed slope with winter rye at a seeding rate of 3 pounds per 1000 square feet and apply erosion control mats over the mulched slope October 1. The applicant will monitor growth of the rye over the next 30 days. If the rye fails to grow at least three inches or cover at least 90% of the disturbed slope by November 1, cover the slope with a layer of wood waste compost or with stone riprap as described below.

Stabilize the slope with sod -- Stabilize the disturbed slope with properly installed sod by October 1. Proper installation includes pinning the sod onto the slope with wire pins, rolling the sod to guarantee contact between the sod and underlying soil, and watering the sod to promote root growth into the disturbed soil. Sod stabilization shall not be used late-season to stabilize slopes having a grade greater than 33% (3H:1V).

Stabilize the slope with wood waste compost (erosion control mix) --Place a six-inch layer of wood waste compost on the slope by November 1. Prior to placing the wood waste compost, remove any snow accumulation on the disturbed slope. Wood waste compost will not be used to stabilize slopes having grades greater than 50% (2H:1V) or having groundwater seeps on the slope face.

Stabilize the slope with stone riprap -- Place a layer of stone riprap on the slope by November 1, similar to the Stone Lined Ditch the permanent erosion control section.

10. Standard for the timely stabilization of disturbed soils

Seed and mulch all disturbed soils on areas having a slope less than 15% by September 1. Failure to stabilize these soils by this date will require one of the following actions to stabilize the soil for late fall and winter.

Stabilize the soil with temporary vegetation -- Seed the disturbed soil with winter rye at a seeding rate of 3 pounds per 1000 square feet, lightly mulch the seeded soil with hay or straw at 75 pounds per 1000 square feet, and anchor the mulch with plastic netting by October 1. Growth of the rye will require monitoring over the following 30 days. If the rye fails to grow at least three inches or cover at least 75% of the disturbed soil before November 1, then mulch the area for over-winter protection as described below.

Stabilize the soil with sod -- Stabilize the disturbed soil with properly installed sod by October 1. Proper installation includes pinning the sod onto the soil with wire pins, rolling the sod to guarantee contact between the sod and underlying soil, and watering the sod to promote root growth into the disturbed soil.

Stabilize the soil with mulch -- Mulch the disturbed soil by spreading hay or straw at a rate of at least 150 pounds per 1000 square feet on the area so that no soil is visible through the mulch by November 1. Prior to applying the mulch, remove any snow accumulation on the disturbed area. Immediately after applying the mulch, anchor the mulch with plastic netting to prevent wind from moving the mulch off the disturbed soil.

4. PERMANENT EROSION CONTROL:

Permanent measures will consist of the placement of culverts; culvert inlet/outlet stabilization; the construction of grass/stone lined ditches; and the re-vegetation of all areas outside the traveled way of the road, and those areas designated as stone lined ditches.

A. Culverts:

All culverts have been sized to handle the peak flows generated by a 25-year, 24-hour rain storm. The locations and sizes of the culverts are shown on the Site Plans.

The inlets and outlets of the culverts will be armored with riprap to prevent scouring. This armoring will consist of placing stone possessing a D50 of 6 inches to a depth of 18 inches to the following dimensions: width equal to twice the diameter of the culvert; length equal to three times the diameter of the culvert, unless noted otherwise.

B. Ditches:

Ditches on the project have been designed based on expected flow rates and velocities for the 25-year, 24-hour storm event and the slope of the ditch. Where water velocities are expected to exceed 3.5 feet per second, the ditch has been designed to be stone lined. Ditches with water velocities of less than 3.5 feet per second have been designed to be grass lined.

Stone Lined Ditches:

Stone lined ditches will first be lined with a non-woven filter fabric, and then lined with riprap possessing a D50 of approximately 6 inches in diameter. This means that approximately half the stones by weight will be smaller than 6 inches and half will be larger. The minimum stone size should be 1 inch with the largest stone being 9 inches in diameter. The depth of stone in the ditch should average 15 inches.

The final shape of the ditch will consist of the following dimensions: a bottom width of two feet; side slopes possessing a 3:1 horizontal to vertical; and a total depth of 2 feet.

In lieu of stone rip-rap, the ditch may be lined with a permanent erosion control blanket, such as North American Green P300 or approved equal.

Grass Lined Ditches:

Grass lined ditches will possess the same final dimensions as the stone lined ditches. The flow area of the ditch will be armored by placing a biodegradable matting or netting (such as American Excelsior Curlex Blanket or equal) in the bottom of the ditch. Placement of this material must take place after seeding. Install according to the manufacturers' recommendations.

Seeding and mulching of grass lined ditches will follow the specifications stated below for re-vegetation.

C. Re-vegetation Measures:

All areas to be permanently re-vegetated with grass will first be covered with loam and then fertilized.

Loam will be placed on all areas to be re-vegetated. Loam will be placed to a minimum depth of 4 inches. Loam will be the stockpiled topsoil, if possible.

Test the loam samples for nutrients at a proficient testing laboratory (The University of Maine provides this service). The areas with loam will then be fertilized with the recommended application rate. Lime will also be applied at a rate of 50 pounds per 1,000 square feet. Both the lime and the fertilizer will be mixed thoroughly with the soil.

All areas to be re-vegetated with permanent grass are to be seeded with the seed mix shown on the table below. This mixture will be applied at a rate of 2 pounds per 1,000

square feet.

General Lawn Areas	Chewing Fescue "Dignity"	35%
	Pennlawn Creeping Red Fescue	35%
	Perennial Rye "Tourstar" (Nutrite)	30%

Mulch will then be spread on all seeded areas at a rate of two bales per 1,000 square feet. Regardless of application rate the soil shall not be visible through the mulch.

Seed and mulch will be placed within five days of final grading of topsoil.

Seeded areas will be inspected after 30 days to determine the success of the seeding. If the ground cover is less than 90%, the area will be reseeded.

D. Critical Areas:

Slopes in excess of 15% will require the placement of a biodegradable netting or matting over the mulch and seed (if the netting has no mulch in it). If stabilization is to take place after October 1, slopes over 8% will be treated with the matting.

E. Maintenance of Permanent Measures:

All measures will be inspected weekly and before and after every significant storm event during construction, and then at least once annually to insure proper function. Any damaged areas will be repaired or replaced as necessary. Any ditches or culverts not functioning as designed will be redesigned and reconstructed according to specifications prepared by a Professional Engineer.

In any event, seeding should take place either between May 1 and June 15, or August 15 and September 1.

HOUSEKEEPING PLAN

Taylor Brook House
Auburn, Maine

Prepared by:

MAIN-LAND DEVELOPMENT CONSULTANTS, INC.
P.O. Box Q, Livermore Falls, Maine

March 3, 2023

The purpose of this Plan is to ensure construction activities protect against and do not create or result in materials that could become a source of pollution. These standards apply to spill prevention, groundwater protection, sediment and dust, debris and other materials, excavation de-watering, authorized non-stormwater discharges and unauthorized non-stormwater discharges.

Spill Prevention:

A SPCC plan is unnecessary. No hazardous materials will be stored on site. The site will primarily be utilized for parking, loading/unloading and storage of non-hazardous material.

Groundwater Protection:

No stormwater infiltration areas are proposed on this site. Additionally, the site is not located over a Significant Sand and Gravel Aquifer.

Fugitive Sediment and Dust:

A stabilized construction exit will be maintained for the duration of construction to minimize the tracking of mud and sediment off site. Application of water will be utilized for dust prevention during construction. Application of other chemicals to reduce dust shall not be allowed without Maine DEP approval due to the Taylor Brook watershed.

Debris and Other Materials:

Construction debris shall be contained within roll-off dumpsters and hauled to a licensed waste facility. The site shall be kept in a tidy condition, free of trash and litter.

Excavation De-Watering:

If excavation dewatering is warranted, discharge of water from the excavation shall be through an approved filter as noted in the Erosion and Sedimentation Control Plan. The

discharge shall be at minimum 100 feet from Taylor Brook and allow flow through a vegetated area prior to confluence with wetland or stream flows.

Authorized Non-Stormwater Discharges:

There are no authorized non-stormwater discharges existing or proposed for this site.

Unauthorized Non-Stormwater Discharges:

There are no unauthorized non-stormwater discharges existing or proposed for this site.

POST-CONSTRUCTION STORMWATER INSPECTION & MAINTENANCE PLAN

Taylor Brook House
Auburn, Maine

Narrative

The following outlines the proposed BMP's and their required inspection, maintenance, and reporting.

Inspections and maintenance will be the responsibility of the Property Owner/Applicant. Written reports of inspections and maintenance work will be kept to show the work has been completed as proposed. These reports will be kept by the Owner/Applicant, along with other relevant City of Auburn documentation.

Contacts:

Design Engineer:	Esther K. Bizier, P.E. Main-Land Development Consultants, INC P.O. Box Q, 69 Main Street Livermore Falls, Maine 04254
Applicant:	John F. Murphy Homes, Inc. 800 Center Street Auburn, ME 04210
Owner:	John F. Murphy Homes, Inc.

Post Construction Stormwater Inspector:

_____
_____
_____

Contractors:

_____
_____
_____

Inspection

The applicant, John F. Murphy Homes, Inc., is responsible for complying with the City Stormwater Law Permit. The Applicant will be responsible for inspection and maintenance

during construction and post-construction. The Applicant is also responsible for upkeep and compliance post-construction. The development is also subject to State Stormwater Management Law and will be subject to a "Five-year Recertification for Long-Term Maintenance of Stormwater Management Systems" as well as City requirements for stormwater maintenance as a MS4 community.

Purpose

The purpose of this Plan is to ensure proper function of the infrastructure constructed as part of this project. The infrastructure will include the stormwater control devices including but not limited to: drives and parking; catch basins and stormdrains; drainage ditches; Focal Point, filter pond, and detention pond. The tasks detailed in this Plan are the responsibility of the applicant.

Definitions

Significant Period of Rain: 1" or more of rain in a 24-hour period.

Inspection Scope

All areas of the site shall be inspected based on the criteria discussed for each site item or stormwater control measure as found later in the plan. See the Inspection and Maintenance Plan identifying locations of measures requiring inspection. Inspection activities listed herein are to be considered at minimum. Stormwater inspector shall use his or her judgement as to additional inspection or maintenance activities.

Inspection Frequency

Complete site inspections at the frequency listed in the following Inspection Summary.

Inspection Qualifications

For Post-Development Inspections, the qualified post-construction stormwater inspector with knowledge of erosion and stormwater control, including the standards and conditions of the project permit shall be retained by the Applicant.

Inspection/Maintenance Responsibility

It shall be the responsibility of the Applicant to retain the services of a Post-Construction Stormwater Inspector and provide for the repair and maintenance noted by inspections, if any. When maintenance is required by inspection, the Applicant shall perform the required maintenance and/or repairs in a timely fashion and notify the Inspector when the maintenance is complete. The Applicant shall maintain detailed records for the inspections and maintenance performed.

Documentation

Post Construction inspection forms and documentation of corrective actions shall be maintained for at least (5) years.

Inspection and Maintenance Plan

The site will be inspected and maintained according to the following schedule and procedures.

INSPECTION SUMMARY
Taylor Brook House

Inspections of	Schedule
- **Drives & Parking**	Annual
- **Drainage Ditches**	Annual
- **Stormdrains**	Annual
- **Grassed Underdrain Soil Filter 1**	Semi-Annual
- **Grassed Underdrain Soil Filter 2**	Semi-Annual
- **Bioretention Filter/Rain Garden**	Semi-Annual
- **Roof Dripline Filter**	Semi-Annual

Drives & Parking:

Inspection:

The roads will be inspected at least annually to ensure proper function and to ensure structural integrity. This inspection will take place in September. Road inspections will be simple visual inspections, looking at the drive or parking surface for cracking, puddling, sedimentation, heaving, potholing, or other signs of degradation.

Maintenance:

Maintenance will include sweeping and cleanup of sediments and debris, spot corrections when necessary, crack sealing, and eventual resurfacing insure safe drivability and long lifespan. This should be performed once a year at a minimum and shall occur in April or May.

Drainage Ditches:

Inspection:

Inspect drainage ditches annually to look for erosion, obstruction, debris, or damage to erosion armoring, such as rip-rap.

Maintenance:

The drainage ditches shall be re-shaped and re-stabilized if found to be eroding. Accumulated sediment should also be removed from the flow line of the ditch, if it exists.

Storm Drains:

Inspection:

The stormwater collection and conveyance devices will be inspected on an annual basis in April or May of each year. The inspection will include a review of the structural integrity and function of each device, a review of the inlets and outlets storm drains, and a review of the downstream discharge areas of all pipes and channels.

Maintenance:

The inlets and outlets of the culverts and storm drains should be cleaned on a regular basis to ensure that sediment and debris does not discharge downstream or does not clog the pipe.

Grassed Underdrain Soil Filter:

Inspection:

The inspection will include a review of the structural integrity of each device, a review of the inlet and outlet of the pond, and a review of the downstream discharge areas of all pipes and channels. Inspections should include a check for signs of snow storage and prohibited vehicle traffic including ATV's and tractors.

For the first three months after construction, inspect the filter bed monthly to verify the filter bed is draining within 24 - 48 hours. Thereafter, inspect semi-annually in May and October.

Maintenance:

If water ponds on the filter bed surface for more than 72 hours following a rain event, replace the top three inches of filter media. Dispose of clogged filter media soil according to the erosion and sedimentation control plan.

Remove sediments annually in October.

Rain Garden:

Inspection:

The inspection will include a review of the structural integrity of each device, a review of the inlet and outlet of the pond, and a review of the downstream discharge areas of all pipes and channels. Inspections should include a check for signs of snow storage and prohibited vehicle traffic including ATV's and riding lawnmowers or tractors.

For the first three months after construction, inspect the filter bed monthly to verify the filter bed is draining within 24 - 48 hours. Thereafter, inspect semi-annually in May and October.

Maintenance:

If water ponds on the filter bed surface for more than 72 hours following a rain event, replace the top three inches of filter media. Dispose of clogged filter media soil according to the erosion and sedimentation control plan.

Mulch should be removed and replaced with a 2 to 3 inch layer of fresh mulch annually or as needed.

Fertilization of the filter area should be avoided unless absolutely necessary to establish vegetation. Pruning of excessive growth and weeding to control unwanted or invasive

plants shall be done yearly. Maintaining a healthy vegetative cover will minimize clogging.

Remove sediments annually in October.

Filters with grass surfaces shall be mowed no more than twice per growing season using a push mower or weed whacker to maintain a grass height of no less than 6 inches.

Roof Dripline Filter:

Inspection:

The inspection will include a visual review of the structural integrity of each device, the outlet, and a review of the downstream discharge areas to ensure they are stable. During inspection ensure no paving or any alterations have been made to the filter and that no gutters have been installed on the roof line.

Maintenance:

Keep the stone reservoir surface clean and free of debris. Surface shall be cleaned at least once annually in October to ensure leaf litter is removed. If water begins to pond on the reservoir course, replace layer of stone and the top three inches of the filter layer if clogged.

RE-CERTIFICATION

Within three months of the 5-year anniversary of the permit date of issuance, and every 5-year anniversary, thereafter, submit a certification to the City of Auburn that contains:

- A statement that the site has been inspected for erosion problems and such problem areas have been appropriately repaired and permanently stabilized.
- A statement that all aspects of the stormwater management system have been inspected for damage, wear, and malfunction, and appropriate steps have been taken to repair or replace the system.
- A statement that the erosion control plan and the stormwater management plan are being implemented as written, approved, and amended (if applicable) by City of Auburn.

INSPECTION AND MAINTENANCE LOG
Taylor Brook House
Post Construction Stormwater
Inspection & Maintenance Log

Date of Inspection: _____
Inspected by: _____

Purpose of Inspection: Monthly, Yearly, Significant Rainfall (circle one)

Drives & Parking

Description of Conditions:
_____
_____
_____
_____

Maintenance & Date of Repairs:
_____
_____
_____
_____

Follow Up Needed:
_____
_____
_____
_____

Drainage Ditches

Description of Conditions:

Maintenance & Date of Repairs:

Follow Up Needed/Additional Comments:

Culverts

Description of Conditions:

Maintenance & Date of Repairs:

Sediment Inspection & Removal:

Date & Contractor for Sump Cleaning:

Follow Up Needed/Additional Comments:

Roof Dripline Filter

Description of Conditions:

Maintenance & Date of Repairs:

Sediment Inspection & Removal:

Date & Contractor Cleaning:

Follow Up Needed/Additional Comments:

Grassed Underdrain Soil Filter

Description of Conditions:

Maintenance & Date of Repairs:

Sediment Inspection & Removal:

Date & Contractor for Sump Cleaning:

Follow Up Needed/Additional Comments:

Bioretention Filter

Description of Conditions:

Maintenance & Date of Repairs:

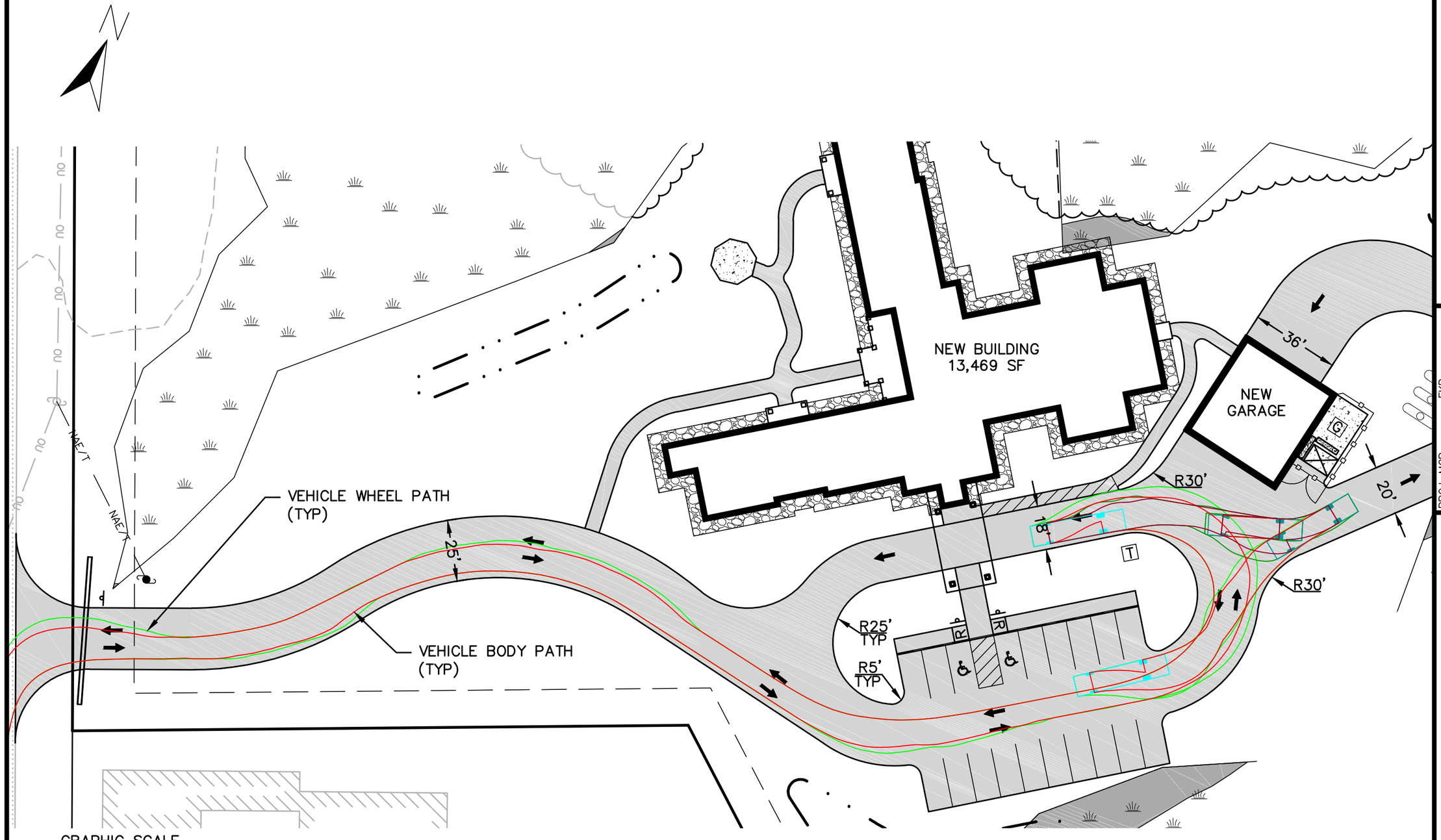
Sediment Inspection & Removal:

Date & Contractor for Sump Cleaning:

Follow Up Needed/Additional Comments:

Section 12: Vehicle Access & Movement

As described in the Cover Letter, vehicles will access the site via a 25 foot wide, two-way paved entrance off of Hotel Road. The building has a canopy area for resident pick-up and drop-off at the buildings main entrance. The driveway, garage and pick-up/drop-off area were designed to allow the facility bus, van or personal vehicles to easily drive through and around the site without backing up. Other large service vehicles, such as a garbage truck or fuel truck are intended to drive through the parking area, pull in front of the garage, back up to their service area and then drive out through the parking area. The canopy does have a clearance of 12 feet, so in an emergency, vehicles such as an ambulance could access the main entrance. A sketch showing proposed drive path for the pull-up, back around movement is found in this section.



NOTES

1. VEHICLE PATH SHOWN MODELED WITH E-ONE COMBINATION UNIT

MAIN-LAND
DEVELOPMENT
CONSULTANTS, INC.
69 MAIN ST. LIVERMORE FALLS, MAINE
367 US ROUTE 1 FALMOUTH, MAINE
PH: (207) 897-6752 FAX: (207) 897-5404
WWW.MAIN-LANDDCI.COM

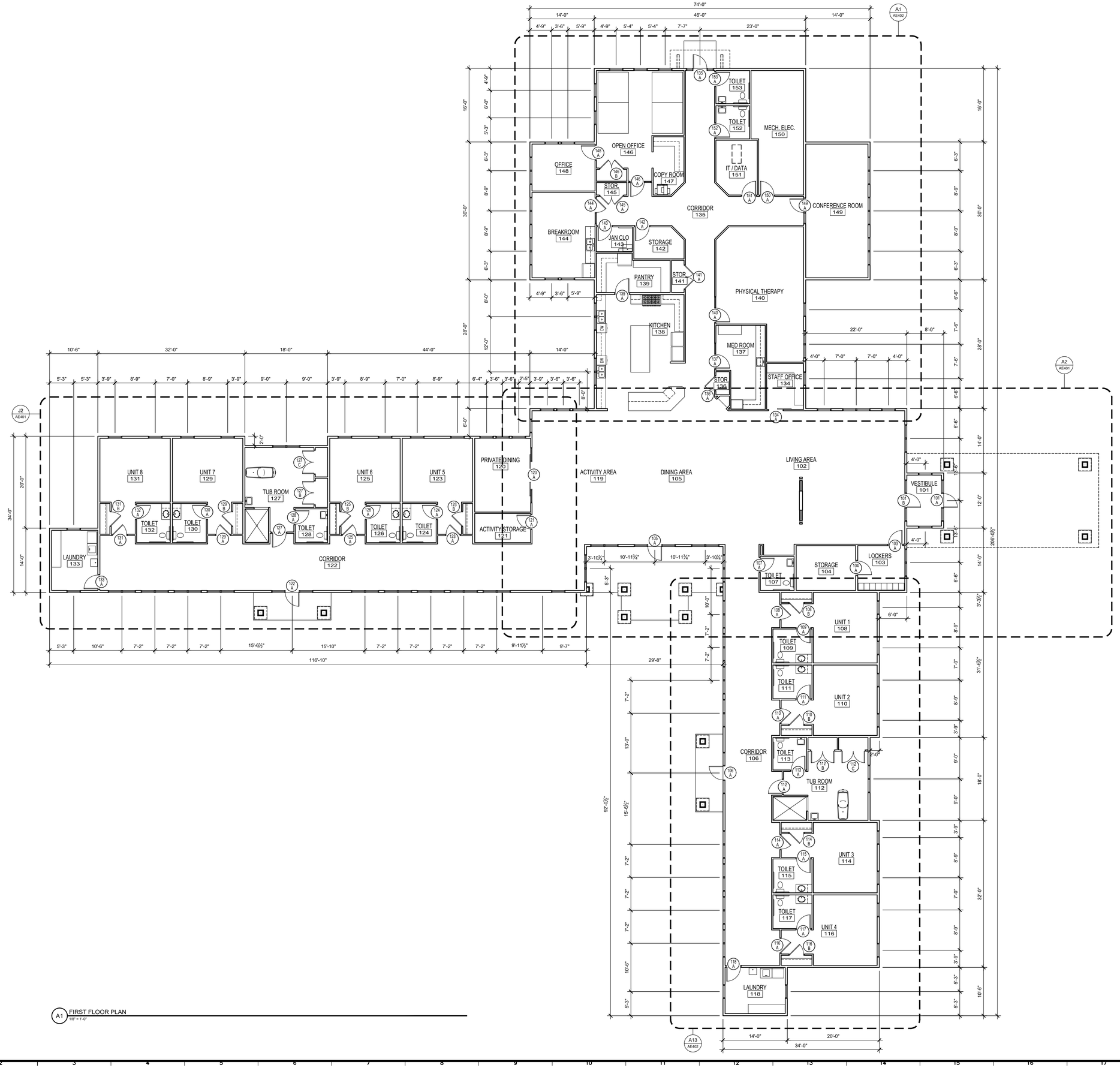
PROJ. MGR: EKB
DRAWN BY: TLB
CHECKED BY: EKB
SUBMISSION NO. 1
SURVEY DATE: 2022-11-10
SUBMISSION DATE: 2023-03-03
SUBMITTED FOR: PERMIT APPS

NOT FOR CONSTRUCTION

PROJECT
TAYLOR BROOK HOUSE
HOTEL ROAD, AUBURN, MAINE 04210

MADE FOR
JOHN F. MURPHY HOMES, INC.
80 CENTER STREET, AUBURN, MAINE 04210

DRAWING NO.
C2.3



A1 FIRST FLOOR PLAN
1/8" = 1'-0"

NO.	DATE	DESCRIPTION
0	00.00.00	-----

PROGRESS PRINT
01.09.23

TAC Architectural Group Inc.
40 Summer St., Suite 4 Bangor, ME 04401

PLAN NORTH

NOT FOR CONSTRUCTION
LICENSED ARCHITECT
STATE OF MAINE

JFM HOMES TAYLOR BROOK HOUSE

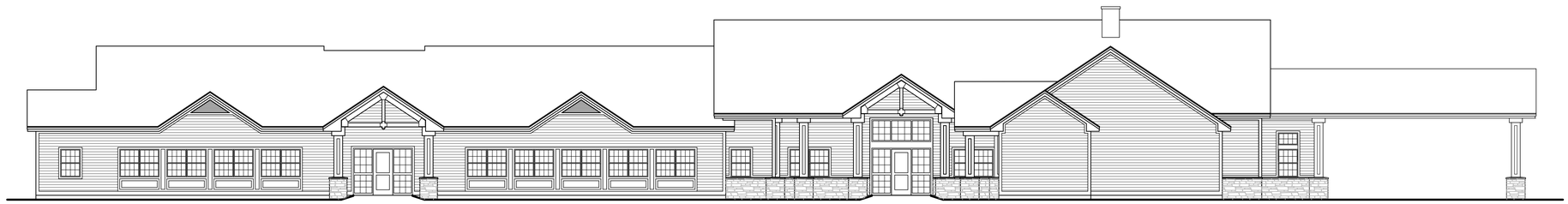
AUBURN, MAINE

PROJECT NO:	22-051
CAD DWG FILE:	AE101 FIRST FLOOR PLAN.DWG
DRAWN BY:	HH
CHK'D BY:	HH
COPYRIGHT:	2023

SHEET TITLE

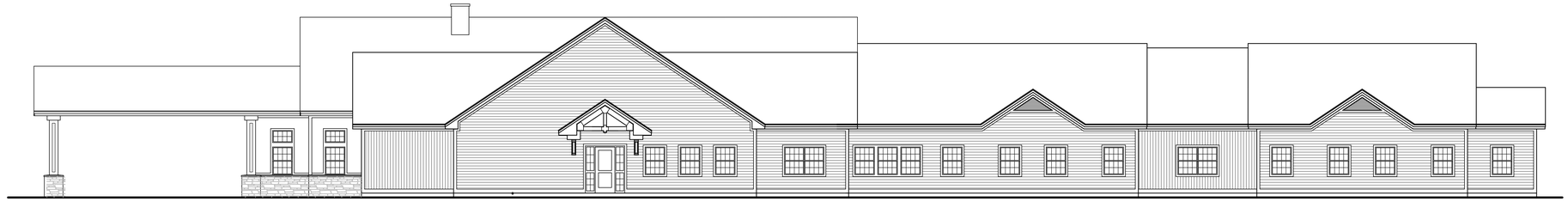
FIRST FLOOR PLAN

AE101



? EXTERIOR ELEVATION - LEFT
1/8" = 1'-0"

? EXTERIOR ELEVATION - LEFT
1/8" = 1'-0"



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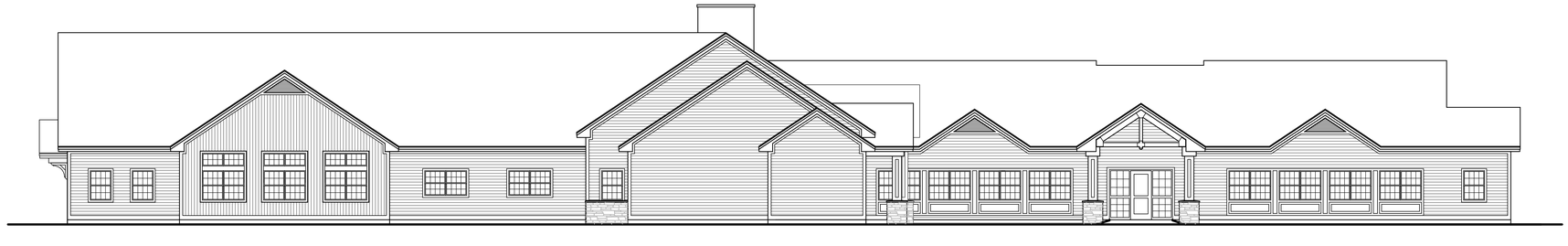
1/8" = 1'-0"



? EXTERIOR ELEVATION - LEFT
1/8" = 1'-0"

NO.	DATE	DESCRIPTION
0	00.00.00	----------

PROGRESS PRINT
01.09.23

TAC Architectural Group Inc.
40 Summer St., Suite 4 Bangor, ME 04401

NOT FOR CONSTRUCTION
LICENSED ARCHITECT
Daniel C. Mahan
STATE OF MAINE

JFM HOMES TAYLOR BROOK HOUSE

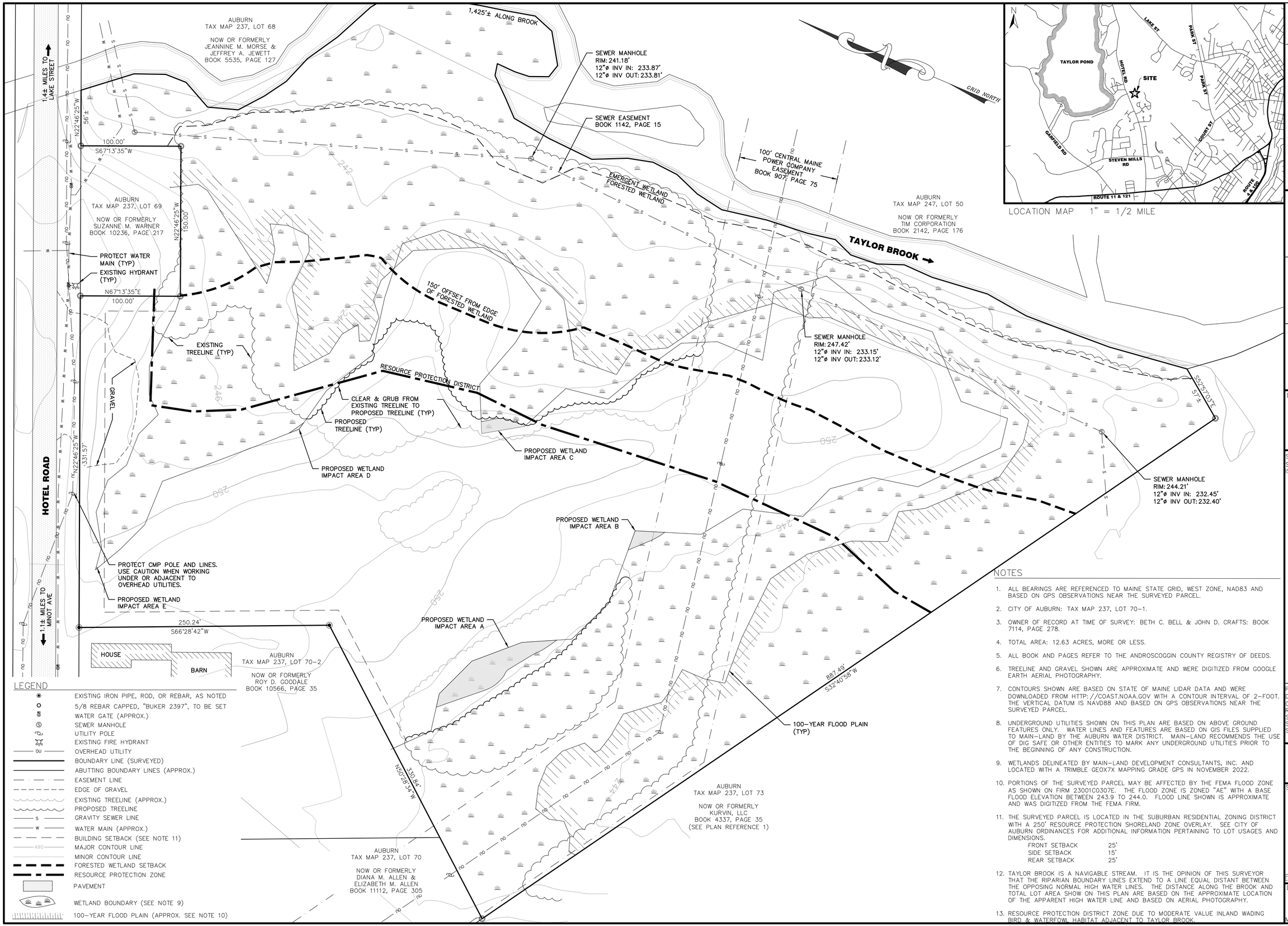
AUBURN, MAINE

PROJECT NO:	22-051
CAD DWG FILE:	AE201 EXTERIOR ELEVATIONS.DWG
DRAWN BY:	EED
CHK'D BY:	DCM
COPYRIGHT:	2023

SHEET TITLE

EXTERIOR ELEVATIONS

AE201



LOCATION MAP 1" = 1/2 MILE

LEGEND

- EXISTING IRON PIPE, ROD, OR REBAR, AS NOTED
- 5/8 REBAR CAPPED, "BUKER 2397", TO BE SET
- WATER GATE (APPROX.)
- SEWER MANHOLE
- UTILITY POLE
- EXISTING FIRE HYDRANT
- OU — OVERHEAD UTILITY
- BOUNDARY LINE (SURVEYED)
- ABUTTING BOUNDARY LINES (APPROX.)
- EASEMENT LINE
- EDGE OF GRAVEL
- EXISTING TREELINE (APPROX.)
- PROPOSED TREELINE
- S — GRAVITY SEWER LINE
- W — WATER MAIN (APPROX.)
- BUILDING SETBACK (SEE NOTE 11)
- 490 — MAJOR CONTOUR LINE
- MINOR CONTOUR LINE
- FORESTED WETLAND SETBACK
- RESOURCE PROTECTION ZONE
- PAVEMENT
- WETLAND BOUNDARY (SEE NOTE 9)
- 100-YEAR FLOOD PLAIN (APPROX. SEE NOTE 10)

NOTES

1. ALL BEARINGS ARE REFERENCED TO MAINE STATE GRID, WEST ZONE, NAD83 AND BASED ON GPS OBSERVATIONS NEAR THE SURVEYED PARCEL.
2. CITY OF AUBURN: TAX MAP 237, LOT 70-1.
3. OWNER OF RECORD AT TIME OF SURVEY: BETH C. BELL & JOHN D. CRAFTS: BOOK 7114, PAGE 278.
4. TOTAL AREA: 12.63 ACRES, MORE OR LESS.
5. ALL BOOK AND PAGES REFER TO THE ANDROSCOGGIN COUNTY REGISTRY OF DEEDS.
6. TREELINE AND GRAVEL SHOWN ARE APPROXIMATE AND WERE DIGITIZED FROM GOOGLE EARTH AERIAL PHOTOGRAPHY.
7. CONTOURS SHOWN ARE BASED ON STATE OF MAINE LIDAR DATA AND WERE DOWNLOADED FROM HTTP://COAST.NOAA.GOV WITH A CONTOUR INTERVAL OF 2-FOOT. THE VERTICAL DATUM IS NAVD88 AND BASED ON GPS OBSERVATIONS NEAR THE SURVEYED PARCEL.
8. UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED ON ABOVE GROUND FEATURES ONLY. WATER LINES AND FEATURES ARE BASED ON GIS FILES SUPPLIED TO MAIN-LAND BY THE AUBURN WATER DISTRICT. MAIN-LAND RECOMMENDS THE USE OF DIG SAFE OR OTHER ENTITIES TO MARK ANY UNDERGROUND UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION.
9. WETLANDS DELINEATED BY MAIN-LAND DEVELOPMENT CONSULTANTS, INC. AND LOCATED WITH A TRIMBLE GEOX7X MAPPING GRADE GPS IN NOVEMBER 2022.
10. PORTIONS OF THE SURVEYED PARCEL MAY BE AFFECTED BY THE FEMA FLOOD ZONE AS SHOWN ON FIRM 23001C0307E. THE FLOOD ZONE IS ZONED "AE" WITH A BASE FLOOD ELEVATION BETWEEN 243.9 TO 244.0. FLOOD LINE SHOWN IS APPROXIMATE AND WAS DIGITIZED FROM THE FEMA FIRM.
11. THE SURVEYED PARCEL IS LOCATED IN THE SUBURBAN RESIDENTIAL ZONING DISTRICT WITH A 250' RESOURCE PROTECTION SHORELAND ZONE OVERLAY. SEE CITY OF AUBURN ORDINANCES FOR ADDITIONAL INFORMATION PERTAINING TO LOT USAGES AND DIMENSIONS.

FRONT SETBACK	25'
SIDE SETBACK	15'
REAR SETBACK	25'

12. TAYLOR BROOK IS A NAVIGABLE STREAM. IT IS THE OPINION OF THIS SURVEYOR THAT THE RIPARIAN BOUNDARY LINES EXTEND TO A LINE EQUAL DISTANT BETWEEN THE OPPOSING NORMAL HIGH WATER LINES. THE DISTANCE ALONG THE BROOK AND TOTAL LOT AREA SHOW ON THIS PLAN ARE BASED ON THE APPROXIMATE LOCATION OF THE APPARENT HIGH WATER LINE AND BASED ON AERIAL PHOTOGRAPHY.
13. RESOURCE PROTECTION DISTRICT ZONE DUE TO MODERATE VALUE INLAND WADING BIRD & WATERFOWL HABITAT ADJACENT TO TAYLOR BROOK.

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PROJECT

TAYLOR BROOK HOUSE

HOTEL ROAD
AUBURN, MAINE

OWNER OF RECORD

BETH C. BELL & JOHN D. CRAFTS

2 PASSING LANE,
LISBON FALLS, MAINE 04252

MADE FOR

JOHN F. MURPHY HOMES

800 CENTER STREET,
AUBURN, MAINE 04210

DRAWING SCALE:

40 0 20 40
(IN FEET)
1 INCH = 40 FT

SUBMISSION NOTES:
SUBMISSION 1: 2023-03-03 EKB
ISSUED FOR PERMIT APPS.

PROJ. MGR:	EKB
DRAWN BY:	TLB/EKB
CHECKED BY:	RLB/EKB
REVISION NO.	1
SURVEY DATE:	2022-11-10
SUBMISSION DATE:	2023-03-03
SUBMITTED FOR:	PERMIT APPS

NOT FOR CONSTRUCTION

EXISTING CONDITIONS & DEMO PLAN

SEAL:

STATE OF MAINE
ESTHER K. BIZIER
No. 14236
LICENSED PROFESSIONAL ENGINEER

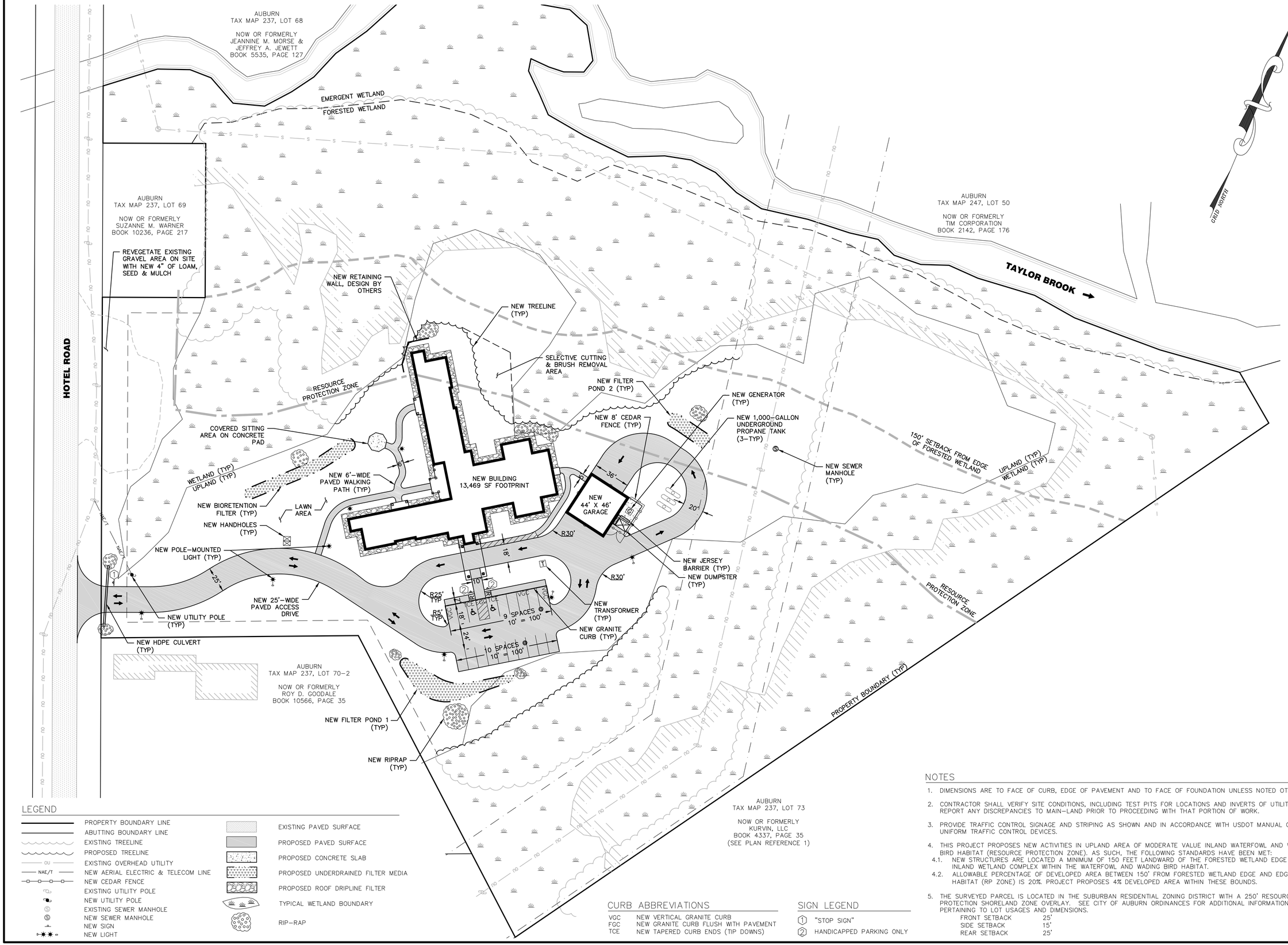
2023-03-03

ESTHER K. BIZIER ME PE#14236

DRAWING NO.

C1.1

MLDC NO. 22-330 1 OF 12



LEGEND

- PROPERTY BOUNDARY LINE
- ABUTTING BOUNDARY LINE
- EXISTING TREELINE
- PROPOSED TREELINE
- EXISTING OVERHEAD UTILITY
- NAE/T — NEW AERIAL ELECTRIC & TELECOM LINE
- NEW CEDAR FENCE
- EXISTING UTILITY POLE
- NEW UTILITY POLE
- EXISTING SEWER MANHOLE
- NEW SEWER MANHOLE
- NEW SIGN
- NEW LIGHT
- EXISTING PAVED SURFACE
- PROPOSED PAVED SURFACE
- PROPOSED CONCRETE SLAB
- PROPOSED UNDERDRAINED FILTER MEDIA
- PROPOSED ROOF DRIPLINE FILTER
- TYPICAL WETLAND BOUNDARY
- RIP-RAP

CURB ABBREVIATIONS

VGC	NEW VERTICAL GRANITE CURB
FGC	NEW GRANITE CURB FLUSH WITH PAVEMENT
TCE	NEW TAPERED CURB ENDS (TIP DOWNS)

SIGN LEGEND

1. "STOP SIGN"
2. HANDICAPPED PARKING ONLY

NOTES

1. DIMENSIONS ARE TO FACE OF CURB, EDGE OF PAVEMENT AND TO FACE OF FOUNDATION UNLESS NOTED OTHERWISE.
2. CONTRACTOR SHALL VERIFY SITE CONDITIONS, INCLUDING TEST PITS FOR LOCATIONS AND INVERTS OF UTILITIES AND REPORT ANY DISCREPANCIES TO MAIN-LAND PRIOR TO PROCEEDING WITH THAT PORTION OF WORK.
3. PROVIDE TRAFFIC CONTROL SIGNAGE AND STRIPING AS SHOWN AND IN ACCORDANCE WITH USDOT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
4. THIS PROJECT PROPOSES NEW ACTIVITIES IN UPLAND AREA OF MODERATE VALUE INLAND WATERFOWL AND WADING BIRD HABITAT (RESOURCE PROTECTION ZONE). AS SUCH, THE FOLLOWING STANDARDS HAVE BEEN MET:
   - 4.1. NEW STRUCTURES ARE LOCATED A MINIMUM OF 150 FEET LANDWARD OF THE FORESTED WETLAND EDGE OF THE INLAND WETLAND COMPLEX WITHIN THE WATERFOWL AND WADING BIRD HABITAT.
   - 4.2. ALLOWABLE PERCENTAGE OF DEVELOPED AREA BETWEEN 150' FROM FORESTED WETLAND EDGE AND EDGE OF HABITAT (RP ZONE) IS 20%. PROJECT PROPOSES 4% DEVELOPED AREA WITHIN THESE BOUNDS.
5. THE SURVEYED PARCEL IS LOCATED IN THE SUBURBAN RESIDENTIAL ZONING DISTRICT WITH A 250' RESOURCE PROTECTION SHORELAND ZONE OVERLAY. SEE CITY OF AUBURN ORDINANCES FOR ADDITIONAL INFORMATION PERTAINING TO LOT USAGES AND DIMENSIONS.

FRONT SETBACK	25'
SIDE SETBACK	15'
REAR SETBACK	25'

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PROJECT

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AUBURN, MAINE 04210

OWNER OF RECORD

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MADE FOR

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80 CENTER STREET
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SUBMISSION 2: 2023-01-20 TLB FOR REVIEW. UPDATED BUILDING FOOTPRINT AND PARKING LAYOUT.

SUBMISSION 3: 2023-02-07 TLB FOR REVIEW.

SUBMISSION 4: 2023-02-16 TLB FOR REVIEW.

SUBMISSION 5: 2023-02-21 TLB FOR REVIEW.

SUBMISSION 6: 2023-03-03 TLB ISSUED FOR PERMIT APPS.

PROJ. MGR:	EKB
DRAWN BY:	TLB
CHECKED BY:	EKB
SUBMISSION NO.	6
SURVEY DATE:	2022-11-10
SUBMISSION DATE:	2023-03-03
SUBMITTED FOR:	PERMIT APPS

NOT FOR CONSTRUCTION

SITE LAYOUT PLAN

SEAL:

STATE OF MAINE
ESTHER K. BIZIER
No. 14236
LICENSED PROFESSIONAL ENGINEER

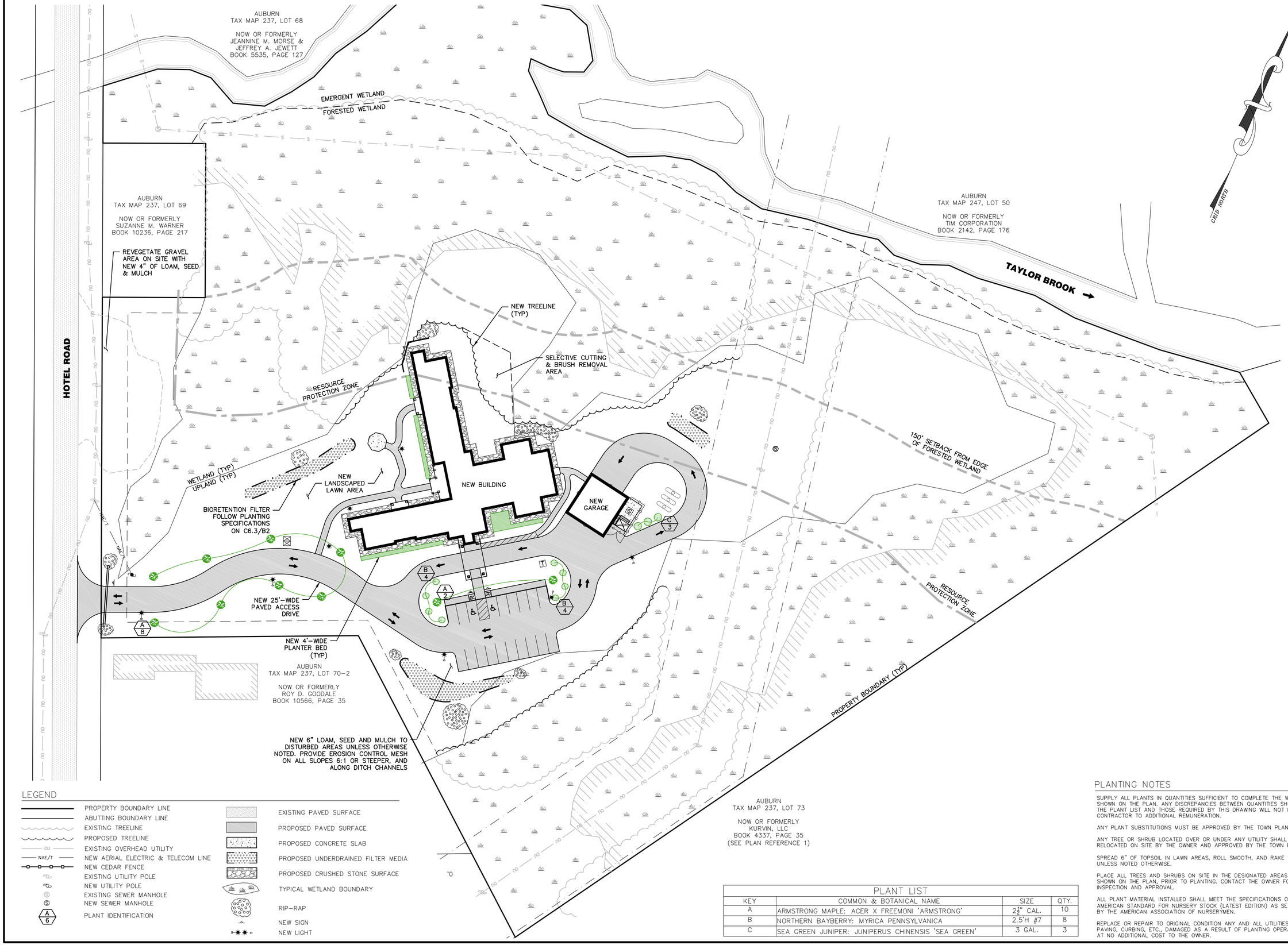
2023-03-03

ESTHER K. BIZIER ME PE#14236

DRAWING NO.

C2.1

MLDC NO. 22-330 2 OF 12



LEGEND

- PROPERTY BOUNDARY LINE
- ABUTTING BOUNDARY LINE
- EXISTING TREELINE
- PROPOSED TREELINE
- EXISTING OVERHEAD UTILITY
- NEW AERIAL ELECTRIC & TELECOM LINE
- NEW CEDAR FENCE
- EXISTING UTILITY POLE
- NEW UTILITY POLE
- EXISTING SEWER MANHOLE
- NEW SEWER MANHOLE
- PLANT IDENTIFICATION
- EXISTING PAVED SURFACE
- PROPOSED PAVED SURFACE
- PROPOSED CONCRETE SLAB
- PROPOSED UNDERDRAINED FILTER MEDIA
- PROPOSED CRUSHED STONE SURFACE
- TYPICAL WETLAND BOUNDARY
- RIP-RAP
- NEW SIGN
- NEW LIGHT

PLANT LIST

KEY	COMMON & BOTANICAL NAME	SIZE	QTY.
A	ARMSTRONG MAPLE: ACER X FREEMONI 'ARMSTRONG'	2½" CAL.	10
B	NORTHERN BAYBERRY: MYRICA PENNSYLVANICA	2.5'H #7	8
C	SEA GREEN JUNIPER: JUNIPERUS CHINENSIS 'SEA GREEN'	3 GAL.	3

PLANTING NOTES

SUPPLY ALL PLANTS IN QUANTITIES SUFFICIENT TO COMPLETE THE WORK SHOWN ON THE PLAN. ANY DISCREPANCIES BETWEEN QUANTITIES SHOWN ON THE PLANT LIST AND THOSE REQUIRED BY THIS DRAWING WILL NOT ENTITLE CONTRACTOR TO ADDITIONAL REMUNERATION.

ANY PLANT SUBSTITUTIONS MUST BE APPROVED BY THE TOWN PLANNER.

ANY TREE OR SHRUB LOCATED OVER OR UNDER ANY UTILITY SHALL BE BE RELOCATED ON SITE BY THE OWNER AND APPROVED BY THE TOWN PLANNER.

SPREAD 6" OF TOPSOIL IN LAWN AREAS, ROLL SMOOTH, AND RAKE SCARIFY UNLESS NOTED OTHERWISE.

PLACE ALL TREES AND SHRUBS ON SITE IN THE DESIGNATED AREAS AS SHOWN ON THE PLAN, PRIOR TO PLANTING. CONTACT THE OWNER FOR INSPECTION AND APPROVAL.

ALL PLANT MATERIAL INSTALLED SHALL MEET THE SPECIFICATIONS OF THE AMERICAN STANDARD FOR NURSERY STOCK (LATEST EDITION) AS SET FORTH BY THE AMERICAN ASSOCIATION OF NURSERYMEN.

REPLACE OR REPAIR TO ORIGINAL CONDITION ANY AND ALL UTILITIES, PAVING, CURBING, ETC., DAMAGED AS A RESULT OF PLANTING OPERATIONS AT NO ADDITIONAL COST TO THE OWNER.

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PROJECT

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LANDSCAPING PLAN

SEAL:

STATE OF MAINE
ESTHER K. BIZIER
No. 14236
LICENSED PROFESSIONAL ENGINEER

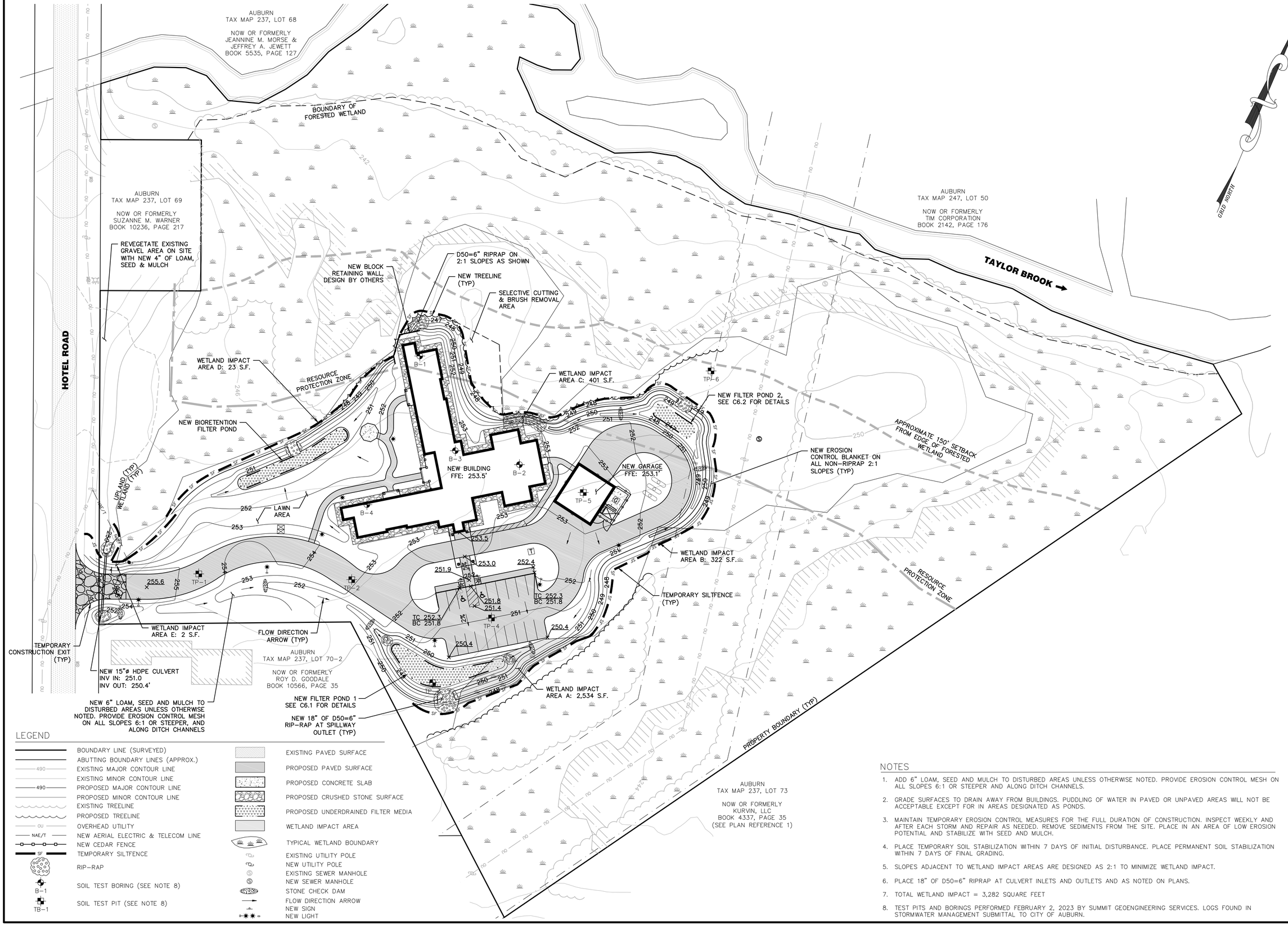
2023-03-03

ESTHER K. BIZIER ME PE#14236

DRAWING NO.

C2.2

MLDC NO. 22-330 3 OF 12



LEGEND

- BOUNDARY LINE (SURVEYED)
- ABUTTING BOUNDARY LINES (APPROX.)
- 490 EXISTING MAJOR CONTOUR LINE
- EXISTING MINOR CONTOUR LINE
- 490 PROPOSED MAJOR CONTOUR LINE
- PROPOSED MINOR CONTOUR LINE
- EXISTING TREELINE
- PROPOSED TREELINE
- OU OVERHEAD UTILITY
- NAE/T NEW AERIAL ELECTRIC & TELECOM LINE
- NEW CEDAR FENCE
- SF TEMPORARY SILTFENCE
- RIP-RAP
- B-1 SOIL TEST BORING (SEE NOTE 8)
- TB-1 SOIL TEST PIT (SEE NOTE 8)
- EXISTING PAVED SURFACE
- PROPOSED PAVED SURFACE
- PROPOSED CONCRETE SLAB
- PROPOSED CRUSHED STONE SURFACE
- PROPOSED UNDERDRAINED FILTER MEDIA
- WETLAND IMPACT AREA
- TYPICAL WETLAND BOUNDARY
- EXISTING UTILITY POLE
- NEW UTILITY POLE
- EXISTING SEWER MANHOLE
- NEW SEWER MANHOLE
- STONE CHECK DAM
- FLOW DIRECTION ARROW
- NEW SIGN
- NEW LIGHT

NOTES

1. ADD 6" LOAM, SEED AND MULCH TO DISTURBED AREAS UNLESS OTHERWISE NOTED. PROVIDE EROSION CONTROL MESH ON ALL SLOPES 6:1 OR STEEPER AND ALONG DITCH CHANNELS.
2. GRADE SURFACES TO DRAIN AWAY FROM BUILDINGS. PUDDLING OF WATER IN PAVED OR UNPAVED AREAS WILL NOT BE ACCEPTABLE EXCEPT FOR IN AREAS DESIGNATED AS PONDS.
3. MAINTAIN TEMPORARY EROSION CONTROL MEASURES FOR THE FULL DURATION OF CONSTRUCTION. INSPECT WEEKLY AND AFTER EACH STORM AND REPAIR AS NEEDED. REMOVE SEDIMENTS FROM THE SITE. PLACE IN AN AREA OF LOW EROSION POTENTIAL AND STABILIZE WITH SEED AND MULCH.
4. PLACE TEMPORARY SOIL STABILIZATION WITHIN 7 DAYS OF INITIAL DISTURBANCE. PLACE PERMANENT SOIL STABILIZATION WITHIN 7 DAYS OF FINAL GRADING.
5. SLOPES ADJACENT TO WETLAND IMPACT AREAS ARE DESIGNED AS 2:1 TO MINIMIZE WETLAND IMPACT.
6. PLACE 18" OF D50=6" RIPRAP AT CULVERT INLETS AND OUTLETS AND AS NOTED ON PLANS.
7. TOTAL WETLAND IMPACT = 3,282 SQUARE FEET
8. TEST PITS AND BORINGS PERFORMED FEBRUARY 2, 2023 BY SUMMIT GEOENGINEERING SERVICES. LOGS FOUND IN STORMWATER MANAGEMENT SUBMITTAL TO CITY OF AUBURN.

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SUBMISSION 4: 2023-02-07 TLB FOR REVIEW.

SUBMISSION 5: 2023-02-16 TLB FOR REVIEW.

SUBMISSION 6: 2023-03-03 TLB ISSUED FOR PERMIT APPS.

PROJ. MGR:	EKB
DRAWN BY:	TLB
CHECKED BY:	EKB
SUBMISSION NO.	6
SURVEY DATE:	2022-11-10
SUBMISSION DATE:	2023-03-03
SUBMITTED FOR:	PERMIT APPS

NOT FOR CONSTRUCTION

GRADING & EROSION CONTROL PLAN

SEAL:

STATE OF MAINE
ESTHER K. BIZIER
No. 14236
LICENSED PROFESSIONAL ENGINEER

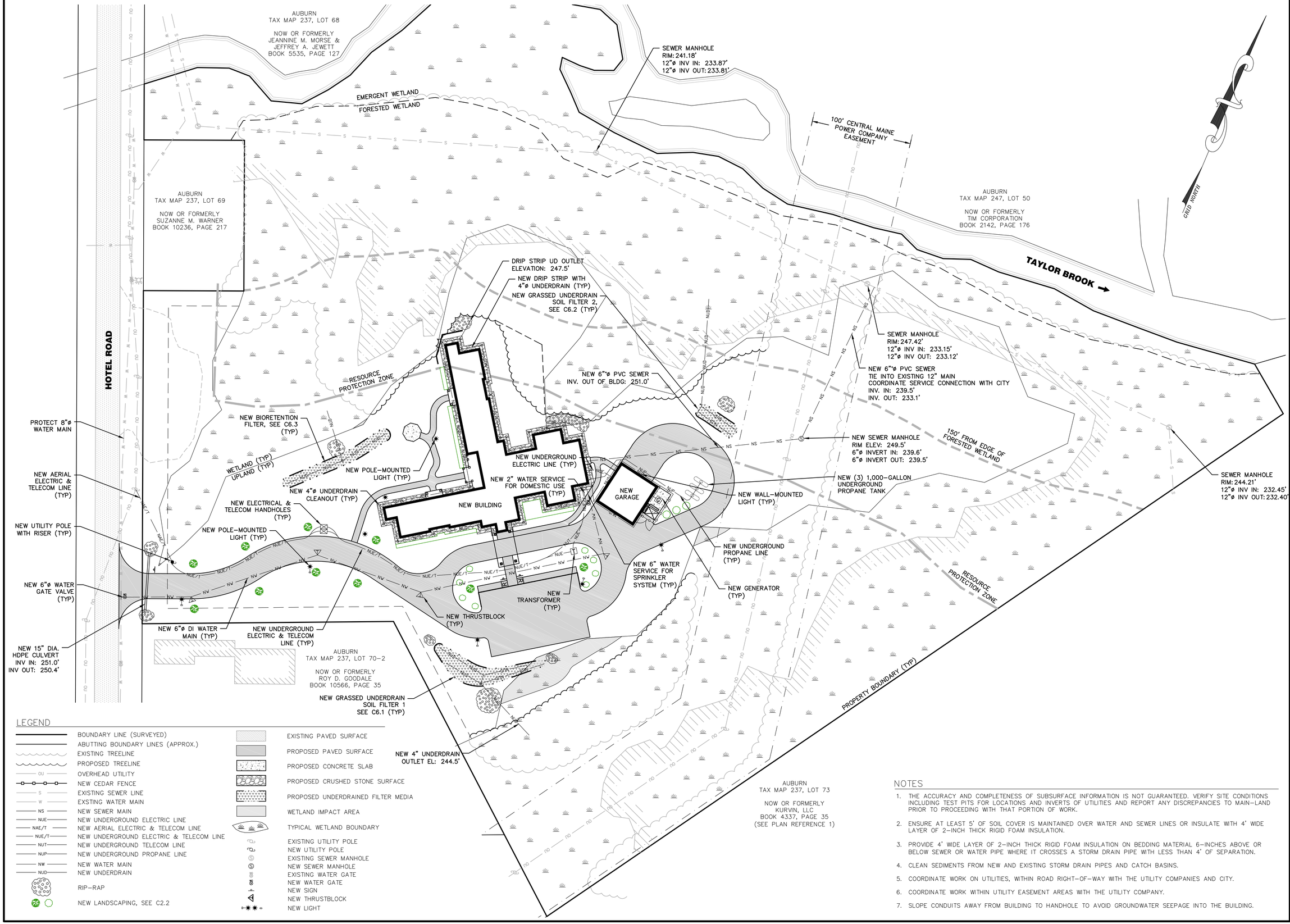
2023-03-03

ESTHER K. BIZIER ME PE#14236

DRAWING NO.

C3.1

MLDC NO. 22-330 4 OF 12



LEGEND

- BOUNDARY LINE (SURVEYED)
- ABUTTING BOUNDARY LINES (APPROX.)
- EXISTING TREELINE
- PROPOSED TREELINE
- OU — OVERHEAD UTILITY
- NEW CEDAR FENCE
- S — EXISTING SEWER LINE
- W — EXSTING WATER MAIN
- NS — NEW SEWER MAIN
- NUE — NEW UNDERGROUND ELECTRIC LINE
- NAE/T — NEW AERIAL ELECTRIC & TELECOM LINE
- NUE/T — NEW UNDERGROUND ELECTRIC & TELECOM LINE
- NUT — NEW UNDERGROUND TELECOM LINE
- NUP — NEW UNDERGROUND PROPANE LINE
- NW — NEW WATER MAIN
- NUD — NEW UNDERDRAIN
- RIP-RAP
- NEW LANDSCAPING, SEE C2.2
- EXISTING PAVED SURFACE
- PROPOSED PAVED SURFACE
- PROPOSED CONCRETE SLAB
- PROPOSED CRUSHED STONE SURFACE
- PROPOSED UNDERDRAINED FILTER MEDIA
- WETLAND IMPACT AREA
- TYPICAL WETLAND BOUNDARY
- EXISTING UTILITY POLE
- NEW UTILITY POLE
- EXISTING SEWER MANHOLE
- NEW SEWER MANHOLE
- EXISTING WATER GATE
- NEW WATER GATE
- NEW SIGN
- NEW THRUSTBLOCK
- NEW LIGHT

NOTES

1. THE ACCURACY AND COMPLETENESS OF SUBSURFACE INFORMATION IS NOT GUARANTEED. VERIFY SITE CONDITIONS INCLUDING TEST PITS FOR LOCATIONS AND INVERTS OF UTILITIES AND REPORT ANY DISCREPANCIES TO MAIN-LAND PRIOR TO PROCEEDING WITH THAT PORTION OF WORK.
2. ENSURE AT LEAST 5' OF SOIL COVER IS MAINTAINED OVER WATER AND SEWER LINES OR INSULATE WITH 4' WIDE LAYER OF 2-INCH THICK RIGID FOAM INSULATION.
3. PROVIDE 4' WIDE LAYER OF 2-INCH THICK RIGID FOAM INSULATION ON BEDDING MATERIAL 6-INCHES ABOVE OR BELOW SEWER OR WATER PIPE WHERE IT CROSSES A STORM DRAIN PIPE WITH LESS THAN 4' OF SEPARATION.
4. CLEAN SEDIMENTS FROM NEW AND EXISTING STORM DRAIN PIPES AND CATCH BASINS.
5. COORDINATE WORK ON UTILITIES, WITHIN ROAD RIGHT-OF-WAY WITH THE UTILITY COMPANIES AND CITY.
6. COORDINATE WORK WITHIN UTILITY EASEMENT AREAS WITH THE UTILITY COMPANY.
7. SLOPE CONDUITS AWAY FROM BUILDING TO HANDHOLE TO AVOID GROUNDWATER SEEPAGE INTO THE BUILDING.

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SITE UTILITY PLAN

SEAL:
STATE OF MAINE
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LICENSED PROFESSIONAL ENGINEER
2023-03-03
ESTHER K. BIZIER ME PE#14236

DRAWING NO.
C4.1
MLDC NO. 22-330 5 OF 12

TABLE 1
SOIL FILTER MEDIA

Filter Media	Mixture by Volume	Specifications
Sandy loam/fine sandy loam & Course Loamy Sand	70%–80%	Required to meet the Sieve Analysis specified in Table 2, below.
Mulch	20%–25%	Moderately fine, shredded bark or wood fiber mulch with less than 5% passing the #200 sieve
8% to 12% passing #200 sieve. Clay content less than 2%		

TABLE 2
LOAMY COARSE SAND SIEVE ANALYSIS SPEC.

Sieve Size	% by Weight
#10	85–100
#20	70–100
#60	15–40
#200	8–15

TABLE 3
SANDY LOAM TO FINE SANDY LOAM SPEC.

Sieve Size	% by Weight
#4	75–95
#10	60–90
#40	35–85
#200	20–70
200 (CLAY SIZE)	<2.0

TABLE 4
MEDOT Specifications for UNDERDRAINS

Sieve Size	% by Weight
Underdrain Type B	
1"	95–100
1/2"	75–100
#4	50–100
#20	15–80
#50	0–15
#200	0–5

FILTER BED NOTES

CONSTRUCTION SEQUENCE: THE SOIL FILTER MEDIA AND VEGETATION MUST NOT BE INSTALLED UNTIL THE AREA THAT DRAINS TO THE FILTER HAS BEEN PERMANENTLY STABILIZED WITH PAVEMENT OR OTHER STRUCTURE, 90% VEGETATION COVER, OR OTHER PERMANENT STABILIZATION UNLESS THE RUNOFF FROM THE CONTRIBUTING DRAINAGE AREA IS DIVERTED AROUND THE FILTER UNTIL STABILIZATION IS COMPLETED.

COMPACTION OF SOIL FILTER: THE BED SHOULD BE INSTALLED BY FLOODING THE MEDIA WITH WATER AND PLACING MATERIAL IN 6–9" LIFTS.

CONSTRUCTION OVERSIGHT: INSPECTION BY A PROFESSIONAL ENGINEER WILL OCCUR AT A MINIMUM:

- AFTER THE PRELIMINARY CONSTRUCTION OF THE FILTER GRADES AND ONCE THE UNDERDRAIN PIPES ARE INSTALLED BUT NOT BACKFILLED.
- AFTER THE DRAINAGE LAYER IS CONSTRUCTED AND PRIOR TO THE INSTALLATION OF THE FILTER MEDIA,
- AFTER THE FILTER MEDIA HAS BEEN INSTALLED AND SEEDED. BIO–RETENTION CELLS MUST BE STABILIZED PER THE PROVIDED PLANTING SCHEME AND DENSITY FOR THE CANOPY COVERAGE OF 30 AND 50%.
- AFTER ONE YEAR INSPECT HEALTH OF THE VEGETATION AND MAKE CORRECTIONS, AND
- ALL THE MATERIAL USED FOR THE CONSTRUCTION OF THE FILTER BASIN MUST BE CONFIRMED AS SUITABLE BY THE DESIGN ENGINEER. TESTING MUST BE DONE BY A CERTIFIED LABORATORY TO SHOW THAT THEY ARE PASSING DEP SPECIFICATIONS.

TESTING AND SUBMITTALS: THE CONTRACTOR SHALL IDENTIFY THE LOCATION OF THE SOURCE OF EACH COMPONENT OF THE FILTER MEDIA. ALL RESULTS OF FIELD AND LABORATORY TESTING SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR CONFIRMATION. THE CONTRACTOR SHALL:

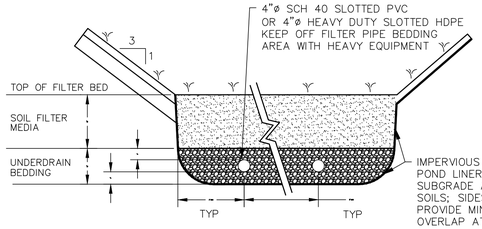
- SELECT SAMPLES FOR SAMPLING OF EACH TYPE OF MATERIAL TO BE BLENDED FOR THE MIXED FILTER MEDIA AND SAMPLES OF THE UNDERDRAIN BEDDING MATERIAL. SAMPLES MUST BE A COMPOSITE OF THREE DIFFERENT LOCATIONS (GRABS) FROM THE STOCKPILE OR PIT FACE. SAMPLE SIZE REQUIRED WILL BE DETERMINED BY THE TESTING LABORATORY.
- PERFORM A SIEVE ANALYSIS CONFORMING TO STM C136 (STANDARD TEST METHOD FOR SIEVE ANALYSIS OF FINE AND COURSE AGGREGATES 1996A) ON EACH TYPE OF THE SAMPLE MATERIAL. THE RESULTING SOIL FILTER MEDIA MIXTURE MUST HAVE 8% TO 12% BY WEIGHT PASSING THE #200 SIEVE, A CLAY CONTENT OF LESS THAN 2% (DETERMINED HYDROMETER GRAIN SIZE ANALYSIS) AND HAVE 10% DRY WEIGHT OF ORGANIC MATTER.
- PERFORM A PERMEABILITY TEST ON THE SOIL FILTER MEDIA MIXTURE CONFORMING TO ASTM D2434 WITH THE MIXTURE COMPACTED TO 90–92% OF MAXIMUM DRY DENSITY BASED ON ASTM D698.

GENERAL NOTES

1. AVOID COMPACTING UNDERDRAIN BEDDING AND SOIL FILTER MEDIA DURING CONSTRUCTION. OVER–COMPACTED SOILS WILL NOT ALLOW PROPER WATER MIGRATION THROUGH THE SOIL SECTION; FILTER BEDS ARE INTENDED TO DRAIN DRY WITHIN 24 TO 48 HOURS.
2. SEED FILTER AREA WITH CONSERVATION TYPE SEED MIXTURE (A 48 LBS/ACRE MIXTURE CONTAINING 20 LBS/ACRE OF CREEPING RED FESCUE AND TALL FESCUE EACH PLUS 8 LBS/ACRE OF BIRDSFOOT TREFOIL)
3. DO NOT INSTALL AND STABILIZE THE SOIL FILTER MEDIA IN THE BASIN UNTIL AFTER CONTRIBUTING AREAS HAVE BEEN PERMANENTLY STABILIZED.

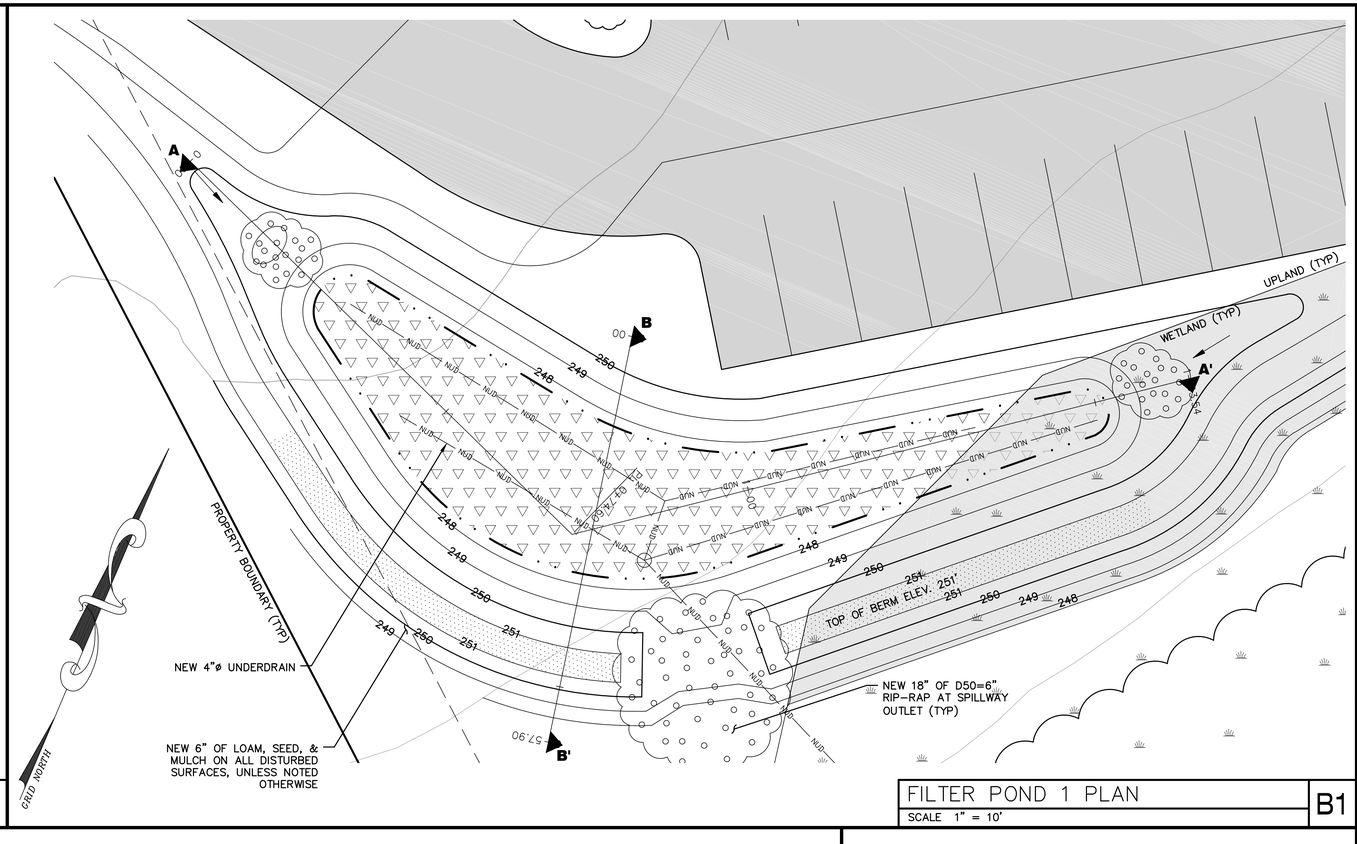
UNDERDRAIN BEDDING

1. UNDERDRAIN GRANULAR MATERIAL SHALL BE WELL GRADED, CLEAN, COARSE GRAVEL MEETING THE MEDOT SPECIFICATION 703.22 UNDERDRAIN TYP B FOR UNDERDRAIN BACKFILL (SEE TABLE 4).
2. UNDERDRAINS SHALL BE PLACED NO FURTHER THAN 8 FEET APART.
3. UNDERDRAINS SHALL MAINTAIN A MINIMUM OF 1% FOR POSITIVE DRAINAGE.

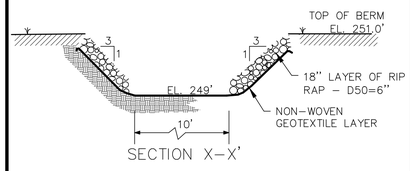


NOTE: MAINE DEP REQUIRES (PER CHAPTER 7.1 OF STORMWATER BMP DESIGN MANUAL), THE INSPECTION OF THE UNDERDRAINED FILTER BY THE DESIGN ENGINEER DURING CONSTRUCTION AT THE STAGES OF GENERAL SHAPE COMPLETED, UNDERDRAIN PIPE IN PLACE BUT NOT COVERED, DRAINAGE MEDIA IN PLACE, AND FINISHED WITH FILTER MEDIA AND SEED IN PLACE. THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER 48 HOURS IN ADVANCE OF THE ESTIMATED TIME OF CONSTRUCTION INSPECTION TO ARRANGE AN INSPECTION.

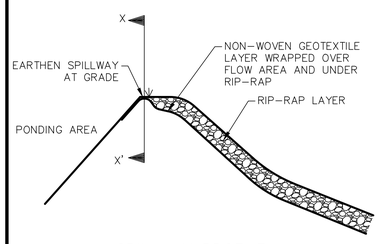
GRASSED FILTER BED DETAIL — NOT TO SCALE — B2



FILTER POND 1 PLAN — SCALE 1" = 10' — B1

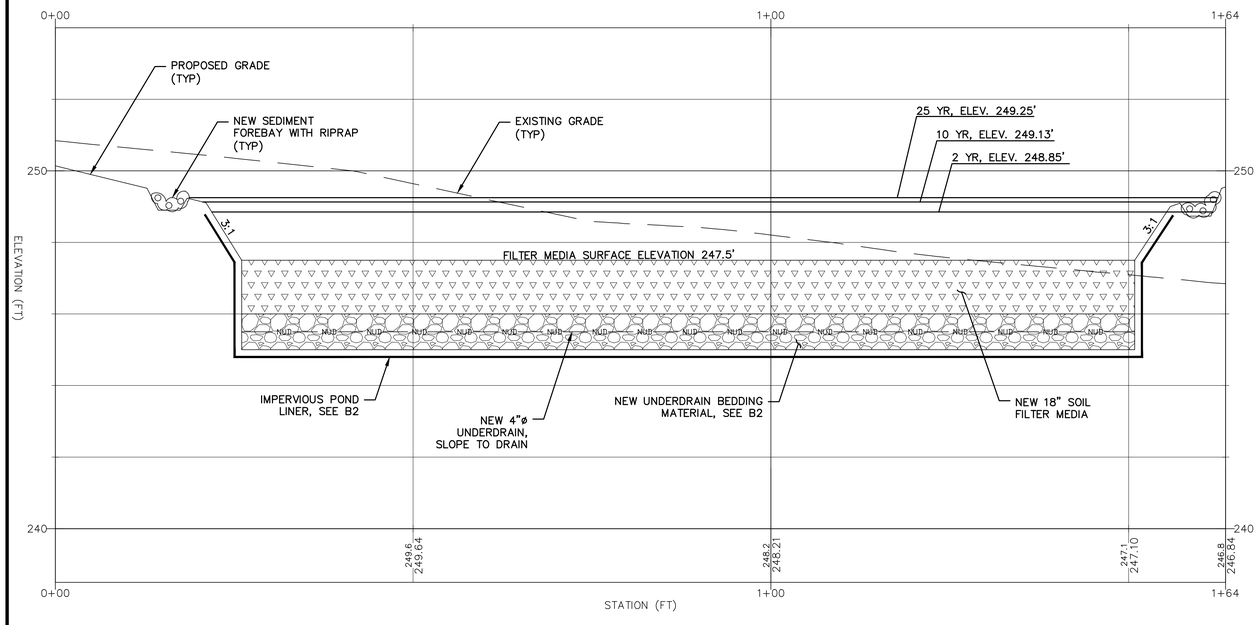


SECTION X–X'

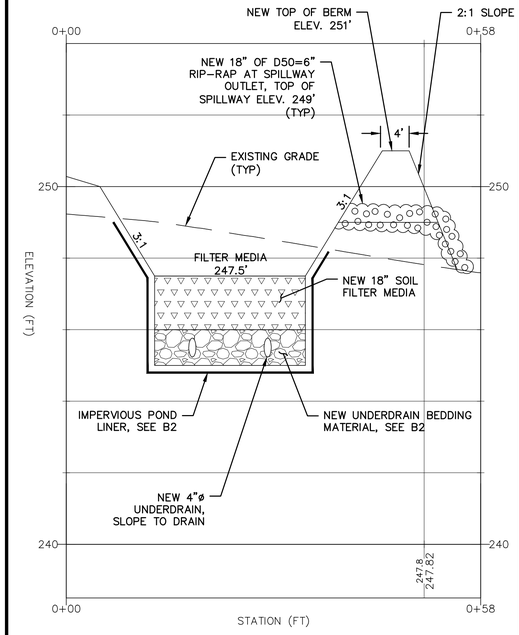


SPILLWAY PROFILE

PONDING AREA SPILLWAY — NOT TO SCALE — A3



POND PROFILE A–A' — HORIZONTAL SCALE 1" = 10' VERTICAL SCALE 1" = 2' — A2



POND PROFILE B–B' — HORIZONTAL SCALE 1" = 10' VERTICAL SCALE 1" = 2' — A1

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PROJECT

TAYLOR BROOK HOUSE

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OWNER OF RECORD

BETH C. BELL & JOHN D. CRAFTS

2 PASSING LANE,
LISBON FALLS, MAINE 04252

MADE FOR

JOHN F. MURPHY HOMES, INC.

80 CENTER STREET
AUBURN, MAINE 04210

DRAWING SCALE:

10 0 5 10
(IN FEET)
1 INCH = 10 FT

SUBMISSION NOTES:
SUBMISSION 1: 2023-03-03 TLB
ISSUED FOR PERMIT APPS.

PROJ. MGR:	EKB
DRAWN BY:	TLB
CHECKED BY:	EKB
SUBMISSION NO.	1
SURVEY DATE:	2022–11–10
SUBMISSION DATE:	2023–03–03
SUBMITTED FOR:	PERMIT APPS

NOT FOR CONSTRUCTION

FILTER POND 1 PLAN & PROFILES

SEAL:

STATE OF MAINE
ESTHER K. BIZIER
No. 14236
LICENSED PROFESSIONAL ENGINEER

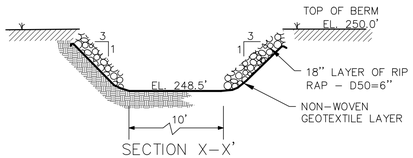
2023–03–03

ESTHER K. BIZIER ME PE#14236

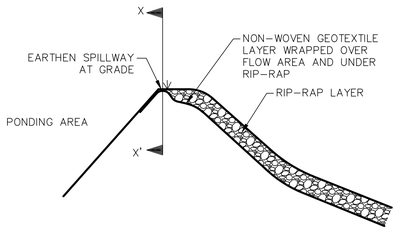
DRAWING NO.

C6.1

MLDC NO. 22–330 6 OF 12



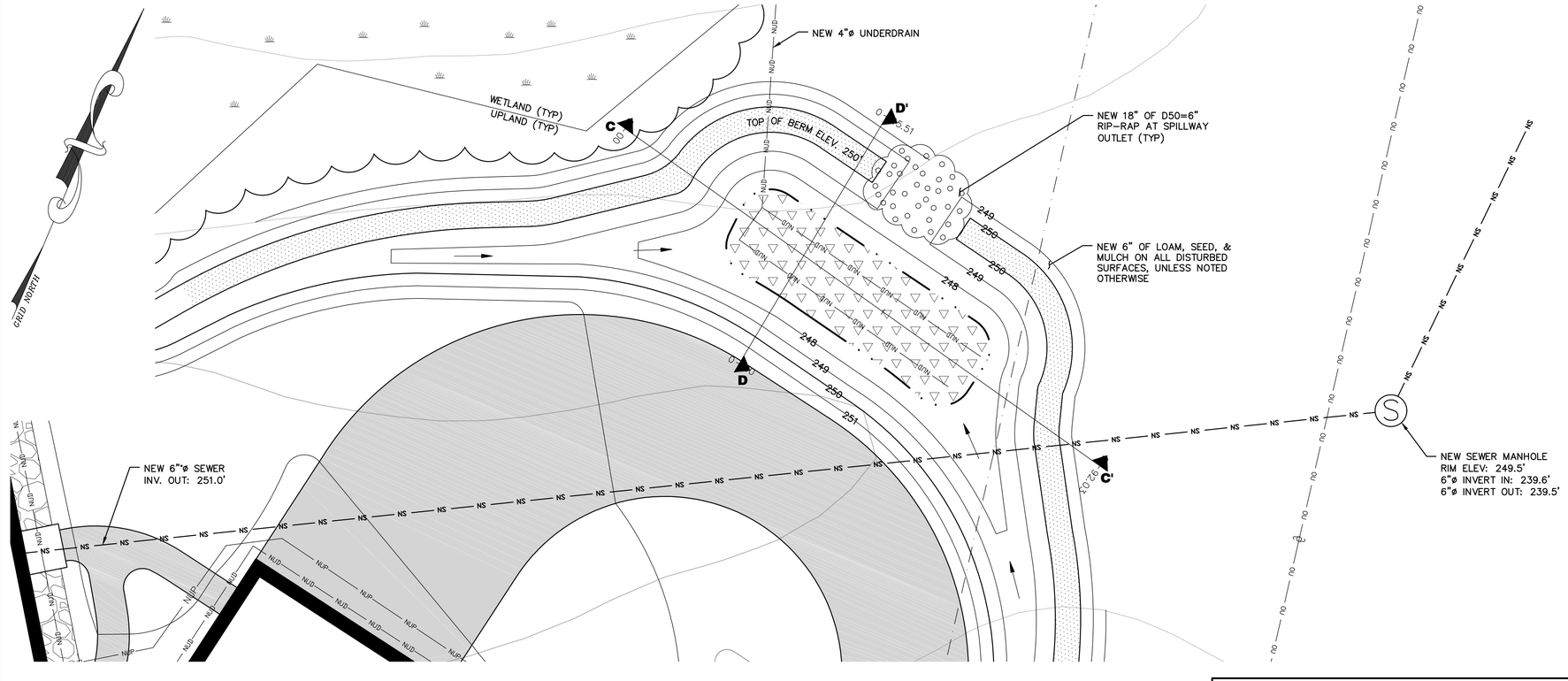
SECTION X–X'



SPILLWAY PROFILE

PONDING AREA SPILLWAY — B2

NOT TO SCALE



FILTER POND 2 PLAN — B1

SCALE 1" = 10'

TABLE 1 SOIL FILTER MEDIA		
Filter Media	Mixture by Volume	Specifications
Sandy loam/fine sandy loam & Course Loamy Sand	70%–80%	Required to meet the Sieve Analysis specified in Table 2, below.
Mulch	20%–25%	Moderatley fine, shredded bark or wood fiber mulch with less than 5% passing the #200 sieve
8% to 12% passing #200 sieve. Clay content less than 2%		

TABLE 2 LOAMY COARSE SAND SIEVE ANALYSIS SPEC.	
Sieve Size	% by Weight
#10	85–100
#20	70–100
#60	15–40
#200	8–15

TABLE 3 SANDY LOAM TO FINE SANDY LOAM SPEC.	
Sieve Size	% by Weight
#4	75–95
#10	60–90
#40	35–85
#200	20–70
200 (CLAY SIZE)	<2.0

TABLE 4 MEDOT Specifications for UNDERDRAINS	
Sieve Size	% by Weight
Underdrain Type B	
1"	95–100
1/2"	75–100
#4	50–100
#20	15–80
#50	0–15
#200	0–5

FILTER BED NOTES

CONSTRUCTION SEQUENCE: THE SOIL FILTER MEDIA AND VEGETATION MUST NOT BE INSTALLED UNTIL THE AREA THAT DRAINS TO THE FILTER HAS BEEN PERMANENTLY STABILIZED WITH PAVEMENT OR OTHER STRUCTURE, 90% VEGETATION COVER, OR OTHER PERMANENT STABILIZATION UNLESS THE RUNOFF FROM THE CONTRIBUTING DRAINAGE AREA IS DIVERTED AROUND THE FILTER UNTIL STABILIZATION IS COMPLETED.

COMPACTION OF SOIL FILTER: THE BED SHOULD BE INSTALLED BY FLOODING THE MEDIA WITH WATER AND PLACING MATERIAL IN 6–9" LIFTS.

CONSTRUCTION OVERSIGHT: INSPECTION BY A PROFESSIONAL ENGINEER WILL OCCUR AT A MINIMUM:

- AFTER THE PRELIMINARY CONSTRUCTION OF THE FILTER GRADES AND ONCE THE UNDERDRAIN PIPES ARE INSTALLED BUT NOT BACKFILLED,
- AFTER THE DRAINAGE LAYER IS CONSTRUCTED AND PRIOR TO THE INSTALLATION OF THE FILTER MEDIA,
- AFTER THE FILTER MEDIA HAS BEEN INSTALLED AND SEEDED. BIO–RETENTION CELLS MUST BE STABILIZED PER THE PROVIDED PLANTING SCHEME AND DENSITY FOR THE CANOPY COVERAGE OF 30 AND 50%.
- AFTER ONE YEAR INSPECT HEALTH OF THE VEGETATION AND MAKE CORRECTIONS, AND
- ALL THE MATERIAL USED FOR THE CONSTRUCTION OF THE FILTER BASIN MUST BE CONFIRMED AS SUITABLE BY THE DESIGN ENGINEER. TESTING MUST BE DONE BY A CERTIFIED LABORATORY TO SHOW THAT THEY ARE PASSING DEP SPECIFICATIONS.

TESTING AND SUBMITTALS: THE CONTRACTOR SHALL IDENTIFY THE LOCATION OF THE SOURCE OF EACH COMPONENT OF THE FILTER MEDIA. ALL RESULTS OF FIELD AND LABORATORY TESTING SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR CONFIRMATION. THE CONTRACTOR SHALL:

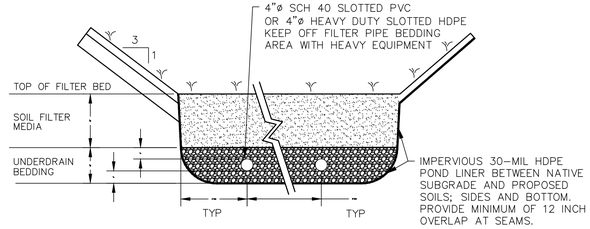
- SELECT SAMPLES FOR SAMPLING OF EACH TYPE OF MATERIAL TO BE BLENDED FOR THE MIXED FILTER MEDIA AND SAMPLES OF THE UNDERDRAIN BEDDING MATERIAL. SAMPLES MUST BE A COMPOSITE OF THREE DIFFERENT LOCATIONS (GRABS) FROM THE STOCKPILE OR PIT FACE. SAMPLE SIZE REQUIRED WILL BE DETERMINED BY THE TESTING LABORATORY.
- PERFORM A SIEVE ANALYSIS CONFORMING TO STM C136 (STANDARD TEST METHOD FOR SIEVE ANALYSIS OF FINE AND COURSE AGGREGATES 1996A) ON EACH TYPE OF THE SAMPLE MATERIAL. THE RESULTING SOIL FILTER MEDIA MIXTURE MUST HAVE 8% TO 12% BY WEIGHT PASSING THE #200 SIEVE, A CLAY CONTENT OF LESS THAN 2% (DETERMINED HYDROMETER GRAIN SIZE ANALYSIS) AND HAVE 10% DRY WEIGHT OF ORGANIC MATTER.
- PERFORM A PERMEABILITY TEST ON THE SOIL FILTER MEDIA MIXTURE CONFORMING TO ASTM D2434 WITH THE MIXTURE COMPACTED TO 90–92% OF MAXIMUM DRY DENSITY BASED ON ASTM D698.

GENERAL NOTES

1. AVOID COMPACTING UNDERDRAIN BEDDING AND SOIL FILTER MEDIA DURING CONSTRUCTION. OVER–COMPACTED SOILS WILL NOT ALLOW PROPER WATER MIGRATION THROUGH THE SOIL SECTION; FILTER BEDS ARE INTENDED TO DRAIN DRY WITHIN 24 TO 48 HOURS.
2. SEED FILTER AREA WITH CONSERVATION TYPE SEED MIXTURE (A 48 LBS/ACRE MIXTURE CONTAINING 20 LBS/ACRE OF CREEPING RED FESCUE AND TALL FESCUE EACH PLUS 8 LBS/ACRE OF BIRDSFOOT TREFOIL)
3. DO NOT INSTALL AND STABILIZE THE SOIL FILTER MEDIA IN THE BASIN UNTIL AFTER CONTRIBUTING AREAS HAVE BEEN PERMANENTLY STABILIZED.

UNDERDRAIN BEDDING

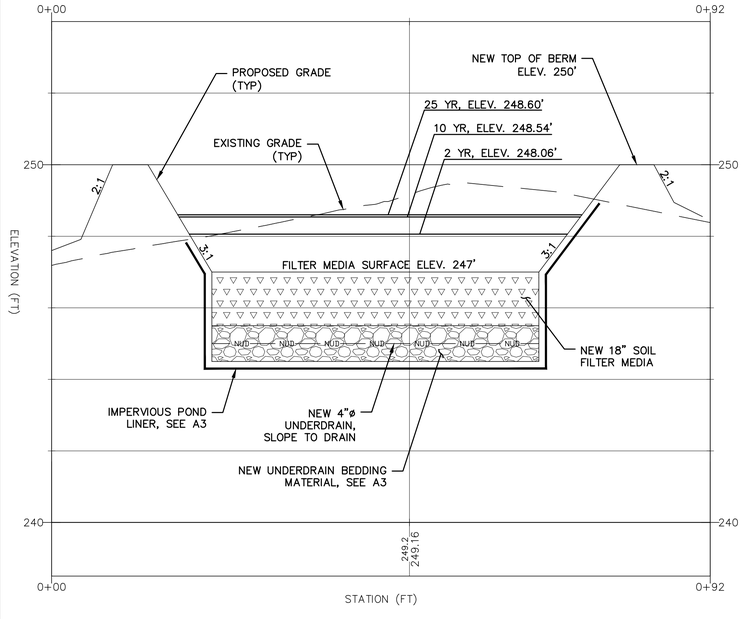
1. UNDERDRAIN GRANULAR MATERIAL SHALL BE WELL GRADED, CLEAN, COARSE GRAVEL MEETING THE MEDOT SPECIFICATION 703.22 UNDERDRAIN TYP B FOR UNDERDRAIN BACKFILL (SEE TABLE 4).
2. UNDERDRAINS SHALL BE PLACED NO FURTHER THAN 8 FEET APART.
3. UNDERDRAINS SHALL MAINTAIN A MINIMUM OF 1% FOR POSITIVE DRAINAGE.



NOTE: MAINE DEP REQUIRES (PER CHAPTER 7.1 OF STORMWATER BMP DESIGN MANUAL), THE INSPECTION OF THE UNDERDRAINED FILTER BY THE DESIGN ENGINEER DURING CONSTRUCTION AT THE STAGES OF GENERAL SHAPE COMPLETED, UNDERDRAIN PIPE IN PLACE BUT NOT COVERED, DRAINAGE MEDIA IN PLACE, AND FINISHED WITH FILTER MEDIA AND SEED IN PLACE. THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER 48 HOURS IN ADVANCE OF THE ESTIMATED TIME OF CONSTRUCTION INSPECTION TO ARRANGE AN INSPECTION.

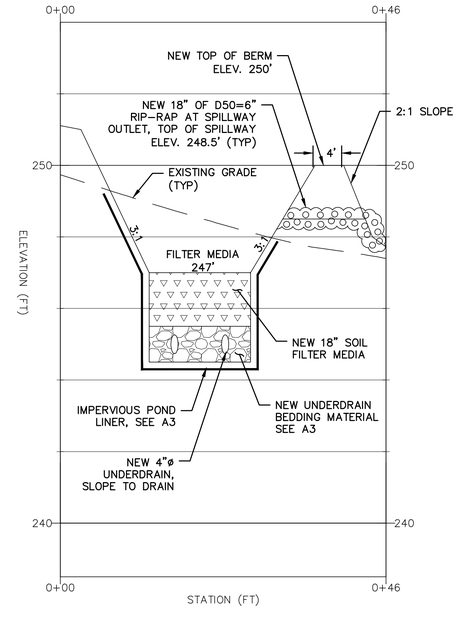
GRASSED FILTER BED DETAIL — A3

NOT TO SCALE



POND PROFILE C–C' — A2

HORIZONTAL SCALE 1" = 10' VERTICAL SCALE 1" = 2'



POND PROFILE D–D' — A1

HORIZONTAL SCALE 1" = 10' VERTICAL SCALE 1" = 2'

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PROJECT

TAYLOR BROOK HOUSE

HOTEL ROAD
AUBURN, MAINE 04210

OWNER OF RECORD

BETH C. BELL & JOHN D. CRAFTS

2 PASSING LANE,
LISBON FALLS, MAINE 04252

MADE FOR

JOHN F. MURPHY HOMES, INC.

80 CENTER STREET
AUBURN, MAINE 04210

DRAWING SCALE:

10 0 5 10
(IN FEET)
1 INCH = 10 FT

SUBMISSION NOTES:
SUBMISSION 1: 2023-03-03 TLB
ISSUED FOR PERMIT APPS.

PROJ. MGR:	EKB
DRAWN BY:	TLB
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SUBMISSION NO.	1
SURVEY DATE:	2022–11–10
SUBMISSION DATE:	2023–03–03
SUBMITTED FOR:	PERMIT APPS

NOT FOR CONSTRUCTION

FILTER POND 2 PROFILES

SEAL:

STATE OF MAINE
ESTHER K. BIZIER
No. 14236
LICENSED PROFESSIONAL ENGINEER

2023–03–03

ESTHER K. BIZIER ME PE#14236

DRAWING NO.

C6.2

MLDC NO. 22–330 7 OF 12

TABLE 1
SOIL FILTER MEDIA

Filter Media	Mixture by Volume	Specifications
Coarse Loamy Sand	70%–80%	Required to meet the Sieve Analysis specified in Table 2, below.
Mulch	20%–30%	Moderatley fine, shredded bark or wood fiber mulch with less than 5%% passing the #200 sieve
No more than 10% passing #200 sieve.		

TABLE 2
COARSE LOAMY SAND SIEVE ANALYSIS SPEC.

Sieve Size	% by Weight
#10	85–100
#20	70–100
#60	15–40
#200	8–10

TABLE 3
MEDOT Specifications for UNDERDRAINS

Sieve Size	% by Weight
Underdrain Type B	
1"	90–100
1/2"	75–100
#4	50–100
#20	15–80
#50	0–15
#200	0–5

GENERAL NOTES

1. AVOID COMPACTING UNDERDRAIN BEDDING AND SOIL FILTER MEDIA DURING CONSTRUCTION. OVER–COMPACTED SOILS WILL NOT ALLOW PROPER WATER MIGRATION THROUGH THE SOIL SECTION; FILTER BEDS ARE INTENDED TO DRAIN DRY WITHIN 24 HOURS.

PLANTED FILTER

1. CONSTRUCT FILTER SUCH THAT BERM IS NO MORE THAN 6 INCHES ABOVE THE MULCH SURFACE.

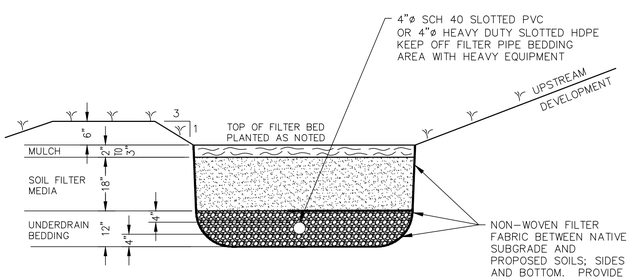
2. PLANTED RAIN GARDEN SHALL HAVE A MINIMUM OF 1,340 SQUARE FEET OF AREA TOTAL.

3. PLANT THE GARDEN AS NOTED ON THE RAIN GARDEN PLANTING DETAIL.

UNDERDRAIN BEDDING

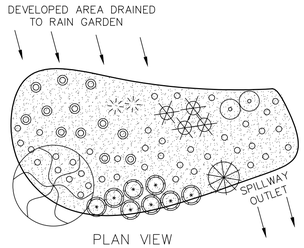
1. UNDERDRAIN GRANULAR MATERIAL SHALL BE WELL GRADED, CLEAN, COARSE GRAVEL MEETING THE MEDOT SPECIFICATION 703.22 UNDERDRAIN TYP B FOR UNDERDRAIN BACKFILL (SEE TABLE 3).

2. UNDERDRAINS SHALL MAINTAIN A MINIMUM OF 1% FOR POSITIVE DRAINAGE.



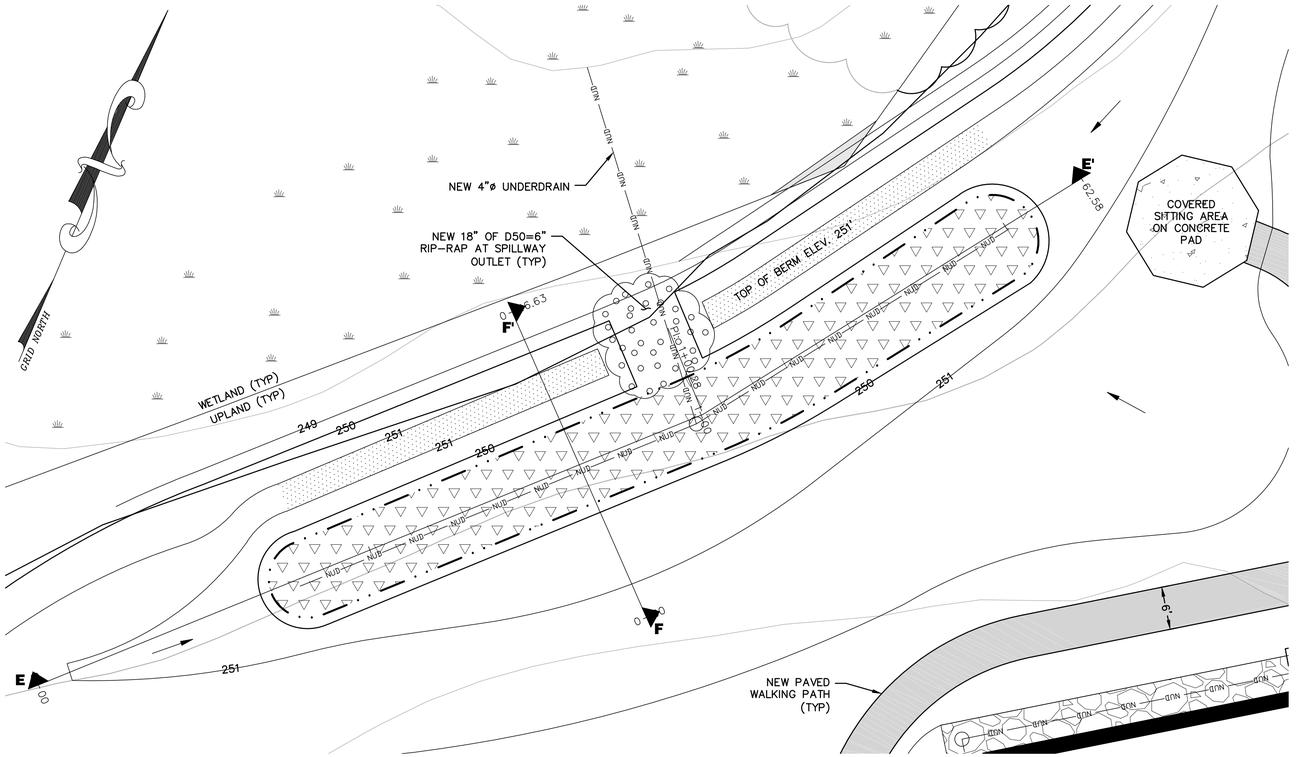
RECOMMENDED PLANTING LIST

SYMBOL	COMMON NAME	LATIN NAME	QTY	SIZE
◎	POTTED SWITCH GRASS	PANICUM VIRGATUM	12	POTTED
	CLUMP BIRCH	BETULA NIGRA	1	6–8' TALL
	HIGH BUSH BLUEBERRY	VACCINIUM	8	2 GALLON POT
	GRAY DOGWOOD	CORNUS RACEMOSA	1	3 GALLON POT
	ARROW VIBURNUMS	VIBURNUM DENTATUM	2	3–4' TALL
	CARDINAL FLOWER	LOBELIA CARDINALIS	2	#1 POTTED
	LOW BUSH HONEYSUCKLE	DIERVILLA IONICERA	4	15" TALL, POTTED
○	COLUMBINE	AQUILEGIA CANADENSIS	40	#1 POTTED

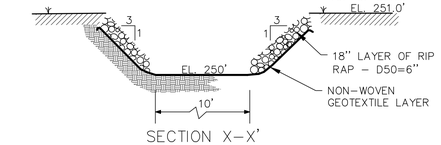


PLAN VIEW

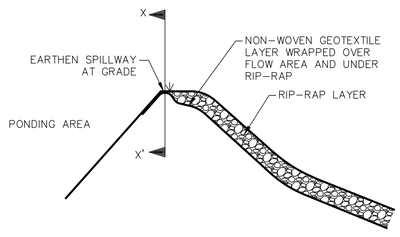
RAIN GARDEN/BIORETENTION CELL — B2
NOT TO SCALE



BIORETENTION FILTER CELL PLAN — B1
SCALE 1" = 10'

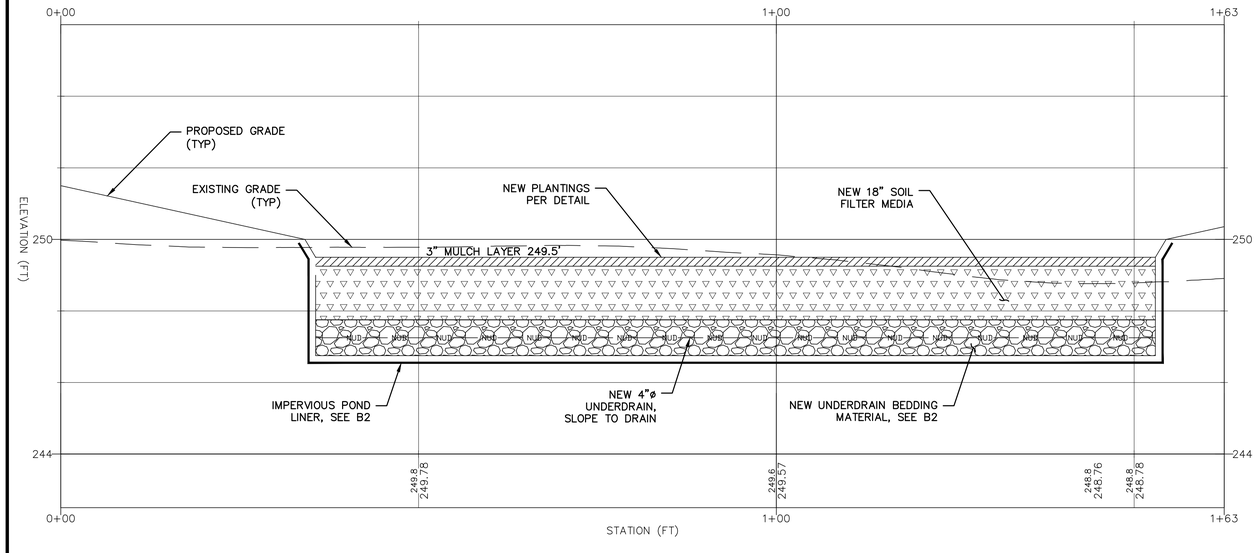


SECTION X–X'

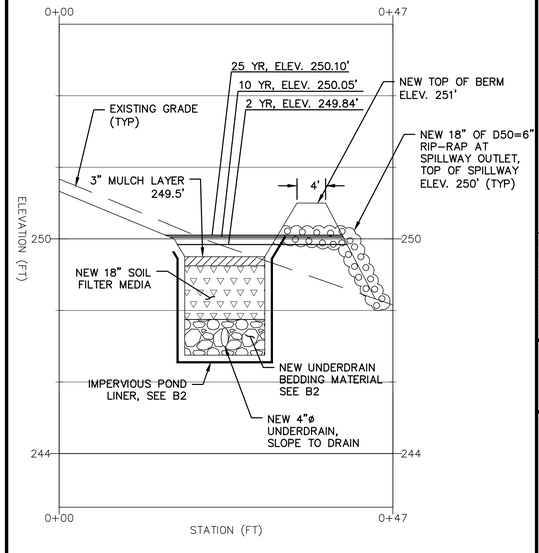


SPILLWAY PROFILE

PONDING AREA SPILLWAY — A3
NOT TO SCALE



POND PROFILE E–E' — A2
HORIZONTAL SCALE 1" = 10' VERTICAL SCALE 1" = 2'



POND PROFILE F–F' — A1
HORIZONTAL SCALE 1" = 10' VERTICAL SCALE 1" = 2'

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PROJECT

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DRAWING SCALE:

10 0 5 10
(IN FEET)
1 INCH = 10 FT

SUBMISSION NOTES:
SUBMISSION 1: 2023–03–03 TLB
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BIORETENTION FILTER PLAN & PROFILES

SEAL:

STATE OF MAINE
ESTHER K. BIZIER
No. 14236
LICENSED PROFESSIONAL ENGINEER

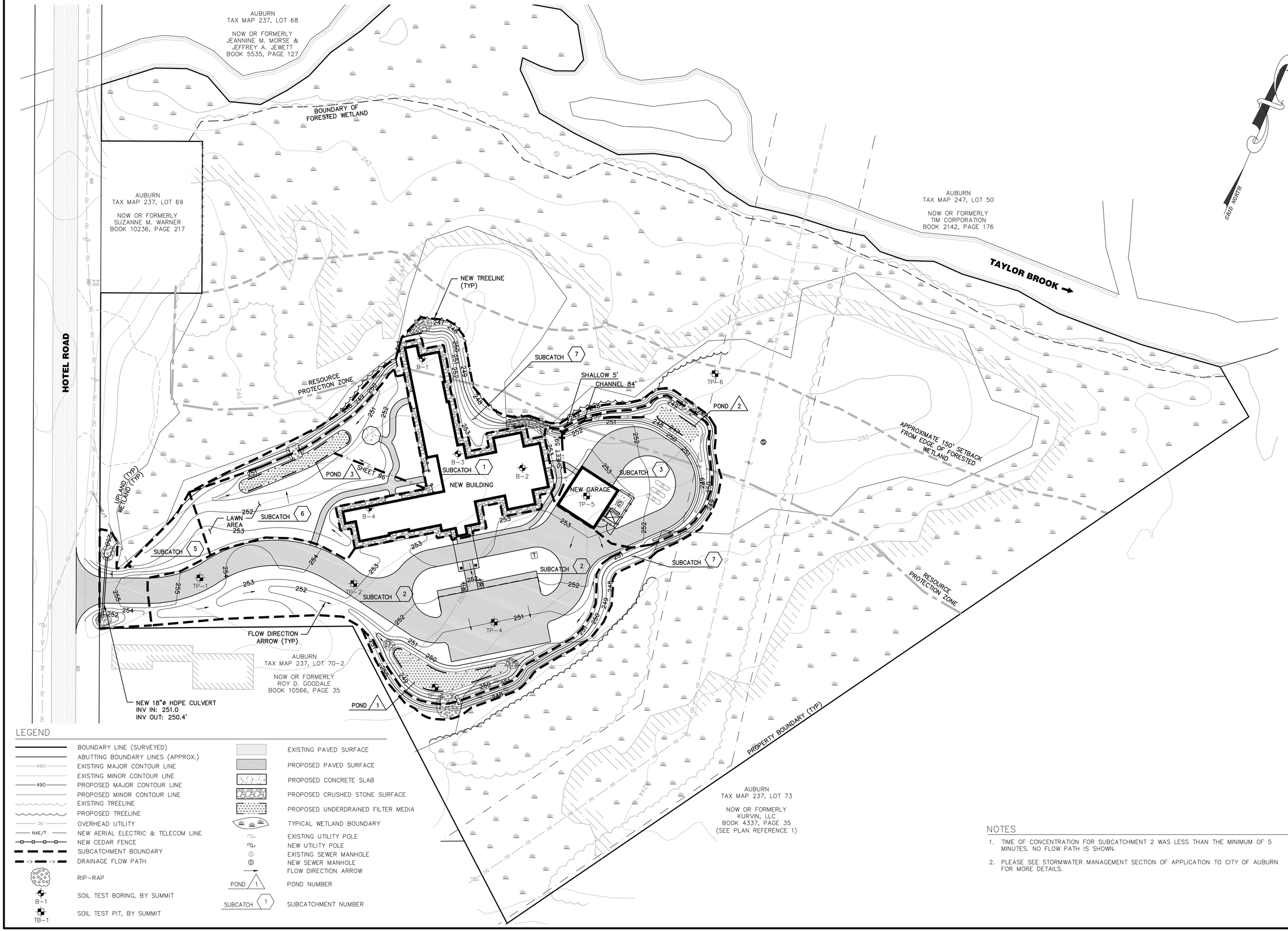
2023–03–03

ESTHER K. BIZIER ME PE#14236

DRAWING NO.

C6.3

MLDC NO. 22–330 8 OF 11



LEGEND

- BOUNDARY LINE (SURVEYED)
- ABUTTING BOUNDARY LINES (APPROX.)
- 490 EXISTING MAJOR CONTOUR LINE
- EXISTING MINOR CONTOUR LINE
- 490 PROPOSED MAJOR CONTOUR LINE
- PROPOSED MINOR CONTOUR LINE
- EXISTING TREELINE
- PROPOSED TREELINE
- OU OVERHEAD UTILITY
- NAE/T NEW AERIAL ELECTRIC & TELECOM LINE
- NEW CEDAR FENCE
- SUBCATCHMENT BOUNDARY
- DRAINAGE FLOW PATH
- RIP-RAP
- B-1 SOIL TEST BORING, BY SUMMIT
- TB-1 SOIL TEST PIT, BY SUMMIT
- EXISTING PAVED SURFACE
- PROPOSED PAVED SURFACE
- PROPOSED CONCRETE SLAB
- PROPOSED CRUSHED STONE SURFACE
- PROPOSED UNDERDRAINED FILTER MEDIA
- TYPICAL WETLAND BOUNDARY
- EXISTING UTILITY POLE
- NEW UTILITY POLE
- EXISTING SEWER MANHOLE
- NEW SEWER MANHOLE
- FLOW DIRECTION ARROW
- POND 1 POND NUMBER
- SUBCATCH 1 SUBCATCHMENT NUMBER

NOTES

1. TIME OF CONCENTRATION FOR SUBCATCHMENT 2 WAS LESS THAN THE MINIMUM OF 5 MINUTES. NO FLOW PATH IS SHOWN.
2. PLEASE SEE STORMWATER MANAGEMENT SECTION OF APPLICATION TO CITY OF AUBURN FOR MORE DETAILS.

MAIN-LAND
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MADE FOR

JOHN F. MURPHY HOMES, INC.

80 CENTER STREET
AUBURN, MAINE 04210

DRAWING SCALE:

40 0 20 40
(IN FEET)
1 INCH = 40 FT

SUBMISSION NOTES:
SUBMISSION 1: 2023-03-03 TLB
ISSUED FOR PERMIT APPS.

PROJ. MGR:	EKB
DRAWN BY:	TLB
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SUBMITTED FOR:	PERMIT APPS

NOT FOR CONSTRUCTION

DRAINAGE PLAN

SEAL:

STATE OF MAINE
ESTHER K. BIZIER
No. 14236
LICENSED PROFESSIONAL ENGINEER
2023-03-03

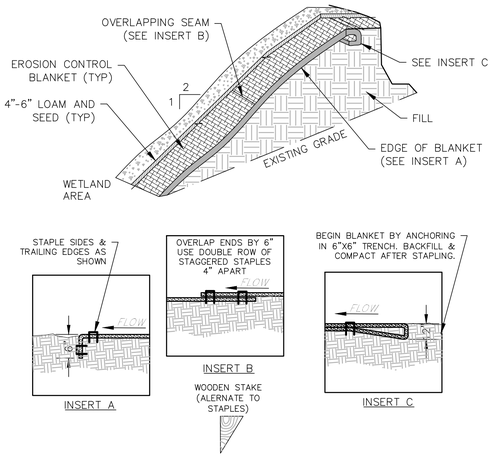
ESTHER K. BIZIER ME PE#14236

DRAWING NO.

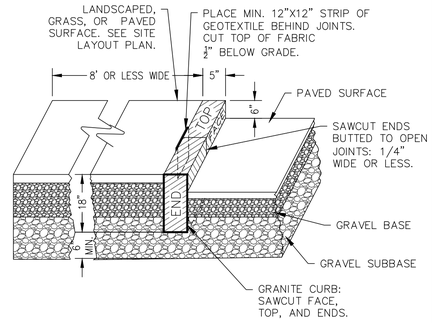
D2.1

MLDC NO. 22-330 9 OF 12

NOTES:
1. FILL SHALL BE COMPACTED IN 6" TO 12" LAYERS TO AVOID SETTLEMENT. COMPACT FILL UNDER PAVEMENTS AND GRAVEL AREAS TO 95% OF MAXIMUM DRY DENSITY; AND UNDER GRASS OR MULCH AREAS TO 90% OF MAXIMUM DRY DENSITY.
2. SOILS SHALL NOT CONTAIN COBBLES LARGER THAN 8" IN THE GREATEST DIMENSION, ICE, FROZEN SOIL, OR ROOTS/STUMPAGE.
3. DO NO WORK ON FROZEN OR MUDDY GROUND.
4. UNROLL MAT ONTO GROUND IN DIRECTION OF WATER FLOW.
5. MAT SHOULD LIE FLAT. DO NOT STRETCH MAT OVER GROUND. STRETCHING MAY CAUSE MAT TO BRIDGE DEPRESSIONS IN THE SURFACE AND ALLOW EROSION UNDERNEATH.
6. BURY TRANSVERSE TERMINAL ENDS OF MAT TO SECURE AND PREVENT EROSIVE FLOW UNDERNEATH.
7. SECURE MAT SNUGLY INTO ALL TRANSVERSE CHECK SLOTS.
8. BACKFILL AND COMPACT TRENCHES AND CHECK SLOTS AFTER STAKING THE MAT IN BOTTOM OF TRENCH.
9. OVERLAP ROLL ENDS BY THREE (3) FEET (MIN.) WITH UPSLOPE MAT ON TOP TO PREVENT UPLIFT OF MAT END BY WATER FLOW. IF INSTALLING IN THE DIRECTION OF A CONCENTRATED WATERFLOW, START NEW ROLLS IN A TRANSVERSE DITCH.
10. OVERLAP ADJACENT EDGES OF MAT BT THREE (3) INCHES (MIN.) AND STAKE.
11. WOOD STAKES ARE RECOMMENDED FOR PINNING MAT TO THE GROUND SURFACE. STAKES SHOULD BE 1" X 3" NOMINAL STOCK CUT IN A TRINGULAR SHAPE. STAKES SHOULD BE 12" TO 18" LONG, DEPENDING ON SOIL DENSITY.
12. DRIVE WOODEN STAKES TO WITHIN THREE (3) INCHES OF GROUND SURFACE. DO NOT DRIVE FLUSH TO SURFACE.
13. IN ALL TRANSVERSE TERMINAL TRENCHES AND CHECK SLOTS, STAKE EACH MAT AT ITS CENTER AND OVERLAP EDGES BEFORE BACKFILLING AND COMPACTING.
14. STAKE OVERLAPS LONGITUDINALLY AT THREE (3) TO FIVE (5) FOOT INTERVALS.
15. FOLLOW COLORED DOT PATTERNS BY MANUFACTURER.

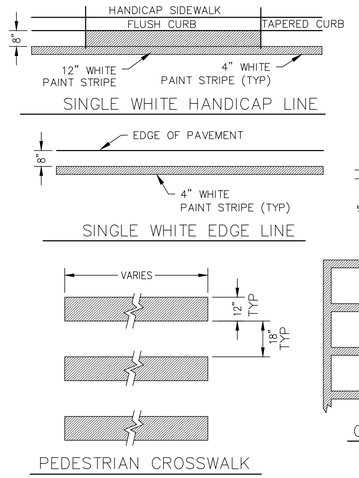


EMBANKMENT W/EROSION CONTROL BLANKET — C4
NOT TO SCALE

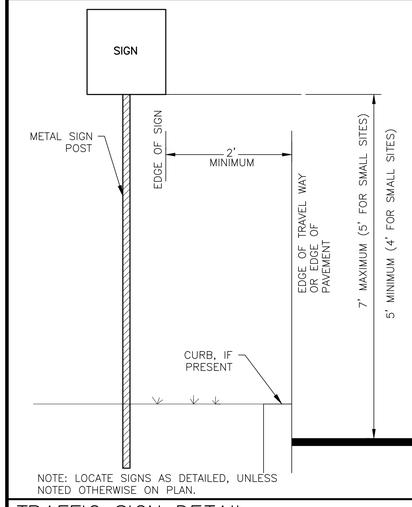


NOTE
1. USE CURVED SECTIONS FOR CURB RADIUS OF 40' OR LESS.
2. SEE SPECIFICATIONS SECTION 2500 FOR FURTHER INFORMATION.

VERTICAL GRANITE CURB: VGC — C3
NOT TO SCALE

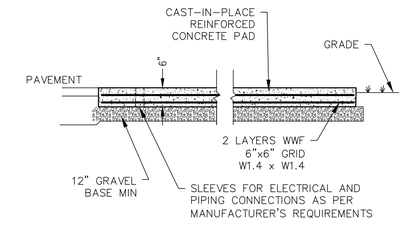


TYPICAL PAINT STRIPING — C1
NOT TO SCALE



NOTE: LOCATE SIGNS AS DETAILED, UNLESS NOTED OTHERWISE ON PLAN.

TRAFFIC SIGN DETAIL — B5
NOT TO SCALE



DUMPSTER CONCRETE PAD — B4
NOT TO SCALE

NOTE:
TYPE A SHALL BE CRUSHED LEDGE OR CRUSHED GRAVEL. TYPE A AGGREGATE FOR BASE SHALL ONLY CONTAIN PARTICLES OF ROCK WHICH PASS THE 2 INCH SIEVE. AT LEAST 50 PERCENT OF THE MATERIAL RETAINED ON THE NO. 4 SIEVE SHALL HAVE AT LEAST 1 FRACTURED FACE AS TESTED BY AASHTO T 335.

NOTE:
TYPE B SHALL BE CRUSHED LEDGE OR CRUSHED GRAVEL. TYPE B AGGREGATE FOR BASE SHALL ONLY CONTAIN PARTICLES OF ROCK WHICH PASS THE 4 INCH SIEVE.

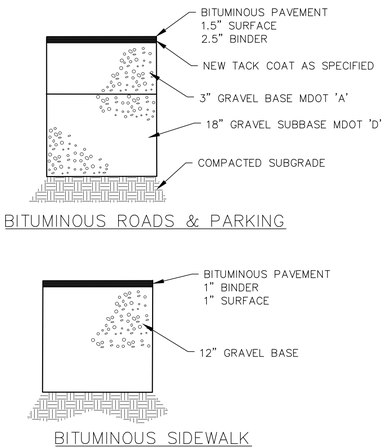
NOTE:
TYPE C SHALL BE CRUSHED LEDGE OR CRUSHED GRAVEL AND AGGREGATE FOR BASE SHALL ONLY CONTAIN PARTICLES OF ROCK WHICH PASS THE 6 INCH SIEVE. AT LEAST 50 PERCENT OF THE MATERIAL RETAINED ON THE NO. 4 SIEVE SHALL HAVE AT LEAST 1 FRACTURED FACE AS TESTED BY AASHTO T 335.

NOTE:
AGGREGATE FOR SUB-BASE SHALL BE SAND OR GRAVEL OF HARD DURABLE PARTICLES FREE OF VEGETABLE MATTER, LUMPS OF CLAY, AND OTHER DELETERIOUS SUBSTANCES. AGGREGATE FOR SUB-BASE SHALL NOT CONTAIN PARTICLES THAT DO NOT PASS THE 6 INCH SIEVE.

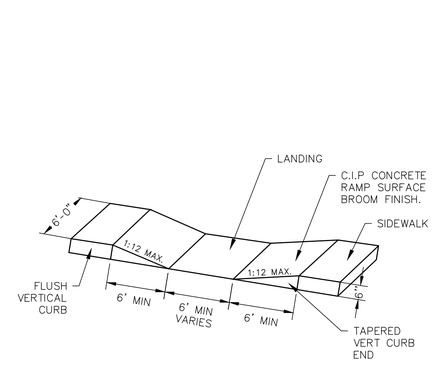
MDOT GRAVEL SPECIFICATIONS SECTION 703.06

SIEVE DESIGNATION	PERCENTAGE BY WEIGHT PASSING SQUARE MESH SIEVES				
	TYPE A	TYPE B	TYPE C	TYPE D	TYPE E
4 INCH			100		
3 INCH			90–100		
2 INCH			75–100		
1 INCH			50–80		
1/2 INCH	45–70	35–75	30–60	35–80	
1/4 INCH	30–55	25–60		25–65	25–100
NO. 4			15–40		
NO. 40	0–20	0–25		0–30	0–50
NO. 200	0–6.0	0–6.0	0–6.0	0–7.0	0–7.0

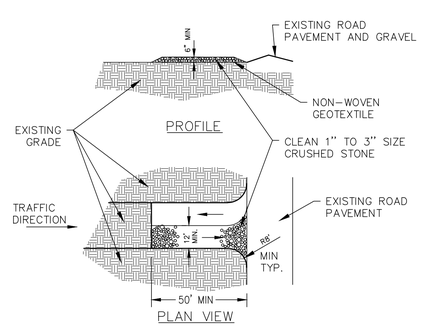
TYPICAL MAINE DOT GRAVEL SPECS — B2
NOT TO SCALE



BITUMINOUS PAVEMENT DETAILS — B1
NOT TO SCALE

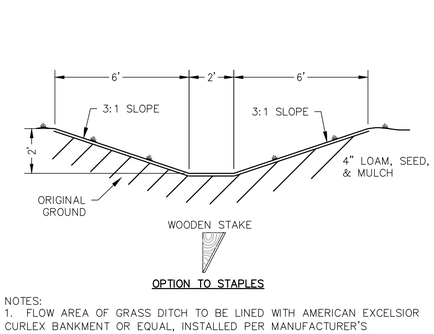


HANDICAP RAMP — A5
NOT TO SCALE



NOTES:
1. STONE SIZE: 2½" TO 1½" USE CRUSH STONE.
2. THICKNESS: MINIMUM OF 8".
3. MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC TRAVELED WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE.

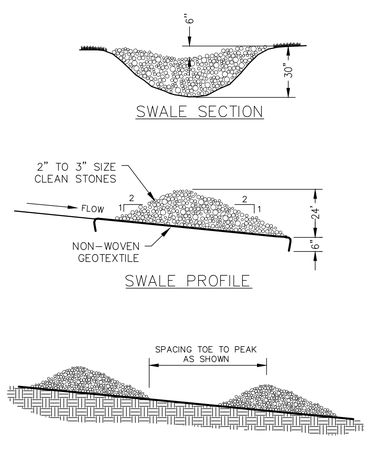
TEMP. STABILIZED CONSTRUCTION EXIT — A4
NOT TO SCALE



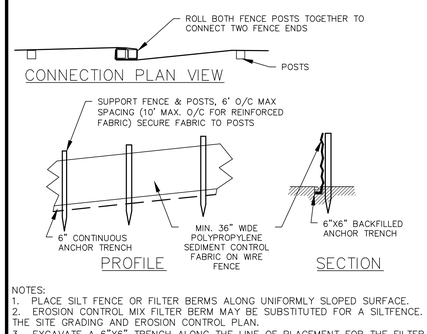
OPTION TO STAPLES

NOTES:
1. FLOW AREA OF GRASS DITCH TO BE LINED WITH AMERICAN EXCELSIOR CURLEX BANKMENT OR EQUAL, INSTALLED PER MANUFACTURER'S RECOMMENDATION WITHIN 48 HOURS OF FINAL DITCH GRADING.
2. BURY THE TOP OF THE NETTING IN A TRENCH 6" OR MORE DEEP.
3. TAM TRENCH FULL OF SOIL, SECURE WITH ROW OF STAPLES (OR WOOD STAKES), 12" SPACING, 4" DOWN FROM THE TRENCH.
4. OVERLAP-BURY UPPER END OF LOWER STRIP AS IN "A" & "B" OVERLAP END OF TOP STRIP 4" AND STAPLE OR WOOD STAKE.
5. CHECK SLOT-FOLD OF NETTING BURIED IN SLIT TRENCH TAMPED; DOUBLE ROW OF STAPLES (OR WOOD STAKES) AT 12" SPACING, USE CHECK SLOTS AT 15" SPACING IN DITCHES OR STEEP SLOPES.

TYPICAL GRASS DITCH — A3
NOT TO SCALE



SWALE/DITCH STONE CHECK DAM — A2
NOT TO SCALE



NOTES:
1. PLACE SILT FENCE OR FILTER BERMS ALONG UNIFORMLY SLOPED SURFACE.
2. EROSION CONTROL MIX FILTER BERM MAY BE SUBSTITUTED FOR A SILTFENCE. SEE THE SITE GRADING AND EROSION CONTROL PLAN.
3. EXCAVATE A 6"X6" TRENCH ALONG THE LINE OF PLACEMENT FOR THE FILTER BARRIER.
4. UNROLL ONE SECTION AT A TIME AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM) WALL OF THE TRENCH.
5. DRIVE THE POSTS INTO THE GROUND UNTIL APPROXIMATELY 2" OF FABRIC IS LYING ON THE TRENCH BOTTOM. JOIN SECTIONS AS SHOWN ABOVE.
6. LAY THE TOE-IN FLAP OF FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH, BACKFILL THE TRENCH AND TAMP THE SOIL. TOE-IN CAN ALSO BE ACCOMPLISHED BY LAYING THE FABRIC FLAP ON UNDISTURBED GROUND AND PILING AND TAMPING FILL AT THE BASE, BUT MUST BE ACCOMPLISHED BY AN INTERCEPTION DITCH.
7. BARRIER SHALL BE MIRAFI SILT FENCE OR APPROVED EQUAL.

SILT FENCE — A1
NOT TO SCALE

MAIN-LAND DEVELOPMENT CONSULTANTS, INC.
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PROJECT
TAYLOR BROOK HOUSE
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AUBURN, MAINE 04210

OWNER OF RECORD
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2 PASSING LANE,
LISBON FALLS, MAINE 04252

MADE FOR
JOHN F. MURPHY HOMES, INC.
80 CENTER STREET
AUBURN, MAINE 04210

DRAWING SCALE:
NOT TO SCALE

SUBMISSION NOTES:
SUBMISSION 1: 2023-03-03 TLB
SUBMISSION FOR PERMIT APPS.

PROJ. MGR:	EKB
DRAWN BY:	TLB
CHECKED BY:	EKB
SUBMISSION NO.	1
SURVEY DATE:	2022-11-10
SUBMISSION DATE:	2023-03-03
SUBMITTED FOR:	PERMIT APPS

NOT FOR CONSTRUCTION

SITE DETAILS

SEAL:
STATE OF MAINE
ESTHER K. BIZIER
No. 14236
LICENSED PROFESSIONAL ENGINEER
2023-03-03
ESTHER K. BIZIER ME PE#14236

DRAWING NO.
C9.1

MLDC NO. 22-330 10 OF 12

UTILITY LOCATION REQUIREMENTS

PRIOR TO EXCAVATION, VERIFY THE UNDERGROUND UTILITIES, PIPES, STRUCTURES, AND FACILITIES. PROVIDE THE FOLLOWING MINIMUM MEASURES.

A. PRE-MARK THE BOUNDARIES OF YOUR PLANNED EXCAVATION WITH WHITE PAINT, FLAGS, OR STAKES SO UTILITY CREWS KNOW WHERE TO MARK THEIR LINES.

B. CALL DIG SAFE, AT 1-888-DIGSAFE, AT LEAST THREE BUSINESS DAYS – BUT NO MORE THAN 30 CALENDAR DAYS – BEFORE STARTING WORK. DON'T ASSUME SOMEONE ELSE WILL MAKE THE CALL.

C. IF BLASTING, NOTIFY DIG SAFE AT LEAST ONE BUSINESS DAY IN ADVANCE.

D. WAIT THREE BUSINESS DAYS FOR LINES TO BE LOCATED AND MARKED WITH COLOR-CODED PAINT, FLAGS, OR STAKES. NOTE THE COLOR OF THE MARKS AND THE TYPE OF UTILITIES THEY INDICATE. TRANSFER THESE MARKS TO THE AS-BUILT DRAWINGS.

E. CONTACT THE LANDOWNER AND OTHER 'NON-MEMBER' UTILITIES (WATER, SEWER, GAS, ETC) FOR THEM TO MARK THE LOCATIONS OF THEIR UNDERGROUND FACILITIES. TRANSFER THESE MARKS TO THE AS-BUILT DRAWINGS.

F. RE-NOTIFY DIG SAFE AND THE NON-MEMBER UTILITIES IF THE DIGGING, DRILLING, OR BLASTING DOES NOT OCCUR WITHIN 30 CALENDAR DAYS, OR IF THE MARKS ARE LOST DUE TO WEATHER CONDITIONS, SITE WORK ACTIVITY, OR ANY OTHER REASON.

G. HAND DIG WITHIN 18 INCHES IN ANY DIRECTION OF ANY UNDERGROUND LINE UNTIL THE LINE IS EXPOSED. MECHANICAL METHODS MAY BE USED FOR INITIAL SITE PENETRATION, SUCH AS REMOVAL OF PAVEMENT OR ROCK.

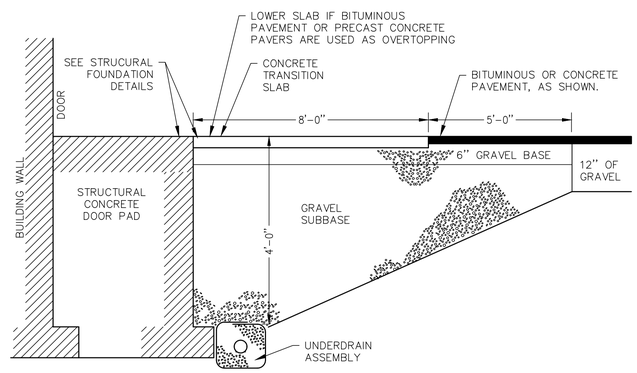
H. DIG SAFE REQUIREMENTS ARE IN ADDITION TO TOWN, CITY, AND/OR STATE D.O.T. STREET OPENING PERMIT REQUIREMENTS.

I. FOR COMPLETE DIG SAFE REQUIREMENTS, CALL THE P.U.C. OR VISIT THEIR WEBSITE.

J. IF YOU DAMAGE, DISLOCATE, OR DISTURB ANY UNDERGROUND UTILITY LINE, IMMEDIATELY NOTIFY THE AFFECTED UTILITY. IF DAMAGE CREATES SAFETY CONCERNS, CALL THE FIRE DEPARTMENT AND TAKE IMMEDIATE STEPS TO SAFEGUARD HEALTH AND PROPERTY.

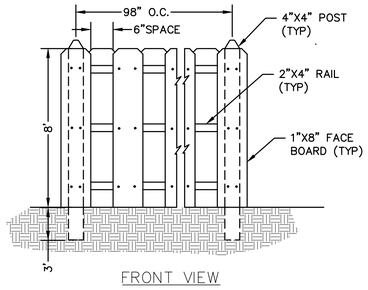
K. ANY TIME AN UNDERGROUND LINE IS DAMAGED OR DISTURBED, OR IF LINES ARE IMPROPERLY MARKED, YOU MUST FILE AND INCIDENT REPORT WITH THE P.U.C.. FOR AN INCIDENT REPORT FORM VISIT WWW.STATE.ME.US/MPUC OR CALL THE P.U.C. AT 1-800-452-4699.

UTILITY LOCATION REQUIREMENTS — C3
NOT TO SCALE

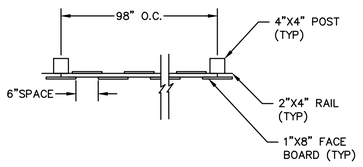


CONCRETE STRUCTRUAL SLAB DOORWAY — C1
NOT TO SCALE

NOTES:
1. ALL FENCING MATERIAL SHALL BE NORTHERN WHITE CEDAR SAWN TO THE DIMENSIONS SHOWN ON THE DRAWING.
2. POST SHALL MAINTAIN A DEPTH OF 3' IN GROUND AND SHALL BE RACKED TO ACCOMMODATE ANY CHANGES IN GRADE.
3. LINE OF FENCE TOP & BOTTOM SHALL BE INSTALLED STRAIGHT AND TRUE. ALL POST AND FACING BOARDS OR SLATS SHALL BE INSTALLED PARALLEL AND PLUMB. ALL RAILS SHALL BE INSTALLED PARALLEL AND TRUE.
4. CONTRACTOR SHALL CONSULT THE ENGINEER OF RECORD FOR APPROVAL OF ANY ADJUSTMENTS PRIOR TO INSTALLATION



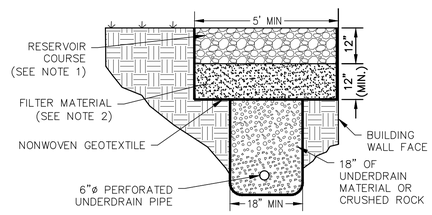
FRONT VIEW



TOP VIEW

CEDAR PRIVACY FENCE — B4
NOT TO SCALE

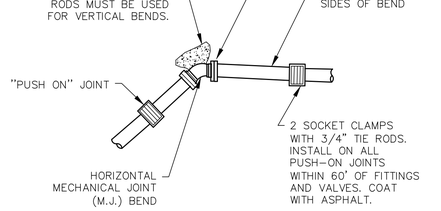
NOTES:
1. RESERVOIR COURSE SHALL BE 12 INCHES THICK AND SHALL CONSIST OF CLEAN, WASHED ¾" TO 1" AGGREGATE THAT IS FREE OF DEBRIS.
2. IF FOUNDATION BACKFILL IS A MINERAL SOIL BETWEEN 4 AND 7% FINES IT MAY BE USED AS THE FILTER MATERIAL.
3. UNDERDRAIN MATERIAL SHALL BE WELL GRADED, CLEAN, COARSE GRAVEL MEETING THE MEDOT SPECIFICATION 703.22 UNDERDRAIN TYPE B FOR UNDERDRAIN BACKFILL. CRUSHED ROCK IS ALSO ACCEPTABLE AND SHOULD BE WRAPPED IN NON-WOVEN GEOTEXTILE FABRIC.



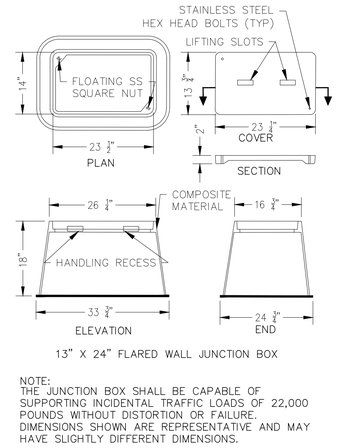
ROOF DRIPLINE FILTER — B3
NOT TO SCALE

GENERAL DATA FOR BLOCKING STANDARD FITTINGS
MINIMUM SURFACE AREA OF CONCRETE BLOCK AGAINST UNDISTURBED EARTH – SQ.FT.

PIPE SIZE	HYDRANT, PLUG, CAP, TEE	90° BEND	45° BEND	22.5° BEND	11.25° BEND
4"	4	4	4	3	2
6"	8	10	6	4	3
8"	12	16	10	6	4
10"	18	26	14	8	5
12"	26	36	20	12	7
14"	36	50	28	16	9
16"	46	64	36	20	12



RESTRAINT AT WATER LINE FITTINGS — B2
NOT TO SCALE



13" X 24" FLARED WALL JUNCTION BOX

NOTE:
THE JUNCTION BOX SHALL BE CAPABLE OF SUPPORTING INCIDENTAL TRAFFIC LOADS OF 22,000 POUNDS WITHOUT DISTORTION OR FAILURE. DIMENSIONS SHOWN ARE REPRESENTATIVE AND MAY HAVE SLIGHTLY DIFFERENT DIMENSIONS.

ELECTRICAL JUNCTION BOX — B1
NOT TO SCALE

NEW UNDERGROUND LIGHTING CONDUIT — A5
NOT TO SCALE

PIPE TRENCH — A4
NOT TO SCALE

WATER SERVICE LINE CONNECTION — A3
NOT TO SCALE

NOTES

1. NUMBER AND SIZE OF REBARS INDICATED ARE MINIMUM. EXACT SPACING SHALL BE COORDINATED WITH MANUFACTURERS SHOP DRAWINGS.
2. DEPTH OF BASE INDICATED IS MINIMUM.
3. BOLT CIRCLE AND OTHER EMBEDDED ITEMS TO BE OORDINATED WITH ELECTRICAL CONTRACTOR AND LIGHT POLE MANUFACTURER.

PC CONCRETE LIGHT POLE BASE — A1
NOT TO SCALE

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AUBURN, MAINE 04210

DRAWING SCALE:
NOT TO SCALE

SUBMISSION NOTES:
SUBMISSION 1: 2023-03-03 TLB
SUBMISSION FOR PERMIT APPS.

PROJ. MGR:	EKB
DRAWN BY:	TLB
CHECKED BY:	EKB
SUBMISSION NO.	1
SURVEY DATE:	2022-11-10
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SUBMITTED FOR:	PERMIT APPS

NOT FOR CONSTRUCTION

SITE DETAILS

SEAL:
STATE OF MAINE
ESTHER K. BIZIER
No. 14236
LICENSED PROFESSIONAL ENGINEER
2023-03-03
ESTHER K. BIZIER ME PE#14236

DRAWING NO.
C9.2
MLDC NO. 22-330 11 OF 12

EROSION AND SEDIMENTATION CONTROL PLAN

Taylor Brook House
Hotel Road, Auburn, ME 04210

Prepared By:

MAIN-LAND DEVELOPMENT CONSULTANTS, INC.
Livermore Falls, Maine
March 3, 2023

1. INTRODUCTION:

"A person who conducts, or causes to be conducted, an activity that involves filling, displacing or exposing soil or other earthen materials shall take measures to prevent unreasonable erosion of soil or sediment beyond the project site or into a protected natural resource as defined in 38 M.R.S.A. §480-B. Sediment control measures must be in place before the activity begins. Measures must remain in place and functional until the site is permanently stabilized. Adequate and timely temporary and permanent stabilization measures must be taken." - Maine DEP Chapter 500 Rules, Appendix A.

This Plan has been developed to ensure that construction activities on this project site utilize sound erosion and sedimentation control measures. These measures will prevent or reduce the potential for the deposition of sediments down stream of site. The methods of control consist of preventive measures and remedial measures. Preventive measures are aimed at keeping the soils in their present location through mulching and through the reestablishment of vegetation. Remedial measures deal with the trapping and/or filtering of sediment laden stormwater run-off. Both types of measures will be utilized on this project.

The Erosion and Sedimentation Control Plan is best broken down into Temporary Measures, Winter Stabilization, and Permanent Measures.

2. TEMPORARY EROSION CONTROL:

Temporary control measures may consist of a combination of measures where appropriate and/or as shown on the plans.

A. Silt Fencing:

Silt fencing may be used in place of, or together with, the sediment filter barriers. The silt fencing will also be anchored at least four inches into the ground and placed along an even contour. Turn the ends of the fence up-grade to avoid runoff flowing around the fence. During frozen conditions, furnish and install Sediment Filter Berms in lieu of silt fencing or hay bales if frozen soil prevents the proper installation of silt fences and hay bales.

B. Temporary Mulch:

Temporary mulch shall be placed on all disturbed areas where seeding, construction or stabilization activities will not take place for over 7 consecutive days. Temporary mulch will also be placed on areas within 75 feet of a natural resource (wetland, stream, etc.) where seeding will not take place for over 48 hours, and on all bare soils outside the road base prior to any predicted significant rain event. A significant rain event is considered to be at least ½ inch of rain or more. Temporary mulch may be hay and shall be applied at a rate of two bales per 1,000 square feet. Soil must not be visible upon completion of application, regardless of rate of application.

C. Concrete Washout

To avoid contamination of groundwater or surface water utilize a containment structure to retain, collect and allow concrete to solidify. Locate concrete washout containment structure in designated area of site. Washout structure shall be located greater than 50 feet from a storm drain or discharge point unless the pit is lined with anchored 10mm plastic sheeting and overflow of the containment structure is prevented.

Size washout station to handle all wash water, solids and rainfall without overflowing. Approximately 7 gallons of water are required to clean concrete truck chute and approximately 50 gallons of water are required to clean the concrete truck hopper. Size to allow 4" of freeboard between top of liquid and top of structure.

Inspect structure daily for leaks and breaches. Remove solidified excess concrete from washout structure and dispose of property off site or in designated area.

D. Maintenance of Temporary Measures:

All temporary measures described above shall be inspected weekly and before/after every significant storm event (1/2 inch of rain or greater) throughout the construction of the project. Repairs or replacements of temporary measures will be made, as necessary. Once the site is stable, all temporary devices such as hay bale barriers and silt fencing will be removed.

A log shall be kept summarizing the inspections and any corrective action taken. The log must include the name(s) and qualifications of the person making the inspections, the date(s) of the inspections, and major observations about the operation and maintenance of erosion and sedimentation controls, materials storage areas, and vehicles access points to the parcel. Major observations must include BMPs that need maintenance, BMPs that failed to operate as designed or proved inadequate for a particular location, and location(s) where additional BMPs are needed. For each BMP requiring maintenance, BMP needing replacement, and location needing additional BMPs, note in the log the corrective action taken and when it was taken.

The log must be made accessible to department staff and a copy must be provided upon request. The permittee shall retain a copy of the log for a period of at least three years from the completion of permanent stabilization.

3. WINTER STABILIZATION:

The winter construction period is from November 1 through April 15. If the construction site is not stabilized with a combination of pavement, a road gravel base, 90% mature vegetation cover or riprap by November 1 then the site needs to be protected with winter stabilization.

Winter excavation and earthwork shall be completed such that no more than 1 acre of the site is denuded at any one time. Limit the exposed area to those areas in which work is expected to be undertaken during the following 15 days. Exposed area shall not be so large that it cannot be mulched in one day prior to any snow event.

Areas shall be considered to be denuded until the subbase gravel is installed in roadway areas or the areas of future loam and seed have been loamed and mulched. Hay and straw mulch rate shall be a minimum of 200 lbs./1,000 s.f. (3 tons/acre) and shall be properly anchored.

The contractor must install any added measures which may be necessary to control erosion/sedimentation from the site dependent upon the actual site and weather conditions.

Continuation of earthwork operations on additional areas shall not begin until the exposed soil surface on the area being worked has been stabilized, in order to minimize areas without erosion control protection.

1. Soil Stockpiles
   Stockpiles of soil or subsoil will be mulched for over winter protection with hay or straw at twice the normal rate or at 200 lbs/1,000 s.f. (3 tons per acre) or with a four-inch layer of woodwaste erosion control mix. This will be done within 24 hours of stocking and re-established prior to any rainfall or snowfall.

   Any new soil stockpile will not be placed (even covered with hay or straw) within 100 feet of any natural resources.

2. Natural Resource Protection
   Any areas within 100 feet from any natural resources, if not stabilized with a minimum of 90 % mature vegetation catch, shall be mulched by December 1 and anchored with plastic netting or protected with erosion control mats.

   During winter construction, a double line of sediment barriers (i.e. silt fence backed with hay bales or erosion control mix) will be placed between any natural resource and the disturbed area. Silt fencing may not be placed on frozen ground.

   Projects crossing the natural resource shall be protected a minimum distance of 100 feet on either side from the resource. Existing projects not stabilized by December 1 shall be protected with the second line of sediment barrier to ensure functionality during the spring thaw and rains.

3. Mulching
   Areas shall be considered denuded until loamed, seeded and mulched. Hay and straw mulch shall be applied at a rate of 200 lb. per 1.000 square feet or 3 tons/acre (twice the normal accepted rate) and shall be properly anchored. Mulch shall not be spread on top of snow. The snow will be removed down to a one-inch depth or less prior to application.

   An area shall be considered stabilized when exposed surfaces have been either mulched with straw or hay at a rate of 200 lb. per 1,000 square feet and adequately anchored, such that the ground surface is not visible though the mulch.

   Between the dates of November 1 and April 15, all mulch shall be anchored by either peg line, mulch netting, or wood cellulose fiber. The ground surface shall not be visible though the mulch.

   After November 1ST, mulch and anchoring of all bare soil shall occur at the end of each final grading workday.

4. Seeding
   Between the dates of October 15 and April 1ST, loam or seed will not be required. During periods of above freezing temperatures, finished areas shall be fine graded and either protected with mulch or temporarily seeded (see table below) and mulched until such time as the final treatment can be applied. If after November 1ST the exposed area has been final graded and loamed, then the area may be dormant seeded at a rate of 3 times higher than specified for permanent seed and then mulched.

   TEMPORARY SEED MIX

TYPE	% BY WEIGHT	% PURITY	GERMINATION
Domestic Rye Grass	60	69.75	90
Perennial Rye Grass	20	28.00	85
Aroostook Rye Grass	20	28.00	85

   Dormant seeding may be placed prior to the placement of mulch and fabric netting anchored with staples.

   If dormant seeding is used for the site, all disturbed areas shall receive 4" of loam and seed at an application rate of 5lbs/1000 s.f. All areas seeded during the winter will be inspected in the spring for adequate catch. Areas not sufficiently vegetated (less than 90 % catch) shall be revegetated by replacing loam, seed, and mulch.

   If dormant seeding is not used, all disturbed areas shall be revegetated in the spring.

5. Trench Dewatering and Temporary Stream Diversion
   Water from construction trench dewatering or temporary stream diversion will pass first through a filter bag or secondary containment structure (e.g. hay bale lined pool) prior to discharge. The discharge site shall be selected to avoid flooding, icing, and sediment discharges to a protected resource. In no case shall the filter bag or containment structure be located within 100 feet of a protected natural resource.

6. Inspection and Monitoring
   Maintenance measures shall be applied as needed during the entire construction season. After each rainfall, snowstorm or period of thawing and runoff, the site contractor shall perform a visual inspection of all installed erosion control measures and perform repairs as needed to insure their continuous function.

   In the spring, following the temporary/final seeding and mulching, the contractor shall inspect and repair any damages and/ or un-established spots. Established vegetative cover means a minimum of 90 % of areas vegetated with vigorous growth.

7. Standard for the timely stabilization of ditches and channels

   All stone-lined ditches and channels shall be constructed and stabilized by November 1. All grass-lined ditches and channels shall be constructed and stabilized by September 1. Failure to stabilize a ditch or channel to be grass-lined by September 1, will require one of the following actions to stabilize the ditch for late fall and winter.

   Install a sod lining in the ditch - Sod lining shall be installed in ditches by October 1. Proper installation includes pinning the sod onto the soil with wire pins, rolling the sod to guarantee contact between the sod and underlying soil, watering the sod to promote root growth into the disturbed soil, and anchoring the sod with jute or plastic mesh to prevent the sod strips from sloughing during flow conditions.

   Install a stone lining in the ditch -Ditches shall be lined with stone riprap by November 1, as presented below. If necessary, the applicant will regrade the ditch prior to placing the stone lining so to prevent the stone lining from reducing the ditch's cross-sectional area.

8. Standard for the timely stabilization of disturbed slopes

   Construct and stabilize stone-covered slopes by November 1. The applicant will Seed and mulch all slopes to be vegetated by September 1. Slopes will be considered any area having a grade greater than 15% (6H:1V). If the applicant fails to stabilize any slope to be vegetated by September 1, then the applicant will take one of the following actions to stabilize the slope for late fall and winter.

   Stabilize the soil with temporary vegetation and erosion control mats -- Seed the disturbed slope with winter rye at a seeding rate of 3 pounds per 1000 square feet and apply erosion control mats over the mulched slope October 1. The applicant will monitor growth of the rye over the next 30 days. If the rye fails to grow at least three inches or cover at least 90% of the disturbed slope by November 1, cover the slope with a layer of wood waste compost or with stone riprap as described below.

   Stabilize the slope with sod -- Stabilize the disturbed slope with properly installed sod by October 1. Proper installation includes pinning the sod onto the slope with wire pins, rolling the sod to guarantee contact between the sod and underlying soil, and watering the sod to promote root growth into the disturbed soil. Sod stabilization shall not be used late season to stabilize slopes having a grade greater than 33% (3H:1V).

   Stabilize the slope with wood waste compost (erosion control mix) --Place a six-inch layer of wood waste compost on the slope by November 1. Prior to placing the wood waste compost, remove any snow accumulation on the disturbed slope. Wood waste compost will not be used to stabilize slopes having grades greater than 50% (2H:1V) or having groundwater seeps on the slope face.

   Stabilize the slope with stone riprap -- Place a layer of stone riprap on the slope by November 1, similar to the Stone Lined Ditch the permanent erosion control section.

9. Standard for the timely stabilization of disturbed soils

   Seed and mulch all disturbed soils on areas having a slope less than 15% by September 1. Failure to stabilize these soils by this date will require one of the following actions to stabilize the soil for late fall and winter.

   Stabilize the soil with temporary vegetation -- Seed the disturbed soil with winter rye at a seeding rate of 3 pounds per 1000 square feet, lightly mulch the seeded soil with hay or straw at 75 pounds per 1000 square feet, and anchor the mulch with plastic netting by October 1. Growth of the rye will require monitoring over the following 30 days. If the rye fails to grow at least three inches or cover at least 75% of the disturbed soil before November 1, then mulch the area for over-winter protection as described below.
   Stabilize the soil with sod -- Stabilize the disturbed soil with properly installed sod by October 1. Proper installation includes pinning the sod onto the soil with wire pins, rolling the sod to guarantee contact between the sod and underlying soil, and watering the sod to promote root growth into the disturbed soil.

   Stabilize the soil with mulch -- Mulch the disturbed soil by spreading hay or straw at a rate of at least 150 pounds per 1000 square feet on the area so that no soil is visible through the mulch by November 1. Prior to applying the mulch, remove any snow accumulation on the disturbed area. Immediately after applying the mulch, anchor the mulch with plastic netting to prevent wind from moving the mulch off the disturbed soil.

4. PERMANENT EROSION CONTROL:

Permanent measures will consist of the placement of culverts; culvert inlet/outlet stabilization and the re-vegetation of all disturbed areas.

A. Re-vegetation Measures:

All areas to be permanently re-vegetated with grass will first be covered with loam and then fertilized.

Loam will be placed on all areas to be re-vegetated. Loam will be placed to a minimum depth of 4 inches. Loam will be the stockpiled topsoil, if possible.

Test the loam samples for nutrients at a proficient testing laboratory (The University of Maine provides this service). The areas with loam will then be fertilized with the recommended application rate. Lime will also be applied at a rate of 50 pounds per 1,000 square feet. Both the lime and the fertilizer will be mixed thoroughly with the soil.

All areas to be re-vegetated with permanent grass are to be seeded with the seed mix shown on the table below. This mixture will be applied at a rate of 2 pounds per 1,000 square feet.

General Lawn Areas	Chewing Fescue "Dignity"	35%
	Pennlawn Creeping Red Fescue	35%
	Perennial Rye "Tourstar" (Nutrite)	30%

Mulch will then be spread on all seeded areas at a rate of two bales per 1,000 square feet. Regardless of application rate the soil shall not be visible through the mulch.

Seed and mulch will be placed within five days of final grading of topsoil.

Seeded areas will be inspected after 30 days to determine the success of the seeding. If the ground cover is less than 90%, the area will be reseeded.

B. Critical Areas:

Slopes in excess of 15% will require the placement of a biodegradable netting or matting over the mulch and seed (if the netting has no mulch in it). If stabilization is to take place after October 1, slopes over 8% will be treated with the matting.

C. Litter Control

The property owner will perform daily cleanup of the site. During the spring, following snow melt, perform a thorough cleaning of the property paying particular attention to the drainage ditch to the east. Dispose of litter and trash in the onsite dumpster.

D. Maintenance of Permanent Measures:

All measures will be inspected weekly and before and after every significant storm event during construction, and then at least once annually to insure proper function. Any damaged areas will be repaired or replaced, as necessary. Any ditches or culverts not functioning as designed will be redesigned and reconstructed according to specifications prepared by a Professional Engineer.

In any event, seeding should take place either between May 1 and June 15, or August 15 and September 1.

MAIN-LAND
DEVELOPMENT
CONSULTANTS, INC.
69 MAIN ST. LIVERMORE FALLS, MAINE
367 US ROUTE 1 FALMOUTH, MAINE
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PROJECT

TAYLOR BROOK HOUSE

HOTEL ROAD
AUBURN, MAINE 04210

OWNER OF RECORD

BETH C. BELL & JOHN D. CRAFTS

2 PASSING LANE,
LISBON FALLS, MAINE 04252

MADE FOR

JOHN F. MURPHY HOMES, INC.

80 CENTER STREET
AUBURN, MAINE 04210

DRAWING SCALE:

NOT TO SCALE

SUBMISSION NOTES:
SUBMISSION 1: 2023-03-03 TLB
SUBMISSION FOR PERMIT APPS.

PROJ. MGR:	EKB
DRAWN BY:	TLB
CHECKED BY:	EKB
SUBMISSION NO.	1
SURVEY DATE:	2022-11-10
SUBMISSION DATE:	2023-03-03
SUBMITTED FOR:	PERMIT APPS

NOT FOR CONSTRUCTION

EROSION & SEDIMENTATION CONTROL PLAN

SEAL:

STATE OF MAINE
ESTHER K. BIZIER
No. 14236
LICENSED PROFESSIONAL ENGINEER

2023-03-03

ESTHER K. BIZIER ME PE#14236

DRAWING NO.

C9.3

MLDC NO. 22-330 12 OF 12

Stormwater Management Submittal

Taylor Brook House
at
Hotel Road, Auburn, Maine

Prepared for: John F. Murphy Homes, Inc.

March 3, 2023

MAIN-LAND DEVELOPMENT CONSULTANTS, INC.
PO BOX Q | 69 MAIN ST
LIVERMORE FALLS, MAINE 04254
367 ROUTE 1
FALMOUTH, MAINE 04105
(207) 897-6752

STORMWATER MANAGEMENT: TABLE OF CONTENTS

Taylor Brook House for John F. Murphy Homes – Auburn, Maine

Tab Number **Section**

STORMWATER MANAGEMENT
GENERAL STANDARDS NARRATIVE

Taylor Brook House
Auburn, Maine

Prepared by:

MAIN-LAND DEVELOPMENT CONSULTANTS, INC.
P.O. Box Q, Livermore Falls, Maine

March 3, 2023

The 12.83 acre project site is located off of Hotel Road in Auburn, Maine and is bounded on the northerly side by Taylor Brook. The property generally a mixture of field and woods. Some emergent wetland is located along the stream and forested wetland extends into the site. There is a Central Maine Power Easement which runs through the site and a City of Auburn sewer main along the northern property boundary. The property is generally moderately sloping with mainly hydrologic soil group "C" sandy loam/silty loam soils. The property drains entirely into Taylor Brook which flows to the Androscoggin River. As such, the property is not within the watershed of a Lake Most at Risk and a Phosphorus Analysis was not required.

The proposed Taylor Brook House is a 13,469 square foot "Care Home" operated by John F. Murphy Homes. In addition to the new building, there is a paved access drive, paved parking, a garage and an outdoor seating area. The project as shown on Site Plans included with this application totals 1.14 acres of non-revegetated impervious area and a total of 2.81 acres of developed area. As such, the project requires stormwater quality treatment of 95% of new impervious area and 80% of new developed area to meet the General Standard in Maine DEP Chapter 500 Stormwater Management Law. As part of Chapter 500, the applicant is seeking a Linear Portion of Project exemption for the access drive which requires 75% treatment of linear impervious area and 50% treatment is linear developed area (ditchline).

Stormwater treatment is achieved via four proposed best management practices:

- Grassed Underdrain Soil Filter Pond 1: to treat entrance drive and parking area
- Grassed Underdrain Soil Filter Pond 2: to treat a portion of the new garage and drive through for the garage
- Bioretention Filter/Rain Garden 3: to treat walkways, outdoor seating area and lawn area
- Roof Dripline Filter: to treat the roof of the proposed building

Treatment devices are shown on the project Site Plans and the D2.1 Drainage Plan. Sizing calculations and design details for each treatment device are provided following this narrative.

These stormwater treatment methods provide treatment of 100% of non-linear impervious area, 80.7% of developed area, 84.2% of linear impervious area and 91.9% of linear developed area. These treatment percentages meet the Stormwater Management Law General Standard Requirements and therefore meet City of Auburn ordinances.

Project: **Taylor Brook House**
Proj Number: 22-330

SUBCATCHMENT SUMMARY AND TREATMENT AREAS

			SUBCATCHMENT AREAS from Drainage Plans									**TREATED AREAS**						
			Proposed Developed Areas (acres)				Existing Areas					Proposed and Existing Treated Developed Areas (acres)					BMPs	
Sub		Tc	Linear		Non-Linear		Developed		Undeveloped			Linear		Non-Linear		Developed	Proposed	Treatment
Label	WAP	(min)	Impervious	Developed	Impervious	Developed	Impervious	Developed	Woods C	Fallow C	Total	Impervious	Developed	Impervious	Developed	Total	Treatment Method	Factor
1			0.00	0.00	0.32	0.32	0.00	0	0	0	0.32	0	0	0.32	0.32	0.32	dripline filter	1
2			0.16	0.34	0.41	0.79	0.00	0	0	0	1.13	0.16	0.34	0.41	0.79	1.13	UD Filter 1	1
3			0.00	0.00	0.18	0.42	0.00	0	0	0	0.42	0	0	0.18	0.42	0.42	UD Filter 2	1
5			0.03	0.03	0.00	0.12	0.00	0	0	0	0.15	0	0	0	0	0.00		1
6			0.00	0.00	0.04	0.44	0.00	0	0	0	0.44	0	0	0.04	0.44	0.44	Rain Garden 3 (Bio	1
7			0.00	0.00	0.00	0.35	0.00	0	0	0	0.35	0	0	0	0	0.00		1
			0.19	0.37	0.95	2.44	0.00	0.00	0.00	0.00	2.81	0.16	0.34	0.95	1.97	2.31		

PROPOSED TREATMENT PERCENTAGES				
	Linear		Non-Linear	
	Impervious	Developed	Impervious	Developed
Proposed:	0.19	0.37	0.95	2.44
Treated:	0.16	0.34	0.95	1.97
Percentage:	**84.2%**	**91.9%**	**100.0%**	**80.7%**

WORKSHEET FOR EVALUATING STORMWATER BMP's

Taylor Brook House

FILTER DESIGNS

UD Filter 1

Channel Protection Volume	acres:			
Impervious Area	0.57	1" Volume=	2069	cf
Developed non-impervious area	0.56	0.4" Volume=	813	cf
		Total Volume=	**2882**	cf

Area Sizing	sq. ft:	
5% of the Impervious Area	1241	
2% of the Developed non-impervious Area	488	
Total surface area of the filter media top:	**1729**	square feet

Sediment Forebay		
Impervious area to be sanded:	0.57	acres
Sand Application Rate, per storm	500	lbs per acre
Sand Desity, +/-	90	pcf
Number of Storms	10	annually
Forebay Size	**32**	cf

Designed Volume:	3527	cf
Designed Filter Area:	1749	sf

stormwater sizing

Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	25-yr	Type III 24-hr		Default	24.00	1	5.40	2

Summary for Pond 1P: UD Filter 1

Inflow Area = 1.130 ac, 50.44% Impervious, Inflow Depth = 3.84" for 25-yr event
Inflow = 5.18 cfs @ 12.07 hrs, Volume= 0.362 af
Outflow = 4.24 cfs @ 12.13 hrs, Volume= 0.362 af, Atten= 18%, Lag= 3.2 min
Primary = 0.20 cfs @ 12.13 hrs, Volume= 0.229 af
Secondary = 4.04 cfs @ 12.13 hrs, Volume= 0.132 af

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Peak Elev= 249.25' @ 12.13 hrs Surf.Area= 3,187 sf Storage= 4,290 cf

Plug-Flow detention time= 148.9 min calculated for 0.362 af (100% of inflow)
Center-of-Mass det. time= 149.0 min (949.6 - 800.6)

Volume	Invert	Avail.Storage	Storage Description
#1	247.50'	11,256 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

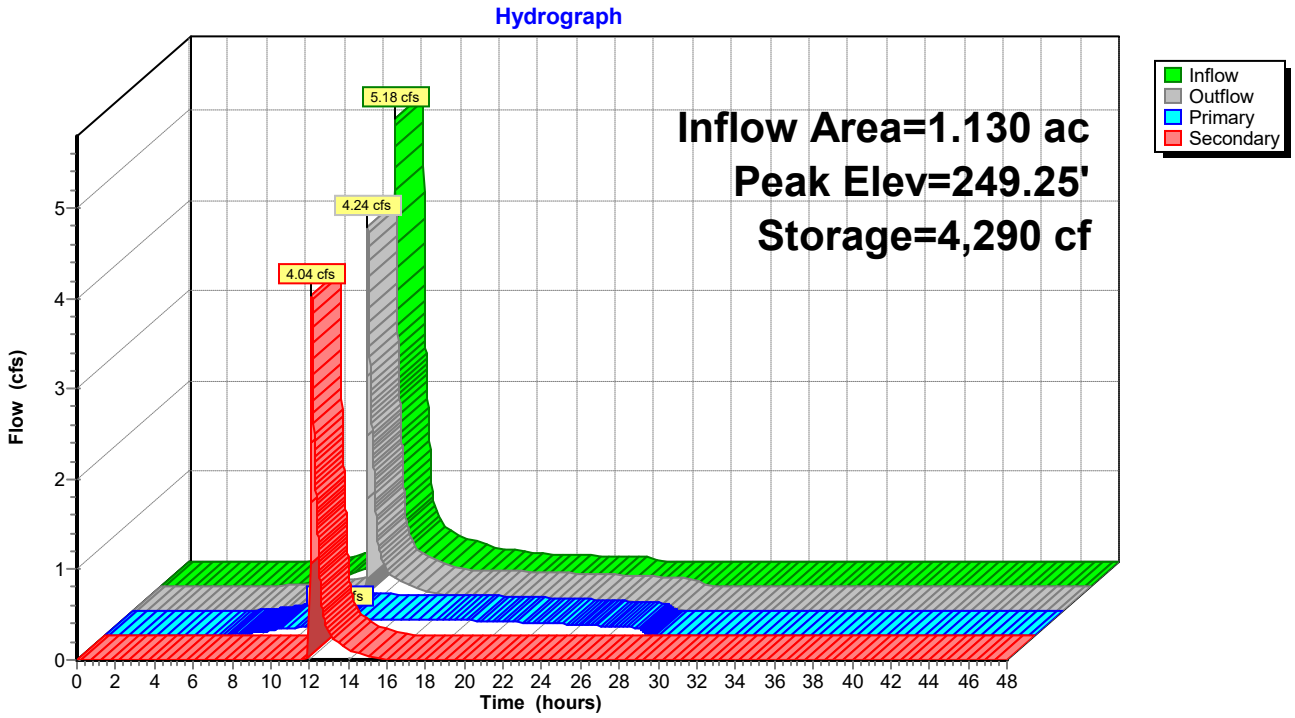
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
247.50	1,749	0	0
248.00	2,141	973	973
249.00	2,968	2,555	3,527
250.00	3,850	3,409	6,936
251.00	4,790	4,320	11,256

Device	Routing	Invert	Outlet Devices
#1	Primary	247.50'	**2.000 in/hr Exfiltration over Surface area above 244.80'** Conductivity to Groundwater Elevation = 244.00' Excluded Surface area = 0 sf
#2	Secondary	249.00'	**143.0 deg x 10.0' long Sharp-Crested Vee/Trap Weir** Cv= 2.47 (C= 3.09)

Primary OutFlow Max=0.20 cfs @ 12.13 hrs HW=249.25' (Free Discharge)
↑**1=Exfiltration** (Controls 0.20 cfs)

Secondary OutFlow Max=4.03 cfs @ 12.13 hrs HW=249.25' (Free Discharge)
↑**2=Sharp-Crested Vee/Trap Weir** (Weir Controls 4.03 cfs @ 1.52 fps)

Pond 1P: UD Filter 1



Summary for Pond 1P: UD Filter 1

Inflow Area = 1.130 ac, 50.44% Impervious, Inflow Depth = 2.82" for 10-yr event
Inflow = 3.84 cfs @ 12.07 hrs, Volume= 0.266 af
Outflow = 2.88 cfs @ 12.14 hrs, Volume= 0.185 af, Atten= 25%, Lag= 4.0 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Secondary = 2.88 cfs @ 12.14 hrs, Volume= 0.185 af

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Peak Elev= 249.20' @ 12.14 hrs Surf.Area= 3,143 sf Storage= 4,135 cf

Plug-Flow detention time= 160.1 min calculated for 0.185 af (70% of inflow)
Center-of-Mass det. time= 65.4 min (874.8 - 809.4)

Volume	Invert	Avail.Storage	Storage Description
#1	247.50'	11,256 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

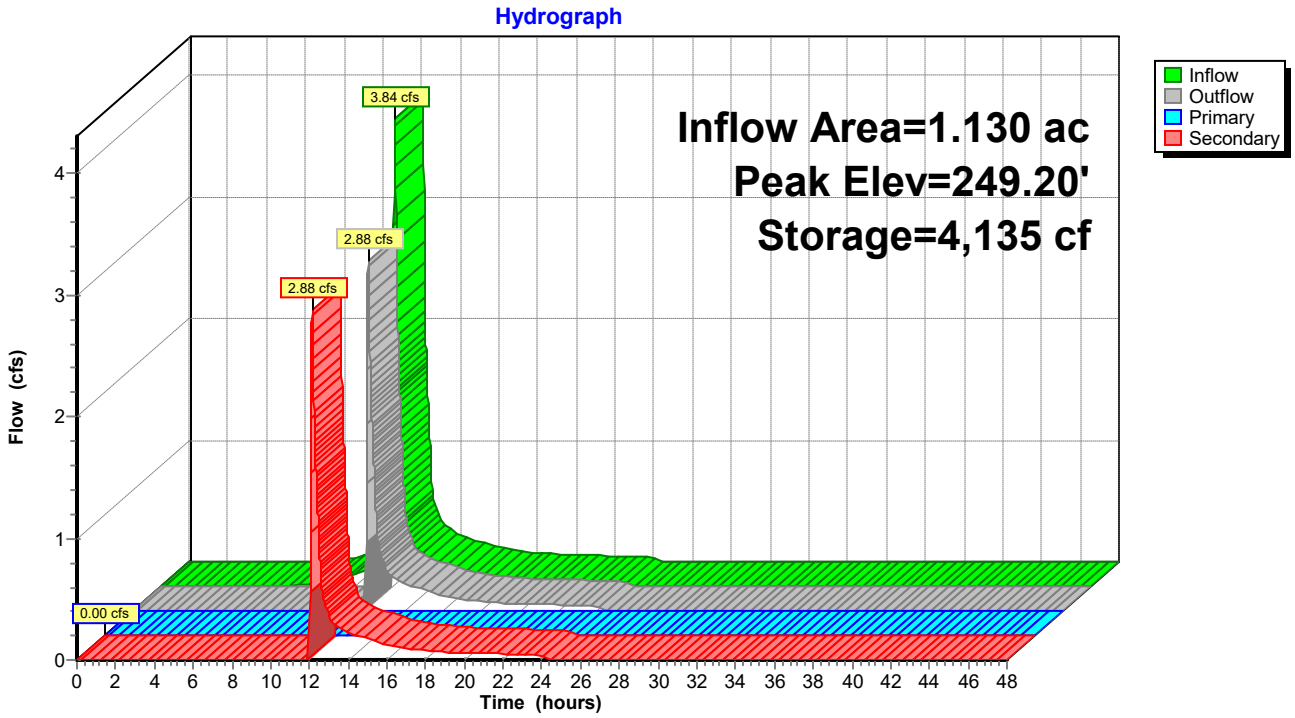
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
247.50	1,749	0	0
248.00	2,141	973	973
249.00	2,968	2,555	3,527
250.00	3,850	3,409	6,936
251.00	4,790	4,320	11,256

Device	Routing	Invert	Outlet Devices
#1	Primary	247.50'	**2.000 in/hr Exfiltration X 0.00 over Surface area above 244.80'** Conductivity to Groundwater Elevation = 244.00' Excluded Surface area = 0 sf
#2	Secondary	249.00'	**143.0 deg x 10.0' long Sharp-Crested Vee/Trap Weir** Cv= 2.47 (C= 3.09)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=247.50' (Free Discharge)
↑**1=Exfiltration** (Controls 0.00 cfs)

Secondary OutFlow Max=2.87 cfs @ 12.14 hrs HW=249.20' (Free Discharge)
↑**2=Sharp-Crested Vee/Trap Weir** (Weir Controls 2.87 cfs @ 1.36 fps)

Pond 1P: UD Filter 1



WORKSHEET FOR EVALUATING STORMWATER BMP's

Taylor Brook House

FILTER DESIGNS

UD Filter 2

Channel Protection Volume	acres:			
Impervious Area	0.18	1" Volume=	653	cf
Developed non-impervious area	0.24	0.4" Volume=	348	cf
		Total Volume=	**1002**	cf

Area Sizing	sq. ft:	
5% of the Impervious Area	392	
2% of the Developed non-impervious Area	209	
Total surface area of the filter media top:	**601**	square feet

Sediment Forebay		
Impervious area to be sanded:	0.18	acres
Sand Application Rate, per storm	500	lbs per acre
Sand Desity, +/-	90	pcf
Number of Storms	10	annually
Forebay Size	**10**	cf

Designed Volume:	1567	cf
Designed Filter Area:	630	sf

Summary for Pond 2P: UD Filter 2

Inflow Area = 0.420 ac, 42.86% Impervious, Inflow Depth = 3.64" for 25-yr event
Inflow = 1.73 cfs @ 12.10 hrs, Volume= 0.127 af
Outflow = 1.14 cfs @ 12.19 hrs, Volume= 0.127 af, Atten= 34%, Lag= 5.8 min
Primary = 0.10 cfs @ 12.19 hrs, Volume= 0.095 af
Secondary = 1.04 cfs @ 12.19 hrs, Volume= 0.032 af

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Peak Elev= 248.60' @ 12.19 hrs Surf.Area= 1,525 sf Storage= 1,719 cf

Plug-Flow detention time= 158.1 min calculated for 0.127 af (100% of inflow)
Center-of-Mass det. time= 158.1 min (966.3 - 808.2)

Volume	Invert	Avail.Storage	Storage Description
#1	247.00'	4,442 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

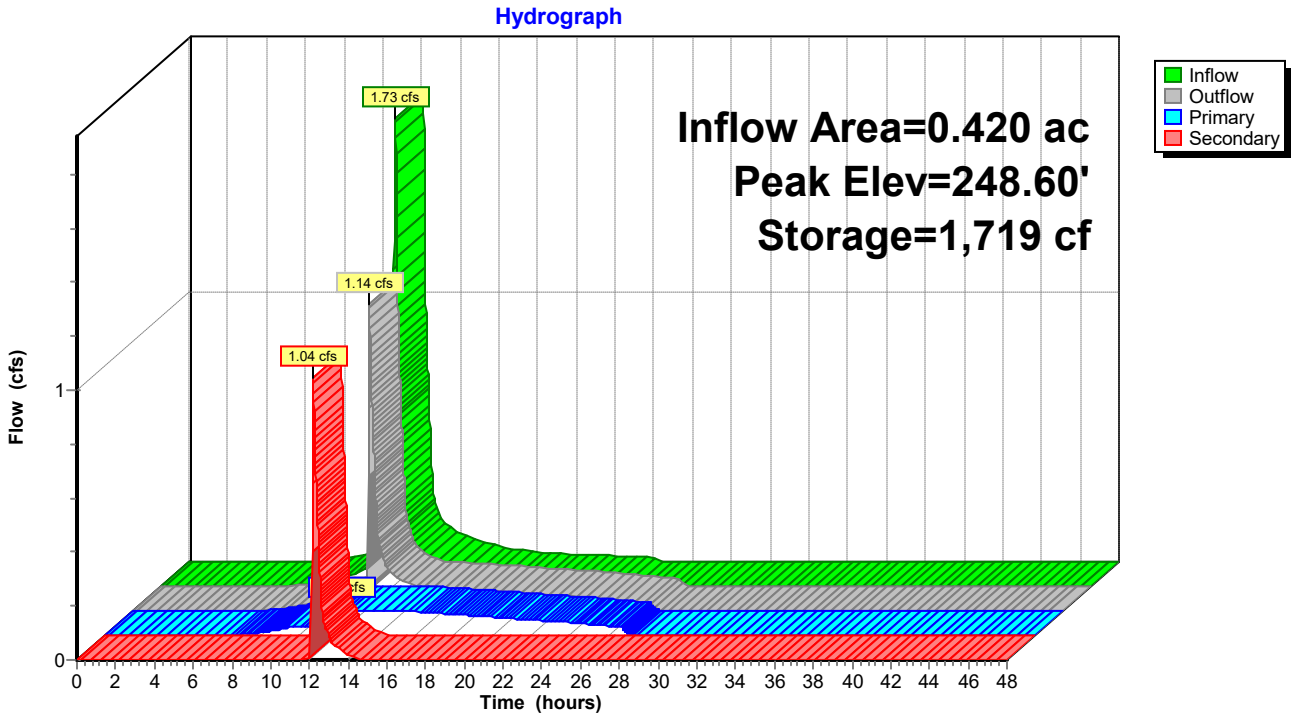
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
247.00	630	0	0
248.00	1,180	905	905
248.50	1,466	662	1,567
249.00	1,757	806	2,372
250.00	2,383	2,070	4,442

Device	Routing	Invert	Outlet Devices
#1	Primary	247.00'	**2.000 in/hr Exfiltration over Surface area above 244.50'** Conductivity to Groundwater Elevation = 244.00' Excluded Surface area = 0 sf
#2	Secondary	248.50'	**143.0 deg x 10.0' long Sharp-Crested Vee/Trap Weir** Cv= 2.47 (C= 3.09)

Primary OutFlow Max=0.10 cfs @ 12.19 hrs HW=248.60' (Free Discharge)
↑**1=Exfiltration** (Controls 0.10 cfs)

Secondary OutFlow Max=1.03 cfs @ 12.19 hrs HW=248.60' (Free Discharge)
↑**2=Sharp-Crested Vee/Trap Weir** (Weir Controls 1.03 cfs @ 0.98 fps)

Pond 2P: UD Filter 2



Summary for Pond 2P: UD Filter 2

Inflow Area = 0.420 ac, 42.86% Impervious, Inflow Depth = 2.64" for 10-yr event
Inflow = 1.26 cfs @ 12.10 hrs, Volume= 0.092 af
Outflow = 0.65 cfs @ 12.26 hrs, Volume= 0.056 af, Atten= 49%, Lag= 9.5 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Secondary = 0.65 cfs @ 12.26 hrs, Volume= 0.056 af

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Peak Elev= 248.57' @ 12.26 hrs Surf.Area= 1,509 sf Storage= 1,677 cf

Plug-Flow detention time= 187.7 min calculated for 0.056 af (61% of inflow)
Center-of-Mass det. time= 82.5 min (899.8 - 817.3)

Volume	Invert	Avail.Storage	Storage Description
#1	247.00'	4,442 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

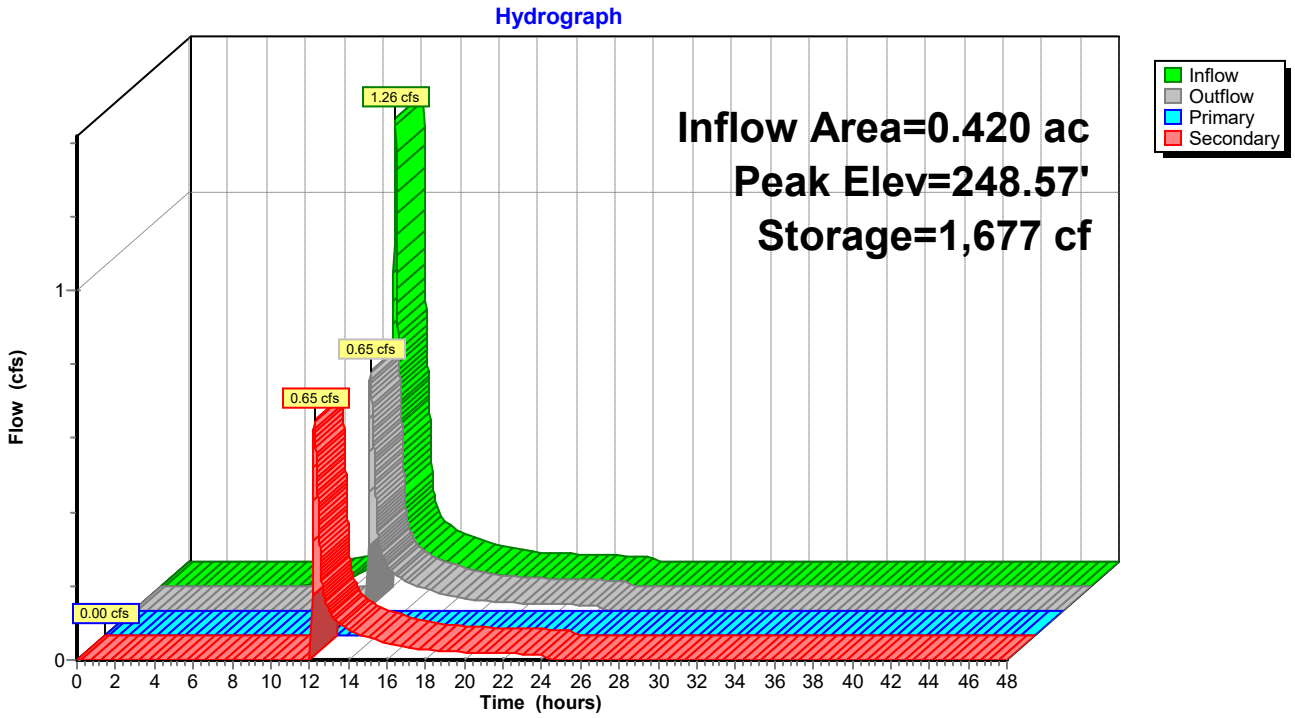
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
247.00	630	0	0
248.00	1,180	905	905
248.50	1,466	662	1,567
249.00	1,757	806	2,372
250.00	2,383	2,070	4,442

Device	Routing	Invert	Outlet Devices
#1	Primary	247.00'	**2.000 in/hr Exfiltration X 0.00 over Surface area above 244.50'** Conductivity to Groundwater Elevation = 244.00' Excluded Surface area = 0 sf
#2	Secondary	248.50'	**143.0 deg x 10.0' long Sharp-Crested Vee/Trap Weir** Cv= 2.47 (C= 3.09)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=247.00' (Free Discharge)
↑**1=Exfiltration** (Controls 0.00 cfs)

Secondary OutFlow Max=0.64 cfs @ 12.26 hrs HW=248.57' (Free Discharge)
↑**2=Sharp-Crested Vee/Trap Weir** (Weir Controls 0.64 cfs @ 0.84 fps)

Pond 2P: UD Filter 2



WORKSHEET FOR EVALUATING STORMWATER BMP's

Taylor Brook House

FILTER DESIGNS

Rain Garden 3 (Bioretention Filter)

Channel Protection Volume	acres:		
Impervious Area	0.04	1" Volume=	145 cf
Developed non-impervious area	0.40	0.4" Volume=	581 cf
		Total Volume=	**726** cf

Area Sizing	sq. ft:	
7% of the Impervious Area	122	
3% of the Developed non-impervious Area	523	
Total surface area of the filter media top:	**645**	square feet

Sediment Forebay		
Impervious area to be sanded:	0.04	acres
Sand Application Rate, per storm	500	lbs per acre
Sand Desity, +/-	90	pcf
Number of Storms	10	annually
Forebay Size	**2**	cf

Designed Volume:	767	cf
Designed Filter Area:	1341	sf

Summary for Pond 3P: Bioretention Filter

Inflow Area = 0.440 ac, 9.09% Impervious, Inflow Depth = 1.97" for 10-yr event
Inflow = 0.93 cfs @ 12.12 hrs, Volume= 0.072 af
Outflow = 0.69 cfs @ 12.21 hrs, Volume= 0.055 af, Atten= 27%, Lag= 5.6 min
Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af
Secondary = 0.69 cfs @ 12.21 hrs, Volume= 0.055 af

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Peak Elev= 250.08' @ 12.21 hrs Surf.Area= 1,788 sf Storage= 903 cf

Plug-Flow detention time= 139.3 min calculated for 0.055 af (76% of inflow)
Center-of-Mass det. time= 50.5 min (892.2 - 841.7)

Volume	Invert	Avail.Storage	Storage Description
#1	249.50'	2,897 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

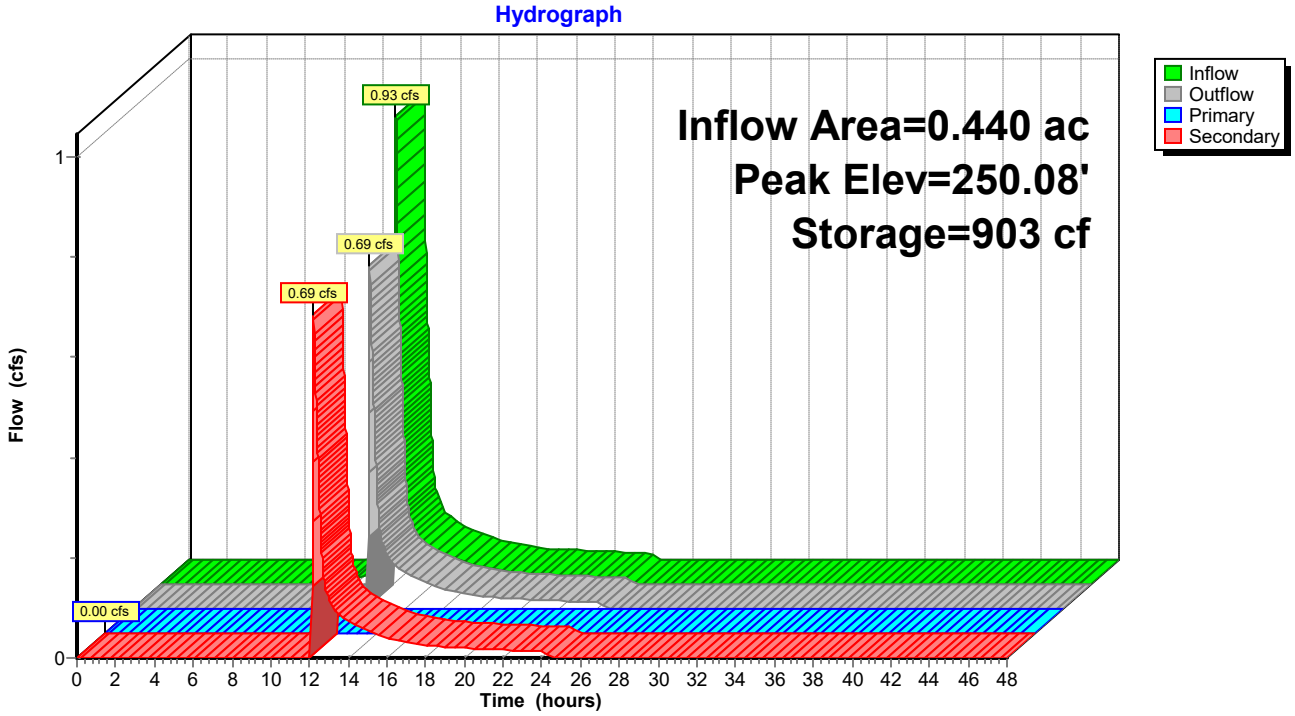
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
249.50	1,341	0	0
250.00	1,725	767	767
251.00	2,536	2,131	2,897

Device	Routing	Invert	Outlet Devices
#1	Secondary	250.00'	**143.0 deg x 10.0' long Sharp-Crested Vee/Trap Weir** Cv= 2.47 (C= 3.09)
#2	Primary	249.50'	**2.000 in/hr Exfiltration X 0.00 over Surface area above 247.00'** Excluded Surface area = 0 sf

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=249.50' (Free Discharge)
↑—**2=Exfiltration** (Controls 0.00 cfs)

Secondary OutFlow Max=0.68 cfs @ 12.21 hrs HW=250.08' (Free Discharge)
↑—**1=Sharp-Crested Vee/Trap Weir** (Weir Controls 0.68 cfs @ 0.86 fps)

Pond 3P: Bioretention Filter



Summary for Pond 3P: Bioretention Filter

Inflow Area = 0.440 ac, 9.09% Impervious, Inflow Depth = 2.87" for 25-yr event
Inflow = 1.37 cfs @ 12.12 hrs, Volume= 0.105 af
Outflow = 1.11 cfs @ 12.19 hrs, Volume= 0.105 af, Atten= 19%, Lag= 4.3 min
Primary = 0.08 cfs @ 12.19 hrs, Volume= 0.071 af
Secondary = 1.02 cfs @ 12.19 hrs, Volume= 0.034 af

Routing by Stor-Ind method, Time Span= 0.00-48.00 hrs, dt= 0.01 hrs
Peak Elev= 250.10' @ 12.19 hrs Surf.Area= 1,807 sf Storage= 946 cf

Plug-Flow detention time= 68.1 min calculated for 0.105 af (100% of inflow)
Center-of-Mass det. time= 68.1 min (898.9 - 830.8)

Volume	Invert	Avail.Storage	Storage Description
#1	249.50'	2,897 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

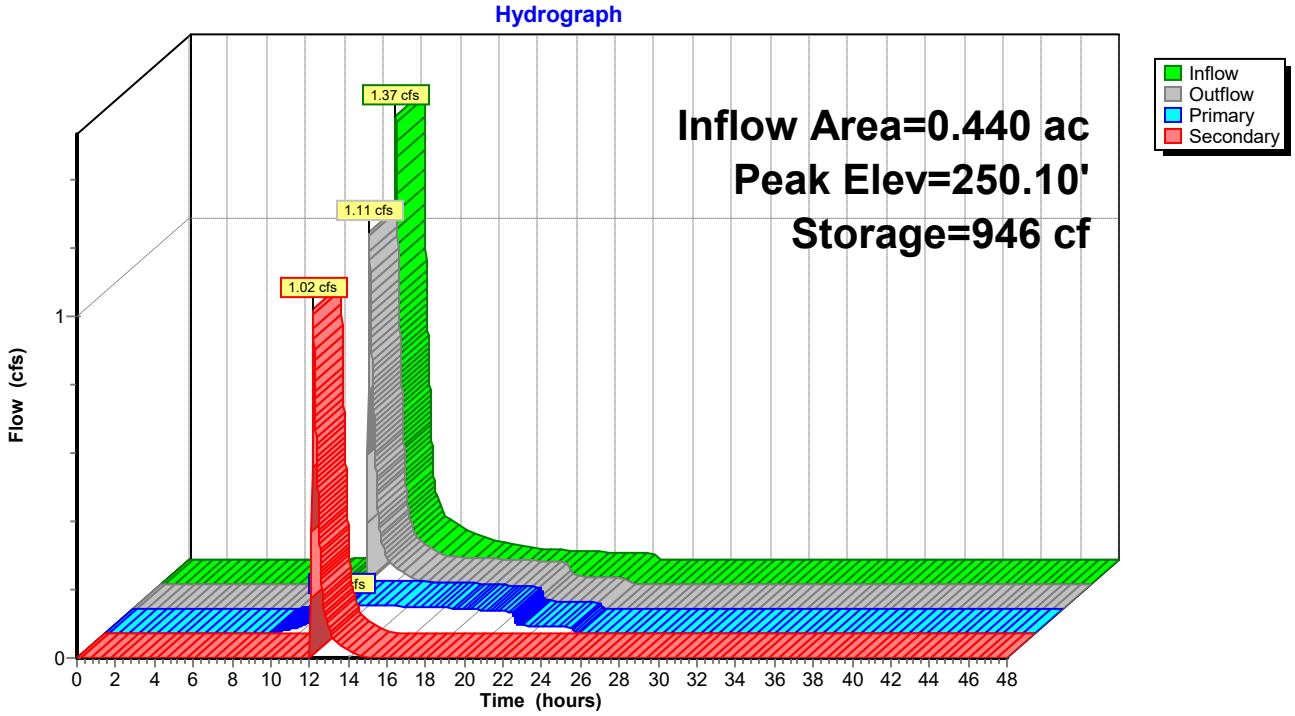
Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
249.50	1,341	0	0
250.00	1,725	767	767
251.00	2,536	2,131	2,897

Device	Routing	Invert	Outlet Devices
#1	Secondary	250.00'	**143.0 deg x 10.0' long Sharp-Crested Vee/Trap Weir** Cv= 2.47 (C= 3.09)
#2	Primary	249.50'	**2.000 in/hr Exfiltration over Surface area above 247.00'** Excluded Surface area = 0 sf

Primary OutFlow Max=0.08 cfs @ 12.19 hrs HW=250.10' (Free Discharge)
↑—**2=Exfiltration** (Exfiltration Controls 0.08 cfs)

Secondary OutFlow Max=1.02 cfs @ 12.19 hrs HW=250.10' (Free Discharge)
↑—**1=Sharp-Crested Vee/Trap Weir** (Weir Controls 1.02 cfs @ 0.98 fps)

Pond 3P: Bioretention Filter



Dripline Filter Sizing

Building/Subcatchment	Area of Roof, (S.F.)	Volume of runoff	Media Volume	Filter Length	Width of Filter	Area of Filter	Depth BMP Standard (Feet)	Design Depth of Stone (Inches)
Building Dripstrip (around building & covered entrances)	14169	1180.75	2951.88	863	5	4315	0.68	12

Porosity of stone	40%	
Note: Filter sized to treat first 1" of rainfall		
1 inch of rain	0.08	ft

EROSION AND SEDIMENTATION CONTROL PLAN

Taylor Brook House
Hotel Road, Auburn, Maine

Prepared By:

MAIN-LAND DEVELOPMENT CONSULTANTS, INC.
Livermore Falls, Maine
March 3, 2023

1. INTRODUCTION:

"A person who conducts, or causes to be conducted, an activity that involves filling, displacing or exposing soil or other earthen materials shall take measures to prevent unreasonable erosion of soil or sediment beyond the project site or into a protected natural resource as defined in 38 M.R.S.A. §480-B. Sediment control measures must be in place before the activity begins. Measures must remain in place and functional until the site is permanently stabilized. Adequate and timely temporary and permanent stabilization measures must be taken." – Maine DEP Chapter 500 Rules, Appendix A.

This Plan has been developed to insure that construction activities on this project site utilize sound erosion and sedimentation control measures. These measures will prevent or reduce the potential for the deposition of sediments down stream of site. The methods of control consist of preventive measures and remedial measures. Preventive measures are aimed at keeping the soils in their present location through mulching and through the reestablishment of vegetation. Remedial measures deal with the trapping and/or filtering of sediment laden stormwater run-off. Both types of measures will be utilized on this project.

The Erosion and Sedimentation Control Plan is best broken down into Temporary Measures, Winter Stabilization, and Permanent Measures.

2. TEMPORARY EROSION CONTROL:

Temporary control measures may consist of a combination of measures where appropriate and/or as shown on the plans.

A. Sediment Filter Berms:

Sediment Filter Berms are the preferred filtering device, but may not be used in wetland areas. The berms shall be placed down slope of all earth moving activities, where water from these disturbed areas will run off. These berms will be placed along an even contour, be at least 24 inches tall, and 3 feet wide at the base. Turn the ends of the berm up-grade to avoid runoff flowing around the berm. In areas of high erosion potential, the berm will be backed by hay bales or silt fencing, as shown on the filter berm detail.

B. Silt Fencing:

Silt fencing may be used in place of, or together with, the sediment filter barriers. The silt

fencing will also be anchored at least four inches into the ground and placed along an even contour. Turn the ends of the fence up-grade to avoid runoff flowing around the fence. During frozen conditions, furnish and install Sediment Filter Berms in lieu of silt fencing or hay bales if frozen soil prevents the proper installation of silt fences and hay bales.

C. Stone Check dams:

Stone check dams shall be placed in the center of ditches immediately following excavation to provide a means of trapping sediments. (If the ditch has been immediately armored with rip-rap, check dams are not necessary.) The dams shall consist of small stone placed across the ditch, with a depression at the top of the dam to allow water over the top of the dam, should it become clogged with sediment. See the specifications on the Typical Details Plan for construction details of this measure.

D. Temporary Mulch:

Temporary mulch shall be placed on all disturbed areas where seeding, construction or stabilization activities will not take place for over 7 consecutive days. Temporary mulch will also be placed on areas within 75 feet of a natural resource (wetland, stream, etc.) where seeding will not take place for over 48 hours, and on all bare soils outside the road base prior to any predicted significant rain event. A significant rain event is considered to be at least ½ inch of rain or more. Temporary mulch may be hay and shall be applied at a rate of two bales per 1,000 square feet. Soil must not be visible upon completion of application, regardless of rate of application.

E. Topsoil Stockpiles:

Topsoil, removed as part of the construction, will be stockpiled on site for use in areas to be re-vegetated. The location of topsoil stockpiles must not be within 75 feet of a defined natural resource (wetland, stream, etc.), or within 75 feet of a swale or ditch.

Stockpiles shall be mulched with hay at two bales per 1,000 square feet. The area down slope from any stockpile areas will be protected by a sediment filter berm or silt fence placed directly below or down gradient from the stockpile. If the stockpile must be left for more than 30 days, the pile will be seeded with rye grass at a rate of two pounds per 1,000 square feet and mulched in accordance with this paragraph.

F. Catch Basins.

Catch basin inlets must be protected with a sediment trap until contributing areas, including paved and grassed island areas, are fully stabilized with pavement or grass. Temporary sediment traps shall be Dandy Bags or approved equal, with appropriate overflow slots. Geotextile cut to fit under the catch basin grate shall not be acceptable.

G. Maintenance of Temporary Measures:

All temporary measures described above shall be inspected weekly and before/after every significant storm event (1/2 inch of rain or greater) throughout the construction of the project. Repairs or replacements of temporary measures will be made as necessary. Once the site is stable, all temporary devices such as hay bale barriers and silt fencing will be removed.

A log shall be kept summarizing the inspections and any corrective action taken. The log must include the name(s) and qualifications of the person making the inspections, the date(s) of the inspections, and major observations about the operation and maintenance of erosion and sedimentation controls, materials storage areas, and vehicles access points to the parcel. Major observations must include BMPs that need maintenance, BMPs that failed to operate as designed or proved inadequate for a particular location, and location(s) where additional BMPs are needed. For each BMP requiring maintenance, BMP needing replacement, and location needing additional BMPs, note in the log the corrective action taken and when it was taken.

The log must be made accessible to department staff and a copy must be provided upon request. The permittee shall retain a copy of the log for a period of at least three years from the completion of permanent stabilization.

3. WINTER STABILIZATION:

The winter construction period is from November 1 through April 15. If the construction site is not stabilized with a combination of pavement, a road gravel base, 90% mature vegetation cover or riprap by November 1 then the site needs to be protected with winter stabilization.

Winter excavation and earthwork shall be completed such that no more than 1 acre of the site is denuded at any one time. Limit the exposed area to those areas in which work is expected to be under taken during the following 15 days. Exposed area shall not be so large that it cannot be mulched in one day prior to any snow event.

Areas shall be considered to be denuded until the subbase gravel is installed in roadway areas or the areas of future loam and seed have been loamed and mulched. Hay and straw mulch rate shall be a minimum of 200 lbs./1,000 s.f. (3 tons/acre) and shall be properly anchored.

The contractor must install any added measures which may be necessary to control erosion/sedimentation from the site dependent upon the actual site and weather conditions.

Continuation of earthwork operations on additional areas shall not begin until the exposed soil surface on the area being worked has been stabilized, in order to minimize areas without erosion control protection.

1. Soil Stockpiles

   Stockpiles of soil or subsoil will be mulched for over winter protection with hay or straw at twice the normal rate or at 200 lbs/1,000 s.f. (3 tons per acre) or with a four-inch layer of woodwaste erosion control mix. This will be done within 24 hours of stocking and re-established prior to any rainfall or snowfall.

   Any new soil stockpile will not be placed (even covered with hay or straw) within 100 feet of any natural resources.

2. Natural Resource Protection

   Any areas within 100 feet from any natural resources, if not stabilized with a minimum of 90 % mature vegetation catch, shall be mulched by December 1 and anchored with plastic netting or protected with erosion control mats.

   During winter construction, a double line of sediment barriers (i.e. silt fence backed with hay bales or erosion control mix) will be placed between any natural resource and the disturbed area. Silt fencing may not be placed on frozen ground.

   Projects crossing the natural resource shall be protected a minimum distance of 100 feet on either side from the resource. Existing projects not stabilized by December 1 shall be protected with the second line of sediment barrier to ensure functionality during the spring thaw and rains.

3. Mulching

   Areas shall be considered denuded until loamed, seeded and mulched. Hay and straw mulch shall be applied at a rate of 200 lb. per 1.000 square feet or 3 tons/acre (twice the normal accepted rate) and shall be properly anchored. Mulch shall not be spread on top of snow. The snow will be removed down to a one-inch depth or less prior to application.

   An area shall be considered stabilized when exposed surfaces have been either mulched with straw or hay at a rate of 200 lb. per 1,000 square feet and adequately anchored, such that the ground surface is not visible though the mulch.

   Between the dates of November 1 and April 15, all mulch shall be anchored by either peg line, mulch netting, or wood cellulose fiber. The ground surface shall

not be visible though the mulch.

After November 1th, mulch and anchoring of all bare soil shall occur at the end of each final grading work day.

4. Mulching on Slopes and Ditches

Slopes shall not be left exposed for more than 7 days unless fully mulched and anchored. Slopes within 75 feet of a natural resource shall not be left exposed for more than 48 hours. Mulching shall be applied at a rate of 300 lbs/1,000 sq ft on all slopes greater than 8%. Erosion Control mesh shall be used to anchor mulch in all drainage ways and ditches, for slopes exposed to direct winds, and for all other slopes greater that 8 %. Erosion control blanket and check dams (or permanent Rip-Rap) shall be used in lieu of mulch in all drainage ways with slopes of 8 % or more.

A six inch layer of erosion control mix can be used to substitute erosion control blankets on all slopes except ditches.

5. Seeding

Between the dates of October 15 and April 1st, loam or seed will not be required. During periods of above freezing temperatures, finished areas shall be fine graded and either protected with mulch or temporarily seeded (see table below) and mulched until such time as the final treatment can be applied. If after November 1st the exposed area has been final graded and loamed, then the area may be dormant seeded at a rate of 3 times higher than specified for permanent seed and then mulched.

TEMPORARY SEED MIX

TYPE	% BY WEIGHT	% PURITY	% GERMINATION
Domestic Rye Grass	60	69.75	90
Perennial Rye Grass	20	28.00	85
Aroostook Rye Grass	20	28.00	85

Dormant seeding may be placed prior to the placement of mulch and fabric netting anchored with staples.

If dormant seeding is used for the site, all disturbed areas shall receive 4” of loam and seed at an application rate of 5lbs/1000 s.f. All areas seeded during the winter

will be inspected in the spring for adequate catch. Areas not sufficiently vegetated (less than 90 % catch) shall be revegetated by replacing loam, seed and mulch.

If dormant seeding is not used, all disturbed areas shall be revegetated in the spring.

6. Trench Dewatering and Temporary Stream Diversion

Water from construction trench dewatering or temporary stream diversion will pass first through a filter bag or secondary containment structure (e.g. hay bale lined pool) prior to discharge. The discharge site shall be selected to avoid flooding, icing, and sediment discharges to a protected resource. In no case shall the filter bag or containment structure be located within 100 feet of a protected natural resource.

7. Inspection and Monitoring

Maintenance measures shall be applied as needed during the entire construction season. After each rainfall, snow storm or period of thawing and runoff, the site contractor shall perform a visual inspection of all installed erosion control measures and perform repairs as needed to insure their continuous function.

In the spring, following the temporary/final seeding and mulching, the contractor shall inspect and repair any damages and/ or un-established spots. Established vegetative cover means a minimum of 90 % of areas vegetated with vigorous growth.

8. Standard for the timely stabilization of ditches and channels

All stone-lined ditches and channels shall be constructed and stabilized by November 1. All grass-lined ditches and channels shall be constructed and stabilized by September 1. Failure to stabilize a ditch or channel to be grass-lined by September 1, will require one of the following actions to stabilize the ditch for late fall and winter.

Install a sod lining in the ditch – Sod lining shall be installed in ditches by October 1. Proper installation includes pinning the sod onto the soil with wire pins, rolling the sod to guarantee contact between the sod and underlying soil, watering the sod to promote root growth into the disturbed soil, and anchoring the sod with jute or plastic mesh to prevent the sod strips from sloughing during flow conditions.

Install a stone lining in the ditch –Ditches shall be lined with stone riprap by November 1, as presented below. If necessary, the applicant will regrade the

ditch prior to placing the stone lining so to prevent the stone lining from reducing the ditch's cross-sectional area.

9. Standard for the timely stabilization of disturbed slopes

Construct and stabilize stone-covered slopes by November 1. The applicant will Seed and mulch all slopes to be vegetated by September 1. Slopes will be considered any area having a grade greater than 15% (6H:1V). If the applicant fails to stabilize any slope to be vegetated by September 1, then the applicant will take one of the following actions to stabilize the slope for late fall and winter.

Stabilize the soil with temporary vegetation and erosion control mats -- Seed the disturbed slope with winter rye at a seeding rate of 3 pounds per 1000 square feet and apply erosion control mats over the mulched slope October 1. The applicant will monitor growth of the rye over the next 30 days. If the rye fails to grow at least three inches or cover at least 90% of the disturbed slope by November 1, cover the slope with a layer of wood waste compost or with stone riprap as described below.

Stabilize the slope with sod -- Stabilize the disturbed slope with properly installed sod by October 1. Proper installation includes pinning the sod onto the slope with wire pins, rolling the sod to guarantee contact between the sod and underlying soil, and watering the sod to promote root growth into the disturbed soil. Sod stabilization shall not be used late-season to stabilize slopes having a grade greater than 33% (3H:1V).

Stabilize the slope with wood waste compost (erosion control mix) --Place a six-inch layer of wood waste compost on the slope by November 1. Prior to placing the wood waste compost, remove any snow accumulation on the disturbed slope. Wood waste compost will not be used to stabilize slopes having grades greater than 50% (2H:1V) or having groundwater seeps on the slope face.

Stabilize the slope with stone riprap -- Place a layer of stone riprap on the slope by November 1, similar to the Stone Lined Ditch the permanent erosion control section.

10. Standard for the timely stabilization of disturbed soils

Seed and mulch all disturbed soils on areas having a slope less than 15% by September 1. Failure to stabilize these soils by this date will require one of the following actions to stabilize the soil for late fall and winter.

Stabilize the soil with temporary vegetation -- Seed the disturbed soil with winter rye at a seeding rate of 3 pounds per 1000 square feet, lightly mulch the seeded soil with hay or straw at 75 pounds per 1000 square feet, and anchor the mulch with plastic netting by October 1. Growth of the rye will require monitoring over the following 30 days. If the rye fails to grow at least three inches or cover at least 75% of the disturbed soil before November 1, then mulch the area for over-winter protection as described below.

Stabilize the soil with sod -- Stabilize the disturbed soil with properly installed sod by October 1. Proper installation includes pinning the sod onto the soil with wire pins, rolling the sod to guarantee contact between the sod and underlying soil, and watering the sod to promote root growth into the disturbed soil.

Stabilize the soil with mulch -- Mulch the disturbed soil by spreading hay or straw at a rate of at least 150 pounds per 1000 square feet on the area so that no soil is visible through the mulch by November 1. Prior to applying the mulch, remove any snow accumulation on the disturbed area. Immediately after applying the mulch, anchor the mulch with plastic netting to prevent wind from moving the mulch off the disturbed soil.

4. PERMANENT EROSION CONTROL:

Permanent measures will consist of the placement of culverts; culvert inlet/outlet stabilization; the construction of grass/stone lined ditches; and the re-vegetation of all areas outside the traveled way of the road, and those areas designated as stone lined ditches.

A. Culverts:

All culverts have been sized to handle the peak flows generated by a 25-year, 24-hour rain storm. The locations and sizes of the culverts are shown on the Site Plans.

The inlets and outlets of the culverts will be armored with riprap to prevent scouring. This armoring will consist of placing stone possessing a D50 of 6 inches to a depth of 18 inches to the following dimensions: width equal to twice the diameter of the culvert; length equal to three times the diameter of the culvert, unless noted otherwise.

B. Ditches:

Ditches on the project have been designed based on expected flow rates and velocities for the 25-year, 24-hour storm event and the slope of the ditch. Where water velocities are expected to exceed 3.5 feet per second, the ditch has been designed to be stone lined. Ditches with water velocities of less than 3.5 feet per second have been designed to be grass lined.

Stone Lined Ditches:

Stone lined ditches will first be lined with a non-woven filter fabric, and then lined with riprap possessing a D50 of approximately 6 inches in diameter. This means that approximately half the stones by weight will be smaller than 6 inches and half will be larger. The minimum stone size should be 1 inch with the largest stone being 9 inches in diameter. The depth of stone in the ditch should average 15 inches.

The final shape of the ditch will consist of the following dimensions: a bottom width of two feet; side slopes possessing a 3:1 horizontal to vertical; and a total depth of 2 feet.

In lieu of stone rip-rap, the ditch may be lined with a permanent erosion control blanket, such as North American Green P300 or approved equal.

Grass Lined Ditches:

Grass lined ditches will possess the same final dimensions as the stone lined ditches. The flow area of the ditch will be armored by placing a biodegradable matting or netting (such as American Excelsior Curlex Blanket or equal) in the bottom of the ditch. Placement of this material must take place after seeding. Install according to the manufacturers' recommendations.

Seeding and mulching of grass lined ditches will follow the specifications stated below for re-vegetation.

C. Re-vegetation Measures:

All areas to be permanently re-vegetated with grass will first be covered with loam and then fertilized.

Loam will be placed on all areas to be re-vegetated. Loam will be placed to a minimum depth of 4 inches. Loam will be the stockpiled topsoil, if possible.

Test the loam samples for nutrients at a proficient testing laboratory (The University of Maine provides this service). The areas with loam will then be fertilized with the recommended application rate. Lime will also be applied at a rate of 50 pounds per 1,000 square feet. Both the lime and the fertilizer will be mixed thoroughly with the soil.

All areas to be re-vegetated with permanent grass are to be seeded with the seed mix shown on the table below. This mixture will be applied at a rate of 2 pounds per 1,000

square feet.

General Lawn Areas	Chewing Fescue "Dignity"	35%
	Pennlawn Creeping Red Fescue	35%
	Perennial Rye "Tourstar" (Nutrite)	30%

Mulch will then be spread on all seeded areas at a rate of two bales per 1,000 square feet. Regardless of application rate the soil shall not be visible through the mulch.

Seed and mulch will be placed within five days of final grading of topsoil.

Seeded areas will be inspected after 30 days to determine the success of the seeding. If the ground cover is less than 90%, the area will be reseeded.

D. Critical Areas:

Slopes in excess of 15% will require the placement of a biodegradable netting or matting over the mulch and seed (if the netting has no mulch in it). If stabilization is to take place after October 1, slopes over 8% will be treated with the matting.

E. Maintenance of Permanent Measures:

All measures will be inspected weekly and before and after every significant storm event during construction, and then at least once annually to insure proper function. Any damaged areas will be repaired or replaced as necessary. Any ditches or culverts not functioning as designed will be redesigned and reconstructed according to specifications prepared by a Professional Engineer.

In any event, seeding should take place either between May 1 and June 15, or August 15 and September 1.

HOUSEKEEPING PLAN

Taylor Brook House
Auburn, Maine

Prepared by:

MAIN-LAND DEVELOPMENT CONSULTANTS, INC.
P.O. Box Q, Livermore Falls, Maine

March 3, 2023

The purpose of this Plan is to ensure construction activities protect against and do not create or result in materials that could become a source of pollution. These standards apply to spill prevention, groundwater protection, sediment and dust, debris and other materials, excavation de-watering, authorized non-stormwater discharges and unauthorized non-stormwater discharges.

Spill Prevention:

A SPCC plan is unnecessary. No hazardous materials will be stored on site. The site will primarily be utilized for parking, loading/unloading and storage of non-hazardous material.

Groundwater Protection:

No stormwater infiltration areas are proposed on this site. Additionally, the site is not located over a Significant Sand and Gravel Aquifer.

Fugitive Sediment and Dust:

A stabilized construction exit will be maintained for the duration of construction to minimize the tracking of mud and sediment off site. Application of water will be utilized for dust prevention during construction. Application of other chemicals to reduce dust shall not be allowed without Maine DEP approval due to the Taylor Brook watershed.

Debris and Other Materials:

Construction debris shall be contained within roll-off dumpsters and hauled to a licensed waste facility. The site shall be kept in a tidy condition, free of trash and litter.

Excavation De-Watering:

If excavation dewatering is warranted, discharge of water from the excavation shall be through an approved filter as noted in the Erosion and Sedimentation Control Plan. The

discharge shall be at minimum 100 feet from Taylor Brook and allow flow through a vegetated area prior to confluence with wetland or stream flows.

Authorized Non-Stormwater Discharges:

There are no authorized non-stormwater discharges existing or proposed for this site.

Unauthorized Non-Stormwater Discharges:

There are no unauthorized non-stormwater discharges existing or proposed for this site.

POST-CONSTRUCTION STORMWATER INSPECTION & MAINTENANCE PLAN

Taylor Brook House
Auburn, Maine

Narrative

The following outlines the proposed BMP's and their required inspection, maintenance, and reporting.

Inspections and maintenance will be the responsibility of the Property Owner/Applicant. Written reports of inspections and maintenance work will be kept to show the work has been completed as proposed. These reports will be kept by the Owner/Applicant, along with other relevant City of Auburn documentation.

Contacts:

Design Engineer:	Esther K. Bizier, P.E. Main-Land Development Consultants, INC P.O. Box Q, 69 Main Street Livermore Falls, Maine 04254
Applicant:	John F. Murphy Homes, Inc. 800 Center Street Auburn, ME 04210
Owner:	John F. Murphy Homes, Inc.

Post Construction Stormwater Inspector:

_____
_____
_____

Contractors:

_____
_____
_____

Inspection

The applicant, John F. Murphy Homes, Inc., is responsible for complying with the City Stormwater Law Permit. The Applicant will be responsible for inspection and maintenance

during construction and post-construction. The Applicant is also responsible for upkeep and compliance post-construction. The development is also subject to State Stormwater Management Law and will be subject to a "Five-year Recertification for Long-Term Maintenance of Stormwater Management Systems" as well as City requirements for stormwater maintenance as a MS4 community.

Purpose

The purpose of this Plan is to ensure proper function of the infrastructure constructed as part of this project. The infrastructure will include the stormwater control devices including but not limited to: drives and parking; catch basins and stormdrains; drainage ditches; Focal Point, filter pond, and detention pond. The tasks detailed in this Plan are the responsibility of the applicant.

Definitions

Significant Period of Rain: 1" or more of rain in a 24-hour period.

Inspection Scope

All areas of the site shall be inspected based on the criteria discussed for each site item or stormwater control measure as found later in the plan. See the Inspection and Maintenance Plan identifying locations of measures requiring inspection. Inspection activities listed herein are to be considered at minimum. Stormwater inspector shall use his or her judgement as to additional inspection or maintenance activities.

Inspection Frequency

Complete site inspections at the frequency listed in the following Inspection Summary.

Inspection Qualifications

For Post-Development Inspections, the qualified post-construction stormwater inspector with knowledge of erosion and stormwater control, including the standards and conditions of the project permit shall be retained by the Applicant.

Inspection/Maintenance Responsibility

It shall be the responsibility of the Applicant to retain the services of a Post-Construction Stormwater Inspector and provide for the repair and maintenance noted by inspections, if any. When maintenance is required by inspection, the Applicant shall perform the required maintenance and/or repairs in a timely fashion and notify the Inspector when the maintenance is complete. The Applicant shall maintain detailed records for the inspections and maintenance performed.

Documentation

Post Construction inspection forms and documentation of corrective actions shall be maintained for at least (5) years.

Inspection and Maintenance Plan

The site will be inspected and maintained according to the following schedule and procedures.

INSPECTION SUMMARY
Taylor Brook House

Inspections of	Schedule
- **Drives & Parking**	Annual
- **Drainage Ditches**	Annual
- **Stormdrains**	Annual
- **Grassed Underdrain Soil Filter 1**	Semi-Annual
- **Grassed Underdrain Soil Filter 2**	Semi-Annual
- **Bioretention Filter/Rain Garden**	Semi-Annual
- **Roof Dripline Filter**	Semi-Annual

Drives & Parking:

Inspection:

The roads will be inspected at least annually to ensure proper function and to ensure structural integrity. This inspection will take place in September. Road inspections will be simple visual inspections, looking at the drive or parking surface for cracking, puddling, sedimentation, heaving, potholing, or other signs of degradation.

Maintenance:

Maintenance will include sweeping and cleanup of sediments and debris, spot corrections when necessary, crack sealing, and eventual resurfacing insure safe drivability and long lifespan. This should be performed once a year at a minimum and shall occur in April or May.

Drainage Ditches:

Inspection:

Inspect drainage ditches annually to look for erosion, obstruction, debris, or damage to erosion armoring, such as rip-rap.

Maintenance:

The drainage ditches shall be re-shaped and re-stabilized if found to be eroding. Accumulated sediment should also be removed from the flow line of the ditch, if it exists.

Storm Drains:

Inspection:

The stormwater collection and conveyance devices will be inspected on an annual basis in April or May of each year. The inspection will include a review of the structural integrity and function of each device, a review of the inlets and outlets storm drains, and a review of the downstream discharge areas of all pipes and channels.

Maintenance:

The inlets and outlets of the culverts and storm drains should be cleaned on a regular basis to ensure that sediment and debris does not discharge downstream or does not clog the pipe.

Grassed Underdrain Soil Filter:

Inspection:

The inspection will include a review of the structural integrity of each device, a review of the inlet and outlet of the pond, and a review of the downstream discharge areas of all pipes and channels. Inspections should include a check for signs of snow storage and prohibited vehicle traffic including ATV's and tractors.

For the first three months after construction, inspect the filter bed monthly to verify the filter bed is draining within 24 - 48 hours. Thereafter, inspect semi-annually in May and October.

Maintenance:

If water ponds on the filter bed surface for more than 72 hours following a rain event, replace the top three inches of filter media. Dispose of clogged filter media soil according to the erosion and sedimentation control plan.

Remove sediments annually in October.

Rain Garden:

Inspection:

The inspection will include a review of the structural integrity of each device, a review of the inlet and outlet of the pond, and a review of the downstream discharge areas of all pipes and channels. Inspections should include a check for signs of snow storage and prohibited vehicle traffic including ATV's and riding lawnmowers or tractors.

For the first three months after construction, inspect the filter bed monthly to verify the filter bed is draining within 24 - 48 hours. Thereafter, inspect semi-annually in May and October.

Maintenance:

If water ponds on the filter bed surface for more than 72 hours following a rain event, replace the top three inches of filter media. Dispose of clogged filter media soil according to the erosion and sedimentation control plan.

Mulch should be removed and replaced with a 2 to 3 inch layer of fresh mulch annually or as needed.

Fertilization of the filter area should be avoided unless absolutely necessary to establish vegetation. Pruning of excessive growth and weeding to control unwanted or invasive

plants shall be done yearly. Maintaining a healthy vegetative cover will minimize clogging.

Remove sediments annually in October.

Filters with grass surfaces shall be mowed no more than twice per growing season using a push mower or weed whacker to maintain a grass height of no less than 6 inches.

Roof Dripline Filter:

Inspection:

The inspection will include a visual review of the structural integrity of each device, the outlet, and a review of the downstream discharge areas to ensure they are stable. During inspection ensure no paving or any alterations have been made to the filter and that no gutters have been installed on the roof line.

Maintenance:

Keep the stone reservoir surface clean and free of debris. Surface shall be cleaned at least once annually in October to ensure leaf litter is removed. If water begins to pond on the reservoir course, replace layer of stone and the top three inches of the filter layer if clogged.

RE-CERTIFICATION

Within three months of the 5-year anniversary of the permit date of issuance, and every 5-year anniversary, thereafter, submit a certification to the City of Auburn that contains:

- A statement that the site has been inspected for erosion problems and such problem areas have been appropriately repaired and permanently stabilized.
- A statement that all aspects of the stormwater management system have been inspected for damage, wear, and malfunction, and appropriate steps have been taken to repair or replace the system.
- A statement that the erosion control plan and the stormwater management plan are being implemented as written, approved, and amended (if applicable) by City of Auburn.

INSPECTION AND MAINTENANCE LOG
Taylor Brook House
Post Construction Stormwater
Inspection & Maintenance Log

Date of Inspection: _____
Inspected by: _____

Purpose of Inspection: Monthly, Yearly, Significant Rainfall (circle one)

Drives & Parking

Description of Conditions:
_____
_____
_____
_____

Maintenance & Date of Repairs:
_____
_____
_____
_____

Follow Up Needed:
_____
_____
_____
_____

Drainage Ditches

Description of Conditions:

Maintenance & Date of Repairs:

Follow Up Needed/Additional Comments:

Culverts

Description of Conditions:

Maintenance & Date of Repairs:

Sediment Inspection & Removal:

Date & Contractor for Sump Cleaning:

Follow Up Needed/Additional Comments:

Roof Dripline Filter

Description of Conditions:

Maintenance & Date of Repairs:

Sediment Inspection & Removal:

Date & Contractor Cleaning:

Follow Up Needed/Additional Comments:

Grassed Underdrain Soil Filter

Description of Conditions:

Maintenance & Date of Repairs:

Sediment Inspection & Removal:

Date & Contractor for Sump Cleaning:

Follow Up Needed/Additional Comments:

Bioretention Filter

Description of Conditions:

Maintenance & Date of Repairs:

Sediment Inspection & Removal:

Date & Contractor for Sump Cleaning:

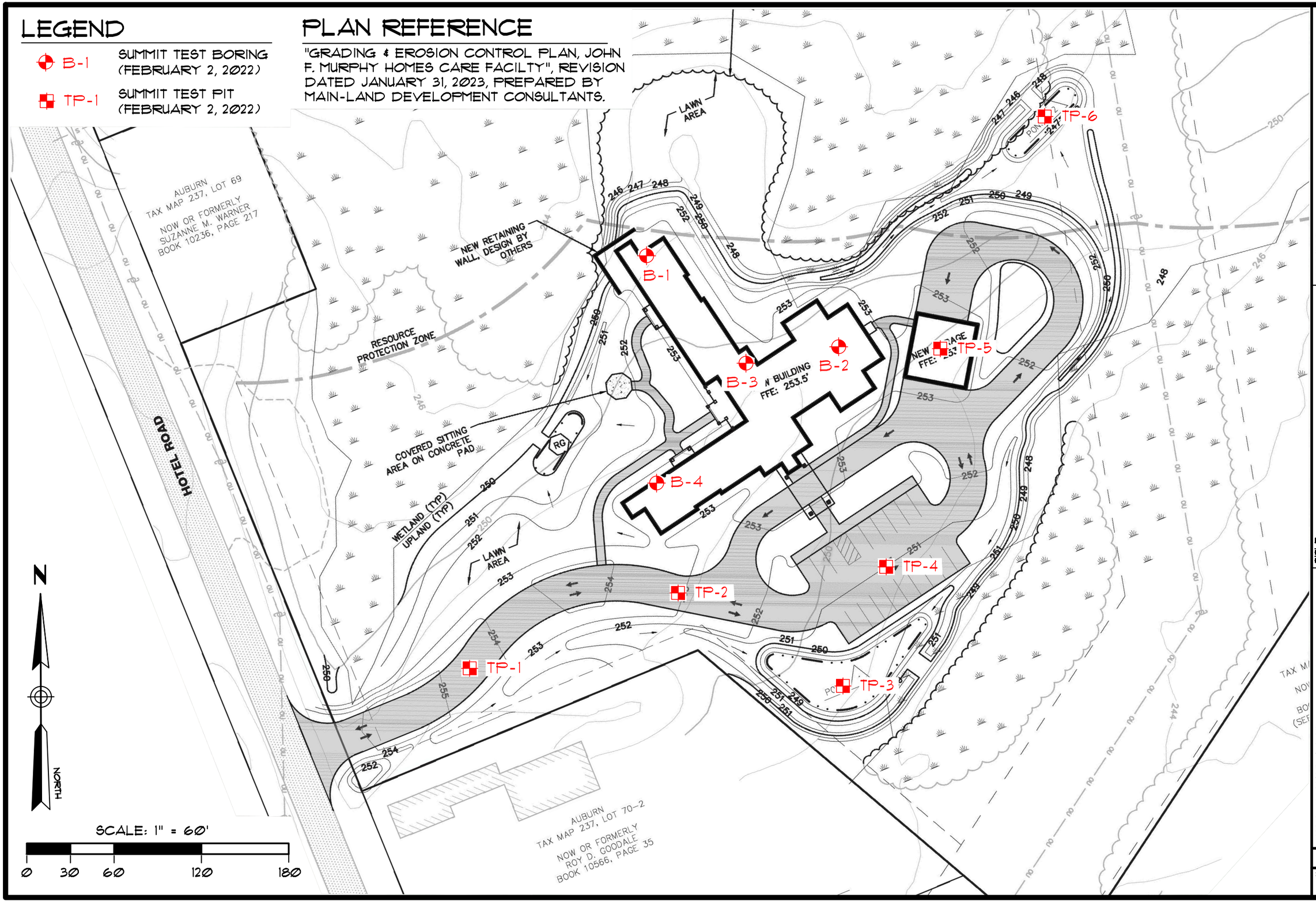
Follow Up Needed/Additional Comments:

LEGEND

- B-1 — SUMMIT TEST BORING (FEBRUARY 2, 2022)
- TP-1 — SUMMIT TEST PIT (FEBRUARY 2, 2022)

PLAN REFERENCE

"GRADING & EROSION CONTROL PLAN, JOHN F. MURPHY HOMES CARE FACILTY", REVISION DATED JANUARY 31, 2023, PREPARED BY MAIN-LAND DEVELOPMENT CONSULTANTS.



PROJECT: JFMH CONGREGATE CENTER
HOTEL ROAD - AUBURN, MAINE

CLIENT: STONEYBROOK LAND USE, INC.

TITLE: EXPLORATION LOCATION PLAN

SCALE: 1" = 60'

DRAWN BY: KRF

APPR. BY: CMP

DATE: FEB. 3, 2023

SUMMIT GEOENGINEERING SERVICES
MAIL: P.O. BOX 515 GARDINER, ME 04345
OFFICE: 210 MAINE AVENUE FARMINGDALE, MAINE
TEL.: (207) 588-7579

PROJ.#: 22339

FIGURE: 1

SUMMIT GEOENGINEERING SERVICES

SOIL BORING LOG

Boring #: **B-1**

Project:	Proposed Building	Project #:	22339
Location:	Hotel Road	Sheet:	1 of 1
City, State:	Auburn, ME	Chkd by:	WMP

Drilling Co:	Summit Geoengineering Services, Inc.	Boring Elevation	248 ft +/-
Driller:	S. Floyd	Reference:	Grading & Erosion Control, Main-Land Development, 1/31/23
Summit Staff:	C. Plante, EI	Date started:	2/2/2023 Date Completed: 2/2/2023

DRILLING METHOD		SAMPLER	
Vehicle:	AMS PP	Length:	24" SS
Model:	9500 VTR	Diameter:	2"OD/1.5"ID
Method:	3" Casing	Hammer:	140 lb
Hammer Style:	Automatic	Method:	ASTM D1586

ESTIMATED GROUND WATER DEPTH

Date	Depth	Elevation	Reference
2/2/2023	10 ft	238.0 ft +/-	Estimated in spoon samples

Depth (ft.)	No.	Pen/Rec (in)	Depth (ft)	blows/6"	Elev. (ft.)	SAMPLE DESCRIPTION	Geological/ Test Data	Geological Stratum
	S-1	24/7	0-2	WH	247.5	Brown fine Sandy SILT, many leaves & roots, ML		TOPSOIL
1				1		Olive brown fine Sandy SILT, some to little Clay, soft,		
				1		wet, ML		GLACIAL MARINE
2				2				
3								
4								
5								
	S-2	24/24	5-7	1		Brown Clayey SILT, little fine Sand, slightly mottled, firm	PP = 2.3 - 3.3 tsf	
6				3		moist, ML		
				2				
7				3				
8								
9								
10					▽			
	S-3	24/24	10-12	WH		Olive Silty CLAY, trace fine Sand, very soft, wet, CL		
11				WH				
				WH				
12				WH				
13								
14								
15								
	S-4	24/24	15-17	WH		Gray Silty CLAY, trace fine Sand and organic streaks,		
16				WH		very soft, wet, CL		
				WH				
17				WH				
18								
19								
						Tube attempted at 20 ft; push into dense stratum		
20					228	No recovery		
	S-5	24/8	20-22	6		Gray Silty SAND, some to little Clay, little Gravel,		
21				8		compact, saturated, SM		GLACIAL TILL
				9				
22				7	226			
						End of Boring at 22 ft - No refusal		

Granular Soils		Cohesive Soils		% Composition
Blows/ft.	Density	Blows/ft.	Consistency	ASTM D2487
0-4	V. Loose	<2	V. soft	
5-10	Loose	2-4	Soft	< 5% Trace
11-30	Compact	5-8	Firm	5-15% Little
31-50	Dense	9-15	Stiff	15-30% Some
>50	V. Dense	16-30	V. Stiff	> 30% With
		>30	Hard	

NOTES: PP = Pocket Penetrometer, MC = Moisture Content
LL = Liquid Limit, PI = Plastic Index, FV = Field Vane Test
Bedrock Joints Su = Undrained Shear Strength, Su(r) = Remolded Shear Strength
Shallow = 0 to 35 degrees
Dipping = 35 to 55 degrees
Steep = 55 to 90 degrees

DRAFT

Boulders = diameter > 12 inches, Cobbles = diameter < 12 inches and > 3 inches
Gravel = < 3 inch and > No 4, Sand = < No 4 and >No 200, Silt/Clay = < No 200

Soil Moisture Condition
Dry: S = 0%
Humid: S = 1 to 25%
Damp: S = 26 to 50%
Moist: S = 51 to 75%
Wet: S = 76 to 99%
Saturated: S = 100%

SUMMIT GEOENGINEERING SERVICES

SOIL BORING LOG

Boring #: **B-2**

Project:	Proposed Building	Project #:	22339
Location:	Hotel Road	Sheet:	1 of 2
City, State:	Auburn, ME	Chkd by:	WMP

Drilling Co:	Summit Geoengineering Services, Inc.	Boring Elevation	251 ft +/-
Driller:	S. Floyd	Reference:	Grading & Erosion Control, Main-Land Development, 1/31/23
Summit Staff:	C. Plante, EI	Date started:	2/2/2023 Date Completed: 2/2/2023

DRILLING METHOD		SAMPLER	
Vehicle:	AMS PP	Length:	24" SS
Model:	9500 VTR	Diameter:	2"OD/1.5"ID
Method:	2 1/4" HSA	Hammer:	140 lb
Hammer Style:	Automatic	Method:	ASTM D1586

ESTIMATED GROUND WATER DEPTH

Date	Depth	Elevation	Reference
2/2/2023	10 ft	241.0 ft +/-	Estimated in spoon samples

Depth (ft.)	No.	Pen/Rec (in)	Depth (ft)	blows/6"	Elev. (ft.)	SAMPLE DESCRIPTION	Geological/ Test Data	Geological Stratum
	S-1	24/15	0-2	1	250	Dk brn f Sandy SILT, tr Clay & roots, v loose, damp, ML		TOPSOIL
1				1		Olive brown Silty fine SAND, very loose, moist, SM		GLACIAL MARINE
				2				
2				2				
3								
4								
5								
	S-2	24/22	5-7	1		Olive brown Clayey SILT, some to little fine Sand, moderately mottled, firm, moist, ML	PP = 1.5 - 2.8 tsf	
6				2				
				5				
7				4				
8								
9								
10					▽			
	S-3	24/13	10-12	2		Grayish brown Silty fine SAND, some Clay and Silty Clay seams, loose, saturated, SM		
11				3				
				2				
12				3				
13								
14								
15								
	S-4	24/24	15-17	WH		Gray Clayey fine SAND, some Silt, very loose, saturated, SC-SM		
16				WH				
				WH				
17				WH				
18								
19								
20								
	S-5	24/24	20-22	WR		Gray Silty CLAY, trace fine Sand and fine Sand seams, very soft, wet, CL		
21				WH				
				WH				
22				WH				

Granular Soils		Cohesive Soils	
Blows/ft.	Density	Blows/ft.	Consistency
0-4	V. Loose	<2	V. soft
5-10	Loose	2-4	Soft
11-30	Compact	5-8	Firm
31-50	Dense	9-15	Stiff
>50	V. Dense	16-30	V. Stiff
		>30	Hard

% Composition ASTM D2487
< 5% Trace
5-15% Little
15-30% Some
> 30% With

NOTES: PP = Pocket Penetrometer, MC = Moisture Content
LL = Liquid Limit, PI = Plastic Index, FV = Field Vane Test
Bedrock Joints Su = Undrained Shear Strength, Su(r) = Remolded Shear Strength
Shallow = 0 to 35 degrees
Dipping = 35 to 55 degrees
Steep = 55 to 90 degrees

DRAFT

Boulders = diameter > 12 inches, Cobbles = diameter < 12 inches and > 3 inches
Gravel = < 3 inch and > No 4, Sand = < No 4 and >No 200, Silt/Clay = < No 200

Soil Moisture Condition
Dry: S = 0%
Humid: S = 1 to 25%
Damp: S = 26 to 50%
Moist: S = 51 to 75%
Wet: S = 76 to 99%
Saturated: S = 100%

SUMMIT GEOENGINEERING SERVICES

SOIL BORING LOG

Boring #: **B-2**

Project:	Proposed Building	Project #:	22339
Location:	Hotel Road	Sheet:	2 of 2
City, State:	Auburn, ME	Chkd by:	WMP

Drilling Co:	Summit Geoengineering Services, Inc.	Boring Elevation	251 ft +/-
Driller:	S. Floyd	Reference:	Grading & Erosion Control, Main-Land Development, 1/31/23
Summit Staff:	C. Plante, EI	Date started: 2/2/2023	Date Completed: 2/2/2023

DRILLING METHOD		SAMPLER	
Vehicle:	AMS PP	Length:	24" SS
Model:	9500 VTR	Diameter:	2"OD/1.5"ID
Method:	2 1/4" HSA	Hammer:	140 lb
Hammer Style:	Automatic	Method:	ASTM D1586

ESTIMATED GROUND WATER DEPTH

Date	Depth	Elevation	Reference
2/2/2023	10 ft	241.0 ft +/-	Estimated in spoon samples

Depth (ft.)	No.	Pen/Rec (in)	Depth (ft)	blows/6"	Elev. (ft.)	SAMPLE DESCRIPTION	Geological/ Test Data	Geological Stratum
23								GLACIAL MARINE
	FV-1					Su = 350 psf		
24						Su(r) = 50 psf		
25								
	FV-2					Su = 350 psf		
26						Su(r) = 75 psf		
27								
	FV-3					Su = 500 psf		
28						Su(r) = 100 psf		
29								
	FV-4					Su = 500 psf		
30						Su(r) = 100 psf		
31								
	FV-5					Su = 600 psf		
32						Su(r) = 150 psf		
33								
	FV-6					Su = 750 psf		
34					217	Su(r) = 175 psf		
				6				
35						Probe with spear tip and SPT Hammer		GLACIAL TILL
				9				
36								
				25 for 4"	214.7			
37						End of Boring at 36.3 ft - Probe refusal		(PROBABLE) BEDROCK
38								
39								
40								
41								
42								
43								
44								

Granular Soils		Cohesive Soils	
Blows/ft.	Density	Blows/ft.	Consistency
0-4	V. Loose	<2	V. soft
5-10	Loose	2-4	Soft
11-30	Compact	5-8	Firm
31-50	Dense	9-15	Stiff
>50	V. Dense	16-30	V. Stiff
		>30	Hard

% Composition ASTM D2487
< 5% Trace
5-15% Little
15-30% Some
> 30% With

NOTES: PP = Pocket Penetrometer, MC = Moisture Content
LL = Liquid Limit, PI = Plastic Index, FV = Field Vane Test
Su = Undrained Shear Strength, Su(r) = Remolded Shear Strength

Bedrock Joints
Shallow = 0 to 35 degrees
Dipping = 35 to 55 degrees
Steep = 55 to 90 degrees

DRAFT

Boulders = diameter > 12 inches, Cobbles = diameter < 12 inches and > 3 inches
Gravel = < 3 inch and > No 4, Sand = < No 4 and >No 200, Silt/Clay = < No 200

Soil Moisture Condition
Dry: S = 0%
Humid: S = 1 to 25%
Damp: S = 26 to 50%
Moist: S = 51 to 75%
Wet: S = 76 to 99%
Saturated: S = 100%

SUMMIT GEOENGINEERING SERVICES

SOIL BORING LOG

Boring #: **B-3**

Project:	Proposed Building	Project #:	22339
Location:	Hotel Road	Sheet:	1 of 1
City, State:	Auburn, ME	Chkd by:	WMP

Drilling Co:	Summit Geoengineering Services, Inc.	Boring Elevation	251 ft +/-
Driller:	S. Floyd	Reference:	Grading & Erosion Control, Main-Land Development, 1/31/23
Summit Staff:	C. Plante, EI	Date started: 2/2/2023	Date Completed: 2/2/2023

DRILLING METHOD		SAMPLER	
Vehicle:	AMS PP	Length:	24" SS
Model:	9500 VTR	Diameter:	2"OD/1.5"ID
Method:	3" Casing	Hammer:	140 lb
Hammer Style:	Automatic	Method:	ASTM D1586

ESTIMATED GROUND WATER DEPTH

Date	Depth	Elevation	Reference
2/2/2023	6 ft	245.0 ft +/-	Estimated in spoon samples

Depth (ft.)	No.	Pen/Rec (in)	Depth (ft)	blows/6"	Elev. (ft.)	SAMPLE DESCRIPTION	Geological/ Test Data	Geological Stratum
	S-1	24/18	0-2	1	250.5	Brn f Sandy SILT, tr Clay & roots, soft, moist, ML		TOPSOIL
1				1		Olive brown Silty fine SAND, trace Clay, very loose,		
				3		moist, SM		GLACIAL MARINE
2				3		Olive Silty CLAY, firm, moist, CL		
3								
4								
5								
	S-2	24/16	5-7	3		Olive brown Silty CLAY, some fine Sand and fine Sand	PP = 1.5 - 3.0 tsf	
6				4	▽	seams, slightly mottled, stiff, saturated, CL		
				5				
7				3				
8								
9								
10								
	S-3	24/20	10-12	WH		Olive brown Silty CLAY, little fine Sand seams, very soft,		
11				1		saturated, CL		
				2		Olive brown Clayey SAND, some Silt, very loose,		
12				2		saturated, SC-SM		
13								
14								
15								
	S-4	24/24	15-17	WH		Gray Silty CLAY, trace fine Sand, very soft, wet, CL		
16				WH				
				WH				
17				WH				
18								
19								
20								
21	UT-1	30/27	20-22.5	PUSH		Gray Silty CLAY, very soft, wet, CL		
22								
				↓	228.5			
						End of Boring at 22.5 ft - No refusal		

Granular Soils		Cohesive Soils		% Composition
Blows/ft.	Density	Blows/ft.	Consistency	ASTM D2487
0-4	V. Loose	<2	V. soft	
5-10	Loose	2-4	Soft	< 5% Trace
11-30	Compact	5-8	Firm	5-15% Little
31-50	Dense	9-15	Stiff	15-30% Some
>50	V. Dense	16-30	V. Stiff	> 30% With
		>30	Hard	

NOTES: PP = Pocket Penetrometer, MC = Moisture Content
LL = Liquid Limit, PI = Plastic Index, FV = Field Vane Test
Su = Undrained Shear Strength, Su(r) = Remolded Shear Strength

Bedrock Joints
Shallow = 0 to 35 degrees
Dipping = 35 to 55 degrees
Steep = 55 to 90 degrees

DRAFT

Boulders = diameter > 12 inches, Cobbles = diameter < 12 inches and > 3 inches
Gravel = < 3 inch and > No 4, Sand = < No 4 and >No 200, Silt/Clay = < No 200

Soil Moisture Condition
Dry: S = 0%
Humid: S = 1 to 25%
Damp: S = 26 to 50%
Moist: S = 51 to 75%
Wet: S = 76 to 99%
Saturated: S = 100%

SUMMIT GEOENGINEERING SERVICES

SOIL BORING LOG

Boring #: **B-4**

Project:	Proposed Building	Project #:	22339
Location:	Hotel Road	Sheet:	1 of 2
City, State:	Auburn, ME	Chkd by:	WMP

Drilling Co:	Summit Geoengineering Services, Inc.	Boring Elevation	252 ft +/-
Driller:	S. Floyd	Reference:	Grading & Erosion Control, Main-Land Development, 1/31/23
Summit Staff:	C. Plante, EI	Date started:	2/2/2023 Date Completed: 2/2/2023

DRILLING METHOD		SAMPLER	
Vehicle:	AMS PP	Length:	24" SS
Model:	9500 VTR	Diameter:	2"OD/1.5"ID
Method:	3" Casing	Hammer:	140 lb
Hammer Style:	Automatic	Method:	ASTM D1586

ESTIMATED GROUND WATER DEPTH

Date	Depth	Elevation	Reference
2/2/2023	10 ft	242.0 ft +/-	Estimated in spoon samples

Depth (ft.)	No.	Pen/Rec (in)	Depth (ft)	blows/6"	Elev. (ft.)	SAMPLE DESCRIPTION	Geological/ Test Data	Geological Stratum
	S-1	24/7	0-2	1	251.5	Brn f Sandy SILT, tr roots & Clay, ML		TOPSOIL
1				3		Light brown Silty fine SAND, trace Clay, loose, damp, SM		
				6		Olive brown Silty CLAY, stiff, moist, CL		GLACIAL MARINE
2				5				
3								
4								
5								
	S-2	24/24	5-7	2		Olive brown Silty CLAY, some to little fine Sand, trace	PP = 1.5 - 2.3 tsf	
6				3		fine Sand seams, moderately mottled, firm, moist to		
				3		wet, CL		
7				3				
8								
9								
10					▽			
	S-3	24/18	10-12	WH		Olive Silty CLAY, trace fine Sand, soft, saturated, CL		
11				3				
				2		Olive brown Clayey SAND, some Silt, loose, saturated,		
12				1		SC-SM		
13								
14								
15								
	S-4	24/24	15-17	WH		Gray Silty CLAY, very soft, saturated, CL		
16				WH				
				WH				
17				WH				
18								
	FV-1					Su = 500 psf		
19						Su(r) = 25 psf		
20								
	FV-2					Su = 450 psf		
21						Su(r) = 25 psf		
22								

Granular Soils		Cohesive Soils	
Blows/ft.	Density	Blows/ft.	Consistency
0-4	V. Loose	<2	V. soft
5-10	Loose	2-4	Soft
11-30	Compact	5-8	Firm
31-50	Dense	9-15	Stiff
>50	V. Dense	16-30	V. Stiff
		>30	Hard

% Composition ASTM D2487
< 5% Trace
5-15% Little
15-30% Some
> 30% With

NOTES: PP = Pocket Penetrometer, MC = Moisture Content
LL = Liquid Limit, PI = Plastic Index, FV = Field Vane Test
Bedrock Joints Su = Undrained Shear Strength, Su(r) = Remolded Shear Strength
Shallow = 0 to 35 degrees
Dipping = 35 to 55 degrees
Steep = 55 to 90 degrees

DRAFT

Boulders = diameter > 12 inches, Cobbles = diameter < 12 inches and > 3 inches
Gravel = < 3 inch and > No 4, Sand = < No 4 and >No 200, Silt/Clay = < No 200

Soil Moisture Condition
Dry: S = 0%
Humid: S = 1 to 25%
Damp: S = 26 to 50%
Moist: S = 51 to 75%
Wet: S = 76 to 99%
Saturated: S = 100%

SUMMIT
GEOENGINEERING SERVICES

SOIL BORING LOG

Boring #: **B-4**

Project:	Proposed Building	Project #:	22339
Location:	Hotel Road	Sheet:	2 of 2
City, State:	Auburn, ME	Chkd by:	WMP

Drilling Co:	Summit Geoengineering Services, Inc.	Boring Elevation	252 ft +/-
Driller:	S. Floyd	Reference:	Grading & Erosion Control, Main-Land Development, 1/31/23
Summit Staff:	C. Plante, EI	Date started:	2/2/2023 Date Completed: 2/2/2023

DRILLING METHOD		SAMPLER	
Vehicle:	AMS PP	Length:	24" SS
Model:	9500 VTR	Diameter:	2"OD/1.5"ID
Method:	3" Casing	Hammer:	140 lb
Hammer Style:	Automatic	Method:	ASTM D1586

ESTIMATED GROUND WATER DEPTH

Date	Depth	Elevation	Reference
2/2/2023	10 ft	242.0 ft +/-	Estimated in spoon samples

Depth (ft.)	No.	Pen/Rec (in)	Depth (ft)	blows/6"	Elev. (ft.)	SAMPLE DESCRIPTION	Geological/ Test Data	Geological Stratum
	FV-3					Su = 500 psf		
23						Su(r) = 75 psf		GLACIAL MARINE
24								
	FV-4					Su = 550 psf		
25						Su(r) = 75 psf		
26								
	FV-5					Su = 550 psf		
27						Su(r) = 100 psf		
28								
	FV-6					Su = 650 psf		
29						Su(r) = 150 psf		
				PUSH		Push with spear tip probe		
30								
31					221			
			Probe	VIBRATE		Denser vibrating of spear tip probe		
32								(PROBABLE) GLACIAL TILL
33								
34								
35								
36								
37								
					214.7			
38						End of Boring at 37.3 ft - Probe refusal		(PROBABLE) BEDROCK
39								
40								
41								
42								
43								
44								

Granular Soils		Cohesive Soils	
Blows/ft.	Density	Blows/ft.	Consistency
0-4	V. Loose	<2	V. soft
5-10	Loose	2-4	Soft
11-30	Compact	5-8	Firm
31-50	Dense	9-15	Stiff
>50	V. Dense	16-30	V. Stiff
		>30	Hard

% Composition ASTM D2487
< 5% Trace
5-15% Little
15-30% Some
> 30% With

NOTES: PP = Pocket Penetrometer, MC = Moisture Content
LL = Liquid Limit, PI = Plastic Index, FV = Field Vane Test
Su = Undrained Shear Strength, Su(r) = Remolded Shear Strength

Bedrock Joints
Shallow = 0 to 35 degrees
Dipping = 35 to 55 degrees
Steep = 55 to 90 degrees

DRAFT

Boulders = diameter > 12 inches, Cobbles = diameter < 12 inches and > 3 inches
Gravel = < 3 inch and > No 4, Sand = < No 4 and >No 200, Silt/Clay = < No 200

Soil Moisture Condition
Dry: S = 0%
Humid: S = 1 to 25%
Damp: S = 26 to 50%
Moist: S = 51 to 75%
Wet: S = 76 to 99%
Saturated: S = 100%

SUMMIT GEOENGINEERING SERVICES	**TEST PIT LOG**	Test Pit # **TP-1**
	Project: JFMH Congregate Center Hotel Road Auburn, ME	Project #: 22339 Groundwater: Seepage at 7 ft
Contractor: Gendron & Gendron	Ground Surface Elevation: 252 ft +/-	
Equipment: CAT 320 GC	Reference: Grading & Erosion, Main-Land Development, 1/31/23	
Summit Staff: J. Barnes, EI	Date: 2/2/2023	Weather: COLD

Depth (ft)	DESCRIPTION	
	ENGINEERING	**GEOLOGIC/GENERAL**
	Dark brown Silty SAND, trace Clay & rootlets, SM	TOPSOIL
1	Light brown Silty fine SAND, loose, damp, SM	GLACIAL MARINE
2		
3		
4	Olive brown Sandy SILT, blocky, firm, damp, ML	
5		
6		
7		
8	Seepage at 7 ft	
9	Olive brown Silty CLAY interlayered with Silty fine Sand, stiff, wet, CL	
10		
11	Gray Silty CLAY, very soft, saturated, CL	
12		
13		
14	End of Test Pit at 13 ft - No refusal	
15		
16		
17		

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SUMMIT GEOENGINEERING SERVICES	**TEST PIT LOG**	Test Pit # **TP-2**
	Project: JFMH Congregate Center Hotel Road Auburn, ME	Project #: 22339 Groundwater: Seepage at 5.5 ft
Contractor: Gendron & Gendron	Ground Surface Elevation: 252 ft +/-	
Equipment: CAT 320 GC	Reference: Grading & Erosion, Main-Land Development, 1/31/23	
Summit Staff: J. Barnes, EI	Date: 2/2/2023	Weather: COLD

Depth (ft)	**DESCRIPTION**	
	ENGINEERING	**GEOLOGIC/GENERAL**
	Dark brown Silty SAND, with roots, SM	TOPSOIL
1	Light brown Silty fine SAND, trace Clay, loose, damp to moist, SM	GLACIAL MARINE
2		
3		
4		
5		
6		
7		
8		
	Olive brown Silty CLAY, soft, wet, CL	
9		
10		
11		
12		
13		
	End of Test Pit at 13 ft - No refusal	
14		
15		
16		
17		

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SUMMIT GEOENGINEERING SERVICES	**TEST PIT LOG**	Test Pit # **TP-3**
	Project: JFMH Congregate Center Hotel Road Auburn, ME	Project #: 22339 Groundwater: Ponded at 7 ft
Contractor: Gendron & Gendron	Ground Surface Elevation: 248 ft +/-	
Equipment: CAT 320 GC	Reference: Grading & Erosion, Main-Land Development, 1/31/23	
Summit Staff: J. Barnes, EI	Date: 2/2/2023	Weather: COLD

Depth (ft)	DESCRIPTION	
	ENGINEERING	**GEOLOGIC/GENERAL**
	Dark brown Silty SAND, some rootlets, tr Clay, moist, SM	TOPSOIL
1	Olive brown Silty fine-medium SAND, slightly mottled, loose, moist, SM	GLACIAL MARINE
2		
3	Olive brown to gray SILT, some fine Sand, trace Clay, blocky, firm, moist, ML	
4		
5		
6		
7	Olive brown Silty CLAY, little fine Sand seams, heavily mottled, very stiff, moist to wet, CL	
8		
9	Olive brown Sandy CLAY, some Silt, heavily mottled, firm to stiff, moist to wet, CL	
10		
11	Olive brown Silty SAND, trace Clay, loose, moist to wet, SM	
12	End of Test Pit at 11 ft - No refusal	
13		
14		
15		
16		
17		

DRAFT

SUMMIT GEOENGINEERING SERVICES	TEST PIT LOG	Test Pit # TP-4
	Project: JFMH Congregate Center Hotel Road Auburn, ME	Project #: 22339 Groundwater: Seepage at 3 ft
Contractor: Gendron & Gendron	Ground Surface Elevation: 248 ft +/-	
Equipment: CAT 320 GC	Reference: Grading & Erosion, Main-Land Development, 1/31/23	
Summit Staff: J. Barnes, EI	Date: 2/2/2023	Weather: COLD

Depth (ft)	DESCRIPTION	
	ENGINEERING	GEOLOGIC/GENERAL
	Dark brown Silty SAND, some roots, SM	TOPSOIL
1	Olive brown Silty fine SAND, loose, damp, SM	GLACIAL MARINE
2		
3	Seepage at 3 ft	
4		
5	Olive brown to gray Clayey SILT, trace fine Sand seams, blocky, firm, moist, CL	
6		
7	Mottled and wet at 6.5 ft	
8		
9		
10	Olive brown fine Silty SAND, trace Clay, loose, wet, SM	
11		
12	End of Test Pit at 11 ft - No refusal	
13		
14		
15		
16		
17		

DRAFT

SUMMIT GEOENGINEERING SERVICES	TEST PIT LOG	Test Pit # TP-5
	Project: JFMH Congregate Center Hotel Road Auburn, ME	Project #: 22339 Groundwater: Seepage at 8.5 ft
Contractor: Gendron & Gendron	Ground Surface Elevation: 250 ft +/-	
Equipment: CAT 320 GC	Reference: Grading & Erosion, Main-Land Development, 1/31/23	
Summit Staff: J. Barnes, EI	Date: 2/2/2023	Weather: COLD

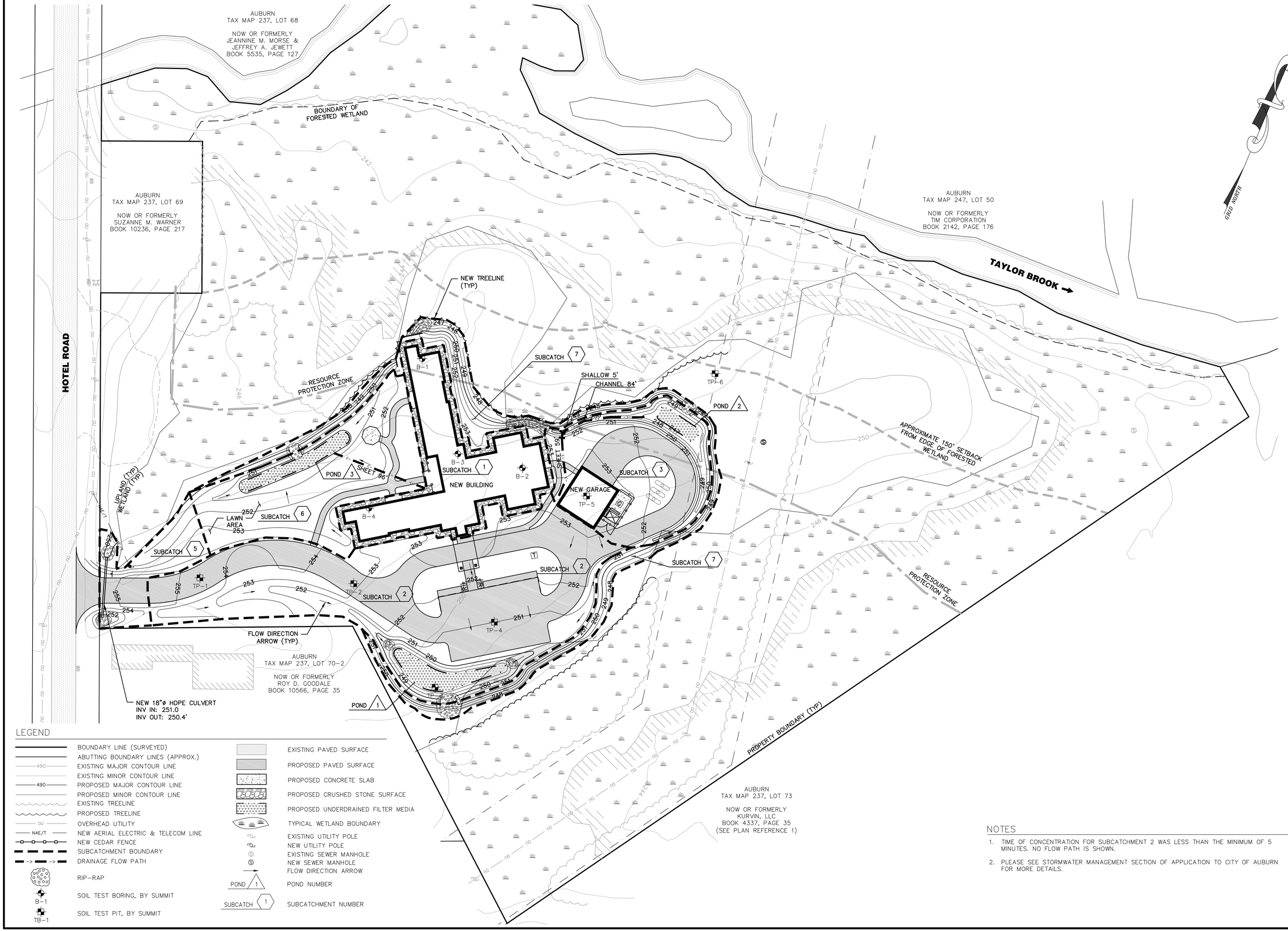
Depth (ft)	DESCRIPTION	
	ENGINEERING	GEOLOGIC/GENERAL
1	Dark brown Silty SAND, little Clay, trace roots, SM	TOPSOIL
2	Olive brown Sandy SILT, trace Clay, firm, damp, ML	GLACIAL MARINE
3		
4		
5	Slightly mottled at 4.5 ft	
6		
7		
8		
9	Olive brown SILT, some Clay, trace fine Sand, soft, wet, ML	
	Seepage at 8.5 ft	
10		
11		
12		
13	End of Test Pit at 12 ft - No refusal	
14		
15		
16		
17		

DRAFT

SUMMIT GEOENGINEERING SERVICES	TEST PIT LOG	Test Pit # TP-6
	Project: JFMH Congregate Center Hotel Road Auburn, ME	Project #: 22339 Groundwater: Seepage at 6 ft
Contractor: Gendron & Gendron	Ground Surface Elevation: 248 ft +/-	
Equipment: CAT 320 GC	Reference: Grading & Erosion, Main-Land Development, 1/31/23	
Summit Staff: J. Barnes, EI	Date: 2/2/2023	Weather: COLD

Depth (ft)	DESCRIPTION	
	ENGINEERING	GEOLOGIC/GENERAL
1	Dark brown Silty SAND, some roots, damp, SM	TOPSOIL
2		
3	Olive brown Sandy SILT, blocky, firm, damp, ML	GLACIAL MARINE
4		
5		
6	Seepage at 6 ft Stiffer at 6 ft	
7		
8		
9		
10	Olive brown to gray Silty CLAY, very soft, moist to wet, CL	
11		
12		
13		
14	End of Test Pit at 13 ft - No refusal	
15		
16		
17		

DRAFT



LEGEND

- BOUNDARY LINE (SURVEYED)
- ABUTTING BOUNDARY LINES (APPROX.)
- 490 EXISTING MAJOR CONTOUR LINE
- EXISTING MINOR CONTOUR LINE
- 490 PROPOSED MAJOR CONTOUR LINE
- PROPOSED MINOR CONTOUR LINE
- EXISTING TREELINE
- PROPOSED TREELINE
- OU OVERHEAD UTILITY
- NAE/T NEW AERIAL ELECTRIC & TELECOM LINE
- NEW CEDAR FENCE
- SUBCATCHMENT BOUNDARY
- DRAINAGE FLOW PATH
- RIP-RAP
- B-1 SOIL TEST BORING, BY SUMMIT
- TB-1 SOIL TEST PIT, BY SUMMIT
- EXISTING PAVED SURFACE
- PROPOSED PAVED SURFACE
- PROPOSED CONCRETE SLAB
- PROPOSED CRUSHED STONE SURFACE
- PROPOSED UNDERDRAINED FILTER MEDIA
- TYPICAL WETLAND BOUNDARY
- EXISTING UTILITY POLE
- NEW UTILITY POLE
- EXISTING SEWER MANHOLE
- NEW SEWER MANHOLE
- FLOW DIRECTION ARROW
- POND 1 POND NUMBER
- SUBCATCH 1 SUBCATCHMENT NUMBER

NOTES

1. TIME OF CONCENTRATION FOR SUBCATCHMENT 2 WAS LESS THAN THE MINIMUM OF 5 MINUTES. NO FLOW PATH IS SHOWN.
2. PLEASE SEE STORMWATER MANAGEMENT SECTION OF APPLICATION TO CITY OF AUBURN FOR MORE DETAILS.

MAIN-LAND
DEVELOPMENT CONSULTANTS, INC.
69 MAIN ST. LIVERMORE FALLS, MAINE
367 US ROUTE 1 FALMOUTH, MAINE
PH: (207) 897-6752 FAX: (207) 897-5404
WWW.MAIN-LANDDCI.COM

PROJECT

TAYLOR BROOK HOUSE

HOTEL ROAD
AUBURN, MAINE 04210

OWNER OF RECORD

BETH C. BELL & JOHN D. CRAFTS

2 PASSING LANE,
LISBON FALLS, MAINE 04252

MADE FOR

JOHN F. MURPHY HOMES, INC.

80 CENTER STREET
AUBURN, MAINE 04210

DRAWING SCALE:

40 0 20 40
(IN FEET)
1 INCH = 40 FT

SUBMISSION NOTES:
SUBMISSION 1: 2023-03-03 TLB
ISSUED FOR PERMIT APPS.

PROJ. MGR:	EKB
DRAWN BY:	TLB
CHECKED BY:	EKB
SUBMISSION NO.	1
SURVEY DATE:	2022-11-10
SUBMISSION DATE:	2023-03-03
SUBMITTED FOR:	PERMIT APPS

NOT FOR CONSTRUCTION

DRAINAGE PLAN

SEAL:

STATE OF MAINE
ESTHER K. BIZIER
No. 14236
LICENSED PROFESSIONAL ENGINEER
2023-03-03

ESTHER K. BIZIER ME PE#14236

DRAWING NO.

D2.1

MLDC NO. 22-330 9 OF 12