



TOWN OF KILL DEVIL HILLS
Land Where Flight Began

MEMORANDUM

June 10, 2024

TO: Mayor and Board of Commissioners

FROM: Debora P. Díaz, Town Manager

REF: New Business

1. Site Plan Review – 1106 Blue Jay Street in the Commercial Zone – Proposed Professional Office Building: Dentist Office (Attached NB-1)

On behalf of Sapling Land Company, LLC, Creative Engineering Solutions has submitted a proposed site plan for a 3,400-square-foot office building (dentist office), 20 parking spaces, and associated site improvements at 1106 Blue Jay Street. Under §153.76, *Professional Office* is a permitted use in the Commercial Zone. The attached Planning Department memorandum and site plans highlight the request, along with project specifics for this permitted use.

At its May 21, 2024, meeting, the Planning Board unanimously voted to forward this site plan for the Board of Commissioners' approval, pending minor revisions, which have all been addressed. Staff recommends approval of the site plan as presented, and a motion is in order.

Director of
Planning and Inspections
MEREDITH GUNS

Building Inspector
MARTY SHAW
CHARLES THUMAN

Code Enforcement Officer
JORDAN BLYTHE



Assistant Director of
Planning and Inspections
CAMERON RAY

Senior Planner
RYAN LANG

Zoning Administrator
DONNA ELLIOTT

THE TOWN OF KILL DEVIL HILLS
NORTH CAROLINA

PLANNING DEPARTMENT

June 10, 2024

Memorandum

To: Debbie Diaz, Town Manager

From: Ryan Lang, Senior Planner 

Subject: SITE PLAN REVIEW — 1106 Blue Jay Street — Proposed Professional Office Building
(Dentist Office)

Enclosed is a site plan review submittal by Creative Engineering Solutions, on behalf of Sapling Land Company LLC, for a proposed office building (Dentist Office) at 1106 Blue Jay Street in the Commercial Zone. The proposed plan calls for construction of a 3,400 square foot office building with 20 parking spaces, and associated site improvements. The *Professional Office (L)* is a permitted use in the Commercial Zone 153.176. Attached you will find the site plan application, proposed site plan and building plan, site narrative, and applicants response to Staff's Technical Review comments.

The Planning Board reviewed this proposal on May 21, 2024 and forwarded it to the Board recommending approval with minor revisions which have since been addressed by the applicant on the plans presented to the Board of Commissioners.

Staff recommends approval of the site plan as presented.

Town of Kill Devil Hills Planning and Inspections Commercial Site Plan Review Application*



Applicant

Name: Dr. Trahey Maner
 Address: 422 Bridge Lane
Nags Head, NC 27959
 Phone: _____
 Fax: _____
 Cell: 252.256.2793

Property Owner

Name: Sapling Land Company, LLC
 Address: 422 Bridge Lane
Nags Head, NC 27959
 Phone: _____
 Fax: _____
 Cell: _____

Property Location

Address: 1106 Blue Jay St Lot, Block: 1-R, Block 17
 Subdivision: Kill Devil Hills Realty Corp Pin#: 988312867930

Zoning District: Commercial LI-1 LI-2 OIR
 Total Lot Size: 31,751 Sq. Ft. Disturbed Area: 25,000 Sq. Ft.

Contractor

Company Name: _____ License Number: _____
 Name: _____ Phone: _____
 Address: _____ Cell: _____
 _____ Fax: _____
 Town Privilege License Number: _____

Construction Information

Type of Construction: _____
 Assembly Business Educational Factory/Industrial High Hazard
 Institutional Mercantile Residential Storage Utility/Misc.
 New Construction Addition Repair/Replace Remodel Other: _____

Square Footage Proposed:

Interior Space: _____ Sq. Ft. Covered Deck(s): _____ Sq. Ft. Storage: _____ Sq. Ft.
 Garage: _____ Sq. Ft. # of Bedrooms: _____ # of Open Deck(s): _____
 Proposed Square Footage: 10,948 + Existing Square Footage: 0 = 10,948 Total Sq. Ft.
 % Impervious Coverage: 28.38 + % Pervious Coverage: 6.1 = 34.48 Total % Coverage
 # of Parking Spaces: Existing: 0 Proposed: 20 Total: 20

Septic Tank Permit #: _____ Construction Type: _____

Estimated Construction Cost (including labor and materials): \$ 1.5 million

Flood Information

Flood Zone: VE AE X Base Flood Elevation: _____
 Proposed First Floor Elevation: 10.2 Sq. Ft Below Base Flood Elevation: N/A

**This form is designed as a guide for Commercial Site Plan Review.
 Additional plans and information will be required prior to building permits.*

Project Description

Development of a two-story wood framed structure in support of a dentist office operation. Site improvements will be comprised of parking with associative drive aisle, lighting, sidewalk, stormwater, and utility infrastructure improvements.

Required Site Plan Information Checklist:

- Permit Application (Completed)
- Site Plan Including the following
 - Submittal Requirements:
 - Vicinity Map
 - 15 Copies of Site Plan & Building Plan Elevations – Front, Side, and Rear
 - Tentative Health Department Approval
 - Site Plan Development Review Fee Paid in Full
 - Existing Conditions:
 - Boundary of Entire Lot
 - Width and Location of Existing Right of Ways
 - Nature, Purpose, Locations, and Size of Existing Easements
 - Iron Pins and Concrete Monuments
 - Scale (1" = 50" Minimum)
 - North Arrow
 - Streets Including Width of Pavement
 - All Underground Utilities, Gas/Propane Below or Above Grade
 - Dare Co. Register of Deeds Map Book/Subdivision Ref.
 - Street Address
 - Present Recorded Owner, Developer, Engineer contacts
 - Adjacent Property Owners, Adj. Use & Zone
 - Corp. of Engineers Report / Wetland Study
 - NFIP Flood Zone (ref: Elevation Datum (NAVD 1988))
 - Minimum, Lot Size indicated
 - Proposed Improvements:
 - Zoning Use Compliance/Setbacks labeled
 - Landscaping Plan / Buffers / Screening (per section 153.073)
 - Lighting Plan - photometric showing point output (section 153.074)
 - Sedimentation & Erosion Control Plan including details
 - Disturbed Areas delineated & areas calculated
 - Location of Sidewalks on the Croatan Highway and Curbs
 - Location of Sewer Facilities and Drain field
 - Proposed Building Type, # of Floors and dimensions, floor area ratio, Height
 - Existing and Finished Grades of Entire Site
 - Storm Water Management Plan including calculations
 - Total Units and Density per Acre (Multi-Family) or floor area ratio (in OIR)
 - Lot Size and Lot Coverage Calculation
 - Utility Plan indicating location & sizes of proposed improvements
 - Water Service Sizing Checklist
 - Layout, Size and Number of Parking Spaces including handicap w/ setbacks (Each Space Numbered)
 - Fire Lane and Driveways
 - Loading Zone (Commercial Sites)
 - Mail Delivery Cluster Sites (Multi-Family)

- Proposed First Floor Elevation
- Dumpster Pad Location
- Proposed Sign Location
- Sight triangle shown
- Commercial Building Plans showing architectural compliance
- Plans to N.C.D.O.T. (if required)
- NC Engineer/Land Surveyor Seal on Site Plan

*** The items listed in the Site Plan portion of the above checklist represent information that must be indicated on any site plan submitted for review by the Kill Devil Hills Planning Department, Planning Board, and Board of Commissioners. All of the above required documents shall be submitted on or before the 3rd Tuesday of each month. Upon completion of review, the Planning Board shall transmit its recommendations to the Board of Commissioners. The Board of Commissioners shall review site plans on the second Monday of each month.

Signature of Applicant:  (Date) 3/19/2024

Water Meter Service Sizing Form

Town of Kill Devil Hills

Water Meter Service Sizing Forms – Water Customer data Sheet

Customer: Sapling Land Company, LLC Address: 422 W Bridge Lane
 Building Address: 1106 Blue Jay St. Zip Code: 27948
 Lot: 1-R Block: _____ Section: 17 Subdivision: Kill Devil Hills Realty Corp
 Type of Occupancy: Dentist Office

Fixture	Fixture Value 35 P.S.I.	=	# of Fixtures	=	Fixture Value
Bathtub	8	=		=	
Bedpan Washers	10	=		=	
Combination Sink & Tray	3	=		=	
Dental Unit	1	=	8	=	8
Dental Lavatory	2	=	8	=	16
Drinking Fountain – Cooler	1	=		=	
Drinking Fountain – Public	2	=		=	
Kitchen Sink – 1/2" Connection	3	=	3	=	9
Kitchen Sink – 3/4" Connection	7	=		=	
Lavatory – 3/8" Connection	2	=	3	=	6
Lavatory – 1/2" connection	4	=		=	
Laundry Tray – 1/2" Connection	3	=		=	
Laundry Tray – 3/4" Connection	7	=		=	
Shower Head (Shower Only)	4	=	1	=	4
Service Sink – 1/2" Connection	3	=		=	
Service Sink – 3/4" Connection	7	=		=	
Urinal – Pedestal Flush Valve	35	=		=	
Urinal – Wall Flush Valve	12	=		=	
Urinal – Trough (2 ft. unit)	2	=		=	
Wash Sink (each set of faucets)	4	=		=	
Water Closet – Flush Valve	35	=		=	
Water Closet – Tank Type	3	=	3	=	9
Dishwasher – 1/2" Connection	5	=		=	
Dishwasher – 3/4" Connection	10	=		=	
Washing Machine – 1/2" Connection	5	=		=	
Washing Machine – 3/4" Connection	12	=		=	
Washing Machine - 1" Connection	25	=		=	
Hose Connection (Wash Down) – 1/2"	6	=		=	
Hose Connection (Wash Down) – 3/4"	10	=		=	
Hose (50ft Wash Down) – 1/2"	6	=		=	
Hose (50ft Wash Down) 5/8"	9	=		=	
Hose (50ft Wash Down) – 3/4"	12	=		=	

COMBINED FIXTURE TOTAL	52
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Swimming Pool – size/water Connection _____	Total GPM	=	—
Ornamental Sprinkler - # of Heads _____	Total GPM	=	—
Fire Suppression Sprinklers - # of Heads _____	Total GPM	=	—
Other uses such as Saunas, Whirlpools, Etc.:	Total GPM	=	—
	Total GPM	=	—
Customer Peak Demand from sizing book by Press.	Total GPM	=	—
TOTAL FIXTURE DEMAND IN GALLONS PER MINUTE	Total GPM	=	

NOTE: THIS FORM MUST BE COMPLETED BEFORE SERVICE IS PURCHASED!

March 17, 2024

Person Completing Form

Date

Dare County Health Department Permit

Improvement Permit
 County of Dare
 PO Box 669
 Manteo NC 27954



S4-24403

Phone: (252) 475-5080

DARE COUNTY DEPARTMENT OF PUBLIC HEALTH

An Improvement Permit (IP) issued pursuant to this application is not affected by change in ownership provided the site and wastewater characteristics remain unchanged. An IP issued with a plat is valid without expiration. An IP issued with a site plan is valid for 60 months from the date of issuance.

Parcel: 004379000	LOT: 1-R BLK: 17 SEC:	Permit: S4-24403
Location:	1106 BLUE JAY ST – KILL DEVIL HILLS	
Subdivision:	KILL DEVIL HILLS REALTY CORP	
Owner Name:	SAPLING LAND COMPANY LLC	Permit Date: 03/18/2024
Owner Address:	422 W BRIDGE LN NAGS HEAD, NC 27959	Permit Type: WW COMMERCIAL NEW

Number of bedrooms:	0	Gallons per day:	999
Occupancy:	0	Long term accept rate:	0.60
Water Supply:	PUBLIC	Tank type:	PRECAST
Amount of drain field:	336	Tank size:	2000
Number of lines:	8	Pump tank size:	1750
Trench length (feet):	① 86' 42"	Grease trap size:	0
Trench width (inches):	18	Septic type:	LPP-Dual pump < 3000 gpd
Trench depth (inches):	18	Septic code:	COMMERCIAL
Gravel depth (inches):	12	Distribution:	LOW PRESSURE PIPE
Rock Under (inches):	6	Distance from building:	5
Rock Above (inches):	2	Distance from water supply:	10
Bed system dimensions:	NA	Distance from property line:	10
		Distance from open water:	50

Design Specifications:

Permit for new commercial LPP system designed to support a Dentist Office - No conventional, non-digital X-Rays or Hq/amalgam fillings will be utilized (999gpd daily design flow). The site includes 2081ft² of office/clinic area. The system is to be installed exactly as designed by David M. Ryan, P.E. of Creative Engineering Solutions, PLLC, Project No. P1032. This system will require an inspection of the tanks and drainfield installation, as well as a separate, subsequent startup inspection. A perpetual contract must be established between the property owner and a certified Operator in Responsible Charge (ORC) to ensure proper inspections, maintenance, and reporting are completed as applicable by law. The engineer, contracted operator, and a DCHD EHS must be present for the startup inspection (\$200 fee). This system and submitted reports are subject to periodic inspection and review by DCHD (fees apply). Ensure setbacks are properly maintained. 100% Conventional Repair Area claimed (5 - 56' lines, 9' on center, LTAR of 1.2gpd/s.f.).

Note: This Permit is subject to all provisions of the 15A NCAC 18E rules governing the installation of septic systems. The person making the installation must notify the Health Department when the septic tank system is ready for inspection. If any septic tank system or part thereof is covered before being inspected and approved, it shall be uncovered at the direction of the Health Officer at the expense of the one responsible for making the installation.

Issued 03/18/2024

Permit Fee: \$ 500.00


 Environmental Health Specialist

Applicant signature here
 Applicant Signature: CREATIVE ENGINEERING SOLUTIONS PLLC

① JIM 03/18/24

County of Dare
PO Box 669
Manteo NC 27954



S8-24404

Phone: (252) 475-5080

DARE COUNTY DEPARTMENT OF PUBLIC HEALTH
Authorization for Wastewater System Construction

Parcel: 004379000

PIN: 988312867930

Permit: S8-24404

Owner Name: SAPLING LAND COMPANY LLC
Owner Address: 422 W BRIDGE LN
NAGS HEAD, NC 27959

Permit Date: 03/18/2024

Location: 1106 BLUE JAY ST – KILL DEVIL HILLS
Subdivision: KILL DEVIL HILLS REALTY CORP

LOT: 1-R BLK: 17 SEC:

1. Issued by  _____ JJM

2. Any alteration in soil conditions (including location of structures and appurtenances) or modification in use, design wastewater flow or wastewater characteristics as specified in the associated improvement permit and application, may subject this authorization and associated permit(s) to revocation.

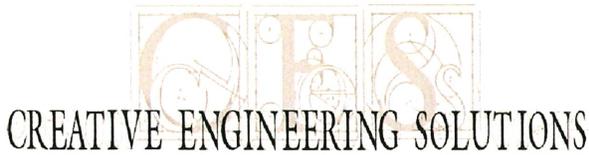
3. Comments:
Permit for new commercial LPP system designed to support a Dentist Office - No conventional, non-digital X-Rays or Hq/amalgam fillings will be utilized (999gpd daily design flow). The site includes 2081ft² of office/clinic area. The system is to be installed exactly as designed by David M. Ryan, P.E. of Creative Engineering Solutions, PLLC, Project No. P1032. This system will require an inspection of the tanks and drainfield installation, as well as a separate, subsequent startup inspection. A perpetual contract must be established between the property owner and a certified Operator in Responsible Charge (ORC) to ensure proper inspections, maintenance, and reporting are completed as applicable by law. The engineer, contracted operator, and a DCHD EHS must be present for the startup inspection (\$200 fee). This system and submitted reports are subject to periodic inspection and review by DCHD (fees apply). Ensure setbacks are properly maintained. 100% Conventional Repair Area claimed (5 - 56' lines, 9' on center, LTAR of 1.2gpd/s.f.).

This CA is valid as long as the IP remains valid (SL 2014-120).
Disclaimer: This permit does not relieve you of the responsibility to obtain any other necessary Federal, State or Local permit(s).

Owner Certification

Applicant or Owner Signature _____ Date _____
Applicant: CREATIVE ENGINEERING SOLUTIONS PLLC

Application Reference# 13761



CREATIVE ENGINEERING SOLUTIONS, PLLC
FIRM LICENSE P-0970
262 MOTHER VINEYARD RD., MANTEO, NC 27954
WWW.CREATIVEENGINEERINGOBX.COM

Town of Kill Devil Hills

MAY 28 2024

Planning & Inspections Department

May 19, 2024

Mr. Cameron Ray
Assistant Director of Planning and Inspections
Kill Devil Hills Planning Department
P.O. Box 1719
102 Town Hall Drive
Kill Devil Hills, NC 27948

Re: 1106 Blue Jay St- Proposed Professional Office Building (Dentist Office)

Mr. Ray:

Attached for your review is updated submittal information in response to the Site Plan Review II Comments provided on May 17, 2024. This information is being provided in support of the application for 1106 Blue Jay St- Proposed professional office building. Below are the responses to the Site Plan II Review comments:

Planning

1. Revise total proposed lot coverage to include area without permeable paver reduction. Revise in "Project Narrative" and in Note #14 on "Lot 1R Notes" sheet C2. **Answer:** *These two items have been corrected in the project narrative and Plan Sheet C2.*
2. Lighting Plan: Plan does not show lights that are shown on proposed floor plan. Revised plans shall be submitted identifying all proposed light sources. All sides of the building are required to be lit. SW corner of building does not show light provided. **Answer:** *Additional requested information is indicated on Sheet C4 along with product specification data included with the lighting information provided in the narrative.*

Building Inspector

1. On sheet 3 of 8, at the bottom of the ADA ramp up to the parking to sidewalk is shown to slop from 9.3' at the edge of drive aisle to 9.5' . This equates to 0.2' elevation change which equals 2 ½" over a distance of 5'. The landing slope cannot be steeper than 1 in 48 units. Also the curb is noted at 9.4' indicating that it is over an inch above the bottom of the landing slope. The transition shall be a smooth transition. Also the curb ramp layout does not match the layout of Sheet C6 of 8. **Answer:** *The grades have been revised on the ramp landing to reflect a no greater than 1" in 48" units slope in conjunction with the curb slope to provide a smooth transition to the access aisle. The detail on Sheet C6 has been modified to reflect the ADA ramp construction.*

Town Engineer:

1. It is possible that a subsequent soils investigation will find the SHWT in the vicinity of the Infiltration #1B to be at or above the bottom elevation of 7.25'. In that case, we recommend requiring that the deep sock drain in the W Martin St RW be extended west an additional 50' to help manage the SHWT in that area. **Answer:** *An on-site soil investigation has been conducted to examine the on-site subsurface conditions. Three soil borings were advanced in the areas of Basins #1A and #1B to investigate existing soils and Seasonal High Wetness Levels. It was determined there is an existing 32"-34" vertical separation to the water table and 28"-30" vertical separation to the seasonal high wetness condition. Supplemental information has also been provided via the USDA soils database providing additional*

information on the site specific soils information. *This additional data collection and on-site investigation should provide satisfactory evidence on the existing soil wetness conditions and negate the need for supplemental drainage improvements in the right-of-way.*

2. On Sheet C3, specifically call out that the frame and grate for the DI's in W Martin Street are to be as per the Pedestrian Frame and Grate Detail on Sheet C7. **Answer:** *A notation has been added to the NCDOT Drop Inlet Detail on Sheet C7 indicating the use of the pedestrian frame and grate which is depicted directly below.*
3. Also in Sheet C3, there is a leader callout which appears to be leftover from a previous design detail and should be removed. **Answer:** *This notation has been removed from Sheet C3.*

Accompanying this letter is an updated narrative with supporting documentation in conjunction with the architectural plan and civil drawing sets.

If you require any additional information or if we may be of assistance in any way, please do not hesitate to contact our office at 252-473-5566. We thank you for your time and consideration of this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "David M. Ryan", written over a horizontal line.

David M. Ryan, P.E.,
Creative Engineering Solutions, PLLC



CREATIVE ENGINEERING SOLUTIONS, PLLC
FIRM LICENSE P-0970
262 MOTHER VINEYARD RD., MANTEO, NC 27954
WWW.CREATIVEENGINEERINGGOBX.COM

Town of Kill Devil Hills

MAY 28 2024

Lots 1R Project Development Narrative

Planning & Inspections Department

Project Name: Lot 1-R, Block 17, Kill Devil Hills Realty Corp Subdivision Dental Office Development Plan

Address: 1106 Blue Jay St
Kill Devil Hills, NC 27948

Parcel ID Number(s): 004379000

Recorded Reference: Lot 1-R: D.B 1717, Pg. 261, P.C. H, Slide 110

Total Project Area: 31,751 ft.² ± (0.73 ac. ±)

Firm Zone Community Panels: Zone X

Revision Date: June 19, 2020

Ownership: Sapling Land Company, LLC
422 Bridge Lane
Nags Head, NC 27959

Zoning and Neighboring Uses:

The subject property is currently undeveloped, lying within the C Commercial zoning classification. Directly neighboring the property are the following uses, also located within the associative zoning classification;

- East –Blue Jay Street 50’ R/W. (C), unimproved
- South –Martin St. 50’ R/W (C), improved
- West- developed residential- Lot 10:Harry Meraklis, Lot 9:Michelle Rogerson, Lot 8: Jogn & Shirley Cook Residential Low-Density (RL)
- North- Harding St. 30’ R/W. (C), unimproved

Description of Development Proposal:

The intent of this application is to support site development activities related to the proposed construction of a 3,401 s.f. dentist office building to be located in Kill Devil Hills Township, Dare County, NC. The site development plan consists of vehicular access, parking and associative drainage & utility infrastructure improvements in support of the proposed application, (see attached sheet with tabular coverage breakdown). Currently, the subject property is unimproved, with double frontage with the main access via Martin St. to the south, and frontage along Blue Jay St. which is currently unimproved to the east.

Proposed Disturbed Acreage: 25,000 s.f.

“404” Wetland Acreage: 0 ac.

Proposed Wetland Impacts: None

Development Standards Required and Proposed:

The subject property lies within Kill Devil Hills Township, Dare County, North Carolina, within the Commercial zoning district. Professional Offices are a permitted development use, as defined in the Town of Kill Devil Hills Code of Ordinances. The following describes how the provisions of the ordinance are being applied with this proposal;

1. Minimum Building Setbacks:
 - a. Front yard: 30 feet.
 - b. Side yard: 10 feet (west)
 - c. Side yard: 15 feet (east)
 - d. Rear yard: 30 feet.

2. Lot Development Coverage:
 - Buildings: 3,401 s.f.
 - Vehicular Drive Area: 4,525 s.f.
 - Permeable pavers (NO lot coverage reduction): 3,237 sf
 - Concrete Walkways: 759 s.f.
 - Dumpster Pad: 60 sf
 - Total Lot Coverage: 11,978 s.f. (37.7%)
3. Proposed built-upon area coverage:
 - Buildings: 3,401 s.f.
 - Vehicular Drive Area: 4,525 s.f.
 - Permeable Pavers: 0 s.f. (permeable paver systems considered 100% pervious in accordance with NCDEQ MDC)
 - Concrete Walkways: 759 s.f.
 - Dumpster Pad: 56 sf
 - Proposed built-upon area: 8,741 s.f. (27.5%)
4. Building Elevation Information:
 - Building Finished Floor Elevation: 10.2' MSL
 - Gross Floor Area: 3570 SF
5. Maximum Building Height: 50', Proposed Building Height 35'
6. Off-Street Parking Requirements:
 - Per Table of Parking Requirements:
 - Professional Office: (1) Parking Space per 250 sf of gross floor area provided the area that would be required for parking at the ratio remain open area used for landscaping, stormwater or other use that does not create impervious area
 - Gross floor area: 3570 sf of gross floor
 - Total Number of Parking Spaces Req'd: 14.3
 - Number of Parking Spaces Proposed: (19) 10'x20' Parking Spaces, (1) ADA accessible parking stalls. Parking surface areas are comprised of asphalt surfaces.
7. Driveway Width:
 - Minimum driveway width required: 24'
 - Driveway Width provided: 24'

Soils & Land Use

The subject properties contain typical characteristics of the shrub zone landscape seen along the North Carolina Coast. The landscape exhibits the physical features of the coastal transitional zone, with transition from the broad flats of a shrub zone from the east to a gently sloping dune ridge formation to the west. The topography in the area of the proposed development is relatively flat with sparse vegetation within the interior of the lot and bordered by live oak hammocks and pines along the property perimeter. Existing surface drainage is provided by way of localized infiltration.

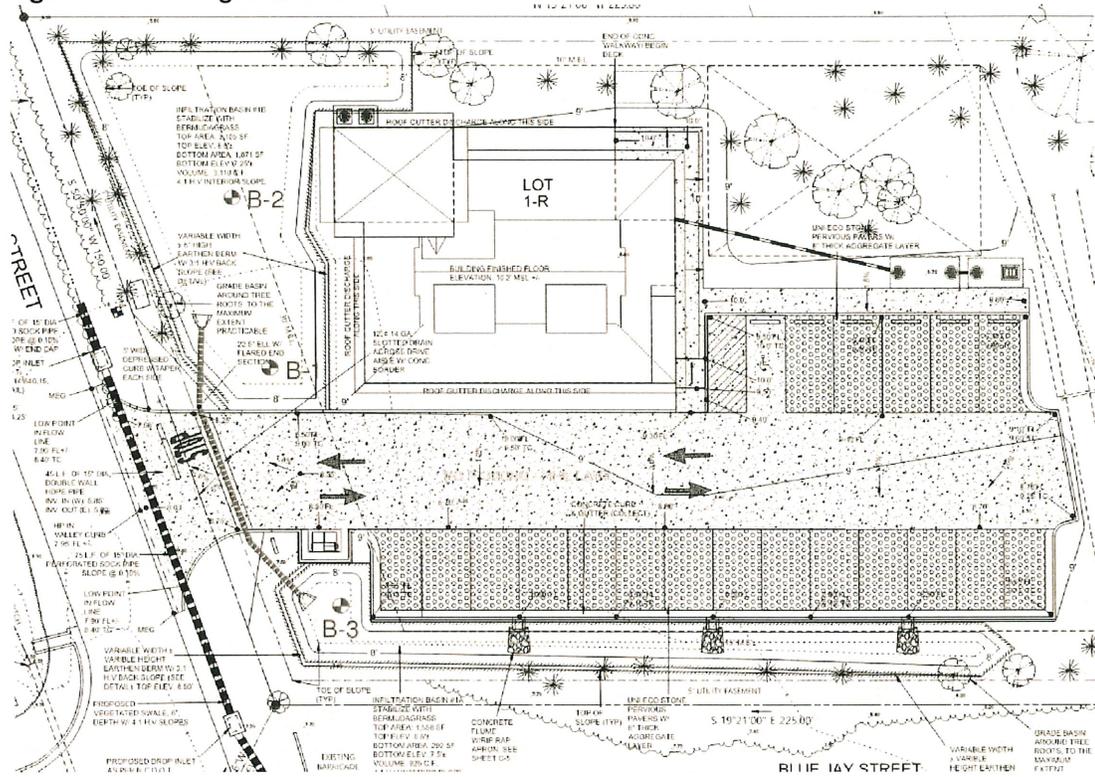
Existing surface drainage is provided via an open channel collector ditch located along the eastern property line within the unimproved right-of-way section of Blue Jay St. A discrete pipe collection system located along the northern property line within the unimproved section of Harding St. connecting to the open channel ditch along Blue Jay St. The manmade ditches drain to unnamed tributaries and conveyed with an outlet to Buzzard Bay (Classification 30-21-1 SC).

The development layout has been designed in a way to utilize the existing vegetative buffer and adapt the site improvements to maximize the retention of trees throughout the site. The soil types are comprised of Duckston fine sands and Corolla fine sands which are approximately equally divided on the parcel of land.

An on-site soil evaluation was conducted by CES, PLLC within the areas identified for the proposed stormwater management system. The purpose of the soil evaluation was to evaluate the suitability of the soil properties relative to Stormwater Management Systems permitted by NCDEQ and/or local regulatory review. Source document information utilized for the evaluation was a combination of field survey data compiled by MESA PC and design documentation prepared by CES, PLLC.

Hand-auger borings were advanced in (3) separate locations to characterize the soils within the proposed stormwater management system locations as detailed in Figure 1.

Figure 1- Soil Boring Locations



A detailed soil profile description was conducted to a depth of approximately four feet below existing ground surface at the identified locations to characterize the soils potential to support best management practices. The field evaluation included the soil texture; color, structure, depth, thickness of soil horizon, and thickness and type of any restrictive soil horizon(s) if present; depth of soil wetness & water table conditions. The soils evaluated were described to the series level using current United States Department of Agriculture (USDA) and Natural Resource Conservation Service (NRCS)-Soil Data. The soils evaluated at the identified locations were representative of those typically found within the Duckston and Corolla Fine Sand Series. Table 1- describes the conditions that were observed on the site investigation performed on May 18, 2024 by CES, PLLC.

Table 1- Soils Investigation Report

Depth	B-1	Depth	B-2	Depth	B-3
0"-8"	Brown organic layer	0"-7"	Brown organic layer	0"-7"	Brown organic layer
9" – 12"	Gray fine sand	8" – 12"	Gray fine sand	7" – 13"	Gray fine sand
12"-18"	Brown-tan sand	12"-18"	Brown-grey sand	13"-18"	Brown-grey sand
18"-24"	Brown-tan sand	18"-24"	Brown grey sand	18"-24"	Brown-grey sand
24"-30"	Brown-tan sand	24"-30"	Brown grey sand	24"-28"	Brown -grey sand
30"-36"	Brown-grey sand w/mottles (saturated)	30"-34"	Grey sand w/mottles (saturated)	28"-34"	Dark grey sand w/mottles (saturated)
36"-48"		34"-48"		34"-48"	
Soil Type	Duckston Fine Sand	Soil Type	Corolla Fine Sand	Soil Type	Duckston Fine Sand
Ex ground elev	7.9' fmsl	Ex ground elev	8.0' fmsl	Ex ground elev	7.6' fmsl
Depth to water table (in.)	33	Depth to water table (in.)	34	Depth to water table (in.)	32
Est. water table depth elev.	5.15' fmsl	Est. water table depth elev.	5.16' fmsl	Est. water table depth elev.	4.93' fmsl
Depth to SHWL (in)	29	Depth to SHWL (in)	30	Depth to SHWL (in)	28
Est. SHWL elev.	5.48'	Est. SHWL elev.	5.50'	Est. SHWL elev.	5.33'

The SHWL evaluation was performed by advancing the hand auger borings to a depth of approximately four feet below ground surface at each location. The soils were field evaluated by observing the actual moisture content in the soil, matrix and mottle colors. Depending on the soil texture, the soil color will indicate processes that are driven by seasonal high water table fluctuations, such as iron reduction, oxidation and organic matter staining. Field evaluations are based upon secondary evidence and not on direct groundwater level measurements. Groundwater levels fluctuate based upon numerous factors and these findings do not indicate that groundwater levels have not or will not rise above the noted depths.

The infiltration rate of the soil influences the volume of surface runoff that results from given storm events, (i.e. soils with high infiltration rates produce lower runoff volumes). As per the USDA, SCS, Soil Survey of Dare County, NC, the soils group within the project limits evaluated is approximately equally divided between Duckston fine sands and Corolla fine sands, consisting of soils with the high infiltration rates, (20 in/hr).

Supplemental USDA Soils data is being provided with this narrative update for reference.

Stormwater Narrative:

The stormwater management system has been designed for the 10-yr, 2-hr, 4.3” rainfall design storm flood control requirement as required by the Town of Kill Devil Hills Code of Ordinances Ordinance.

The proposed impervious surfaces will primarily sheet flow overland to both a collection swale to the east and a connected infiltration basin, sited along the southern and western project boundary. Stormwater runoff from the building will be collected and dispersed via a perimeter collection system to the adjoining driveways to sheet flow into a single infiltration basin sited along the property frontage. The eastern portion of the parking area has been outfitted with a concrete curb to convey runoff, via several concrete flumes, through a sump and velocity dissipation device, and into a perimeter collection swale. Erosion control stone is proposed at all inlet points in an effort to dissipate runoff and mitigate potential erosive velocity conditions. The stormwater control measures side slopes will be broad, minimum of 3:1 horizontal to vertical side slopes, in an effort to maximize infiltration for enhanced removal efficiency.

Due to the size and nature of the proposed design, only (1) on-site contributing drainage area has been defined. With the exception of those portions of the ingress/egress drives sited within the Right-of-Way margins, all runoff generated from the proposed impervious surfaces will be directed to the stormwater management system. Stormwater system drawdown will be accomplished via infiltration with basin surface storage being sized to accommodate the minimum Town volume requirement. System components will be designed in accordance with the NCDEQ Minimum Design Criteria requirements for infiltration devices. An approved state stormwater permit is required to be submitted to the Town of Kill Devil Hills in advance of any land disturbing activities.

Please note the basin bottom elevations have been raised to create greater separation to the water table. Additional soils investigation will be performed in accordance with NCDEQ stormwater management application requirements.

Existing Development Activities: undeveloped

Project Funding: Private

River Basin: Buzzard Bay SC

Proposed Impervious Coverage: 27.5% ±

Buffer Requirements: 100’ minimum

Buffer Provided: 100’ plus

Off-site runoff: NA

Site Soils: Duckston and Corolla fine sands

Construction: A contractor for this job has yet to be determined. It is anticipated that the same contractor conducting the land-disturbing activities will also be responsible for waste related activities and disposal.

Water Distribution:

Water service to this development will be supplied via an individual water service line, estimated to be 1” in size, which will be connected to an existing watermain located along Martin Street. A copy of the Water Meter Service Sizing Form is attached hereto.

A minimum 10’ lateral separation has been provided between the water service line and wastewater disposal system in accordance with the Laws and Rules for Sewage Treatment and Disposal Systems (15A NCAC 18A.1900).

Waste Water:

Sanitary sewage will be collected, and conveyed to a proposed on-site wastewater systems that will serve the proposed dentist building. A 999 gallons per day low-pressure pipe engineered wastewater system design has been reviewed and approved by the Dare County Health Department. A copy of the permit approval is attached with this package.

Utilities:

Services for Underground Power, (NC Dominion Power), Cable (Charter), and telephone (Brightspeed) will be extended to serve the subject properties. Final locations of these services will typically be determined by the service providers. An exterior lighting design with photometry is included with this submission. All outdoor lighting shall be designed, installed and lighting levels maintained in accordance with 153-074, Lighting of the Town Code of Ordinances.

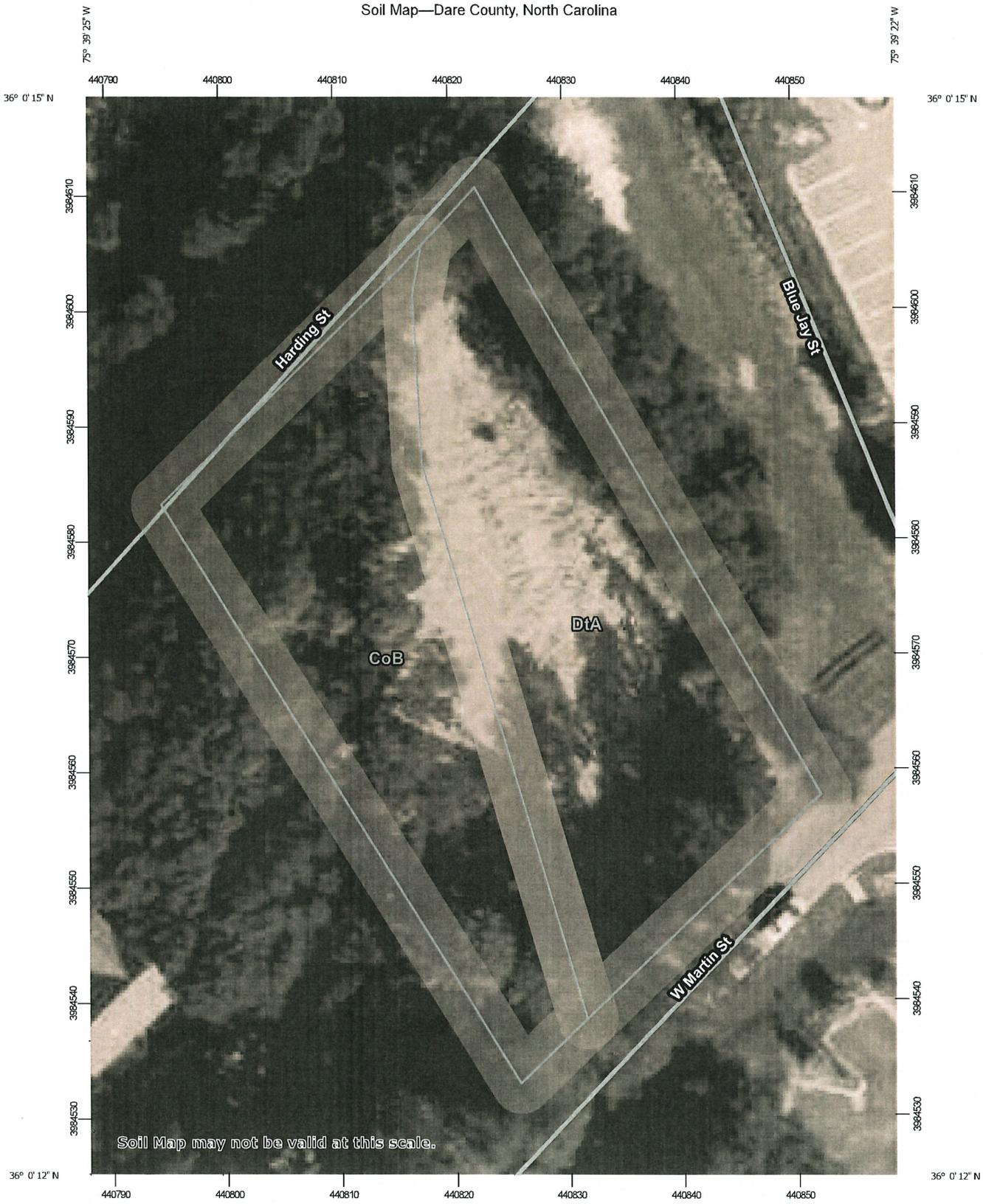
Solid Waste:

An on-site dumpster located on a concrete pad with associative screening is included on the Site Development Plan, (Sheet C2) and associative construction details noted on Sheet C5.

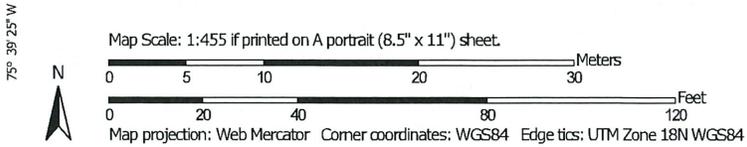
Ingress/Egress/Loading:

This application proposes one point of ingress/egress to the subject property. The primary entrance is via a connection to Martin St., which runs along the property frontage to the south. No site-specific loading zone has been provided with this application. The frequency and type of deliveries to support the business operation will be such that a 10'x20' parking stall can be utilized for this purpose.

Soil Map—Dare County, North Carolina



Soil Map may not be valid at this scale.



Soil Map—Dare County, North Carolina

MAP LEGEND

- | | |
|--|---|
| Area of Interest (AOI) |  Spoil Area |
|  Area of Interest (AOI) |  Stony Spot |
| Soils |  Very Stony Spot |
|  Soil Map Unit Polygons |  Wet Spot |
|  Soil Map Unit Lines |  Other |
|  Soil Map Unit Points |  Special Line Features |
| Special Point Features | Water Features |
|  Blowout |  Streams and Canals |
|  Borrow Pit | Transportation |
|  Clay Spot |  Rails |
|  Closed Depression |  Interstate Highways |
|  Gravel Pit |  US Routes |
|  Gravelly Spot |  Major Roads |
|  Landfill |  Local Roads |
|  Lava Flow | Background |
|  Marsh or swamp |  Aerial Photography |
|  Mine or Quarry | |
|  Miscellaneous Water | |
|  Perennial Water | |
|  Rock Outcrop | |
|  Saline Spot | |
|  Sandy Spot | |
|  Severely Eroded Spot | |
|  Sinkhole | |
|  Slide or Slip | |
|  Sodic Spot | |

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.
 Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Dare County, North Carolina
 Survey Area Data: Version 24, Sep 13, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 7, 2022—Dec 18, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CoB	Corolla fine sand, 0 to 6 percent slopes, rarely flooded	0.3	46.5%
DtA	Duckston fine sand, 0 to 2 percent slopes, occasionally flooded	0.3	53.5%
Totals for Area of Interest		0.5	100.0%

Engineering Properties

This table gives the engineering classifications and the range of engineering properties for the layers of each soil in the survey area.

Hydrologic soil group is a group of soils having similar runoff potential under similar storm and cover conditions. The criteria for determining Hydrologic soil group is found in the National Engineering Handbook, Chapter 7 issued May 2007 (<http://directives.sc.egov.usda.gov/OpenNonWebContent.aspx?content=17757.wba>). Listing HSGs by soil map unit component and not by soil series is a new concept for the engineers. Past engineering references contained lists of HSGs by soil series. Soil series are continually being defined and redefined, and the list of soil series names changes so frequently as to make the task of maintaining a single national list virtually impossible. Therefore, the criteria is now used to calculate the HSG using the component soil properties and no such national series lists will be maintained. All such references are obsolete and their use should be discontinued. Soil properties that influence runoff potential are those that influence the minimum rate of infiltration for a bare soil after prolonged wetting and when not frozen. These properties are depth to a seasonal high water table, saturated hydraulic conductivity after prolonged wetting, and depth to a layer with a very slow water transmission rate. Changes in soil properties caused by land management or climate changes also cause the hydrologic soil group to change. The influence of ground cover is treated independently. There are four hydrologic soil groups, A, B, C, and D, and three dual groups, A/D, B/D, and C/D. In the dual groups, the first letter is for drained areas and the second letter is for undrained areas.

The four hydrologic soil groups are described in the following paragraphs:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

Depth to the upper and lower boundaries of each layer is indicated.

Texture is given in the standard terms used by the U.S. Department of Agriculture. These terms are defined according to percentages of sand, silt, and clay in the fraction of the soil that is less than 2 millimeters in diameter. "Loam," for example, is soil that is 7 to 27 percent clay, 28 to 50 percent silt, and less than 52 percent sand. If the content of particles coarser than sand is 15 percent or more, an appropriate modifier is added, for example, "gravelly."

Classification of the soils is determined according to the Unified soil classification system (ASTM, 2005) and the system adopted by the American Association of State Highway and Transportation Officials (AASHTO, 2004).

The Unified system classifies soils according to properties that affect their use as construction material. Soils are classified according to particle-size distribution of the fraction less than 3 inches in diameter and according to plasticity index, liquid limit, and organic matter content. Sandy and gravelly soils are identified as GW, GP, GM, GC, SW, SP, SM, and SC; silty and clayey soils as ML, CL, OL, MH, CH, and OH; and highly organic soils as PT. Soils exhibiting engineering properties of two groups can have a dual classification, for example, CL-ML.

The AASHTO system classifies soils according to those properties that affect roadway construction and maintenance. In this system, the fraction of a mineral soil that is less than 3 inches in diameter is classified in one of seven groups from A-1 through A-7 on the basis of particle-size distribution, liquid limit, and plasticity index. Soils in group A-1 are coarse grained and low in content of fines (silt and clay). At the other extreme, soils in group A-7 are fine grained. Highly organic soils are classified in group A-8 on the basis of visual inspection.

If laboratory data are available, the A-1, A-2, and A-7 groups are further classified as A-1-a, A-1-b, A-2-4, A-2-5, A-2-6, A-2-7, A-7-5, or A-7-6. As an additional refinement, the suitability of a soil as subgrade material can be indicated by a group index number. Group index numbers range from 0 for the best subgrade material to 20 or higher for the poorest.

Percentage of rock fragments larger than 10 inches in diameter and 3 to 10 inches in diameter are indicated as a percentage of the total soil on a dry-weight basis. The percentages are estimates determined mainly by converting volume percentage in the field to weight percentage. Three values are provided to identify the expected Low (L), Representative Value (R), and High (H).

Percentage (of soil particles) passing designated sieves is the percentage of the soil fraction less than 3 inches in diameter based on an oven-dry weight. The sieves, numbers 4, 10, 40, and 200 (USA Standard Series), have openings of 4.76, 2.00, 0.420, and 0.074 millimeters, respectively. Estimates are based on laboratory tests of soils sampled in the survey area and in nearby areas and on estimates made in the field. Three values are provided to identify the expected Low (L), Representative Value (R), and High (H).

Liquid limit and plasticity index (Atterberg limits) indicate the plasticity characteristics of a soil. The estimates are based on test data from the survey area or from nearby areas and on field examination. Three values are provided to identify the expected Low (L), Representative Value (R), and High (H).

References:

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

Report—Engineering Properties

Absence of an entry indicates that the data were not estimated. The asterisk ** denotes the representative texture; other possible textures follow the dash. The criteria for determining the hydrologic soil group for individual soil components is found in the National Engineering Handbook, Chapter 7 issued May 2007(<http://directives.sc.egov.usda.gov/OpenNonWebContent.aspx?content=17757.wba>). Three values are provided to identify the expected Low (L), Representative Value (R), and High (H).

Engineering Properties--Dare County, North Carolina														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Pct Fragments		Percentage passing sieve number--				Liquid limit	Plasticity Index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>L-R-H</i>	<i>L-R-H</i>	<i>L-R-H</i>	<i>L-R-H</i>	<i>L-R-H</i>	<i>L-R-H</i>	<i>L-R-H</i>	
CoB---Corolla fine sand, 0 to 6 percent slopes, rarely flooded														
Corolla	85	A	0-3	Sand, fine sand	SP-SM	A-2-4, A-3	0-0-0	0-0-0	100-100-100	79-91-100	73-85-95	7-9-12	7-8-10	NP
			3-26	Fine sand, sand	SP-SM	A-2-4, A-3	0-0-0	0-0-0	100-100-100	79-91-100	73-85-95	7-9-12	7-8-10	NP
			26-32	Sand, fine sand	SP, SP-SM, SW	A-3	0-0-0	0-0-0	100-100-100	79-91-100	59-69-78	4-6-9	7-10-14	NP
			32-80	Sand, fine sand	SP, SP-SM, SW	A-3	0-0-0	0-0-0	100-100-100	79-91-100	59-69-78	4-6-9	7-10-14	NP
Duckston	5	A/D	0-8	Sand, fine sand	SP, SP-SM	A-2-4, A-3	0-0-0	0-0-0	100-100-100	94-97-100	86-91-96	8-10-13	10-13-15	NP
			8-13	Sand, fine sand	SP, SP-SM	A-2-4, A-3	0-0-0	0-0-0	100-100-100	94-97-100	70-74-79	5-7-10	10-13-15	NP
			13-17	Sand, fine sand	SP, SP-SM	A-2-4, A-3	0-0-0	0-0-0	100-100-100	94-97-100	70-74-79	5-7-10	10-13-15	NP
			17-80	Fine sand, sand	SP, SP-SM	A-2-4, A-3	0-0-0	0-0-0	100-100-100	94-97-100	70-74-79	5-7-10	10-13-15	NP
Carteret, high	2	A/D	0-10	Sand, fine sand	SP, SP-SM	A-3	0-0-0	0-1-3	95-97-100	85-91-100	63-71-80	6-9-13	9-12-14	NP-0-1
			10-80	Sand, fine sand	SP, SP-SM	A-3	0-0-0	0-1-3	95-97-100	85-91-100	63-71-80	6-9-13	9-12-14	NP-0-1

Engineering Properties--Dare County, North Carolina														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Pct Fragments		Percentage passing sieve number--				Liquid limit	Plasticity Index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>											
D1A--Duckston fine sand, 0 to 2 percent slopes, occasionally flooded														
Duckston	90	A/D	0-8	Sand, fine sand	SP-SM	A-2-4, A-3	0- 0- 0	0- 0- 0	100-100 -100	94-97-1 00	86-91- 96	8-10- 13	7-8 -10	NP
			8-13	Sand, fine sand	SP-SM	A-3	0- 0- 0	0- 0- 0	100-100 -100	94-97-1 00	70-74- 79	5- 7- 10	7-10 -14	NP
			13-17	Sand, fine sand	SP-SM	A-3	0- 0- 0	0- 0- 0	100-100 -100	94-97-1 00	70-74- 79	5- 7- 10	7-10 -14	NP
			17-80	Fine sand, sand	SP-SM	A-3	0- 0- 0	0- 0- 0	100-100 -100	94-97-1 00	70-74- 79	5- 7- 10	7-10 -14	NP

Data Source Information

Soil Survey Area: Dare County, North Carolina
 Survey Area Data: Version 24, Sep 13, 2023

Stormwater Management Calculations



May 5, 2024

A handwritten signature in black ink, appearing to read "David M. Ryan", written over a horizontal line.

Rational Method Runoff Calculations

10-yr 2-hr Design Storm Event

4.3 in. total rainfall

Post-Development Conditions

Total Lot Area 31,751 sf = 0.73 ac.

Impervious Surfaces

Structure w/decks 3,401 sf = 0.08 ac.

Concrete drives and parking 4,525 sf = 0.10 ac.

Permeable pavers 3,237 sf = 0.07 ac.

Concrete walkway & dumpster pad 819 sf = 0.02 ac.

Total 11,982 sf = 0.28 ac.

Rational Method Runoff Coefficients

Type of Surface	C Factor
For all watertight roof surfaces	0.75 to 0.95
For asphalt pavements	0.80 to 0.95
For concrete pavements	0.70 to 0.90
For gravel pavements	0.35 to 0.70
Permeable pavement	0.25 to 0.60
*For impervious soils (heavy)	0.40 to 0.65
*For impervious soils, with turf	0.30 to 0.55
*For slightly pervious soils	0.15 to 0.40
*For slightly pervious soils, with turf	0.10 to 0.30
*For moderately pervious soils	0.05 to 0.20
*For moderately pervious soils, with turf	0.00 to 0.10

*For slopes from 1% to 2%

Coefficient Calculations

Impervious Surfaces

Structure w/decks 3,401 s.f.

Equivalent Runoff Coefficient 0.95

Concrete drives and parking 4,525 s.f.

Equivalent Runoff Coefficient 0.90

Permeable pavers 3,237 s.f.

Equivalent Runoff Coefficient 0.40

Concrete sidewalk and dumpster pad 819 s.f.

Equivalent Runoff Coefficient 0.90

Residual Lawn Area 19,769 s.f.

Equivalent Runoff Coefficient 0.10

$C_{av} = \frac{(3401 \times 0.95) + (4750 \times 0.95) + (3230 \times 0.6) + (859 \times 0.9) + (19438 \times 0.1)}{31,678 \text{ sf}}$ 0.36

$Q_p = CIA$

C = 0.36

I = 2.15 in/hr

A = 0.73 ac.

$Q_p = CIA = 0.5583 \text{ cfs}$

Design Storm Event Duration 2.0 hrs.

Post-Development Runoff Volume Required = $Q_p \times \text{time}$	4,020 cf
--	-----------------

Post-Development Runoff Volume Provided=	4,035 cf O.K.
---	----------------------

Lighting Plan Photometry

Project 1

Partner for Contact:
Order No.:
Company:
Customer No.:

Date: 05 / 05 / 2024
Operator:



Operator
Telephone
Fax
e-Mail

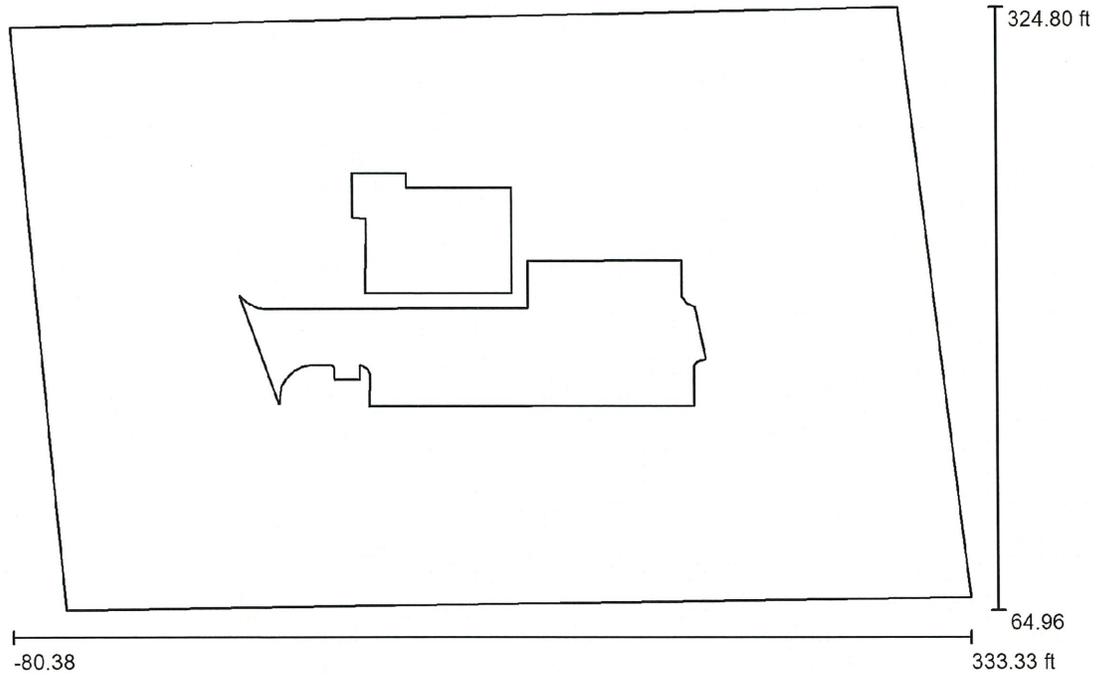
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Greyscale (E)	13
Value Chart (E)	14



Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / Planning data



Light loss factor: 0.80, ULR (Upward Light Ratio): 3.5%

Scale 1:902

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	6	990106 solar light (1.000)	16347	19637	100.1
Total:			98081	117824	600.6

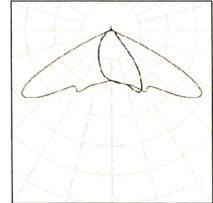


Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / Luminaire parts list

6 Pieces 990106 solar light
Article No.: 990106
Luminous flux (Luminaire): 16347 lm
Luminous flux (Lamps): 19637 lm
Luminaire Wattage: 100.1 W
Luminaire classification according to CIE: 97
CIE flux code: 52 89 98 97 83
Fitting: 1 x Philips 3030 he (Correction Factor 1.000).

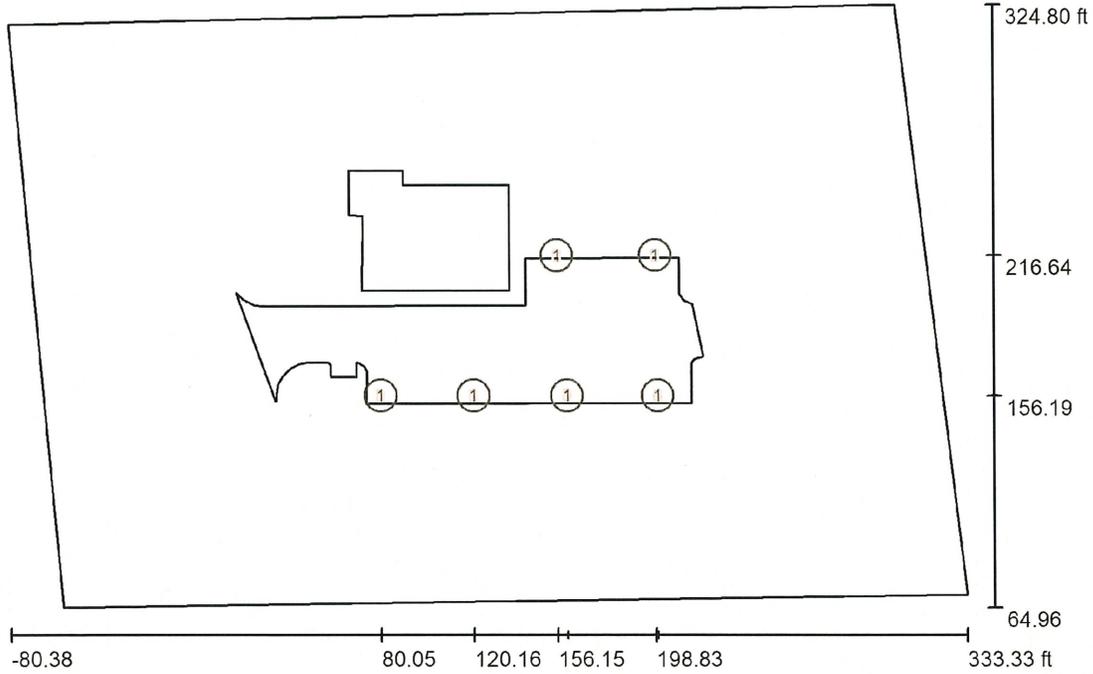
See our luminaire catalog for an image of the luminaire.





Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / Luminaires (layout plan)



Scale 1 : 902

Luminaire Parts List

No.	Pieces	Designation
1	6	990106 solar light

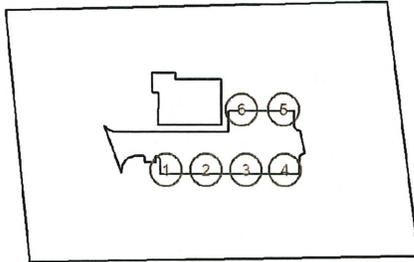


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Exterior Scene 1 / Luminaires (coordinates list)

990106 solar light

16347 lm, 100.1 W, 1 x 1 x Philips 3030 he (Correction Factor 1.000).

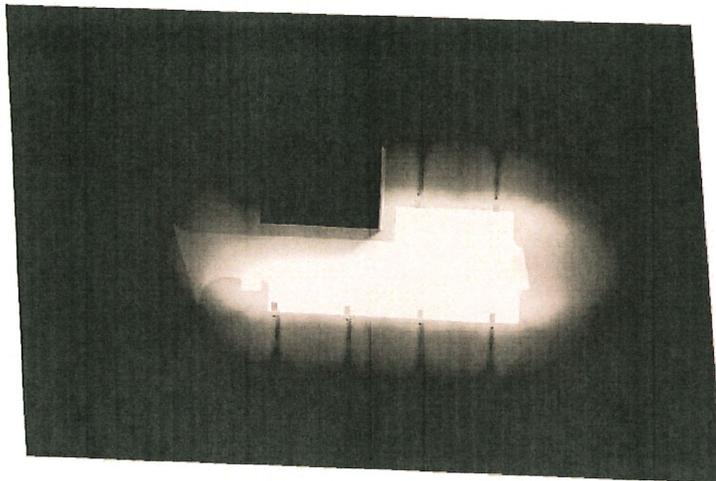


No.	Position [ft]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	80.052	156.245	20.000	0.0	25.0	-90.0
2	120.155	156.188	20.000	0.0	25.0	-90.0
3	160.431	156.245	20.000	0.0	25.0	-90.0
4	199.801	156.245	20.000	0.0	25.0	-90.0
5	198.825	216.766	20.000	0.0	25.0	90.1
6	156.147	216.643	20.000	0.0	25.0	90.1



Operator
Telephone
Fax
e-Mail

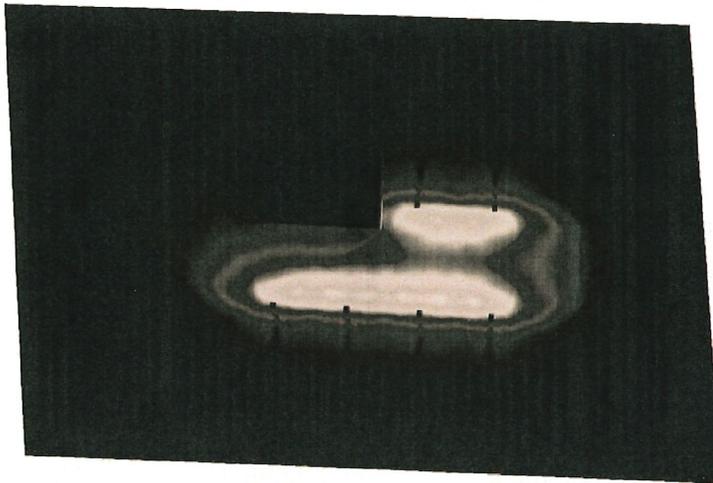
Exterior Scene 1 / 3D Rendering





Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / False Color Rendering



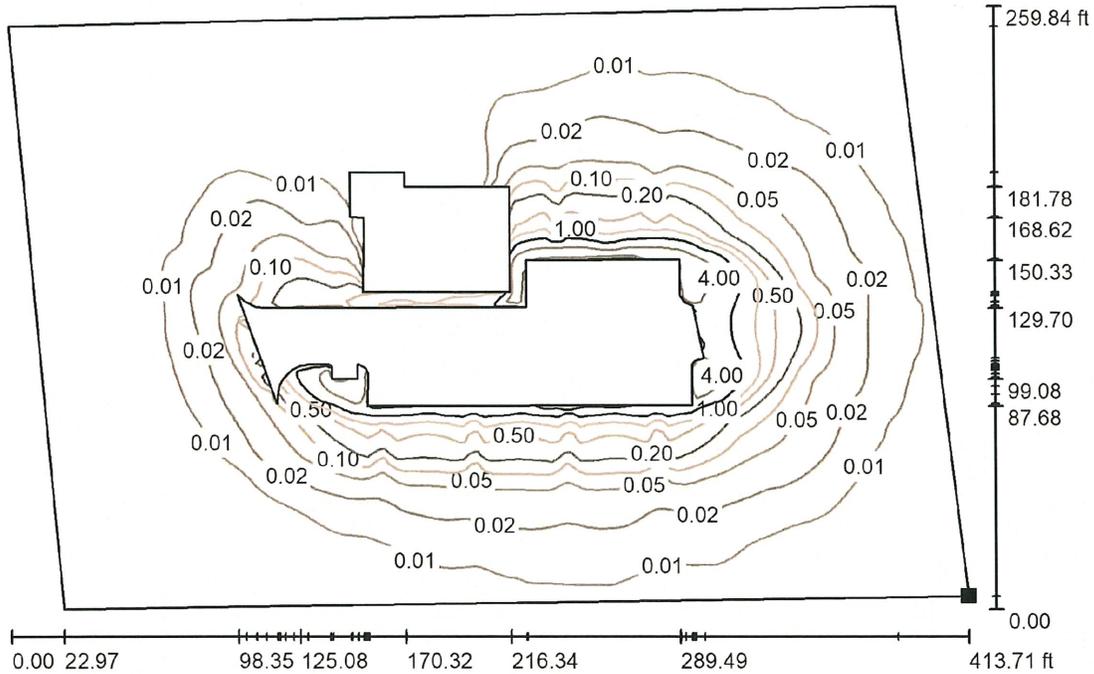
0 2.50 5.00 7.50 10.00 12.50 15.00 17.50 20.00

fc



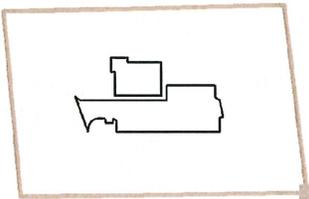
Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / Ground Element 3 / Surface 1 / Isolines (E)



Values in Footcandles, Scale 1 : 902

Position of surface in external scene:
Marked point:
(333.329 ft, 70.537 ft, 0.000 ft)



Grid: 128 x 128 Points

E_{av} [fc]
0.22

E_{min} [fc]
0.00

E_{max} [fc]
7.84

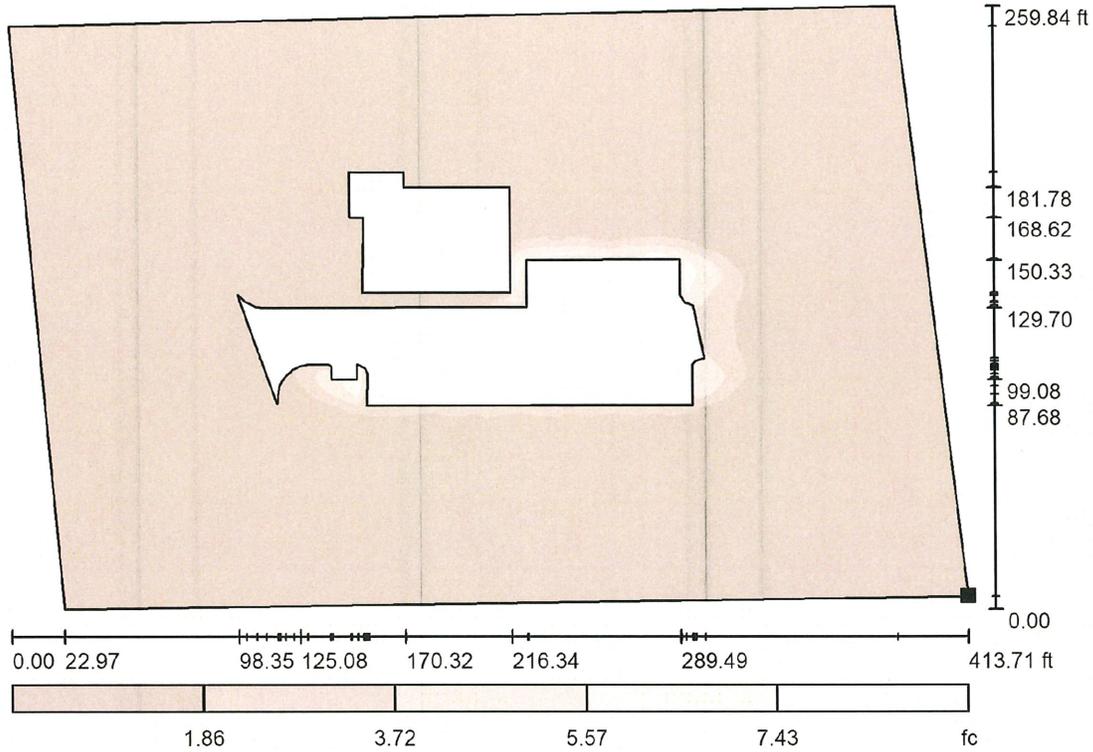
u_0
0.000

E_{min} / E_{max}
0.000



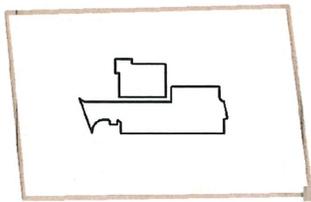
Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / Ground Element 3 / Surface 1 / Greyscale (E)



Scale 1 : 902

Position of surface in external scene:
Marked point:
(333.329 ft, 70.537 ft, 0.000 ft)



Grid: 128 x 128 Points

E_{av} [fc]
0.22

E_{min} [fc]
0.00

E_{max} [fc]
7.84

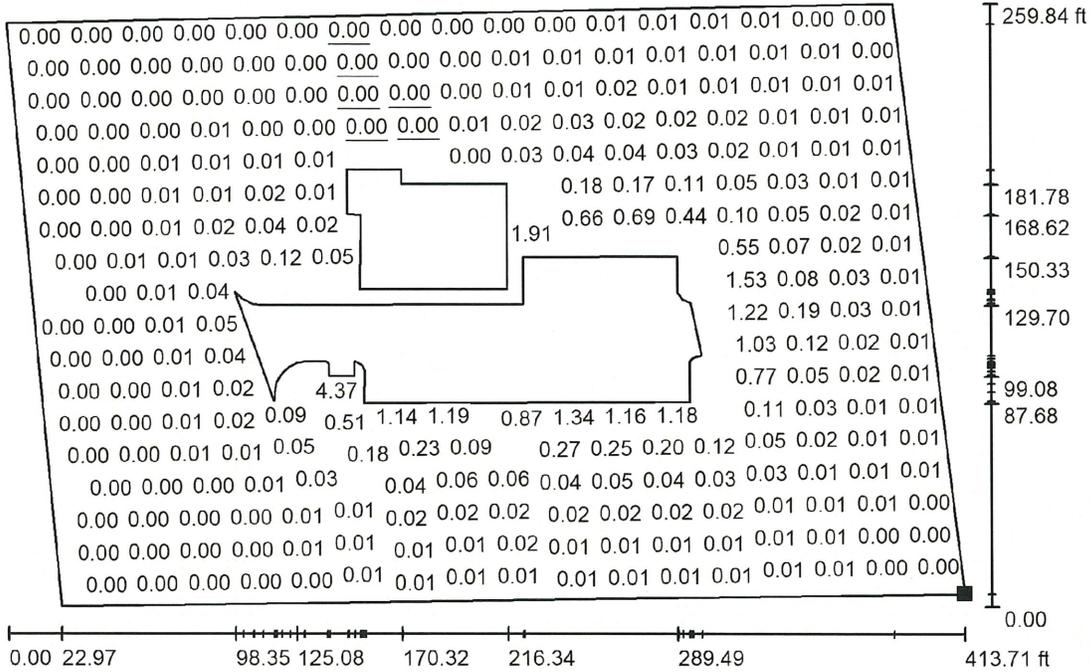
u_0
0.000

E_{min} / E_{max}
0.000



Operator
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e-Mail

Exterior Scene 1 / Ground Element 3 / Surface 1 / Value Chart (E)



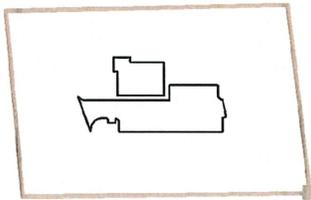
Values in Footcandles, Scale 1 : 902

Not all calculated values could be displayed.

Position of surface in external scene:

Marked point:

(333.329 ft, 70.537 ft, 0.000 ft)



Grid: 128 x 128 Points

E_{av} [fc]
0.22

E_{min} [fc]
0.00

E_{max} [fc]
7.84

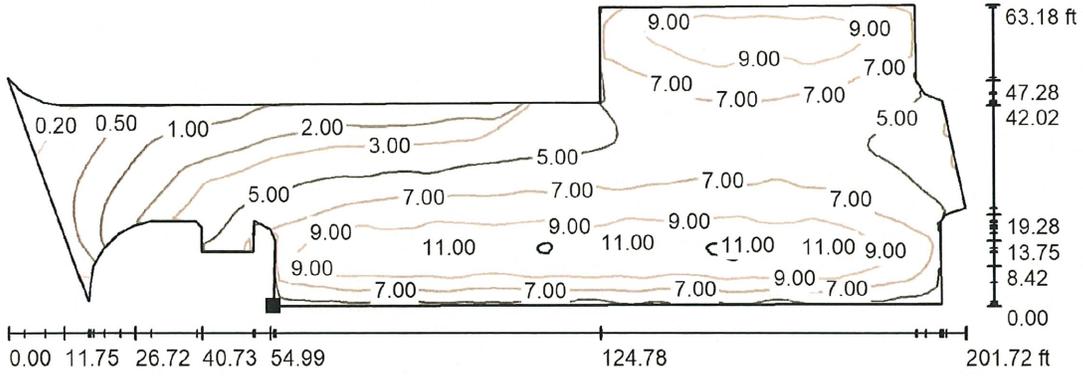
$u0$
0.000

E_{min} / E_{max}
0.000



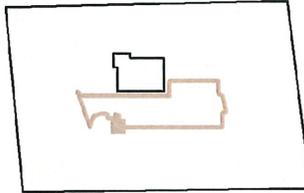
Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / Ground Element 1 // Isolines (E)



Values in Footcandles, Scale 1 : 440

Position of surface in external scene:
Marked point:
(73.648 ft, 152.641 ft, 0.000 ft)



Grid: 128 x 128 Points

E_{av} [fc]
6.19

E_{min} [fc]
0.07

E_{max} [fc]
11

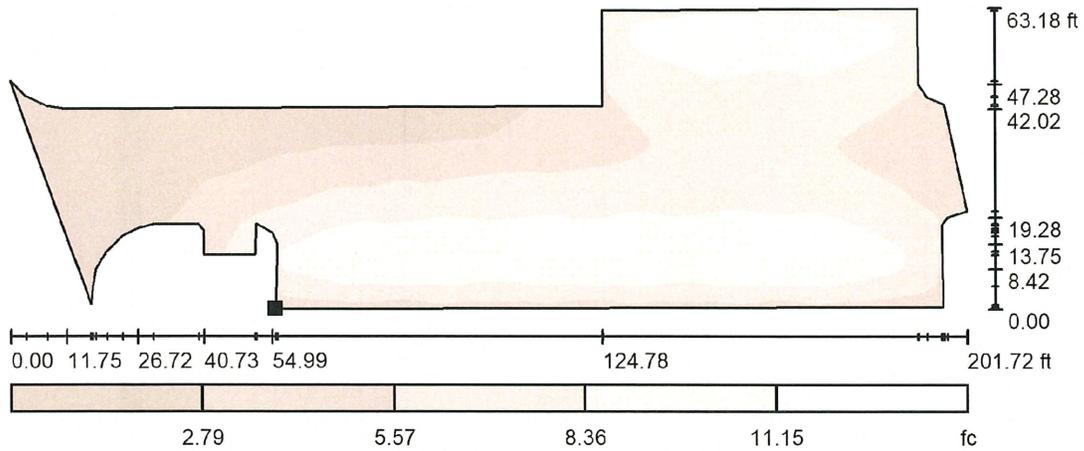
u_0
0.011

E_{min} / E_{max}
0.006



Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / Ground Element 1 // Greyscale (E)

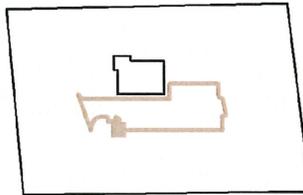


Scale 1 : 440

Position of surface in external scene:

Marked point:

(73.648 ft, 152.641 ft, 0.000 ft)



Grid: 128 x 128 Points

E_{av} [fc]
6.19

E_{min} [fc]
0.07

E_{max} [fc]
11

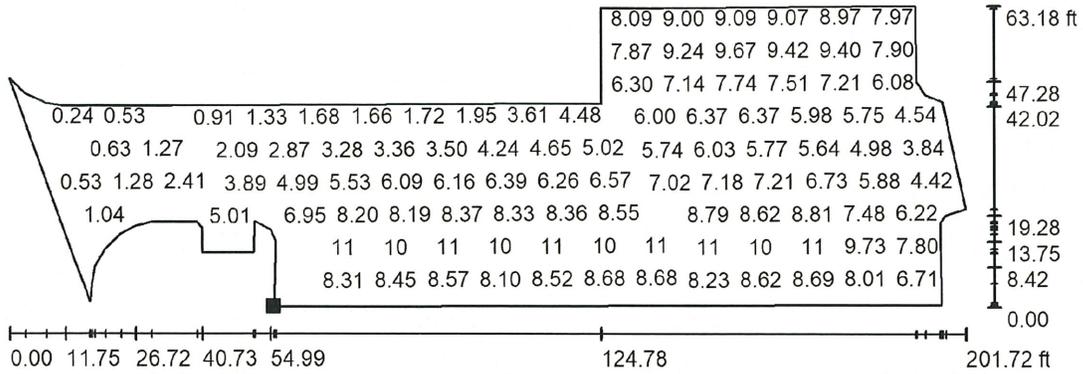
$u0$
0.011

E_{min} / E_{max}
0.006



Operator
Telephone
Fax
e-Mail

Exterior Scene 1 / Ground Element 1 // Value Chart (E)

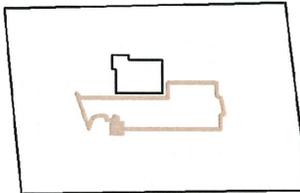


Values in Footcandles, Scale 1 : 440

Not all calculated values could be displayed.

Position of surface in external scene:

Marked point:
(73.648 ft, 152.641 ft, 0.000 ft)



Grid: 128 x 128 Points

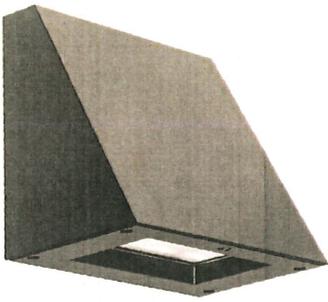
E_{av} [fc]
6.19

E_{min} [fc]
0.07

E_{max} [fc]
11

u_0
0.011

E_{min} / E_{max}
0.006



WDGE1 LED

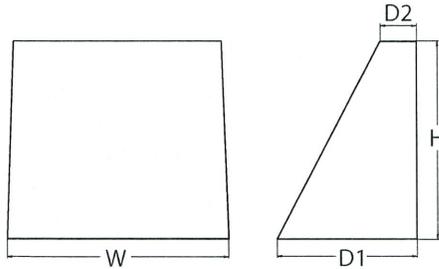
Architectural Wall Sconce



Catalog Number
Notes
Type

Specifications

Depth (D1):	5.5"
Depth (D2):	1.5"
Height:	8"
Width:	9"
Weight: (without options)	9 lbs



Introduction

The WDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing true site-wide solution.

WDGE1 delivers up to 2,000 lumens with a soft, non-pixelated light source, creating a visually comfortable environment. The compact size of WDGE1, with its integrated emergency battery backup option, makes it an ideal over-the-door wall-mounted lighting solution.

WDGE LED Family Overview

Luminaire	Optics	Standard EM, 0°C	Cold EM, -20°C	Sensor	Approximate Lumens (4000K, 80CRI)						
					P0	P1	P2	P3	P4	P5	P6
WDGE1 LED	Visual Comfort	4W		--	750	1,200	2,000	--	--	--	--
WDGE2 LED	Visual Comfort	10W	18W	Standalone / nLight	--	1,200	2,000	3,000	4,500	6,000	--
WDGE2 LED	Precision Refractive	10W	18W	Standalone / nLight	700	1,200	2,000	3,200	4,200	--	--
WDGE3 LED	Precision Refractive	15W	18W	Standalone / nLight	6,000	7,500	8,500	10,000	12,000	--	--
WDGE4 LED	Precision Refractive			Standalone / nLight	--	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information

EXAMPLE: WDGE1 LED P2 40K 80CRI VF MVOLT SRM PE DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting
WDGE1 LED	P0	27K 2700K	80CRI	VF Visual comfort forward throw	MVOLT	Shipped included SRM Surface mounting bracket ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only) ³ Shipped separately AWS 3/8inch Architectural wall spacer ⁴ PBBW Surface-mounted back box (top, left, right conduit entry) Use when there is no junction box available. ⁴
	P1	30K 3000K	90CRI	VW Visual comfort wide	347 ²	
	P2	35K 3500K				
		40K 4000K				
		50K ¹ 5000K				

Options	Finish
E4WH Emergency battery backup, Certified in CA Title 20 MAEDBS (4W, 0°C min) ⁵	DDBXD Dark bronze
PE Photocell, Button Type ⁶	DBLXD Black
DS Dual switching (comes with 2 drivers and 2 light engines; see page 3 for details)	DNAXD Natural aluminum
DMG 0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)	DWHXD White
BCE Bottom conduit entry for back box (PBBW). Total of 4 entry points.	DSSXD Sandstone
DSLE Dual Switching (1 Driver, 2 Light Engines)	DDBTXD Textured dark bronze
CCE Coastal Construction ⁴	DBLTXD Textured black
	DNATXD Textured natural aluminum
	DWHGXD Textured white
	DSSTXD Textured sandstone



COMMERCIAL OUTDOOR

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com
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WDGE1 LED
 Rev. 04/25/24

Accessories

Ordered and shipped separately.

WDGEAWS DDBXD	WDGE 3/8inch Architectural Wall Spacer (specify finish)
WDGE1PBBW DDBXD U	WDGE1 surface-mounted back box (specify finish)

NOTES

- 1 50K not available in 90CRI.
- 2 347V not available with E4WH, DS, DSLE or PE.
- 3 Not qualified for DLC. Not available with E4WH.
- 4 For PBBW and AWS require an RFA.
- 5 E4WH not available with PE or DS.
- 6 PE not available with DS.

Performance Data

Lumen Output

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

Performance Package	System Watts	Dist. Type	27K (2700K, 80 CRI)					30K (3000K, 80 CRI)					35K (3500K, 80 CRI)					40K (4000K, 80 CRI)					50K (5000K, 80 CRI)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P0	7W	VF	693	99	0	0	0	718	103	0	0	0	739	106	0	0	0	759	108	0	0	0	764	109	0	0	0
		VW	694	99	0	0	0	720	103	0	0	0	740	106	0	0	0	760	109	0	0	0	766	109	0	0	0
P1	10W	VF	1,120	112	0	0	0	1,161	116	0	0	0	1,194	119	0	0	0	1,227	123	0	0	0	1,235	123	0	0	0
		VW	1,122	112	0	0	0	1,163	116	0	0	0	1,196	120	0	0	0	1,229	123	0	0	0	1,237	124	0	0	0
P2	15W	VF	1,806	120	1	0	0	1,872	125	1	0	0	1,925	128	1	0	0	1,978	132	1	0	0	1,992	133	1	0	0
		VW	1,809	120	1	0	0	1,876	125	1	0	0	1,929	128	1	0	0	1,982	132	1	0	0	1,996	133	1	0	0

Electrical Load

Performance Package	System Watts	Current (A)				
		120V	208V	240V	277V	347V
P0	7W	0.060	0.035	0.030	0.026	--
	9W	--	--	--	--	0.026
P1	10W	0.082	0.049	0.043	0.038	--
	13W	--	--	--	--	0.046
P2	15W	0.132	0.081	0.072	0.064	--
	18W	--	--	--	--	0.056

Lumen Multiplier for 90CRI

CCT	Multiplier
27K	0.845
30K	0.867
35K	0.845
40K	0.885
50K	0.898

Lumen Output in Emergency Mode (4000K, 80 CRI)

Option	Dist. Type	Lumens
E4WH	VF	646
	VW	647

Lumen Ambient Temperature (LAT) Multipliers

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

Ambient		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98

Projected LED Lumen Maintenance

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

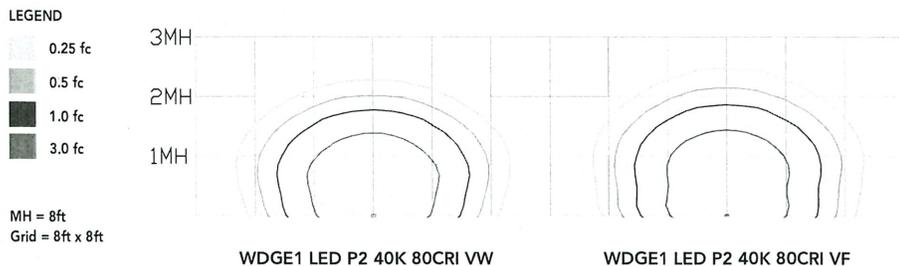
To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.96	>0.95	>0.91



Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting WEDGE LED homepage. Tested in accordance with IESNA LM-79 and LM-80 standards.



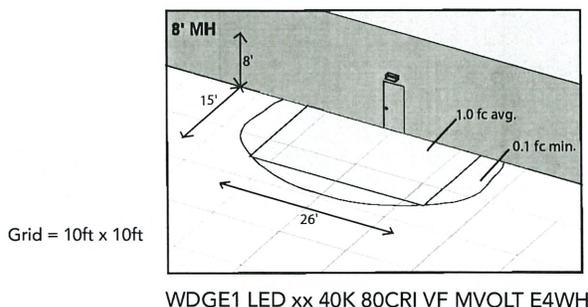
Emergency Egress Options

Emergency Battery Backup

The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product. All emergency battery backup configurations include an independent secondary driver with an integral relay to immediately detect loss of normal power and automatically energize the luminaire. The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time normal power is lost and maintain a minimum of 60% of the light output at the end of 90minutes.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9

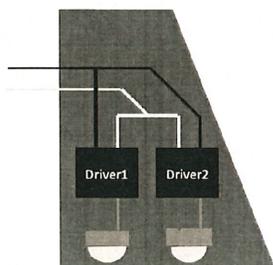
The example below shows illuminance of 1 fc average and 0.1 fc minimum in emergency mode with E4WH and VF distribution.



Dual Switching (DS) Option

The dual switching option offers operational redundancy that certain codes require. With this option the luminaire comes integrated with two drivers and two light engines. These work completely independent to each other so that a failure of any individual component does not cause the whole luminaire to go dark.

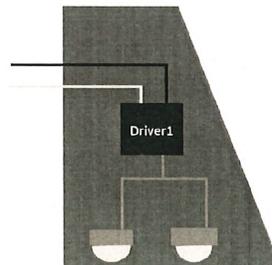
Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9

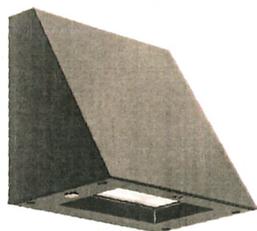


Dual Switching Light Engine (DSLE) Option

The dual switching option offers operational redundancy that certain codes require. With this option the luminaire comes integrated with one driver and two light engines. These work completely independent to each other so that a failure of either light engine does not cause the whole luminaire to go dark.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9



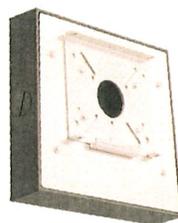


E4WH – 4W Emergency Battery Backup

D = 5.5"

H = 8"

W = 9"



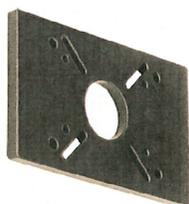
PBBW – Surface-Mounted Back Box

Use when there is no junction box available.

D = 1.75"

H = 8"

W = 9"



AWS – 3/8inch Architectural Wall Spacer

D = 0.38"

H = 4.4"

W = 7.5"

FEATURES & SPECIFICATIONS

INTENDED USE

Common architectural look, with clean rectilinear shape, of the WEDGE LED was designed to blend with any type of construction, whether it be tilt-up, frame or brick. Applications include commercial offices, warehouses, hospitals, schools, malls, restaurants, and other commercial buildings.

CONSTRUCTION

The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP66 rating for the luminaire.

FINISH

Exterior painted parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS

Well crafted reflector optics allow the light engine to be recessed within the luminaire, providing visual comfort, superior distribution, uniformity, and spacing in wall-mount applications. The WEDGE LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine consists of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L91/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%. Luminaire comes with built in 6kV surge protection, which meets a minimum Category C low exposure (per ANSI/IEEE C62.41.2). Fixture ships standard with 0-10v dimmable driver.

INSTALLATION

A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections. The 3/8" Architectural Wall Spacer (AWS) can be used to create a floating appearance or to accommodate small imperfections in the wall surface. The ICW option can be used to mount the luminaire inverted for indirect lighting in dry and damp locations. Design can withstand up to a 1.5 G vibration load rating per ANSI C136.31.

LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is IP66 rated. PIR options are rated for wet location. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/DPL to confirm which versions are qualified. International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 2700K and 3000K color temperature only and SRM mounting only.

GOVERNMENT PROCUREMENT

BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act. Please refer to www.acuitybrands.com/buy-america for additional information.

WARRANTY

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/sdp-product-warranty-terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

LUMINAIRE HOUSING

LEDs

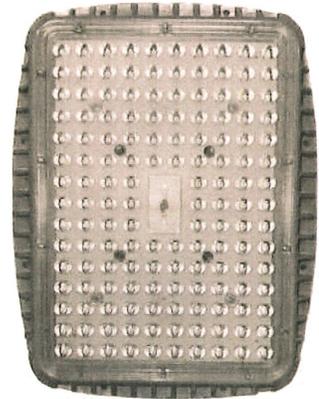
23520LM or 19600LM - 4000K TO 5000K

High pressure die-cast low-copper aluminum. Protection class (IP65). Beyond Solar uses a high quality Polyester Powder Coating from AKZO NOBEL. This powder coating provides an excellent salt and humidity resistance as well as ultra violet resistance for color retention for this product.

Our Luminaire is equipped with PHILIPS LUXEON HE PLUS High efficiency Chips offering and overall 196 Lumens per Watt efficacy.

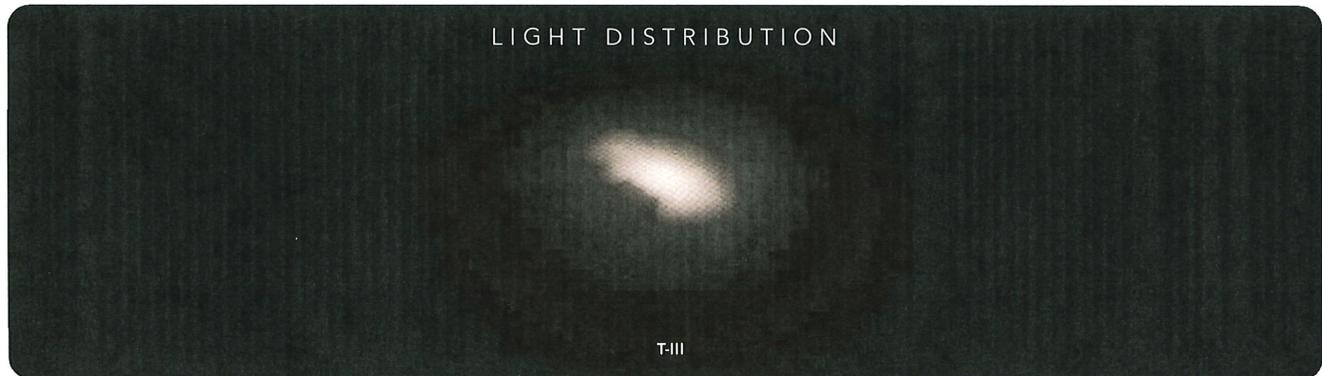
Our luminaire also complies with the DARK SKY requirement for light pollution with an Upward lighting of 0,71%

IP₆₅



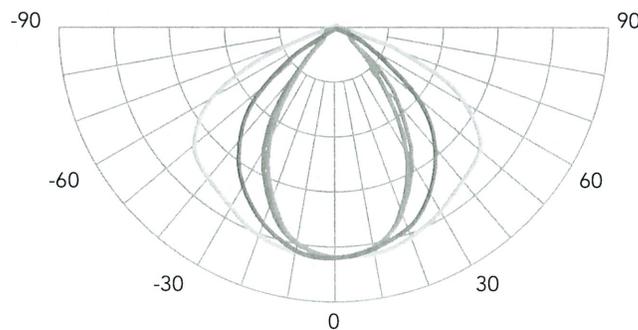
▶ LED	3030	LED QTY (PCS)	144	LENS (PCS)	4	CRI	> 80
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DIFFERENT OPTICS*



LIGHT DISTRIBUTION CURVES

AVERAGE BEAM ANGLE (50%) : **91,2 DEG**



- C0/180,129.4°
- C60/240,72.7°
- C30/210,96.3°
- C90/270,66.4°



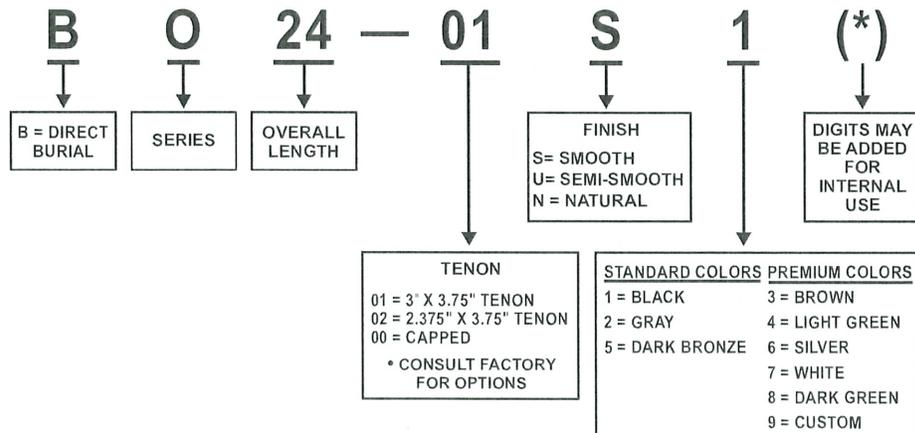
ROUND TAPERED COMPOSITE LIGHT POLE DIRECT BURIAL INSTALLATION

SHAKESPEARE O-SERIES DIRECT BURIAL POLES

OVERALL LENGTH	MOUNTING HEIGHT	BURIAL DEPTH	TIP DIAMETER	GROUNDLINE DIAMETER	WEIGHT
13	10	3	4.1	5.4	26
14	11	3	4.1	5.6	29
15	12	3	4.1	5.7	31
16	13	3	4.1	5.8	34
18	14	4	4.1	5.9	37
19	15	4	4.1	6.1	38
20	16	4	4.1	6.2	42
21	17	4	4.1	6.3	45
22	18	4	4.1	6.5	49
23	19	4	4.1	6.6	51
24	20	4	4.1	6.7	52

- Mounting heights to 20 feet
- Smooth, semi-smooth or natural finish
- 3 standard and 5 special architectural colors available
- High performance UV and weather-resistant pigmented resin system with an additional pigmented polyurethane coating.
- Tenon top or Drilled and Capped
- Standard 2-1/2" x 5" handhole located 18" above grade
- Standard 2 EA - 2-1/2" x 6" wire access hole 24" below grade
- Anti-rotation flare structurally integrated into the pole base during manufacture
- Poles are individually identified with a permanent embossed tag located 9" from tip.
- Sleeved individually for shipment
- Lightweight, easy to install, saves money

ORDERING INFORMATION



ROUND TAPERED COMPOSITE LIGHT POLE - DIRECT BURIAL INSTALLATION

SPECIFICATIONS

1. Lighting poles shall be fiberglass reinforced composite per Shakespeare design.
2. Wind loading shall be calculated for the appropriate wind velocity with a 3 second gust factor per ASCE.
3. Effective projected area (EPA) is the actual area adjusted with the appropriate drag coefficient (shape factor) to result in an equivalent area having a drag coefficient equal to one (1) using ANSI 136.20

MATERIALS

1. The round tapered pole shall be constructed by the filament winding process from thermosetting polyester resin and contain a minimum of 65 percent "E" type fiberglass by weight. The filament windings shall be continuously applied with uniform tension and shall be placed on the pole helically at low angles to provide axial strength. Additional windings shall be placed on the pole in a circular manner to provide compressive strength.
2. The resin to make the pole shall be ultraviolet resistant and pigmented approximately the same color as the final coating to be applied. A highly weather resistant, pigmented, polyurethane coating shall be applied to the pole. The coating shall have a minimum thickness of 1.5 mils.
3. The poles shall be flame resistant per ASTM D635. Specimens must cease to burn before the gauge mark of 100mm (3.9 inches) is reached.
4. (If applicable) The poles shall be delivered predrilled and capped (if applicable) to accommodate the lighting fixture(s) or mast arm(s) specified.
5. (If applicable) Tenons shall be permanently bonded to the fiberglass shaft and shall be hot-dipped galvanized steel to ASTM A153 or shall be 6061-T6 or A356-T6 aluminum.
6. The handhole opening shall be 2.5" x 5". The handhole cover is attached with a 1/4" socket head screw.

IDENTIFICATION & PACKAGING

- Each pole shall bear an identification tag which shall list the model, catalog number, month and year of manufacture.
Each pole shall be individually packaged for protection during shipping.

TESTING

The surface shall have been tested for a minimum of 5000 hours of accelerated testing in accordance with ASTM G154 (UV-A Lamp 340 NM wavelength 130° F, cycle lamp 4 hours on, 4 hours off) with the following performance results:

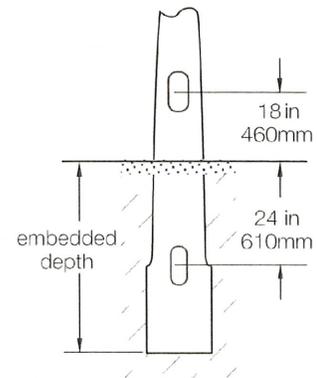
- Fiber exposure: None | Crazeing: None | Chalking: None | Color: Slight dulling may occur

WIND LOADING DATA

Wind speed (mph) values calculated as per ANSI C136.20 for a 3-second gust factor.

OVERALL LENGTH	MOUNTING HEIGHT	LUMINAIRE MAX WEIGHT (LBS.)	90 MPH	100 MPH	110 MPH	120 MPH	130 MPH	140 MPH	150 MPH
13	10	150	11.8	9.2	7.5	6.2	5.2	4.4	3.8
14	11	150	11.3	8.8	7.2	5.9	5.0	4.2	3.6
15	12	150	10.2	8.0	6.5	5.3	4.4	3.7	3.2
16	13	150	9.4	7.4	5.9	4.9	4.1	3.4	2.9
18	14	150	8.7	6.8	5.5	4.5	3.7	3.1	2.6
19	15	100	9.2	8.0	6.5	5.3	4.4	3.7	3.1
20	16	100	9.3	7.3	5.9	4.8	4.0	3.3	2.8
21	17	100	8.6	6.7	5.4	4.4	3.6	3.0	2.5
22	18	100	7.9	6.1	4.9	3.9	3.2	2.7	2.2
23	19	100	7.2	5.6	4.4	3.6	2.9	2.4	2.0
24	20	100	6.6	5.1	4.0	3.2	2.6	2.1	1.8

Direct Embedded Detail



SPC7695 11/15 skp-cs.com carries the most current spec information and supercedes these guidelines.

PROJECT NAME:
**MANER
 DENTIST
 OFFICE**
 1106 BLUE JAY STREET
 KILL DEVIL HILLS, NC

REVISIONS:	DATE:
TOWN REVIEW	3 / 18 / 24
TOWN REVISIONS	5 / 7 / 24
TOWN REVISIONS	5 / 18 / 24

DRAWING NAME:
**BUILDING
 PLANS**

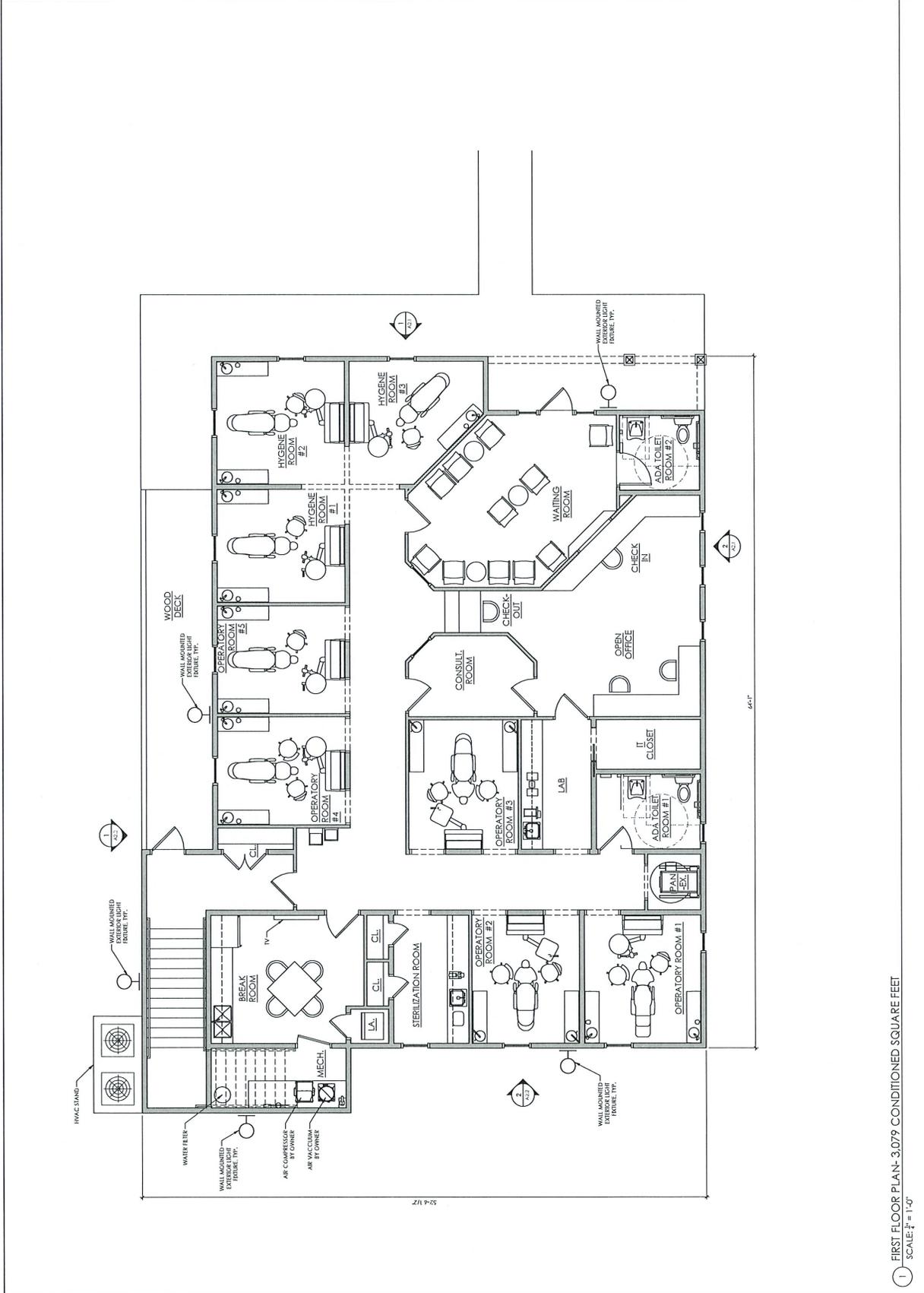
PRELIMINARY DRAWINGS
 NOT TO BE USED FOR
 CONSTRUCTION OR FOR
 ZONING REVIEW ONLY

DRAWN BY: CN
 DATE: 5 / 18 / 24
 SCALE: -

STAMP:
INCOMPLETE
 FOR INTERIM REVIEW
 ONLY AND NOT
 INTENDED FOR BIDDING,
 PROCUREMENT, PERMIT
 OR CONSTRUCTION
 PURPOSES.

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SHEET:
A1.1



1 FIRST FLOOR PLAN- 3,079 CONDITIONED SQUARE FEET
 SCALE: F = 1/8"

PROJECT NAME:
**MANER
 DENTIST
 OFFICE**
 1106 BLUE JAY STREET
 KILL DEVIL HILLS, NC

REVISIONS:	DATE:
TOWN REVIEW	3 / 18 / 24
TOWN REVISIONS	5 / 7 / 24
TOWN REVISIONS	5 / 18 / 24

DRAWING NAME:
**BUILDING
 PLANS**

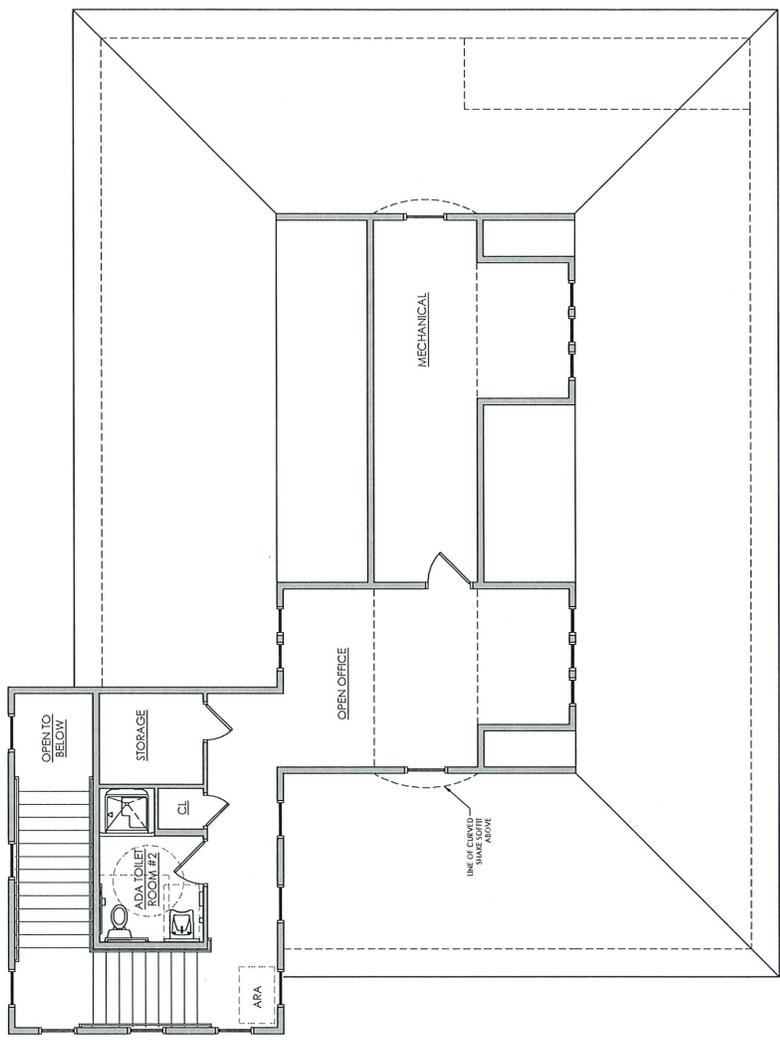
PRELIMINARY DRAWINGS
 NOT FOR CONSTRUCTION.
 FOR TOWN OF KILL DEVIL HILLS
 ZONING REVIEW ONLY

DRAWN BY: CN
 DATE: 5 / 18 / 24
 SCALE: -

STAMP:
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 FOR INTERIM REVIEW
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 OR CONSTRUCTION
 PURPOSES.

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SHEET:
A1.3



1 MEZZANINE FLOOR PLAN- 491 CONDITIONED SQUARE FEET + 249 UNCONDITIONED SQUARE FEET
 SCALE: 1/4" = 1'-0"

PROJECT NAME:
**MANER
 DENTIST
 OFFICE**
 1106 BLUE JAY STREET
 KILL DEVIL HILLS, NC

REVISIONS:	DATE:
TOWN REVIEW	3 / 18 / 24
TOWN REVISIONS	5 / 7 / 24
TOWN REVISIONS	5 / 18 / 24

DRAWING NAME:
**BUILDING
 PLANS**

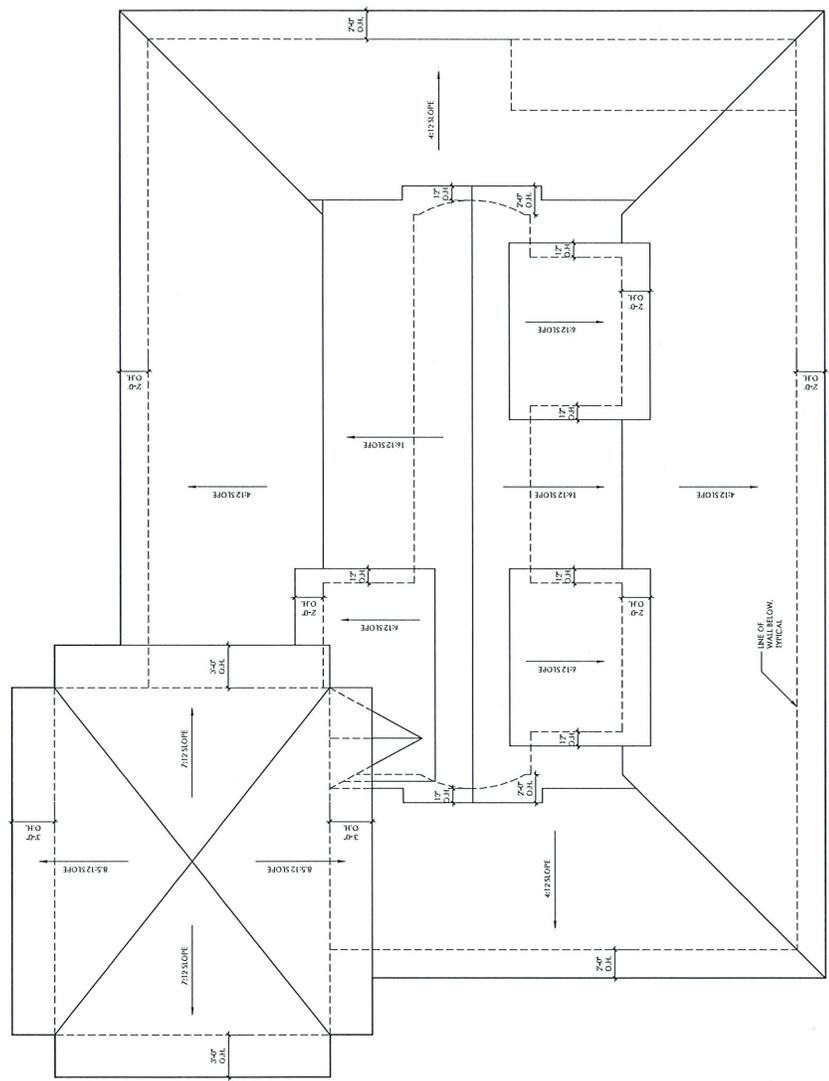
PRELIMINARY DRAWINGS
 NOT FOR CONSTRUCTION
 FOR TOWN OF KILL DEVIL HILLS
 ZONING REVIEW ONLY

DRAWN BY: CN

DATE: 5 / 18 / 24

SCALE: -

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 PURPOSES.



1 ROOF PLAN
 SCALE: 1/4" = 1'-0"

PROJECT NAME
**MANER
 DENTIST
 OFFICE**
 1106 BLUE JAY STREET
 KILL DEVIL HILLS, NC

REVISIONS:	DATE:
TOWN REVIEW	3 / 18 / 24
TOWN REVISIONS	5 / 7 / 24
TOWN REVISIONS	5 / 18 / 24

DRAWING NAME:
**EXTERIOR
 ELEVATIONS**

PRELIMINARY DRAWINGS
 FOR PERMITTING
 FOR TOWN OF KILL DEVIL HILLS
 ZONING REVIEW ONLY

DRAWN BY: CN

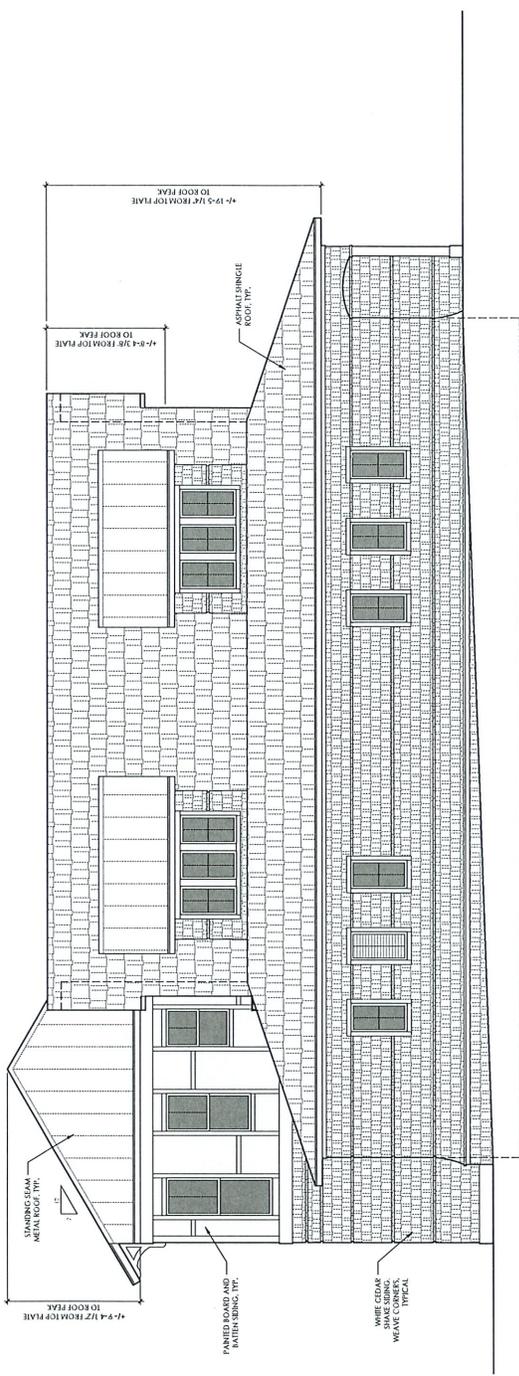
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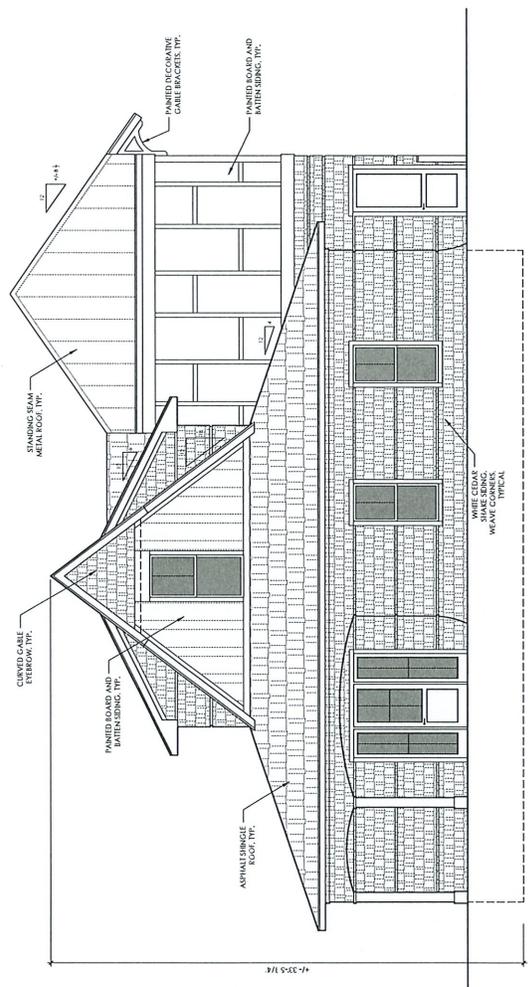
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SHEET:
A2.1



1 EAST ELEVATION
 SCALE: $\frac{1}{4}'' = 1'-0''$



2 NORTH ELEVATION
 SCALE: $\frac{1}{4}'' = 1'-0''$

PROJECT NAME:
**MANER
 DENTIST
 OFFICE**
 1106 BLUE JAY STREET
 KILL DEVIL HILLS, NC

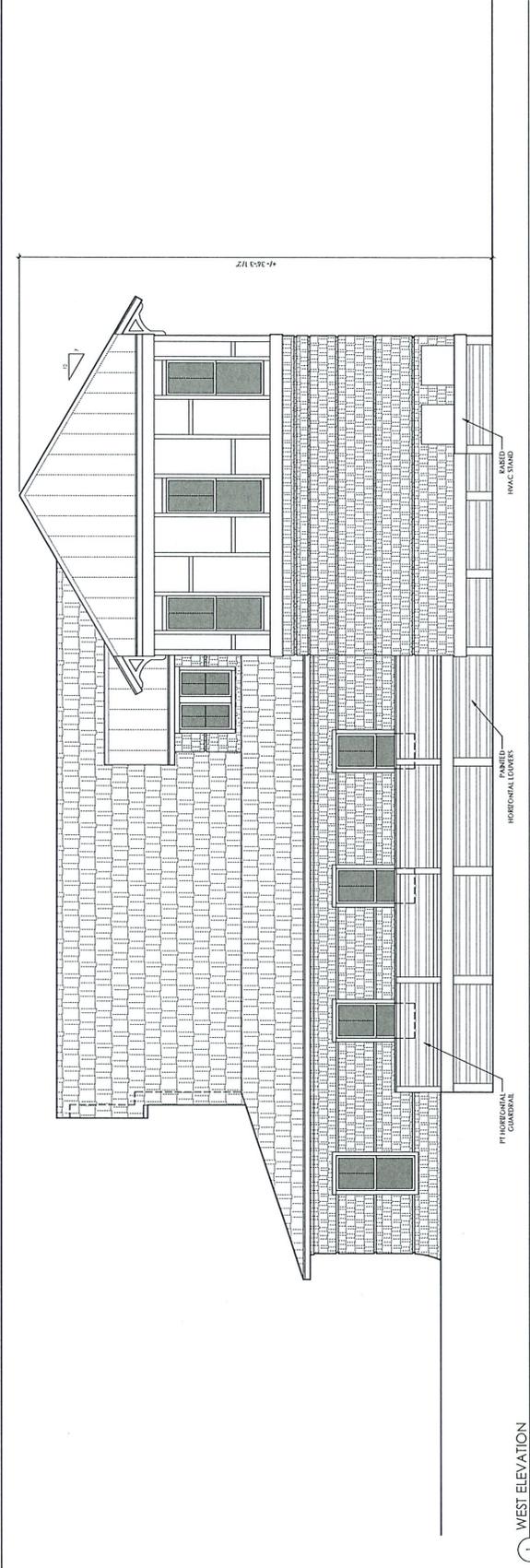
REVISIONS:	DATE:
TOWN REVIEW	3 / 18 / 24
TOWN REVISIONS	3 / 7 / 24
TOWN REVISIONS	3 / 18 / 24

DRAWING NAME:
**EXTERIOR
 ELEVATIONS**

PRELIMINARY DRAWINGS
 FOR TOWN OF KILL DEVIL HILLS
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1 WEST ELEVATION
 SCALE: 1/4" = 1'-0"



2 SOUTH ELEVATION
 SCALE: 1/4" = 1'-0"

