ATTAR
ENGINEERING, INC
CIVIL STRUCTURAL MARINE

Mr. Adam Causey, Director of Planning & Development
Town of Kittery, Maine
200 Rogers Road
Kittery, Maine 03904

May 2nd, 2022
Project No. C206-21

RE: Final Site Plan Review – Town Memo Revisions
Terra Cotta Pasta Company (Tax Map 3, Lot 1)
52 State Road, Kittery, Maine

Dear Mr. Causey:

On behalf of Kevin Cambridge and Terra Cotta Pasta Company, I have enclosed for your review and consideration a revised Plan Set and associated attachments for the above-referenced project. Revisions have been made to address comments presented in the Town Memo prepared for the April 28th, 2022 Planning Board Meeting.

- As discussed at the April 28th Planning Board Meeting, please refer to the Applicant's cover letter prepared on April 22nd, 2022 for a project background and updated overview on what has occurred during the approvals process and since the application was last before the Board upon receiving preliminary approval on December 9th, 2021.

- Elevation drawings provided with the Preliminary Plan application have been attached. The attached drawing displays the proposed building materials and maximum building height of 25.0'.

- Sheet 1 has been revised to include a callout noting the subject parcel, tax map and lot information, and lot size. Sheet 1 has similarly been revised to include widths and dimensions of the proposed travelway and pergola.

- General Note #3 on Sheet 1 has been revised to include the existing frontage for the lot of 175.01' as per Plan Reference 1. Said Plan Reference (Boundary Survey prepared by Wright-Pierce Engineers) is also attached.

- The Applicant has prepared several revised submissions to the Town's third-party reviewing agency CMA. Their March 16th 2022 Peer Review Memo was responded to on April 8th, and their April 21st Memo was responded to on April 22nd. As of the drafting of this cover letter there are no outstanding comments from CMA.

- The Grading & Utility Plan (Plan Set Sheet 3) provides a landscaping legend which includes the species, quantity, and size of all plantings to be included with the proposed development. Additionally, Grading & Utility Note #4 on Sheet 3 has been revised to provide clarity to the transparent hatch that represents the landscaped area of the subject parcel. General Note #9 on Sheet 1 has been revised to reference this note on Sheet 3.

- General Note #10 on Sheet 1 has been revised to state the existing hours of operation, which shall remain unchanged through the proposed development.

- Sheet 5 (Photometric Plan) has been revised to have an increased contrast between the lighting elements and other project linework that isn't essential for this sheet. A 'Photometric Plan Notes' segment has been added to the bottom of Sheet 5 which denotes the existing and proposed lighting depicted in this photometric plan. Lastly, all relevant lighting specification sheets for all proposed units has been attached to demonstrate compliance with Dark Sky optics.

- The proposed pedestrian access from the rear parking lot to the front of the business has been revised to include the construction of an ADA Switchback Ramp in the location of the proposed concrete stairs. An ADA Switchback Ramp Detail has been added to Sheet 4, and callouts to said ramp have been added to Sheets 1 & 3. Additionally, General Note #12 on Sheet 1 has been added to include material specifications and the addition of an ADA space to the rear parking lot. All relevant sheets in the Plan Set have been updated to reflect this change, as well as the landscaping calculation of General Note #9 on Sheet 1 and Grading & Utility Note #4 on Sheet 3.

- As discussed at the April 28th Planning Board Meeting, there is no change of use associated with this development, and the distribution of uses across the proposed addition are consistent with the parking calculation outlined in General Note #4 on Sheet 1. The first floor of the existing building shall be entirely dedicated to the storefront, the first floor of the proposed addition shall be entirely dedicated to kitchen space, and the second floor of both the existing and proposed areas shall be kept for storage with no proposed offices.

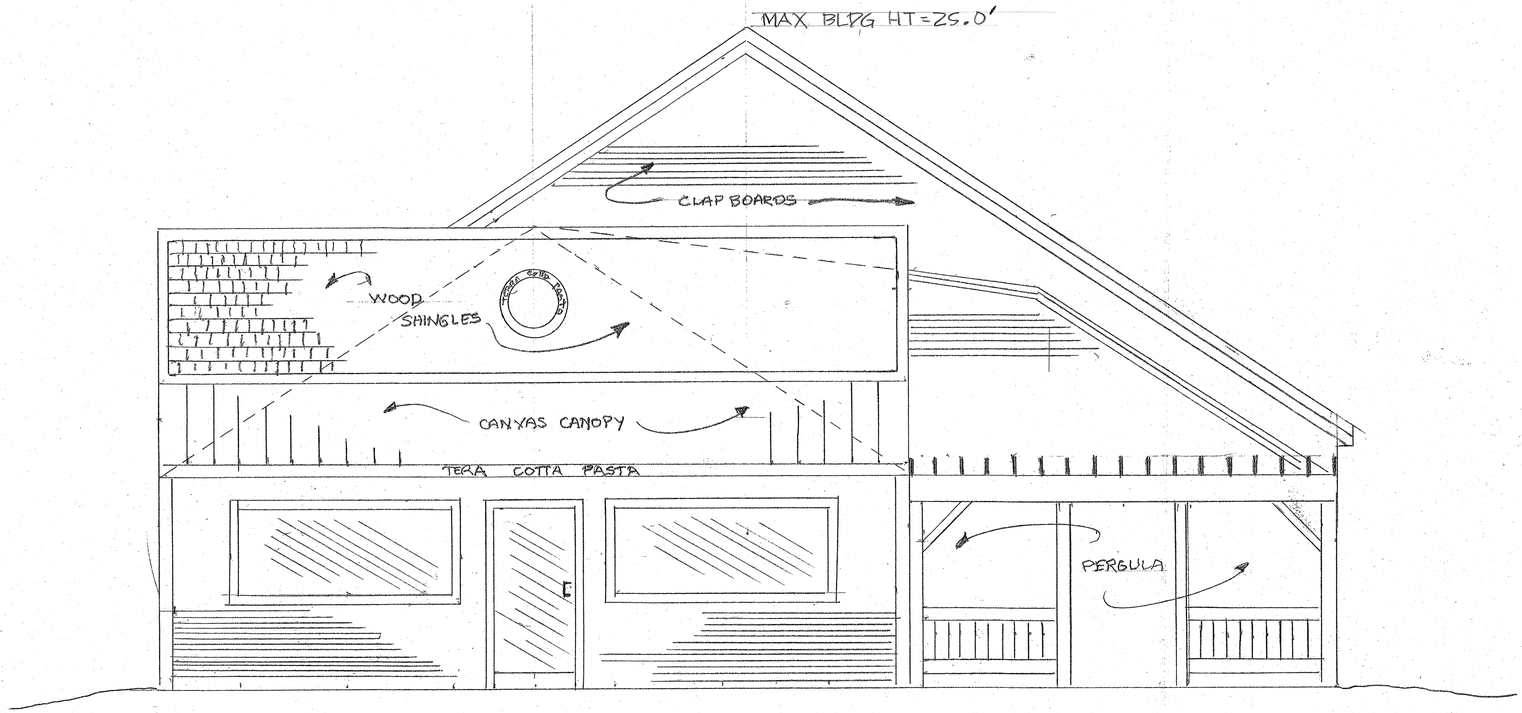
- As discussed at the April 28th Planning Board Meeting, the Applicant justifies the need for proposed parking in excess of the minimum requirement specified in General Note #4 on Sheet 1 by suggesting that the businesses of Gourmet Alley function on somewhat of a communal parking basis. Patrons will regularly park at any of the neighboring businesses and use the pedestrianways to travel in-between stops, especially during seasonal busy periods.

We look forward to discussing this project with the Planning Board at the May 12th Planning Board Meeting. Please contact me for any additional information or clarifications required.

Sincerely;

Michael J. Sudak, E.I.T.
Staff Engineer

cc: Kevin Cambridge, Terra Cotta Pasta Co.
C206-21 Cover SPR Rev 02May2022.doc



FRONT ELEVATION
3/8" = 1'-0"

PROPOSED ELEVATION FOR
TERRA COTTA PASTA CO

SCALE:	APPROVED BY:	DRAWN BY
DATE:		REVISED

BILL ROBINSON & SON BLDG CONTRS

KITTERY ME

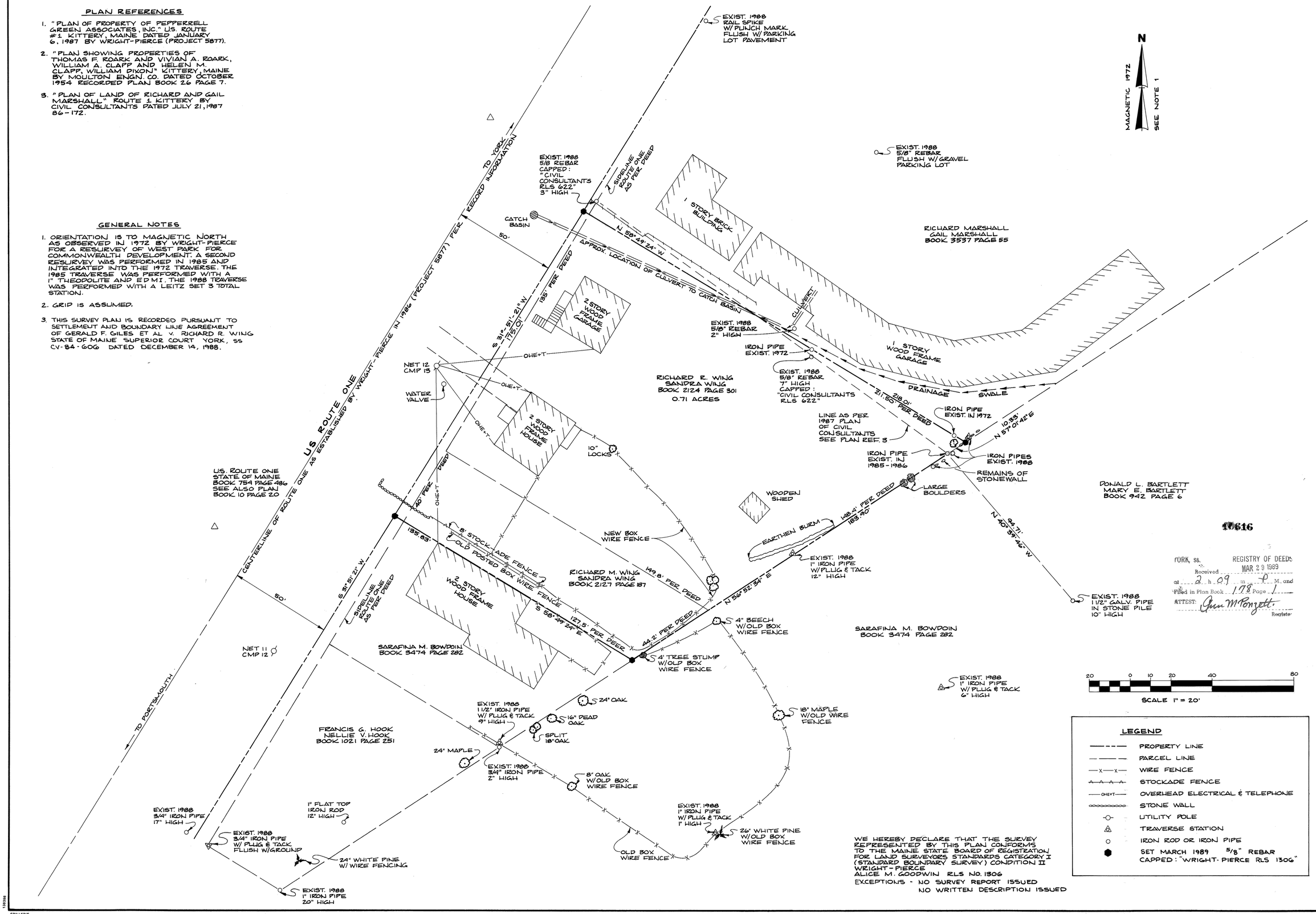
DRAWING NUMBER
NOV 2021

PLAN REFERENCES

1. "PLAN OF PROPERTY OF PEPPERRELL GREEN ASSOCIATES, INC." U.S. ROUTE #1 KITTERY, MAINE DATED JANUARY 6, 1987 BY WRIGHT-PIERCE (PROJECT 5877).
2. "PLAN SHOWING PROPERTIES OF THOMAS F. ROARK AND VIVIAN A. ROARK, WILLIAM A. CLAPP AND HELEN M. CLAPP, WILLIAM PIXON" KITTERY, MAINE BY MOULTON ENGN. CO. DATED OCTOBER 1954 RECORDED PLAN BOOK 26 PAGE 7.
3. "PLAN OF LAND OF RICHARD AND GAIL MARSHALL" ROUTE 1 KITTERY BY CIVIL CONSULTANTS DATED JULY 21, 1987 86-172.

GENERAL NOTES

1. ORIENTATION IS TO MAGNETIC NORTH AS OBSERVED IN 1972 BY WRIGHT-PIERCE FOR A RESURVEY OF WEST PARK FOR COMMONWEALTH DEVELOPMENT. A SECOND RESURVEY WAS PERFORMED IN 1985 AND INTEGRATED INTO THE 1972 TRAVERSE. THE 1985 TRAVERSE WAS PERFORMED WITH A 1" THEODOLITE AND EDMI. THE 1988 TRAVERSE WAS PERFORMED WITH A LEITZ SET 3 TOTAL STATION.
2. GRID IS ASSUMED.
3. THIS SURVEY PLAN IS RECORDED PURSUANT TO SETTLEMENT AND BOUNDARY LINE AGREEMENT OF GERALD F. GILES ET AL v. RICHARD R. WING STATE OF MAINE SUPERIOR COURT YORK, SS CV-84-606 DATED DECEMBER 14, 1988.



LEGEND

- PROPERTY LINE
- PARCEL LINE
- WIRE FENCE
- STOCKADE FENCE
- OVERHEAD ELECTRICAL & TELEPHONE
- STONE WALL
- UTILITY POLE
- TRAVERSE STATION
- IRON ROD OR IRON PIPE
- SET MARCH 1989 5/8" REBAR CAPPED: "WRIGHT-PIERCE RLS 1306"

WE HEREBY DECLARE THAT THE SURVEY REPRESENTED BY THIS PLAN CONFORMS TO THE MAINE STATE BOARD OF REGISTRATION FOR LAND SURVEYORS STANDARDS CATEGORY I (STANDARD BOUNDARY SURVEY) CONDITION II
WRIGHT-PIERCE
ALICE M. GOODWIN RLS NO. 1306
EXCEPTIONS - NO SURVEY REPORT ISSUED
NO WRITTEN DESCRIPTION ISSUED

NO	REVISIONS	APP'D	PROGRESS PRINTS
1			
2			
3			
4			
5			

DRAWN BY HJK
CHECKED BY AMG
DATE 10-28-88
APPROVED BY AMG
DATE 10-28-88
BOOK NO. 1161
PROJECT NO. 6095
SCALE 1" = 20'

STATE OF MAINE ALICE M. GOODWIN 1306 REGISTERED LAND SURVEYOR

WRIGHT-PIERCE ENGINEERS
99 Main Street Topsham, Maine 04086 (207) 725-8721
170 Commerce Way Portsmouth, N.H. 03801 (603) 436-0174

STANDARD BOUNDARY SURVEY OF RICHARD R. & SANDRA WING

US. ROUTE ONE
KITTERY, MAINE

1 OF 1

12339
SPILLER'S

Kent 14" LED Wall Light Black

49899BKLED

SPECIFICATIONS

Certifications/Qualifications	
Title 24 Compliant	Yes
	www.kichler.com/warranty
Dimensions	
Base Backplate	14.50 X 7.75
Extension	8.50"
Weight	4.00 LBS
Height from center of Wall opening (Spec Sheet)	2.25"
Height	14.50"
Width	7.75"
Electrical	
Input Voltage	Single(120)V
Light Source	
Delivered Lumens	375
Dimmable	Yes
Expected Life Span (Hours)	40000
Lamp Included	Integrated
Light Source	LED
Max or Nominal Watt	8W
# of Bulbs/LED Modules	1
Mounting/Installation	
Interior/Exterior	Exterior
Location Rating	Wet
Mounting Style	Wall Mount
Mounting Weight	3.20 LBS
Photometrics	
Color Rendering Index	90
Kelvin Temperature	3000K

FIXTURE ATTRIBUTES

Housing	
Diffuser Description	White Acrylic.
Primary Material	ALUMINUM
Product/Ordering Information	
SKU	49899BKLED
Finish	Black
Style	Transitional
UPC	783927540353
Finish Options	

Black

ALSO IN THIS FAMILY

49898BKLED

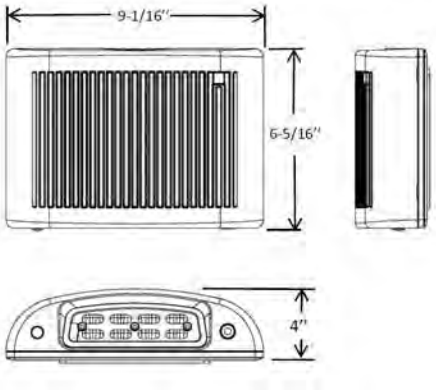
MERU Series

LED GENERAL & EMERGENCY LIGHTING

PROJECT:
FIXTURE TYPE:
LOCATION:
CONTACT/PHONE:

PRODUCT DESCRIPTION

The MERU Series is an architectural, low-profile outdoor light, offering "normally On" AC and emergency lighting with powerful LED illumination. The housing is fully sealed and gasketed, and has an IP65 rating. Designed for wall mounting with universal K/O pattern in back-plate for easy installation to most standard size junction boxes. Includes a single ½" NPT conduit entry in the top, center of the housing. Illumination provided by 8 high power LEDs which achieve 1,600 lumens in AC and 600 lumens in emergency. LED color at 4000K.



PRODUCT SPECIFICATIONS

CONSTRUCTION

Die cast aluminum housing with superior heat sink • Scratch resistant Polyester powder coat finish • UV resistant polycarbonate lens • Snap-fit housing and mounting plate are held together by four stainless steel clips • Universal mounting pattern molded into the back plate • 1/2" threaded top access for surface conduit installation • Silicone rubber seal with hollow center, shape adaptive design protects the electrical components • Junction box neoprene seal is attached to the back plate for a weather proof installation • Dark Bronze or White textured finish.

ELECTRICAL

Dual voltage 120/277VAC 60Hz input • Solid state charging and switching • Battery low voltage disconnect • AC power indicator and test switch at the bottom of the unit • Standard with Self Diagnostics to monitor proper operation.

LAMPS

Supplied with eight (8) LG SMD 4000K LED'S • L70 > 72,000hours • 17 Watts total (32 Watts with IH option) • 1600 Lumens in AC mode, 600 Lumens in Emergency mode • Full cut-off optics for Dark Sky compliance

BATTERY

Maintenance-free, long-life rechargeable NiCad battery will operate fixture for a minimum of 90 minutes in the event of a power outage • 24 hour recharge after 90 minute discharge.

CODE COMPLIANCE

UL924 • Listed for wet location applications (0˚C-50˚C) • Optional "IH" cold weather package for (-40˚C-50˚C) • IP65 Rated • NFPA 101 Life Safety Code compliant • NEC and OSHA compliant • DLC Listed • RoHS Compliant

WARRANTY

5-year warranty. Product specifications subject to change without notice.

ACEM Model (NiCad Battery Backup)

Integral photocell: Unit operates as a dusk to dawn luminaire and in the event of a power failure as an emergency light.
Remote Switched: The integral photocell can be defeated to allow remote switching for normal operation. In the event of a power failure unit operates as an emergency light.

INSTALLATION

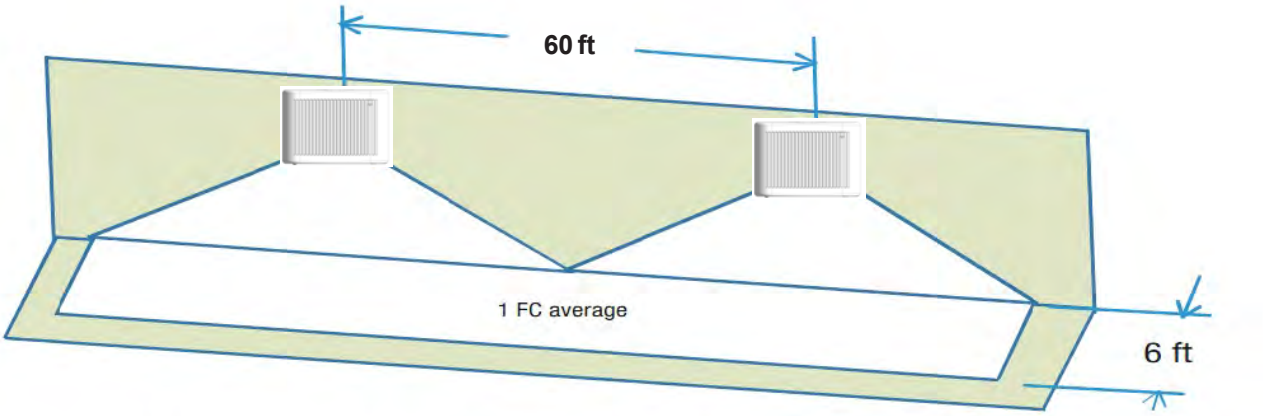
MOUNTING

Suitable for indoor or outdoor wall mounting on junction box, or with surface conduit using the supplied 1/2" threaded top access • Mounting plate has molded universal mounting pattern for simple mounting over junction box.

ORDERING INFORMATION

model	operation mode	housing color	options
MERU-LED	ACEM = General & Emergency Lighting	DB = Dark Bronze	*Self-Diagnostics & Photocell (Included Standard)*
	AC = General Lighting	WH = White	IH = Internal Heater
		BK = Black	PIR = Passive Infra-Red Motion Sensor
Ordering Example: MERU-ACEM-DB		NK = Nickel	

PHOTOMETRICS



Note: Meets Life Safety Code standard minimum illuminance of 0.1 FC and average illuminance of 1.0 FC.
Illustration shown is a guideline for corridor center-to-center with 9 ft mounting height and Minimum 80-50-20 reflectance values.

Mounting Height	Center to center distance
7.2ft	45ft
9ft	60ft
10ft	65ft

SELF DIAGNOSTICS

Included Self Diagnostic

Diagnostic Indicator / Test Switch

- Ready
- In Test
- Battery Circuit Fault
- Battery Capacity Failure
- Charger Failure
- Transformer Fault
- Lamp Failure

Manual Testing

Press button once - 1 minute test
Press button twice - 5 minute test
Press button 3 times - 30 minute test
Press button 4 times - 90 minute test

Full self-test, self-diagnostic system is standard in every unit, performs a monthly, test as well as continuously monitoring all functions to ensure reliability, a manual test may be initiated at any time

Project		Catalog #		Type	
Prepared by		Notes		Date	

Lumark

Axcent

Wall Mount Luminaire

Product Features

Selectable lumens · DUSK-TO-DAWN · LumenSafe Technology · Light ARchitect™

Product Certifications

ISO CERTIFIED · UL CERTIFIED · DLC LISTED · DLC PREMIUM · FC CLASS A CAN ICES-005 · ida DARK SKY APPROVED · IP66 · 3G VIB · RoHS COMPLIANT · 5 YEAR LIMITED WARRANTY · 2018 PROGRESS REPORT SELECTION · BAA BUY AMERICAN ACT AVAILABLE

Interactive Menu

Quick Facts

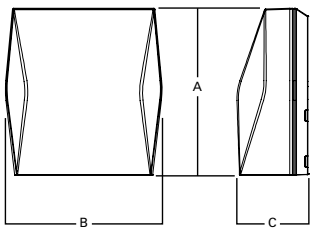
- Available in 14W - 123W (1,800 - 17,000 lumens) models
- Full cutoff and refractive lens models available
- Energy and maintenance savings up to 95% compared to HID
- Energy efficient illumination results in up to 144 LPW
- Replaces 70W up to 450W HID equivalents

Connected Systems

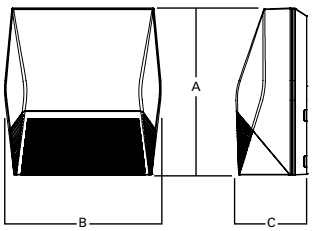
- WaveLinx Lite
- Enlighted

Dimensional Details

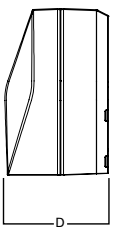
Full Cutoff



Refractive Lens



Deep Back Housing



Dimensional Data

	AXCS Small	AXCL Large
A	8" [202mm]	11-1/2" [292mm]
B	7-1/2" [190mm]	10-3/4" [273mm]
C	3-5/8" [94mm]	4-7/8" [124mm]
D	6-1/8" [155mm]	7-1/8" [181mm]

Ordering Information

SAMPLE NUMBER: **AXCS1A-AP-347V**

Domestic Preferences [28]	Model Series [1]	LED Color Temperature	Color	Options (Add as Suffix)
[Blank]=Standard **BAA**=Buy American Act **TAA**=Trade Agreements Act	**Full Cutoff** **AXCS1A**=14W **AXCS2A**=21W **AXCS3A**=27W **AXCS4A**=44W **AXCS5A**=52W **AXCL6A**=56W **AXCL8A**=72W **AXCL10A**=102W **AXCL12A**=123W **Refractive Lens** **AXCS1ARL**=14W **AXCS2ARL**=21W **AXCS3ARL**=27W **AXCS4ARL**=44W **AXCS5ARL**=52W **AXCL6ARL**=56W **AXCL8ARL**=72W **AXCL10ARL**=102W **AXCL12ARL**=123W	**[Blank]**=4000K, Neutral **C**=5000K, Cool **W**=3000K, Warm	**[Blank]**=Carbon Bronze (Standard) **WT**=Summit White **BK**=Black **AP**=Grey **GM**=Graphite Metallic **DP**=Dark Platinum	**347V**=347V [2] **480V**=480V [2] **PC1**=Photocontrol 120V [3, 4, 5] **PC2**=Photocontrol 208-277V, 347V, 480V [4, 5, 6] **PC**=Photocontrol 120-277V, 347V, 480V [4, 7, 8] **KKIT**=Knuckle Floodlight Mount [7] **TRNKIT**=Trunnion Floodlight Mount **SFKIT**=Slipfitter Floodlight Mount **PMAKIT**=Pole Mount Arm **ZW**=WaveLinx-enabled 4-PIN Twistlock Receptacle [4, 9] **ZW-SWPD4XX**=WaveLinx Wireless Sensor, 7' – 15' Mounting Height [4, 9, 10, 11] **ZW-SWPD5XX**=WaveLinx Wireless Sensor, 15' – 40' Mounting Height [4, 9, 10, 11] **LWR-LW**=Enlighted Wireless Sensor, Wide Lens for 8' - 16' Mounting Height [4, 9, 12] **LWR-LN**=Enlighted Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height [4, 9, 12] **MSP/DIM-L12**=Integrated Sensor for Dimming Operation, 8' - 12' Mounting Height [4, 9, 13] **MSP/DIM-L30**=Integrated Sensor for Dimming Operation, 12' - 30' Mounting Height [4, 9, 13] **MSP-L12**=Integrated Sensor for ON/OFF Operation, 8' - 12' Mounting Height [4, 9, 13] **MSP-L30**=Integrated Sensor for ON/OFF Operation, 12' - 30' Mounting Height [4, 9, 13] **CBP**=Cold Weather Battery Pack [3, 14, 15, 16, 17, 18] **CBP-CEC**=Cold Weather Battery Pack, CEC compliant [3, 14, 15, 16, 17, 18] **10K**=10kV/10kA Surge Protection **HA**=50°C High Ambient [15, 19] **GRF**=Glare Reducing Lens [20] **AHD145**=After Hours Dim, 5 Hours [5, 21] **AHD245**=After Hours Dim, 6 Hours [5, 21] **AHD255**=After Hours Dim, 7 Hours [5, 21] **AHD355**=After Hours Dim, 8 Hours [5, 21]

Accessories (Order Separately) [22,29]

VS/AXCS-XX=Vandal Shield Axcent Small [7, 23]
VS/AXCS-MS=Vandal Shield Axcent Small (With Motion Sensor) [7, 23]
WG/AXCS=Wire Guard Axcent Small [7]
WG/AXCS-MS=Wire Guard Axcent Small (With Motion Sensor) [7]
VS/AXCL-XX=Vandal Shield Axcent Large [5, 23]
VS/AXCL-MS=Vandal Shield Axcent (With Motion Sensor) [5, 23]
WG/AXCL=Wire Guard Axcent Large [5]
WG/AXCL-MS=Wire Guard Axcent (With Motion Sensor) [5]
BB/AXC=Axcent Lumen Select Back Box, Carbon Bronze [24]
BB/AXC-PC=Axcent Lumen Select Back Box with PC, Carbon Bronze [24, 25]
BB/AXC-WT=Axcent Lumen Select Back Box, Summit White [24]
BB/AXC-WT-PC=Axcent Lumen Select Back Box with PC, Summit White [24, 25]

KKIT/AXCS-XX=Knuckle and Visor Floodlight Kit (For Axcent Small) [7]
SFKIT/AXCS-XX=Slipfitter Floodlight Kit (For Axcent Small) [7]
TRNKIT/AXCS-XX=Trunnion and Visor Floodlight Kit (For Axcent Small) [7]
TRNKIT-XX=Trunnion Floodlight Kit (For Axcent Large) [5]
SFKIT-XX=Slipfitter Floodlight Kit (For Axcent Large) [5]
PMAKIT-XX=Pole Mount Kit
ISHH-01=Integrated Sensor Programming Remote [26]
MA1010-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon
MA1011-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon
MA1017-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon
MA1018-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon
SWPD4-XX=WaveLinx Wireless Sensor, 7' – 15' Mounting Height [10, 11, 27]
SWPD5-XX=WaveLinx Wireless Sensor, 15' – 40' Mounting Height [10, 11, 27]

NOTES:

1. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
2. Transformer used only when ordered with motion sensor or AXCS1 through AXCS5 or AXCL6 fixture wattages.
3. Not available in 347 or 480 VAC.
4. Button photocontrol and any motion sensor (MSP, ZW, or LWR) not offered together.
5. Only available on AXCL6-AXCL12 models.
6. Used with 277, 347, and 480 VAC options.
7. Only available on AXCS1-AXCS5 models.
8. This configuration may contain materials that are not RoHS compliant. Contact your lighting representative for more information.
9. Uses deep back housing.
10. Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F). For the device to be field-configurable, requires WAC Gateway components WAC-PoE and WPOE-120 in appropriate quantities. Only compatible with WaveLinx system and software and requires system components to be installed for operation. See website for more Wavelinx application information.
11. Replace XX with sensor color (WH, BZ, or BK).
12. Enlighted wireless sensors are factory installed and require network components LWP-EM-1, LWP-GW-1, and LWP-PoE8 in appropriate quantities. See website for application information.
13. The ISHH-01 accessory is required to adjust parameters.
14. Ambient operating temperature -20°C to 25°C for AXCL6 through AXCL10. Ambient operating temperature -20°C to 30°C on AXCS4 models. Ambient operating temperature -20°C to 40°C on AXCS1 through AXCS3 models.
15. Not available with AXCS5 or AXCL12 models.
16. Uses deep back housing for AXCS1, AXCLS2, AXCS3, and AXCS4 models.
17. Not to be mounted in upwards / inverted orientation. Downlight wall mount only for AXCS1 through AXCS4.
18. In AXCS1, AXCS2, AXCS3, and AXCS4 models, CBP cannot be used with any sensor option (PC, MSP, ZW, or LWR).
19. Can not be ordered with CBP or PC options.
20. Use dedicated IES files on product website for lumen values and distributions.
21. Requires the use of PC1 or PC2 button photocontrol. See After Hours Dim supplemental guide for additional information.
22. Replace XX with color designation.
23. For use with full cutoff lens configurations only.
24. Lumen Select functionality not available in conjunction with any motion sensor option (MSP, ZW, or LWR). Photocontrol back box not available with any photocontrol or motion sensor options (PC, MSP, ZW, or LWR).
25. Photocell only operates at 120-277V input voltages. Not for use with 347 or 480V systems.
26. This tool enables adjustment to parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult you lighting representative for more information.
27. Requires 4-PIN twistlock receptacle (ZW) option.
28. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be seperately analyzed under domestic preference requirements.
29. Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.

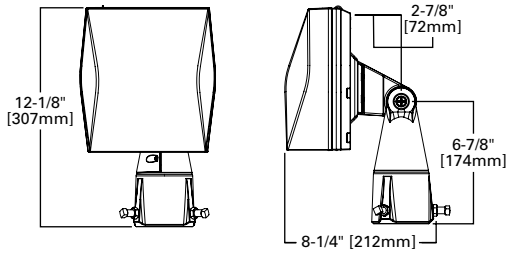
Stock Ordering Information

Model Series [1]			
Full Cutoff		**Refractive Lens**	
AXCS1A=14W	**AXCL10A**=102W	**AXCS1ARL**=14W	**AXCL10ARL**=102W
AXCS2A=21W	**AXCL12A**=123W	**AXCS2ARL**=21W	**AXCL12ARL**=123W
AXCS3A=27W	**AXCL6A-347V**=56W	**AXCS3ARL**=27W	**AXCL6ARL-347V**=56W
AXCS4A=44W	**AXCL8A-347V**=72W	**AXCS4ARL**=44W	**AXCL8ARL-347V**=72W
AXCS5A=52W	**AXCL10A-347V**=102W	**AXCS5ARL**=52W	**AXCL10ARL-347V**=102W
AXCL6A=56W	**AXCL12A-347V**=123W	**AXCL6ARL**=56W	**AXCL12ARL-347V**=123W
AXCL8A=72W		**AXCL8ARL**=72W	

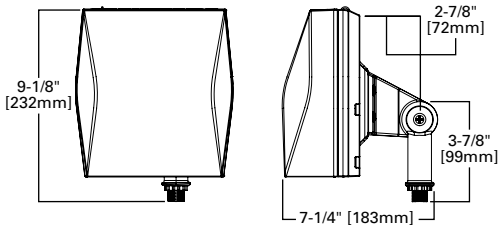
Note: All stock configurations are 4000K color temperatures, standard Carbon Bronze finish, and wall mount configuration.

Mounting Details

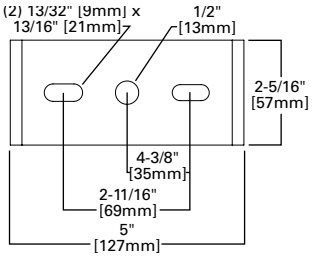
Slipfitter Mount (Small)
Tenon OD: 2-3/8" | **EPA:** 0.60



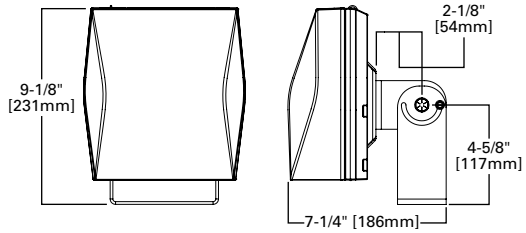
Knuckle Mount (Small)



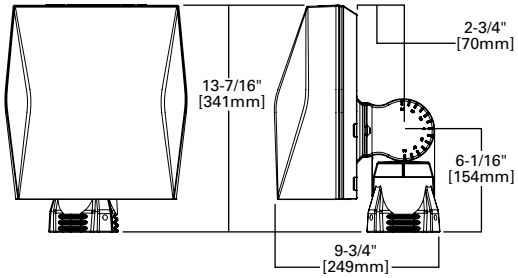
Trunnion Mount Detail



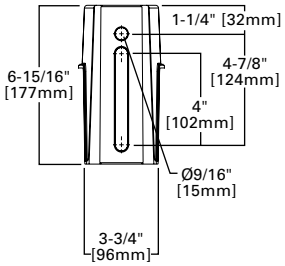
Trunnion Mount (Small)



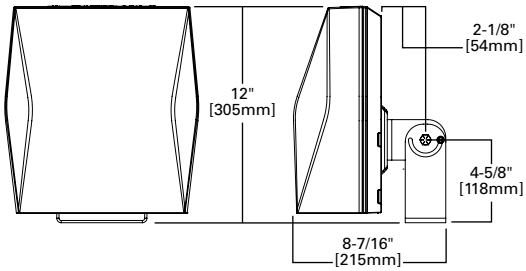
Slipfitter Mount (Large)
Tenon OD: 2-3/8" to 2-7/8" | **EPA:** 1.10



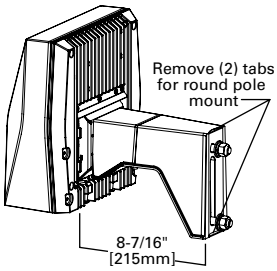
Pole Mount Arm Drill Pattern



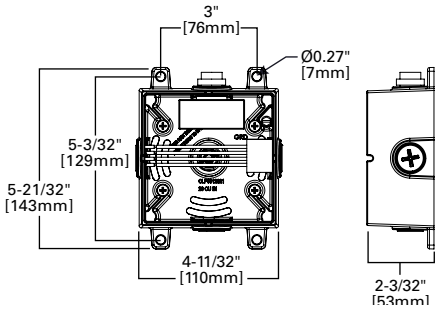
Trunnion Mount (Large)



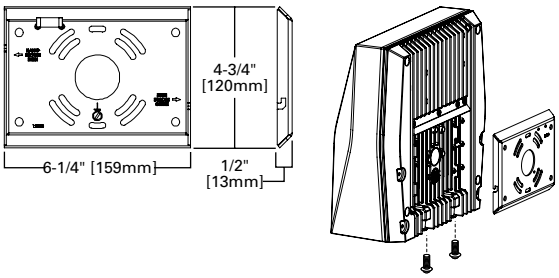
Pole Mount Arm (Large)
EPA: 1.10



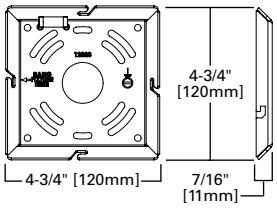
Lumen Select Back Box



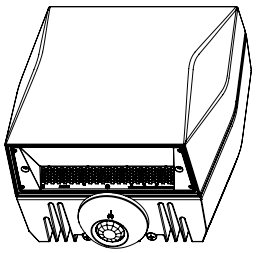
Wall Mount Plate Detail (Large)



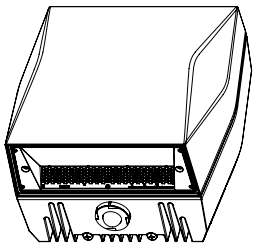
Wall Mount Plate Detail (Small)



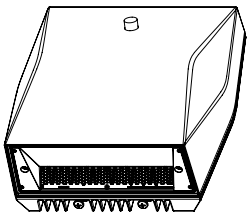
Enlighted Sensor



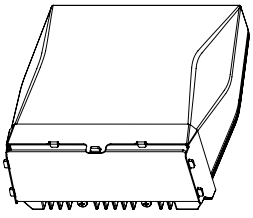
Occupancy Sensor



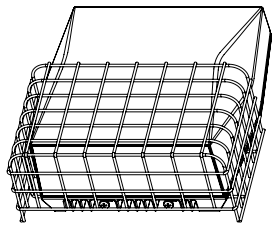
Button Photocontrol



Vandal Shield



Wire Guard



Product Specifications

Construction
- Die-cast aluminum housing
- External back fin design extracts heat from the surface to thermally optimize design for longer luminaire life

Optics
- Dark Sky Approved (Fixed mount, Full cutoff, and 3000K CCT only)
- Silicone-sealed optical LED chamber
- Acrylic refractive or full cutoff lens options for Type IV distributions

Electrical
- Standard universal voltage (120-277V, 50/60Hz)
- Driver incorporates 6kV surge protection
- -40°C minimum operating temperature
- 40°C maximum operating temperature
- <20% total harmonic distortion
- 0-10V dimming driver is standard with leads external to the fixture

Mounting
- Steel wedge mounting plate fits directly to 4" standard j-box or directly to wall with the "Hook-N-Lock" mechanism
- Stainless steel set screws
- Lumen Select Back Box accessory offers four 1/2" NPT conduit entry wire ways. Resistor Pack combinations allow field-dimming of 75% or 50% when connected to luminaire dimming leads
- Not suitable for indoor use when installed in inverted/uplight orientation

Emergency Egress
- Optional integral cold weather battery emergency egress includes emergency operation test switch, an AC-ON indicator light and a premium, maintenance-free battery pack
- The separate emergency lighting LEDs are wired to provide redundant emergency lighting. Listed to UL Standard 924, Emergency Lighting

Finish
- Five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness

Shipping Data
- Small fixture=5 lbs. [2.36 kgs.]
- Small with sensor or CBP=10 lbs. [4.40 kgs.]
- Large fixture=12 lbs. [5.45 kgs.]
- Large with sensor or CBP=17 lbs. [7.73 kgs.]
- Large with sensor & CBP=21 lbs. [9.54 kgs.]

Energy and Performance Data

Power and Lumens (Axcent Small)

Light Engine		AXCS1A	AXCS2A	AXCS3A	AXCS4A	AXCS5A
Power (Watts)		14	21	27	44	52
Input Current @ 120V (A)		0.12	0.18	0.23	0.37	0.43
Input Current @ 240V (A)		0.06	0.09	0.11	0.18	0.22
Input Current @ 277V (A)		0.05	0.08	0.10	0.16	0.19
Input Current @ 347V (A)		0.04	0.06	0.08	0.13	0.15
Input Current @ 480V (A)		0.03	0.04	0.06	0.09	0.11
Configuration						
Full Cutoff	4000K/5000K Lumens	1,806	2,561	3,537	5,520	6,300
	3000K Lumens	1,526	2,164	2,989	4,665	5,324
	BUG Rating	B1-U0-G0	B1-U0-G0	B1-U0-G0	B2-U0-G1	B2-U0-G1
Refractive Lens	4000K/5000K Lumens	1,915	2,716	3,704	5,858	6,699
	3000K Lumens	1,618	2,295	3,130	4,950	5,661
	BUG Rating	B1-U3-G2	B1-U3-G2	B1-U3-G2	B1-U4-G3	B1-U4-G3

Power and Lumens (Axcent Large)

Light Engine		AXCL6A	AXCL8A	AXCL10A	AXCL12A
Power (Watts)		56	72	102	123
Input Current @ 120V (A)		0.44	0.60	0.83	1.01
Input Current @ 240V (A)		0.22	0.31	0.41	0.51
Input Current @ 277V (A)		0.20	0.27	0.36	0.45
Input Current @ 347V (A)		0.17	0.22	0.30	0.37
Input Current @ 480V (A)		0.13	0.16	0.22	0.27
Configuration					
Full Cutoff	4000K Lumens	7,594	9,696	13,283	16,823
	5000K Rating	7,465	9,531	13,058	16,538
	3000K Lumens	6,619	8,450	11,577	14,662
	BUG Rating	B1-U0-G1	B1-U0-G1	B3-U0-G2	B3-U0-G2
Refractive Lens	4000K Lumens	7,809	9,970	13,641	17,346
	5000K Rating	7,689	9,817	13,450	17,034
	3000K Lumens	6,817	8,704	11,924	15,102
	BUG Rating	B1-U4-G4	B2-U5-G5	B2-U5-G5	B2-U5-G5

Energy and Performance Data

Power and Lumens (Small + CBP)

Light Engine		AXCS1A	AXCS2A	AXCS3A	AXCS4A
Power (Watts)		18	25	31	48
Input Current @ 120V (A)		0.15	0.21	0.26	0.40
Input Current @ 240V (A)		0.08	0.11	0.13	0.20
Input Current @ 277V (A)		0.07	0.09	0.11	0.18
Configuration					
Full Cutoff	4000K/5000K Lumens	629	587	647	570
	3000K Lumens	531	496	547	482
Refractive Lens	4000K/5000K Lumens	667	623	686	605
	3000K Lumens	563	526	580	511

Note: Power and current based on full power consumption while CBP is charging. Lumen outputs are while operating in emergency mode only.

Power and Lumens (Large + CBP)

Light Engine		AXCL6A	AXCL8A	AXCL10A
Power (Watts)		60	76	106
Input Current @ 120V (A)		0.50	0.63	0.88
Input Current @ 240V (A)		0.25	0.32	0.44
Input Current @ 277V (A)		0.22	0.27	0.38
Configuration				
Full Cutoff	4000K/5000K Lumens	1,070		
	3000K Lumens	945		
Refractive Lens	4000K/5000K Lumens	1,098		
	3000K Lumens	973		

Note: Power and current based on full power consumption while CBP is charging. Lumen outputs are while operating in emergency mode only.

Power and Lumens Multipliers
(Lumen Select Back Box + Axcent Small)

Configuration		~75% Nominal Output	~50% Nominal Output
Catalog Number	**Material Number**	**Connect per Installation Instructions**	
AXCS1A*	13109741 or 13109939 or Other	74%	50%
AXCS2A*	13109698 or 13109938 or Other	74%	50%
AXCS3A*	13109697 or 13109937 or Other	74%	50%
AXCS4A*	13109695 or 13109936	75%	40%
AXCS4A*	13495299 or 13495470 or Other	72%	50%
AXCS5A*	13109652 or 13109935	75%	40%
AXCS5A*	13495471 or 13495472 or Other	72%	50%

Power and Lumens Multipliers
(Lumen Select Back Box + Axcent Large)

Configuration		~75% Nominal Output	~50% Nominal Output
Catalog Number	**Material Number**	**Connect per Installation Instructions**	
AXCL6A*	12963843 or 12964235	75%	40%
AXCL6A*	13495473 or 13495474 or Other	69%	47%
AXCL8A*	12963842 or 12964234	84%	48%
AXCL8A*	13495475 or 13495476 or Other	69%	47%
AXCL10A*	12963840 or 12964233	84%	48%
AXCL10A*	13495477 or 13495478 or Other	69%	47%
AXCL12A*	12902056 or 12902057	85%	50%
AXCL12A*	13495479 or 13495480 or Other	72%	49%

Lumen Maintenance (Axcent Small)

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	Theoretical L70 (72,000 Hours)
Up to 3A		
25°C	90%	246,000
40°C	90%	225,000
50°C	89%	195,000
Up to 5A		
25°C	89%	240,000
40°C	88%	223,000
50°C	87%	186,000

Lumen Maintenance (Axcent Large)

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	Theoretical L70 (72,000 Hours)
Up to 8A		
25°C	94%	556,000
40°C	94%	556,000
50°C	92%	340,000
Up to 10A		
25°C	94%	556,000
40°C	94%	478,000
50°C	87%	207,000
Up to 12A		
25°C	94%	151,000
40°C	81%	125,000

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.97

Control Options

0-10V This fixture is offered standard with 0-10V dimming driver(s) for use with a lighting control panel or other control method.

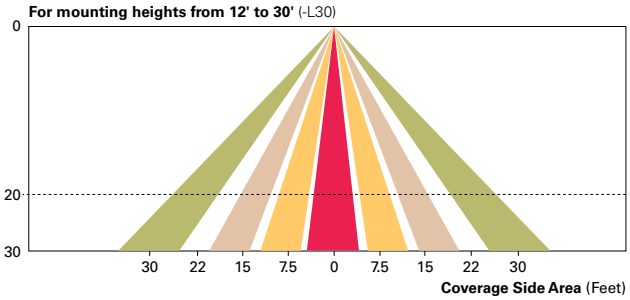
Photocontrol (PC1, PC2 and PC) Optional button-type photocontrol provides a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels.

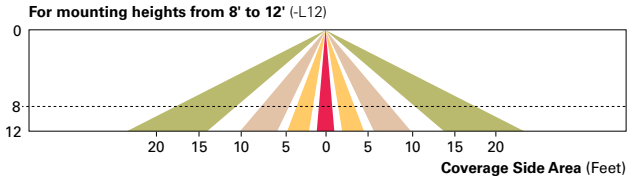
After Hours Dim (AHD) This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

Dimming Occupancy Sensor (MSP/DIM-LXX and MSP-LXX) These sensors are factory installed in the luminaire housing. When the MSP/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MSP/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of ten minutes. The MSP-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity.

These occupancy sensors includes an integrated photocell that can be activated with the ISHH-01 accessory for "dusk-to-dawn" control or daylight harvesting - the factory preset is ON. The ISHH-01 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters.

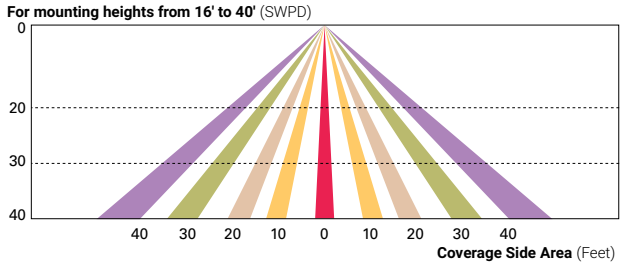
A variety of sensor lens are available to optimize the coverage pattern for mounting heights from 8'-30'.



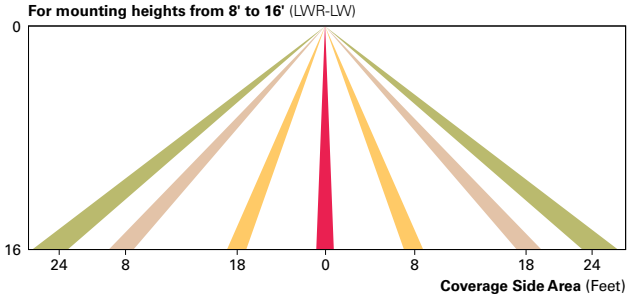


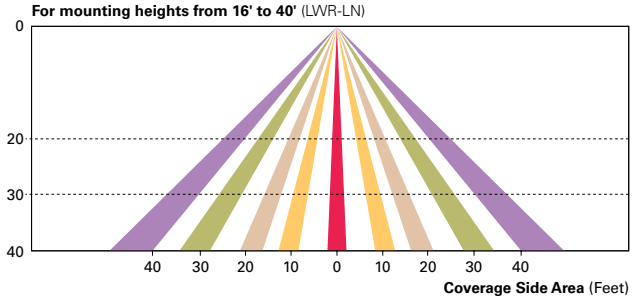
WaveLinx Wireless Control and Monitoring System The WaveLinx Outdoor control platform operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. Use the WaveLinx Mobile application for set-up and configuration. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets).

WaveLinx Wireless Sensor (SWPD4 and SWPD5) These outdoor sensors offer passive infrared (PIR) occupancy and a photocell for closed loop daylight sensing. These sensors can be factory installed or field-installed via simple, tool-less integration into luminaires equipped with the Zhaga Book 18 compliant 4-PIN receptacle (ZW). These sensors are factory preset to dim down to approximately 50 percent power after 15 minutes of no activity detected. These occupancy sensors include an integral photocell for "dusk-to-dawn" control or daylight harvesting that is factory-enabled. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 7'-40'.



Enlighted Wireless Control and Monitoring System (LWR-LW and LWR-LN) The Enlighted System is a connected lighting solution that combines LED luminaires with an integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of other resources beyond lighting.





Cooper Lighting Solutions
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.cooperlighting.com

Project		Catalog #		Type	
Prepared by		Notes		Date	

McGraw-Edison

GPC Galleon Pedestrian Companion

Area / Site Luminaire

Typical Applications

Outdoor • Parking Lots • Walkways • Roadways • Building Areas

Interactive Menu

Product Certifications

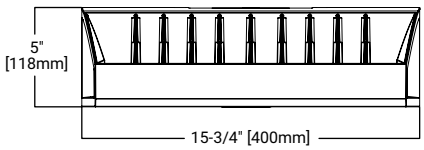
Product Features

WaveLinx Enlighted Light ARchitect™

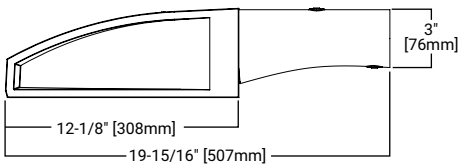
Quick Facts

- Choice of sixteen high-efficiency, patented AccuLED Optics™
- Quick mount pole or mast-arm mounting configurations
- Eight lumen packages from 3,215 up to 17,056 lumens
- IP66 rated housing and LED light squares

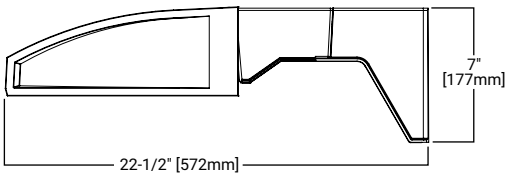
Dimensional Details



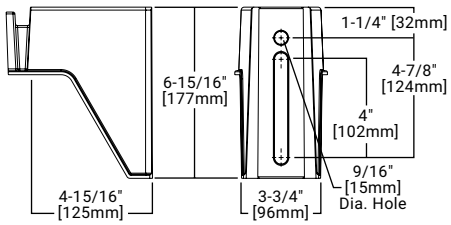
Mast Arm Mount



Mast Arm Mount



Quick Mount Arm (Pole Mounting Details)



Ordering Information

SAMPLE NUMBER: **GPC-SA2C-740-U-T4FT-GM**

Product Family	Light Engine		Color Temperature	Voltage	Distribution	Mounting Options	Finish
	Configuration	Drive Current					
GPC=Galleon Pedestrian Companion	**SA1**=1 Square **SA2**=2 Squares [2]	**A**=615mA **B**=800mA **C**=1000mA **D**=1200mA [4]	**722**=70CRI, 2200K **727**=70CRI, 2700K **730**=70CRI, 3000K **735**=70CRI, 3500K **740**=70CRI, 4000K **750**=70CRI, 5000K **760**=70CRI, 6000K **827**=80CRI, 2700K **830**=80CRI, 3000K **AMB**=Amber, 590nm [3, 4]	**U**=120-277V **1**=120V **2**=208V **3**=240V **4**=277V **8**=480V [6,7] **9**=347V [6]	**TT2**=Type II **T2R**=Type II Roadway **T3**=Type III **T3R**=Type III Roadway **T4FT**=Type IV Forward Throw **T4W**=Type IV Wide **SL2**=Type II w/Spill Control **SL3**=Type III w/Spill Control **SL4**=Type IV w/Spill Control **SLL**=90° Spill Light Eliminator Left **SLR**=90° Spill Light Eliminator Right **RW**=Rectangular Wide Type I **5NQ**=Type V Square Narrow **5MQ**=Type V Square Medium **5WQ**=Type V Square Wide **AFL**=Automotive Frontline	**QM**=Quick Mount Arm for Round or Square Pole [2,13] **MA**=2-3/8" Mast Arm [2, 14]	**AP**=Grey **BZ**=Bronze **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White

Options (Add as Suffix) [1]	**Controls and Systems Options** (Add as Suffix)	**Accessories** (Order Separately)
F=Single Fused (120, 277 or 347V. Must Specify Voltage) **FF**=Double Fused (208, 240 or 480V. Must Specify Voltage) **10K**=10kV Surge Module **20K**=20kV UL 1449 Fused Surge Protective Device **DIM**=External 0-10V Dimming Leads [9, 10] **L90**=Optics Rotated 90° Left **R90**=Optics Rotated 90° Right **HSS**=Factory Installed House Side Shield [23] **GRSBK**=Factory Installed Glare Shield, BK [4, 27] **GRSWH**=Factory Installed Glare Shield, WH [4, 27] **UPL**=Uplight Housing [13] **HA**=50°C High Ambient [12] **LCF**=Light Square Trim Plate Painted to Match Housing [22] **MT**=Factory Installed Mesh Top **CC**=Coastal Construction finish [5] **CE**=CE Marking and Small Terminal Block [24] **AHD145**=After Hours Dim, 5 Hours [16] **AHD245**=After Hours Dim, 6 Hours [16] **AHD255**=After Hours Dim, 7 Hours [16] **AHD355**=After Hours Dim, 8 Hours [16] **DALI**=DALI Driver [11]	**BPC**=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage) **PR**=NEMA 3-PIN Twistlock Photocontrol Receptacle **PR7**=NEMA 7-PIN Twistlock Photocontrol Receptacle [15] **SPB1**=Dimming Occupancy Sensor with Bluetooth Interface, <8' Mounting [19,33] **SPB2**=Dimming Occupancy Sensor with Bluetooth Interface, 8'-20' Mounting [19,33] **SPB4**=Dimming Occupancy Sensor with Bluetooth Interface, 21'-40' Mounting [19,33] **MS-LXX**=Motion Sensor for On/Off Operation [17, 18, 19] **MS/DIM-LXX**=Motion Sensor for Dimming Operation [17, 18, 19] **ZW**=WaveLinx-enabled 4-PIN Twistlock Receptacle [29, 30] **ZD**=WaveLinx Module with DALI driver and 4-PIN Receptacle [29, 30] **SWPD4XX**=WaveLinx Sensor Only, 7'-15' [31, 32] **SWPD5XX**=WaveLinx Sensor Only, 15'-40' [31, 32] **WOBXX**=WaveLinx Sensor with Bluetooth, 7'-15' [31, 32] **WOFXX**=WaveLinx Sensor with Bluetooth, 15'-40' [31, 32] **LWR-LW**=Enlighted Wireless Sensor, Wide Lens for 8'-16' Mounting Height [19, 20, 21] **LWR-LN**=Enlighted Wireless Sensor, Narrow Lens for 16'-40' Mounting Height [19, 20, 21]	**OA/RA1013**=Photocontrol Shorting Cap [28] **OA/RA1016**=NEMA Photocontrol - Multi-Tap 105-285V [28] **OA/RA1201**=NEMA Photocontrol - 347V [28] **OA/RA1027**=NEMA Photocontrol - 480V [28] **MA1252**=10kV Circuit Module Replacement **MA1059XX**=Thru-branch Back Box (Must Specify Color) **LS/HSS**=Field Installed House Side Shield [23, 25] **LS/GRSBK**=Glare Shield, Black [8, 25, 27] **LS/GRSWH**=Glare Shield, White [8, 25, 27] **LS/PFS**=Perimeter Shield, Black **FSIR-100**=Wireless Configuration Tool for Occupancy Sensor [17] **WOLC-7P-10A**=WaveLinx Outdoor Control Module (7-pin) [26, 29] **SWPD4-XX**=Wavelinx Wireless Sensor, 7' – 15' Mounting Height [29, 30, 31, 32] **SWPD5-XX**=Wavelinx Wireless Sensor, 15' – 40' Mounting Height [29, 30, 31, 32]

NOTES:

1. DesignLight Consortium® Qualified. Refer to www.designlights.org, Qualified Products List under Family Models for details.
2. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional information
3. Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose drive current A; supplied at 500mA drive current only. Available with 5WQ, 5MQ, SL2, SL3 and SL4 distributions. Can be used with HSS option.
4. Not available with HA option.
5. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654.
6. Require the use of a step down transformer. Not available in combination with sensor options at 1200mA.
7. 480V must use Wye system only. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
8. Reserved.
9. Cannot be used with other control options.
10. Low voltage control leads extended 18" from fixture.
11. Not available in 1200mA. When used with CBP or HA options, only available with single light square.
12. Not available in 1200mA, UPL or CBP options. Available with single light square.
13. Quick mount arm adapter is factory installed. Pole mounting bracket shipped in box. Suitable for 1.5G. Fits square and round poles up to 6" O.D.
14. Mast arm adapter factory installed (2-3/8" O.D. arm only). Suitable for 3G vibration.
15. Compatible with standard 3-PIN photocontrols, 5-PIN or 7-PIN ANSI controls.
16. Requires the use of BPC photocontrol or the PR7 or PR photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information.
17. The FSIR-100 configuration tool is required to adjust parameters such as high and low modes, sensitivity, time delay and cutoff. Consult your lighting representative at Cooper Lighting Solutions for more information.
18. Replace LXX with L08 (<8' mounting), L20 (8'-20' mounting) or L40W (21'-40' mounting.)
19. Includes integral photosensor.
20. Enlighted wireless sensors are factory installed requiring network components in appropriate quantities.
21. Bronze sensor is shipped with Bronze fixtures. White sensor shipped on all other housing color options.
22. Not available with HSS or GRS options.
23. Not for use with 5NQ, 5MQ, 5WQ or RW optics. The light square trim plate is painted black when the HSS option is selected.
24. CE is not available with the 1200, DALI, LWR, MS, MS/DIM, BPC, PR or PR7 options. Available in 120-277V only.
25. One required for each light square.
26. Requires PR7.
27. Not for use with T4FT, T4W or SL4 optics.
29. Cannot be used in conjunction with additional photocontrol or other controls systems (BPC, PR, PR7, MS, LWR).
30. WAC Gateway required to enable field-configurability: Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed.
31. Requires ZW or ZD receptacle.
32. Replace XX with sensor color (WH, BZ, or BK).
33. Smart device with mobile application required to change system defaults. See controls section for details.

Product Specifications

Construction

- Driver enclosure thermally isolated from optics for optimal thermal performance
- Die-cast aluminum heat sinks
- IP66 rated housing
- 1.5G vibration rated

Optics

- Patented, high-efficiency injection-molded AccuLED Optics technology
- 13 optical distributions

Electrical

- LED driver assembly mounted for ease of maintenance
- Standard with 0-10V dimming
- Optional 10kV or 20kV surge module
- Suitable for operation in -40C to 40C ambient environments. Optional 50C high ambient (HA) configuration.

Mounting

- Gasketed and zinc plated rigid steel mounting attachment
- "Hook-N-Lock" mechanism for easy installation

Finish

- Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness
- Heat sink is powder coated black
- RAL and custom color matches available
- Coastal Construction (CC) option available

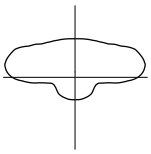
Warranty

- Five-year warranty

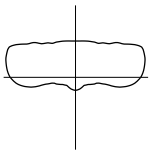
Optical Distributions

Asymmetric Area Distributions

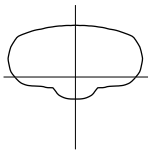
T2 (Type II)



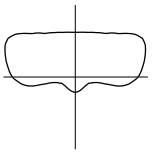
SL2 (Type II with Spill Control)



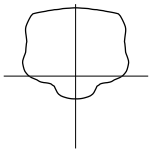
T3 (Type III)



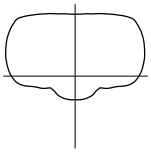
SL3 (Type III with Spill Control)



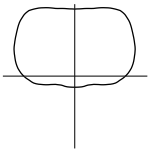
T4FT (Type IV Forward Throw)



T4W (Type IV Wide)

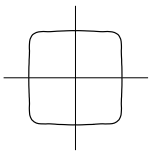


SL4 (Type IV with Spill Control)

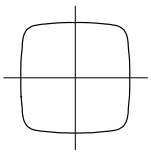


Symmetric Distributions

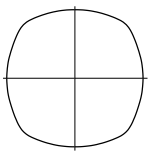
5NQ (Type V Square Narrow)



5MQ (Type V Square Medium)

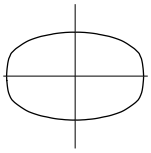


5WQ (Type V Square Wide)

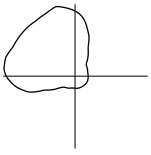


Specialized Distributions

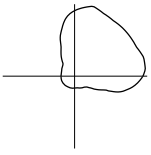
RW (Rectangular Wide Type I)



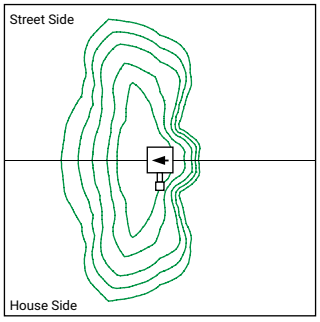
SLL (90° Spill Light Eliminator Left)



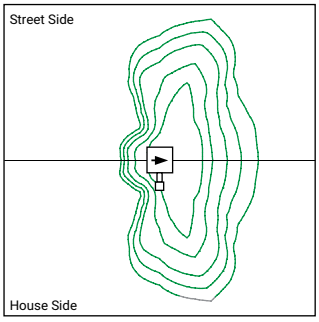
SLR (90° Spill Light Eliminator Right)



Optic Orientation



Optics Rotated Left @ 90° [L90]



Optics Rotated Right @ 90° [R90]

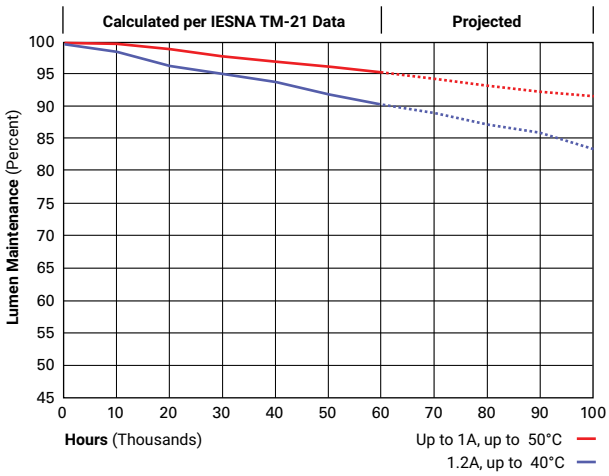
Energy and Performance Data

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
0ºC	1.02
10ºC	1.01
25ºC	1.00
40ºC	0.99
50ºC	0.97

Lumen Maintenance

Drive Current	Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Projected L70 (Hours)
Up to 1A	Up to 50°C	> 95%	> 416,000
1.2A	Up to 40°C	> 90%	> 205,000



Energy and Performance Data

View GPC Galleon Pedestrian IES files

4000K/5000K/6000K CCT, 70 CRI

Number of Light Squares		1				2			
Drive Current		615mA	800mA	1050mA	1.2A	615mA	800mA	1050mA	1.2A
Nominal Power (Watts)		34	44	59	67	66	86	113	129
Input Current @ 120V (A)		0.30	0.39	0.51	0.58	0.58	0.77	1.02	1.16
Input Current @ 208V (A)		0.17	0.22	0.29	0.33	0.34	0.44	0.56	0.63
Input Current @ 240V (A)		0.15	0.19	0.26	0.29	0.30	0.38	0.48	0.55
Input Current @ 277V (A)		0.14	0.17	0.23	0.25	0.28	0.36	0.42	0.48
Input Current @ 347V (A)		0.11	0.15	0.17	0.20	0.19	0.24	0.32	0.39
Input Current @ 480V (A)		0.08	0.11	0.14	0.15	0.15	0.18	0.24	0.30
Optics									
T2	Lumens	4,883	5,989	7,412	8,131	9,543	11,703	14,485	15,891
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3
	Lumens per Watt	144	136	126	121	145	136	128	123
T3	Lumens	4,978	6,105	7,556	8,288	9,729	11,929	14,764	16,196
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3
	Lumens per Watt	146	139	128	124	147	139	131	126
T4FT	Lumens	5,008	6,140	7,599	8,337	9,783	11,998	14,850	16,290
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	147	140	129	124	148	140	131	126
T4W	Lumens	4,942	6,060	7,502	8,229	9,658	11,843	14,658	16,080
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3
	Lumens per Watt	145	138	127	123	146	138	130	125
SL2	Lumens	4,874	5,979	7,399	8,117	9,528	11,684	14,461	15,863
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G3
	Lumens per Watt	143	136	125	121	144	136	128	123
SL3	Lumens	4,976	6,104	7,555	8,287	9,727	11,927	14,763	16,194
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	146	139	128	124	147	139	131	126
SL4	Lumens	4,729	5,799	7,178	7,873	9,239	11,333	14,025	15,387
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4
	Lumens per Watt	139	132	122	118	140	132	124	119
5NQ	Lumens	5,134	6,296	7,793	8,547	10,033	12,303	15,226	16,704
	BUG Rating	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2
	Lumens per Watt	151	143	132	128	152	143	135	129
5MQ	Lumens	5,228	6,412	7,935	8,705	10,216	12,529	15,508	17,011
	BUG Rating	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2
	Lumens per Watt	154	146	134	130	155	146	137	132
5WQ	Lumens	5,242	6,428	7,956	8,728	10,244	12,563	15,548	17,056
	BUG Rating	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2
	Lumens per Watt	154	146	135	130	155	146	138	132
SLL/SLR	Lumens	4,373	5,365	6,640	7,283	8,547	10,481	12,973	14,231
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	129	122	113	109	130	122	115	110
RW	Lumens	5,087	6,238	7,721	8,472	9,941	12,190	15,088	16,553
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2
	Lumens per Watt	150	142	131	126	151	142	134	128

*** Nominal lumen data for 70 CRI. BUG rating for 4000K/5000K. Refer to IES files for 3000K BUG ratings.**

3000K CCT, 80 CRI

Number of Light Squares		1				2			
Drive Current		615mA	800mA	1050mA	1.2A	615mA	800mA	1050mA	1.2A
Nominal Power (Watts)		34	44	59	67	66	86	113	129
Input Current @ 120V (A)		0.30	0.39	0.51	0.58	0.58	0.77	1.02	1.16
Input Current @ 208V (A)		0.17	0.22	0.29	0.33	0.34	0.44	0.56	0.63
Input Current @ 240V (A)		0.15	0.19	0.26	0.29	0.30	0.38	0.48	0.55
Input Current @ 277V (A)		0.14	0.17	0.23	0.25	0.28	0.36	0.42	0.48
Input Current @ 347V (A)		0.11	0.15	0.17	0.20	0.19	0.24	0.32	0.39
Input Current @ 480V (A)		0.08	0.11	0.14	0.15	0.15	0.18	0.24	0.30
Optics									
T2	**Lumens**	3,880	4,759	5,890	6,461	7,583	9,300	11,510	12,628
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3
	Lumens per Watt	114	108	100	96	115	108	102	98
T3	**Lumens**	3,956	4,851	6,004	6,586	7,731	9,479	11,732	12,870
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2
	Lumens per Watt	116	110	102	98	117	110	104	100
T4FT	**Lumens**	3,980	4,879	6,038	6,625	7,774	9,534	11,800	12,945
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	117	111	102	99	118	111	104	100
T4W	**Lumens**	3,927	4,816	5,961	6,539	7,675	9,411	11,648	12,778
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3
	Lumens per Watt	116	109	101	98	116	109	103	99
SL2	**Lumens**	3,873	4,751	5,880	6,450	7,571	9,285	11,491	12,605
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	114	108	100	96	115	108	102	98
SL3	**Lumens**	3,954	4,851	6,004	6,585	7,729	9,478	11,731	12,868
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	116	110	102	98	117	110	104	100
SL4	**Lumens**	3,758	4,608	5,704	6,256	7,342	9,006	11,145	12,227
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G3	B1-U0-G3	B1-U0-G3
	Lumens per Watt	111	105	97	93	111	105	99	95
5NQ	**Lumens**	4,080	5,003	6,193	6,792	7,973	9,776	12,099	13,274
	BUG Rating	B2-U0-G0	B2-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2
	Lumens per Watt	120	114	105	101	121	114	107	103
5MQ	**Lumens**	4,154	5,095	6,305	6,917	8,118	9,956	12,323	13,518
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2
	Lumens per Watt	122	116	107	103	123	116	109	105
5WQ	**Lumens**	4,166	5,108	6,322	6,936	8,140	9,983	12,355	13,553
	BUG Rating	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2
	Lumens per Watt	123	116	107	104	123	116	109	105
SLL/SLR	**Lumens**	3,475	4,263	5,276	5,787	6,792	8,329	10,309	11,309
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	102	97	89	86	103	97	91	88
RW	**Lumens**	4,042	4,957	6,135	6,732	7,900	9,687	11,990	13,154
	BUG Rating	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2
	Lumens per Watt	119	113	104	100	120	113	106	102

*** Nominal lumen data for 70 CRI. BUG rating for 4000K/5000K. Refer to IES files for 3000K BUG ratings.**

Control Options

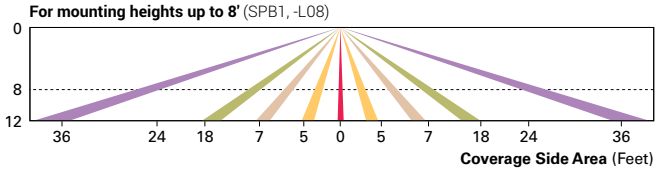
0-10V This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

Photocontrol (BPC, PR, and PR7) Optional button-type photocontrol (BPC) and photocontrol receptacles (PR and PR7) provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PR7 receptacle.

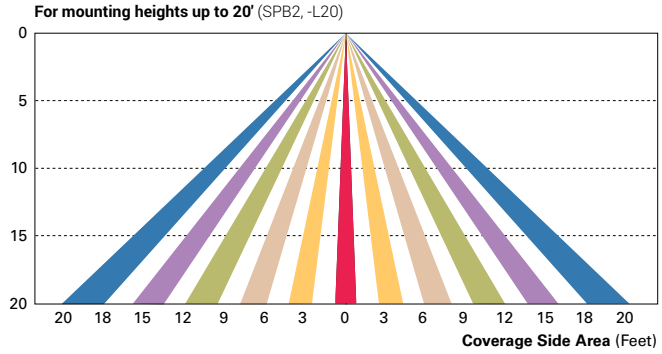
After Hours Dim (AHD) This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

Dimming Occupancy Sensor (SPB, MS/DIM-LXX and MS-LXX) These sensors are factory installed in the luminaire housing. When the SPB or MS/DIM sensor options are selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. SPB motion sensors require the Sensor Configuration mobile application by Wattstopper to change factory default dimming level, time delay, sensitivity and other parameters. Available for iOS and Android devices. The SPB sensor is factory preset to dim down to approximately 10% power with a time delay of five minutes. The MS/DIM occupancy sensors require the FSIR-100 programming tool to adjust factory defaults.

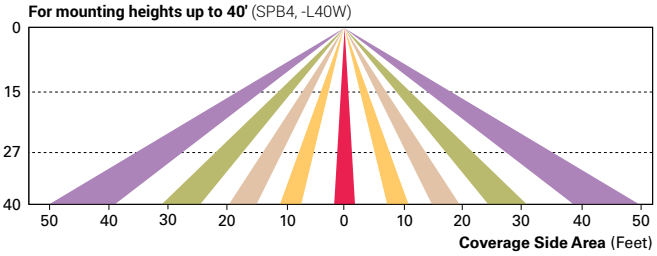
For mounting heights up to 8' (SPB1, -L08)



For mounting heights up to 20' (SPB2, -L20)

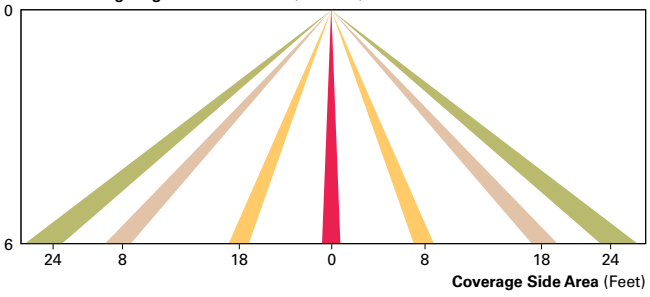


For mounting heights up to 40' (SPB4, -L40W)

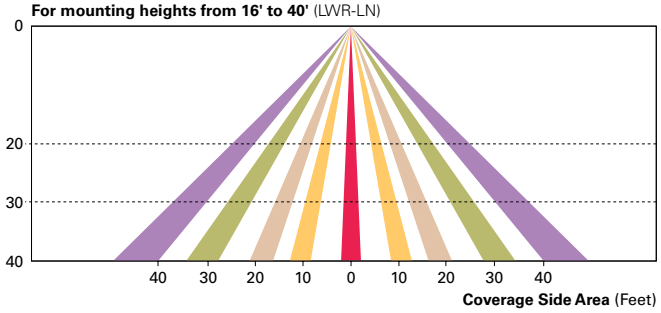


Enlighted Wireless Control and Monitoring System (LWR-LW and LWR-LN) The Enlighted control system is a connected lighting solution, combining LED luminaires with an integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes while collecting valuable data about building performance and use. Software applications utilizing energy dashboards maximize data inputs to help optimize the use of other resources beyond lighting.

For mounting heights from 8' to 16' (LWR-LW)



For mounting heights from 16' to 40' (LWR-LN)



WaveLinx Wireless Outdoor Lighting Control Module (WOLC-7P-10A) The 7-pin wireless outdoor lighting control module enables WaveLinx to control outdoor area, site and flood lighting. WaveLinx controls outdoor lighting using schedules to provide ON, OFF and dimming controls based on astronomic or time schedules based on a 7 day week.

Cooper Lighting Solutions
1121 Highway 74 South
Peachtree City, GA 30269
P. 770-486-4800
www.cooperlighting.com

Steel Poles

SSS SQUARE STRAIGHT STEEL

Catalog #		**Type**	
Project			
Comments		**Date**	
Prepared by			

FEATURES

- ASTM Grade steel base plate with ASTM A366 base cover
- Hand hole assembly 3" x 5" on 5" and 6" pole; and 2" x 4" on 4" pole
- 10'-39' mounting heights
- Drilled or tenon (specify)

DESIGN CONSIDERATIONS

Wind induced vibrations resulting from steady, unidirectional winds and other aerodynamic forces, as well as vibration and coefficient of height factors for non-grounded mounted installations (e.g., installations on bridges or buildings) are not included in this document. The information contained herein is for general guidance only and is not a replacement for professional judgement. Consult with a professional, and local and federal standards, before ordering to ensure product is appropriate for the intended purpose and installation location. Also, please review Eaton's Light Pole White Paper for risk factors and design considerations. Learn more.

Specifications and dimensions subject to change without notice. Consult your lighting representative at Eaton or visit www.eaton.com/lighting for available options, accessories and ordering information.

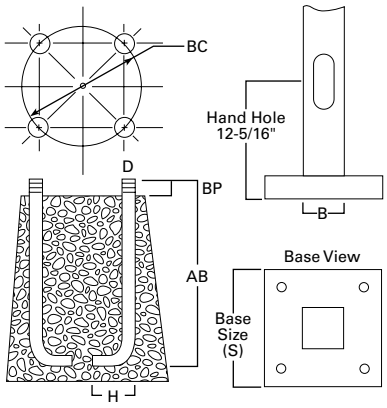
ORDERING INFORMATION

SAMPLE NUMBER: SSA5A20SFM1XG

Product Family	Shaft Size (Inches)[1]	Wall Thickness (Inches)	Mounting Height (Feet)	Base Type	Finish	Mounting Type	Number and Location of Arms	Arm Lengths (Feet)	Options (Add as Suffix)
SSS=Square Straight Steel	**4**=4" **5**=5" **6**=6"	**A**=0.120" **M**=0.188" **X**=0.250"	**10**=10' **15**=15' **20**=20' **25**=25' **30**=30' **35**=35' **39**=39'	**S**=Square Steel Base	**F**=Dark Bronze **G**=Galvanized Steel **J**=Summit White **K**=Carbon Bronze **L**=Dark Platinum **R**=Hartford Green **S**=Silver **T**=Graphite Metallic **V**=Grey **W**=White **X**=Custom Color **Y**=Black	**2**=2-3/8" O.D. Tenon (4" Long) **3**=3-1/2" O.D. Tenon (5" Long) **4**=4" O.D. Tenon (6" Long) **9**=3" O.D. Tenon (4" Long) **6**=2-3/8" O.D. Tenon (6" Long) **7**=4" O.D. Tenon (10" Long) **A**=Type A Drilling **C**=Type C Drilling **E**=Type E Drilling **F**=Type F Drilling **G**=Type G Drilling **J**=Type J Drilling **K**=Type K Drilling **M**=Type M Drilling **N**=Type N Drilling **R**=Type R Drilling **S**=Standard Upsweep Arm **Z**=Type Z Drilling	**1**=Single **2**=2 at 180° **3**=Triple[2] **4**=4 at 90° **5**=2 at 90° **X**=None	**X**=None **2**=2' **3**=2.5' **4**=4' **6**=6' **8**=8'	**A**=1/2" Tapped Hub[3] **B**=3/4" Tapped Hub[3] **C**=Convenience Outlet[4] **E**=GFCI Convenience Outlet[4] **G**=Ground Lug **H**=Additional Hand Hole[5] **V**=Vibration Dampener

NOTES: 1. All shaft sizes nominal. **2.** Square poles are 3 at 90°, round poles are 3 at 120°. **3.** Tapped Hub is located 5' below the pole top and on the same side of pole as hand hole, unless specified otherwise. **4.** Outlet is located 4' above base and on same side of pole as hand hole, unless specified otherwise. Receptacle not included, provision only. **5.** Additional hand hole is located 12" below pole top and 90° from standard hand hole location, unless otherwise specified.

DIMENSIONS



See technical information.

Effective Projected Area (At Pole Top)

Mounting Height (Feet)	Catalog Number [1, 2]	Wall Thickness (Inches)	Base Square [3] (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection [3] (Inches)	Shaft Size [3] (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) [4]				Max. Fixture Load - Includes Bracket (Pounds)
MH			**S**	**BC**	**BP**	**B**	**D x AB x H**		**80 mph**	**90 mph**	**100 mph**	**110 mph**	
10	SSS4A10S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	85	30.0	22.0	17.0	13.0	100
15	SSS4A15S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	118	15.0	11.5	8.7	6.5	100
20	SSS4A20S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	150	8.7	5.9	3.9	2.5	150
20	SSS5A20S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	183	15.4	11.1	7.9	5.5	150
25	SSS4A25S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	181	3.7	1.7	0.3	--	200
25	SSS5A25S	0.120	10-1/2	11	5	5	3/4 x 25 x 3	222	9.3	6.0	3.5	1.6	200
25	SSS6A25S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	284	9.9	6.1	3.5	1.2	200
30	SSS5A30S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	260	4.7	2.1	--	--	200
30	SSS5M30S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	392	10.4	6.4	3.5	1.5	200
30	SSS6A30S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	330	4.3	1.4	--	--	200
30	SSS6M30S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	489	19.0	13.0	8.7	5.6	200
35	SSS5M35S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	453	5.8	2.8	--	--	200
35	SSS6M35S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	564	12.8	7.2	3.7	1.0	200
35	SSS6X35S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	738	16.5	11.0	6.8	3.5	200
39	SSS6M39S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	618	7.3	3.0	--	--	300
39	SSS6X39S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	816	13.0	7.0	3.7	0.8	300

Effective Projected Area (Two Feet Above Pole Top)

Mounting Height (Feet)	Catalog Number [1, 2]	Wall Thickness (Inches)	Base Square [3] (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection [3] (Inches)	Shaft Size [3] (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) [4]				Max. Fixture Load - Includes Bracket (Pounds)
MH			**S**	**BC**	**BP**	**B**	**D x AB x H**		**80 mph**	**90 mph**	**100 mph**	**110 mph**	
10	SSS4A10S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	85	23.0	17.5	14.0	11.0	100
15	SSS4A15S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	118	13.4	10.0	7.5	5.7	100
20	SSS4A20S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	150	7.6	5.2	3.4	2.1	150
20	SSS5A20S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	183	13.8	9.9	7.1	4.9	150
25	SSS4A25S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	181	3.4	1.6	0.3	--	200
25	SSS5A25S	0.120	10-1/2	11	5	5	3/4 x 25 x 3	222	8.5	5.5	3.2	1.5	200
25	SSS6A25S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	284	9.1	5.6	3.0	1.2	200
30	SSS5A30S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	260	1.8	--	--	--	200
30	SSS5M30S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	392	9.6	5.9	1.9	0.2	200
30	SSS6A30S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	330	4.1	1.3	--	--	200
30	SSS6M30S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	489	18.5	12.5	8.4	5.3	200
35	SSS5M35S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	453	5.5	2.4	--	--	200
35	SSS6M35S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	564	11.8	7.0	3.5	1.0	200
35	SSS6X35S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	738	16.0	10.5	6.4	3.4	200
39	SSS6M39S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	618	7.0	2.4	--	--	300
39	SSS6X39S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	816	12.0	6.7	3.0	0.5	300

NOTES:

1. Catalog number includes pole with hardware kit. Anchor bolts not included. Before installing, make sure proper anchor bolts and templates are obtained.
2. Tenon size or machining for rectangular arms must be specified. Hand hole position relative to drill location.
3. Shaft size, base square, anchor bolts and projections may vary slightly. All dimensions nominal.
4. EPAs based on shaft properties with wind normal to flat. EPAs calculated using base wind velocity as indicated plus 30% gust factor.

Eaton
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.eaton.com/lighting

ATTAR
ENGINEERING, INC
CIVIL · STRUCTURAL · MARINE

Mr. Adam Causey, Director of Planning & Development
Town of Kittery, Maine
200 Rogers Road
Kittery, Maine 03904

April 22nd, 2022
Project No. C206-21

RE: Site Plan Review Application – Peer Review Revisions
Terra Cotta Pasta Company (Tax Map 3, Lot 1)
52 State Road, Kittery, Maine

Dear Mr. Causey:

On behalf of Kevin Cambridge and Terra Cotta Pasta Company, I have enclosed for your review and consideration a revised Plan Set and associated attachments for the above-referenced project. Revisions have been made to address comments presented in the Peer Review Memo prepared by CMA Engineers and dated 21 April 2022.

Additionally, in an attempt to keep the Town and the Planning Board current on this application (as the last time it was before the Board was in December of 2021), the applicant offers the following summary of the project and application recap:

- This project was originally submitted as a Sketch Plan and Shoreland Development application for review on April 22nd, 2021. The necessity for a Shoreland Development application stemmed from the parcel (and proposed addition) being located within the setback of a stream protection setback on the Town of Kittery GIS. During the subsequent months (May and June, 2021), the Town of Kittery and the applicant engaged with Mr. Jeffrey Kalinich (Assistant Shoreland Zoning Coordinator) of the MDEP regarding this shoreland setback, and the applicant was tasked with preparing a statement from a licensed soil scientist regarding the presence of an off-site but nearby stream. In response to all of this outreach, a determination was made that this development would not be subject to the stream protection setback depicted on the Town's GIS, and the application could proceed. A Site Plan Review application was submitted in October of 2021, and the application has since been reviewed by Town Staff and the Third Party Reviewing entity mentioned above. Since submitting the SPR application, the applicant has received a construction permit to remove the ledge outcrop depicted on the Plan Set in preparation for the proposed addition and parking lot expansion.

Moving on from the project summary, the applicant's responses to the above-mentioned peer review memo are as follows:

- Grading & Utility Note #3 on Sheet 3 has been revised to state that on-site maintenance of drainage features that tie in downstream to the Town of Kittery MS4 system shall be the responsibility of the property owner.

- Sheet 3 has been revised to include the requested lengths, materials, and slopes for all proposed pipe installations.

- Grading & Utility Note #2 on Sheet 3 speaks to the Road Construction Permit that was completed by the applicant earlier on in the approvals process. Correspondence with the Town of Kittery Public Works inspector is attached which speaks to the method of secured approval for connecting the proposed drainage system into the existing municipal catch basin.

- Callouts on Sheet 3 have been revised and added to properly include all rim elevations and invert/outlet information for all proposed catch basins and all relevant existing MS4 basins which are being affected by the proposed development.

- Sheet 4 (Site Details) has been revised to include details for the proposed stormwater detention basin, as well as the outlet structure of said basin. Callouts to these details on Sheet 3 remain unchanged – the details did not reside on a plot-visible layer previously.

- Regarding the Stormwater Management Study, a Ksat value of 2.4 inches/hour was used under the assumption that the subbase in the area of the proposed stormwater detention pond was structural fill. Prior to the plan revisions that created this on-site detention area, this section of the development was in an area of ledge that was to be removed and prepared as additional parking, thereby requiring gravel base and subbase preparation. The entire section of ledge called out throughout the Plan Set has since been removed to prepare the site for the eventual foundation and rear parking lot expansion.

- The existing MS4 catch basin (Pond 5P) has had its outlet revised to correctly depict the outlet condition within Route 1, with an 18" RCP flowing westerly towards Beach Pea and being received by a downstream municipal basin, for which the rim, invert and outlet information has been provided on Sheet 3. This revision to node 5P does not affect the HydroCAD model under any rain event, though a revised publish of the report is attached.

- The requested changes to the Operation and Maintenance Program have been completed, including the removal of all mention of on-site wetlands and the addition of a redlined Site Plan outlining the BMP locations for this development.

- The proposed floor plan layout and elevation plan for the development are attached. Neither document has changed since their original submissions earlier in the approvals process in October of 2021.

We look forward to discussing this project with the Planning Board at the April 28th Planning Board Meeting. Please contact me for any additional information or clarifications required.

Sincerely;

Michael J. Sudak, E.I.T.
Staff Engineer

cc: Kevin Cambridge, Terra Cotta Pasta Co.
C206-21 Cover SPR Rev 22Apr2022.doc

Mike Sudak

From: Bart McDonough <BMcDonough@kitteryme.org>
Sent: Tuesday, June 22, 2021 9:49 AM
To: Mike Sudak
Subject: FW: 52 State Road--Kittery Maine

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Mike,

Thought I forward this to you, but it looks like I didn't.

Bart

From: Kalinich, Jeffrey C [mailto:Jeffrey.C.Kalinich@maine.gov]
Sent: Thursday, June 10, 2021 8:41 AM
To: Bart McDonough <BMcDonough@kitteryme.org>
Subject: RE: 52 State Road--Kittery Maine

Good Morning Bart,

I have discussed the situation with my supervisor and we have determined that the piped segment of the mapped stream does not meet Kittery's definition and should be removed from the map. The mapped stream outside the pipe is borderline meeting Kittery's stream definition. In it's current condition a strong argument could be made that it does not because of the presence of aquatic vegetation. What I don't know is if this is a permanent change or if a channel will flush itself out after higher flows which commonly occurs with many low gradient systems.

Let me know if you have any questions.

Jeff

Jeffrey C. Kalinich
Maine Department of Environmental Protection
Assistant Shoreland Zoning Coordinator
Ph. (207) 615-7044
Fax. (207) 822-6303

From: Bart McDonough <
Sent: Tuesday, June 8, 2021 11:54 AM
To: Kalinich, Jeffrey C <
Subject: RE: 52 State Road--Kittery Maine

Sounds good. I'm inviting Code Enforcement to tag along too for both visits. Also, for the 52 State site visit, the applicant's agent will be present.

Best,
Bart

From: Kalinich, Jeffrey C [ ]
Sent: Tuesday, June 08, 2021 11:51 AM
To: Bart McDonough < >
Subject: RE: 52 State Road--Kittery Maine

Great, I would like your perspective. They will be sending me what was sent to the Town. I'll verify we have permission to enter the property.

Jeffrey C. Kalinich
Maine Department of Environmental Protection
Assistant Shoreland Zoning Coordinator
Ph. (207) 615-7044
Fax. (207) 822-6303

From: Bart McDonough < >
Sent: Tuesday, June 8, 2021 11:48 AM
To: Kalinich, Jeffrey C < >
Subject: RE: 52 State Road--Kittery Maine

Yes I do. That will be an interesting one.

Best,
Bart

From: Kalinich, Jeffrey C [ ]
Sent: Tuesday, June 08, 2021 11:22 AM
To: Bart McDonough < >
Subject: RE: 52 State Road--Kittery Maine

Matt Cardian reached out to me regarding 178 Whipple. Do you have time to look at that tomorrow after 52 State?

Jeffrey C. Kalinich
Maine Department of Environmental Protection
Assistant Shoreland Zoning Coordinator
Ph. (207) 615-7044
Fax. (207) 822-6303

From: Bart McDonough < >
Sent: Tuesday, June 8, 2021 10:26 AM
To: Kalinich, Jeffrey C < >
Subject: RE: 52 State Road--Kittery Maine

That's what I have too.

Thanks,
Bart

From: Kalinich, Jeffrey C [ ]
Sent: Tuesday, June 08, 2021 8:51 AM
To: Bart McDonough < >
Subject: RE: 52 State Road--Kittery Maine

Hi Bart,

I have tomorrow at 9:30; 52 State Road.

Jeffrey C. Kalinich
Maine Department of Environmental Protection
Assistant Shoreland Zoning Coordinator
Ph. (207) 615-7044
Fax. (207) 822-6303

From: Bart McDonough < >
Sent: Monday, June 7, 2021 2:33 PM
To: Kalinich, Jeffrey C < >
Subject: RE: 52 State Road--Kittery Maine

Good afternoon Jeff,

Want to confirm that date/time you are coming to Kittery this week.

Please advise,

Best,

Bart McDonough
Town Planner

Town of Kittery
200 Rogers Road
Kittery, ME 03904
Phone: 207.475.1323
Email:

From: Bart McDonough
Sent: Tuesday, June 01, 2021 5:19 PM
To: 'Kalinich, Jeffrey C' < >
Subject: 52 State Road--Kittery Maine

Hi Jeff,

Attached is the site evaluator's letter and the sketch plan application for 52 State Road. Please let me know if you have any questions, and if not, I'll see you next Wednesday at 9:30 am.

Best,

Bart McDonough
Town Planner

Town of Kittery
200 Rogers Road
Kittery, ME 03904
Phone: 207.475.1323
Email:

Stream & Wetland Inventory Report

Terra Cotta Pasta
52 State Road
Kittery, Maine
Tax Map 3 Lot 1

May 26, 2021

On May 24 2021, a field investigation was performed on the reference property. The purpose of the investigation was to locate streams, ditches and wetlands that would affect a proposed expansion of Terra Cotta Pasta. A development plan and a separate plan with aerial overlay by Attar Engineering, Eliot Maine were used as control.

There are no streams, drainage ditches or wetlands on the subject property or on the abutting property at 50 State Road (parcel 3-2)

A transect was run northeasterly from the iron pipe at the NE property corner of Terra Cotta Pasta along the property boundary between parcel 8-43 (Marshall) and parcel 8-46 (Higgins). At approximately 60' northeast of the referenced pipe is the nearest point of a palustrine forested, broad-leaved deciduous wetland (classification PFO1). In approximately 35' on the same course, the wetland becomes a predominantly emergent persistent artificially flooded wetland (classification PEM1K). Standing water was observed at an outfall pipe at Marshall's and scattered throughout the wetland on the Marshalls lot and on parcel 8-46.

While standing water was present throughout the wetlands described, no stream indicators were observed – no mineral bottoms in areas of standing water, no defined channels and no evidence of flowing water that would cause scouring.

The limit of the investigation was approximately 200' northeast of the NE property corner of Terra Cotta property.

In my opinion, there are no streams or stream segments within 200 feet of the NE property corner of Terra Cotta Pasta with wetlands present as described above.

Michael Mariano

ME Licensed Soil Scientist # 192
ME Site Evaluator # 219
NH Wetland Scientist #183
NH Certified Soil Scientist #076

TOWN OF KITTERY

Department of Public Works
200 Rogers Road, Kittery, ME 03904
Telephone: 207-439-0333 Fax: 207-439-6816

MEMORANDUM

To:	Bart McDonough, Town Planner
CC:	Mike Sudak, Attar Engineering Brian Nielsen, Attar Engineering
From:	Jessa Kellogg, Public Works Inspector
Subject:	Terra Cotta Expansion Stormwater Connection to Municipal MS4 52 State Road, Tax Map 3 Lot 1
Date:	February 10, 2022

I have reviewed the Grading & Utility Plan dated 12/02/21 for the Terra Cotta Expansion project and have the following comments.

The project proposes installing catch basins in the expanded parking area and dedicating the stormwater runoff to the municipal MS4 system located on State Road. The parcel is located within the MS4 urbanized area; however, this project is not subject to Maine DEP Chapter 500 requirements as the proposed development is under an acre in disturbance.

The Public Works Department is willing to approve the connection. As there is a significant increase in impervious area proposed with all runoff being discharged to the municipal MS4, it would be in the Town's best interest to have this system reviewed by CMA Engineers to ensure the existing infrastructure can handle the increased capacity.

I highly recommend this project have a plan to inspect and maintain best management practices (BMPs) for the private stormwater infrastructure, including annual cleaning of the catch basins. The property owner is responsible for ensuring the discharge into the municipal MS4 does not violate the Nonstormwater Discharge ordinance in Title 16.9.7. Sediment and debris are commonly found in catch basin sumps and without regular maintenance and cleaning can become an illicit discharge subject to enforcement action. Title 16.4.4 under nonstormwater discharge states that nonstormwater discharges are prohibited notwithstanding the fact that the municipality may have approved the connection.

From: Kittery, ME
To: Mike Sudak
Subject: Jessa Kellogg commented on Is the application complete? for #EP-21-5
Date: Tuesday, March 23, 2021 2:12:50 PM

Kittery, ME

Jessa Kellogg commented on Is the application complete? for #EP-21-5

"Hi Mike,
This all looks fine. Once you are through permitting with Code/Planning I can approve this, and I've let them know you have permission to connect.

Thanks,
Jessa"

View Details

Powered by the OpenGov platform

From: Mike Sudak
To: Jessa Kellogg
Cc: Ken Wood; Kevin Cambridge
Subject: RE: Terra Cotta Pasta Co.
Date: Friday, March 19, 2021 1:52:00 PM

Good Afternoon Jessa,

Thank you for taking my call earlier. I have completed the requested Road Excavation Permit and have submitted the required framework (issued number is EP-21-5).
Please take a look and give me a call to discuss what other construction items/details you would like to see provided to get comfortable with what we are proposing to dedicate.

Thanks and take care,
-Mike

From: Ken Wood <Ken@attarengineering.com>
Sent: Thursday, March 18, 2021 4:17 AM
To: Jessa Kellogg <JKellogg@kitteryme.org>; Bart McDonough <BMcDonough@kitteryme.org>; Craig Alfis <CEO@kitteryme.org>; Mike Sudak <mike@attarengineering.com>
Cc: billrob54@comcast.net; Kevin Cambridge <kevin.cambridge@terracottapasta.com>; Dave Evans <DEvans@kitteryme.org>
Subject: RE: Terra Cotta Pasta Co.

Great. Thanks Jessa, Mike can forward this info to you. Best.

Ken

Sent from my Sprint Samsung Galaxy S10e.

-------- Original message --------
From: Jessa Kellogg <JKellogg@kitteryme.org>
Date: 3/17/21 2:55 PM (GMT-05:00)
To: Bart McDonough <BMcDonough@kitteryme.org>, Ken Wood <Ken@attarengineering.com>, Craig Alfis <CEO@kitteryme.org>
Cc: billrob54@comcast.net, Kevin Cambridge <kevin.cambridge@terracottapasta.com>, Dave Evans <DEvans@kitteryme.org>
Subject: Re: Terra Cotta Pasta Co.

Hi Ken,

The size of the site and amount of disturbance does not trigger any local stormwater permitting. If there is no alternate location to discharge stormwater (i.e. to the rear or nearby wetlands) or if the stormwater cannot be contained on site, I can permit a connection from a private drainage system to the municipal drainage system, provided that a maintenance and inspection plan is submitted for the private system and the owner is responsible for the connection. I will need a Road Excavation Permit submitted and my preference is to have the basin cored and boot installed so future maintenance is easier. Please let me know if you need any additional information!

Thanks,
Jessa

Jessa Kellogg
Public Works Inspector
Town of Kittery
200 Rogers Road
Kittery, Maine 03904
www.kitteryme.gov
jkellogg@kitteryme.org
(207) 475-1321

From: Bart McDonough
Sent: Tuesday, March 16, 2021 17:02
To: Ken Wood; Craig Alfis
Cc: billrob54@comcast.net; Kevin Cambridge; Dave Evans; Jessa Kellogg
Subject: RE: Terra Cotta Pasta Co.

Afternoon Ken,

Thanks for sending this over. Given Jessa is our MS4 / stormwater leader, I will defer to her to determination on the permissibility and requirements of discharging into the system. I will follow up with her tomorrow on the matter as I have meeting with her on another project.

Be in touch soon.

Best,

Bart McDonough
Town Planner

Town of Kittery

200 Rogers Road
Kittery, ME 03904
Phone: 207.475.1323
Email: bmcdonough@kitteryme.org

From: Ken Wood [mailto:Ken@attarengineering.com]
Sent: Tuesday, March 16, 2021 4:32 PM
To: Bart McDonough <BMcDonough@kitteryme.org>; Craig Alfis <CEO@kitteryme.org>
Cc: billrob54@comcast.net; Kevin Cambridge <kevin.cambridge@terracottapasta.com>; Dave Evans <DEvans@kitteryme.org>; Jessa Kellogg <JKellogg@kitteryme.org>
Subject: RE: Terra Cotta Pasta Co.

Hi Bart – I have attached the site plan for Terra Cotta Pasta – Mike Sudak from this office also discussed stormwater management with Jessa (copied here) and she mentioned that we may be able to discharge directly to the municipal system in State Rd. Before I forward any waiver requests can we further this discussion or can Jessa comment as this would decide whether or not we need on site quality and quantity treatment. Best and thank you for your assistance, as always.

Ken

Kenneth A. Wood, P.E.
President
ATTAR
ENGINEERING, INC.
CIVIL ◆ STRUCTURAL ◆ MARINE
1284 State Road
Eliot, ME 03903
Phone: (207) 439-6023
Fax: (207) 439-2128

www.attarengineering.com

From: Bart McDonough <BMcDonough@kitteryme.org>
Sent: Tuesday, October 20, 2020 5:01 PM
To: Craig Alfis <CEO@kitteryme.org>; Ken Wood <Ken@attarengineering.com>
Cc: billrob54@comcast.net; Kevin Cambridge <kevin.cambridge@terracottapasta.com>; Dave Evans <DEvans@kitteryme.org>
Subject: RE: Terra Cotta Pasta Co.

Evening Ken,

Unfortunately, this will have to go through the Planning Board review process giving the reasons Craig stated below. In my opinion, the cleanest way forward is to request waivers from the site plan ordinance standards. Before you file an application for Planning Board review, please email me, Craig and Dave your proposed site plan and accompanying waiver requests and we respond with initial comments.

Let me know if you think that is a good way forward, if not, I'm open to suggestions.

Best,

Bart McDonough
Town Planner

Town of Kittery
200 Rogers Road
Kittery, ME 03904
Phone: 207.475.1323
Email: bmcdonough@kitteryme.org

From: Craig Alfis
Sent: Tuesday, October 20, 2020 4:49 PM
To: Ken Wood <Ken@attarengineering.com>
Cc: billrob54@comcast.net; Kevin Cambridge <kevin.cambridge@terracottapasta.com>; Dave Evans <DEvans@kitteryme.org>; Bart McDonough <BMcDonough@kitteryme.org>
Subject: RE: Terra Cotta Pasta Co.

Hi Ken,
I've attached a screen shot of our official zoning map and of our online mapping system. These show a little more clearly that there is a stream with Stream Protection (OZ-SL-75). Stream Protection is basically a sub type of Shoreland Overlay that carries a 75 foot setback vs. the normal 100 foot setback and 250 foot buffer. I completely agree that there is not a functional stream in the location that is shown on the map but unfortunately I have to treat it as there is unless the official zoning map is changed. Myself and Bart McDonough, the Town Planner, met with Kevin and we agreed that the easiest way to go about the development would be to do a shoreland development plan and hopefully the Planning Board would amend the zoning map as a result. The only other way to get around would be to bring a zoning map amendment to the Planning Board and we believe this would be a harder process than the shoreland development plan. I've copied Bart on the email. He will need to answer your last question about the full site plan.

Craig Alfis
Code Enforcement Officer
Town of Kittery
207-475-1308

kitteryme.gov/code-enforcement

From: Ken Wood <Ken@attarengineering.com>
Sent: Tuesday, October 20, 2020 1:33 PM
To: Craig Alfis <CEO@kitteryme.org>
Cc: billrob54@comcast.net; Kevin Cambridge <kevin.cambridge@terracottapasta.com>
Subject: Terra Cotta Pasta Co.

Good Afternoon Craig – we're currently assisting Kevin Cambridge in the civil design and permitting for the addition to Terra Cotta Pasta. Yesterday I visited the site and there is no evidence of a stream on or adjacent to the parcel (for background, I am a certified Natural Scientist in N.H. and have been delineating wetlands since 1988). I also reviewed the Site Plans that we designed and successfully permitted for both adjacent parcels (50 State Road, Map 3/Lot 2 for Granite State Pioneer Group and 56 State Road, Map 8/Lot 43 for Marshall Rental) – both were permitted under the Base (LB-1 at the time) zoning requirements and were not considered a Shoreland Development application. I also reviewed the zoning map and the parcel doesn't appear to be in the SLZ but a stream is shown in the area according to the town's Stream Buffers map – is this the reason a Shoreland Development Plan is required? Thanks for any assistance Craig – can you also let me know if the addition requires a full site plan application and review (Site and Grading Plan and Stormwater Management)? Thanks again.

Best.

Ken

Kenneth A. Wood, P.E.
President
ATTAR
ENGINEERING, INC.
CIVIL ◆ STRUCTURAL ◆ MARINE
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Eliot, ME 03903
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---------- Forwarded message ---------
From: **Kevin Cambridge** <kevin.cambridge@terracottapasta.com>
Date: Tue, Oct 13, 2020 at 9:39 AM

Subject: Re: Terra Cotta Pasta Co.
To: Craig Alfis <CEO@kitteryme.org>

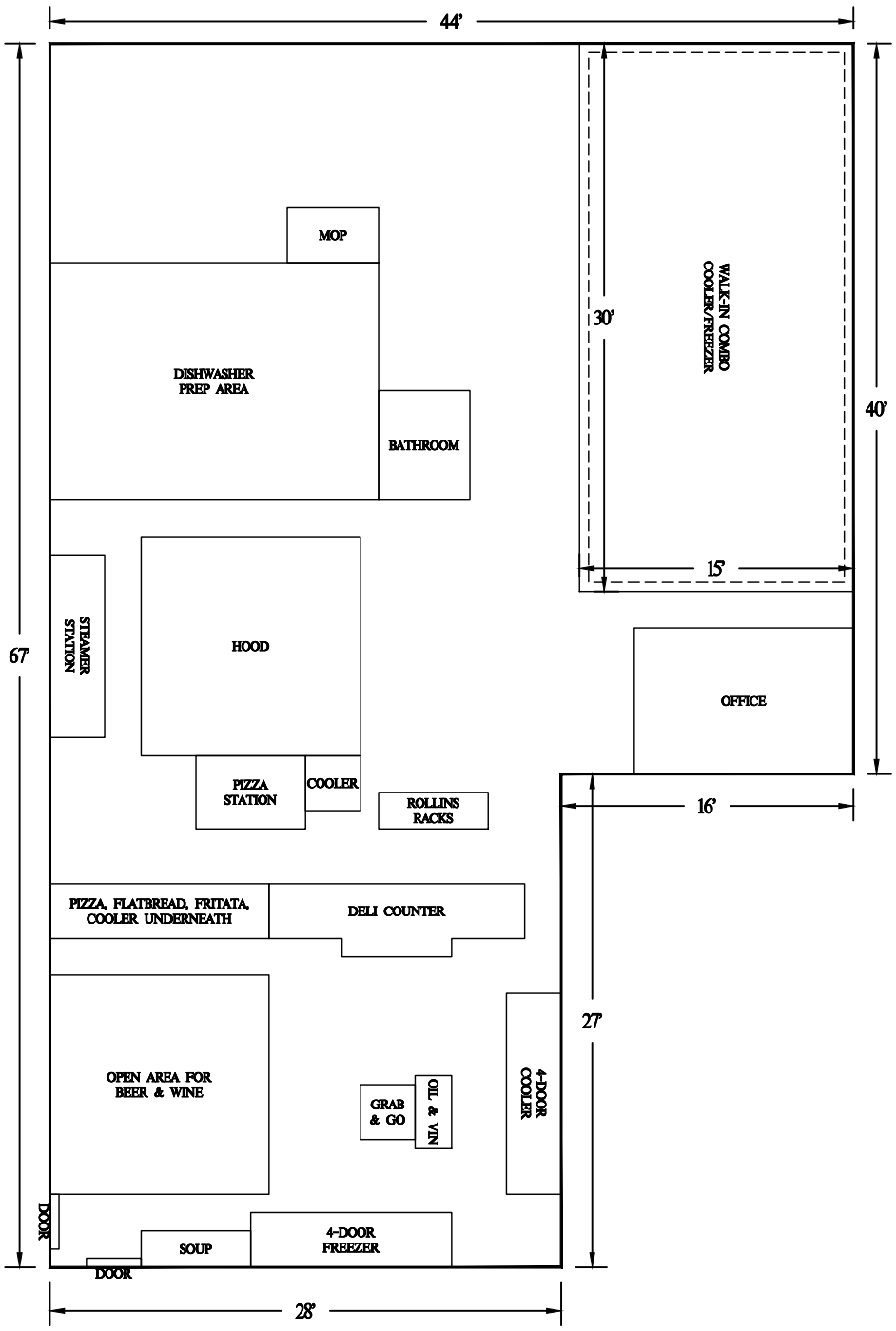
Thank You Craig I will pass this on to Bill Robinson and Ken Woods, Kevin

On Tue, Oct 13, 2020 at 9:34 AM Craig Alfis <CEO@kitteryme.org> wrote:

> Hi Kevin,
> We recently updated our online mapping system to match the Town Council approved zoning map. This could account for the discrepancy for why it was not brought up in prior conversations. The map can be viewed online at https://www.axisgis.com/KitteryME/. As for Marshall's, they were given Planning Board approval for the building and the site plan. The best next step would be to have a surveyor come out and survey the property. They will determine whether that stream is functional or not (we are assuming that it is no longer functional as it is mostly a man made drainage swale in the area). Unfortunately, regardless of what we determine in office, the stream is still shown on our map with Shoreland Protection. Once you have a survey you can go to Planning Board with the survey and the building plan for a shoreland development review. If your survey shows that there is no functional stream that review should be fairly easy. Once you have the Planning Board approval you would just need to pull a building permit and you would be all set to go.
>
> **Craig Alfis**
> Code Enforcement Officer
> Town of Kittery
> 207-475-1308
>
> kitteryme.gov/code-enforcement
>
> ---
>
> **From:** Kevin Cambridge <kevin.cambridge@terracottapasta.com>
> **Sent:** Thursday, October 8, 2020 2:19 PM
> **To:** Craig Alfis <CEO@kitteryme.org>
> **Subject:** Fwd: Terra Cotta Pasta Co.
>
> ---------- Forwarded message ---------
> From: **Kevin Cambridge** <kevin.cambridge@terracottapasta.com>
> Date: Mon, Oct 5, 2020 at 12:09 PM
> Subject: Terra Cotta Pasta Co.
> To: Craig Alfis <ceo@kitteryme.org>
>
> Good morning Craig, it's Kevin Cambridge. Thanks for taking the time to meet with

me
Thursday. I was surprised to know about the information about the stream as Ive spoke with Dave on two prior occasions about my intentions and was not mentioned. I am curious if you can forward the map with delineations on it w regards to the stream. I may be wrong but it seems to me Marshalls built all along the course of the stream. I'm just thinking out loud as my hope is to expand as my layout showed. I'm very much hoping my plan will work as we've been working in some very tight space for a long time, not to mention bought the property on the premise of expansion.

If you have any steps I should be doing and advice to help me, I would appreciate it. Thank you <Dave and Bart for meeting Thursday (sorry for the screw-up about where). Kevin Cambridge



STOREFRONT PARKING & ROUTE 1

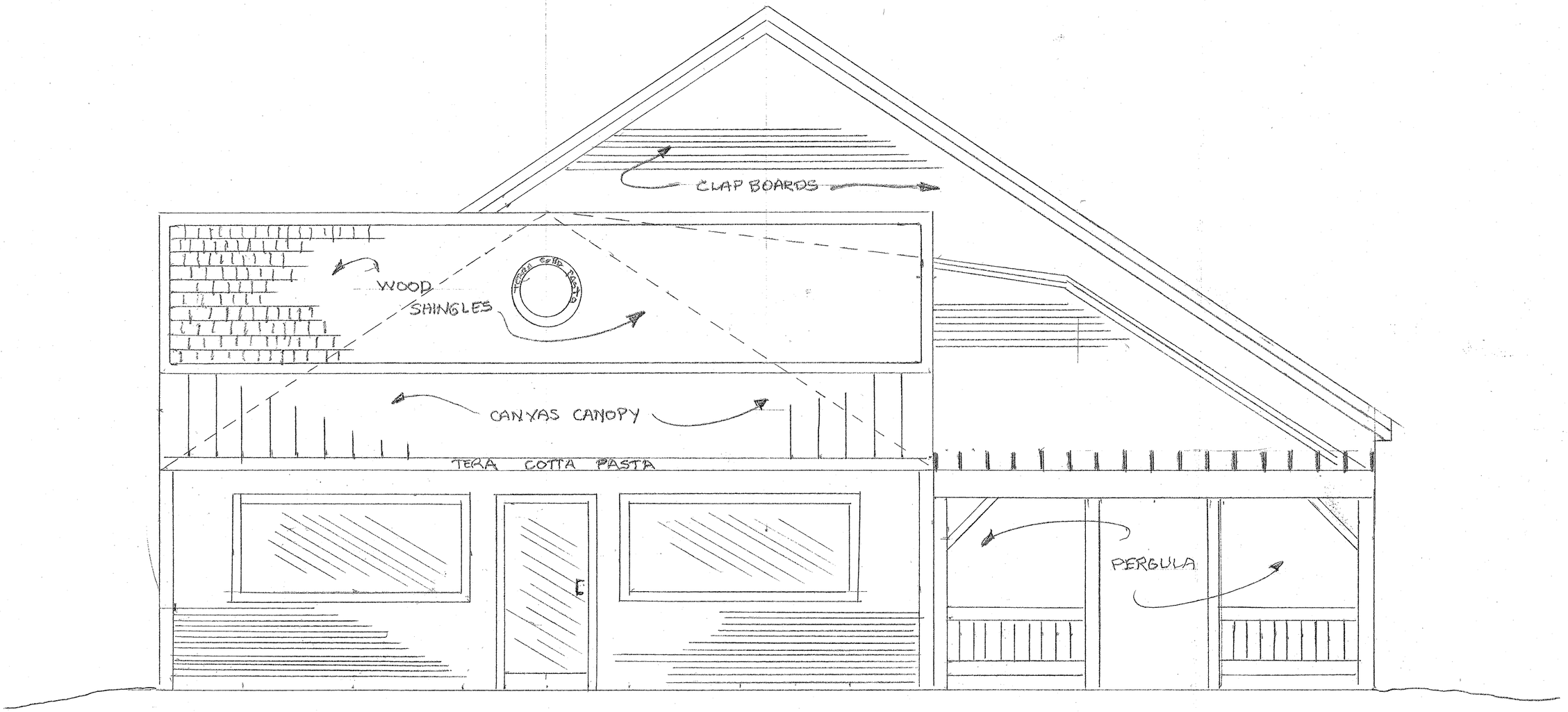
ATTAR ENGINEERING, INC.
CIVIL ◆ STRUCTURAL ◆ MARINE ◆ SURVEYING
1284 STATE ROAD – ELIOT, MAINE 03903
PHONE: (207)439–6023 FAX: (207)439–2128

SCALE: 1" = 10'	APPROVED BY:	DRAWN BY: MJS
DATE: 10/28/21		REVISION DATE: – : –
JOB NO: C206–21	FILE: TERRA COTTA BASE.DWG	SHEET: 1

LOCATION:
52 STATE ROAD
KITTERY ME 03904
TAX MAP 3, LOT 1

INFORMATION:
INTERIOR FLOOR PLAN

TERRA COTTA PASTA CO.
C/O KEVIN CAMBRIDGE
52 STATE RD. KITTERY



FRONT ELEVATION
3/8" = 1'-0"

PROPOSED ELEVATION FOR
~~TERRA COTTA PASTA CO~~

SCALE:	APPROVED BY:	DRAWN BY
DATE:		REVISED

BILL ROBINSON & SON BLDG CONTRS

KITTERY ME

DRAWING NUMBER
NOV 2021

ATTAR
ENGINEERING, INC
CIVIL STRUCTURAL MARINE

TERRA COTTA PASTA EXPANSION
STATE ROAD (U.S. ROUTE 1), KITTERY, MAINE
STORMWATER MANAGEMENT STUDY

Project No.: C206-21 April 22nd, 2022

♦ Scope

This stormwater management plan has been prepared for Terra Cotta Pasta, an existing business, located on State Road, Kittery, Maine. The entire parcel contains approximately 0.65 acres; the site expansion will include a 1,760 square foot kitchen, a new patio/seating area, and an expanded parking lot. The project will create approximately 0.20 acres of impervious area.

♦ Site and Watershed Description

The project site is located in the Portsmouth Harbor watershed. Portsmouth Harbor empties to the Atlantic Ocean. A 7½ minute series U.S.G.S. map of the project area is attached.

The existing site is developed with a 1,050 S.F. structure (Terra Cotta Pasta Co.), an Existing Dwelling (separate) and associated driveways and parking. The remainder of the lot contains woodlands and grassed lawn.

As mentioned above, the site is located in the Portsmouth Harbor watershed approximately 80% of the site drains to the municipal storm sewer system (MS4). The remaining 20% drains off site and eventually to the MS4.

♦ Soils/Hydrologic Soil Groups

Soil types and their respective Hydrologic Soil Groups (HSG) were determined from the Soil Survey of York County, Maine. The site consists of Lyman Loam (LnC, HSG D) and Urban land (Ur).

♦ Methodology

The stormwater quantity analysis will be conducted using the HydroCAD Stormwater Modeling System by Applied Microcomputer Systems. The analysis determines the "Existing Condition" and "Developed Condition" stormwater flows. Both cases are analyzed for the 2, 10 and 25-year, 24-hour frequency storm events. The Existing Condition analyzes the site as it currently exists, and the Developed Condition models the site with the proposed improvements described above.

♦ Water Quantity Analysis

Existing Condition

The site was divided into three subcatchments (SC) for the Existing Condition analysis. SC 1 drains to an existing catch basin and eventually to AP 1. SC 2 drains to AP 2.

The APs were selected to provide convenient points to compare Existing Condition flows to Developed Condition flows.

Developed Condition

The Developed Condition analysis consists of 6 subcatchments. SC's 3 & 4 make up the entire proposed parking lot, which is routed through a detention basin and into the downstream drainage structure system. SC's 1, 2, & 5 all route through catch basins

(existing and proposed) and eventually drain to an existing catch basin and to AP 1. SC 6 drains directly to AP 2.

Changes in Stormwater Flows

Tables showing Existing Condition peak flows, Developed Condition peak flows and the change in peak flow from Existing Condition to Developed Condition are presented on a separate page.

The analysis indicates a decrease in peak flow at AP1 and AP2 for all storm events (2, 10 and 25-year). See attached Quantity Analysis for stormwater flow rates.

- **Summary**

The use of a detention basin to collect on-site stormwater runoff and encourage infiltration prior to directing flow to the proposed catch basins allows for a decrease in peak flow that is received by the existing municipal storm sewer system (MS4). No adverse effects are anticipated on any downstream properties or drainage structures for the analyzed storm events.

Sincerely;

Michael J. Sudak, E.I.T.
Staff Engineer

ATTAR
ENGINEERING, INC
CIVIL • STRUCTURAL • MARINE

TERRA COTTA PASTA CO. - EXPANSION
STATE ROAD (U.S. ROUTE 1)
KITTERY, MAINE

OPERATION AND MAINTENANCE PROGRAM STORMWATER MANAGEMENT BMP's

This project contains specific Best Management Practices (BMP's) for the conveyance, storage, and treatment of stormwater and the prevention of erosion. These BMP's consist of catch basins and culverts. All components should be inspected quarterly, and after every significant rain event of 1" in any 24-hour period.

The party responsible for implementing this Operation and Maintenance Program (O & M Program) shall be the property owner or owner's representative.

Stormwater Detention Areas
The Stormwater Detention Areas shall be inspected to ensure that there is no channeling of stormwater and that no debris accumulates within the detention areas. The vegetative cover conditions shall be maintained. The inlets and outlets shall be inspected for erosion and any evidence of debris that could clog the culverts.

Catch Basins
All catch basin grates, sumps, and inlets/outlets should be inspected for accumulation of debris, which could adversely affect the function of this BMP. Additionally, the basin inverts shall be inspected for clogging and material soundness. Sumps shall always be clear to a depth of 1' below the outlet invert. Inlet structures shall be inspected and cleaned of debris at least twice annually, once in the spring following snow melt and once in the autumn after leaf fall.

Culverts
Culvert inlets and outlets should be inspected for debris, which could clog the BMP. Additionally, the placement of rip-rap should be inspected to ensure that all areas remain smooth and no areas exhibit erosion in the form of rills or gullies.

Snow Removal
Snow shall be stockpiled only in the approved snow storage areas. Plowing of snow into detention ponds is prohibited. Additionally, a mostly sand mix (reduced salt) shall be applied during winter months to prevent excessive salt leaching. Excess sand shall be removed from the storage areas, all paved surfaces and adjacent areas each spring.

Seeding, Fertilizing and Mulching
All exposed soil materials and stockpiles must be either temporarily or permanently seeded, fertilized and mulched in accordance with plan specifications. This is one of the most important features of the Erosion Control Plan, which will provide both temporary and permanent stabilization. Eroded or damaged lawn areas must be repaired until a 75% effective growth of vegetation is established and permanently maintained.

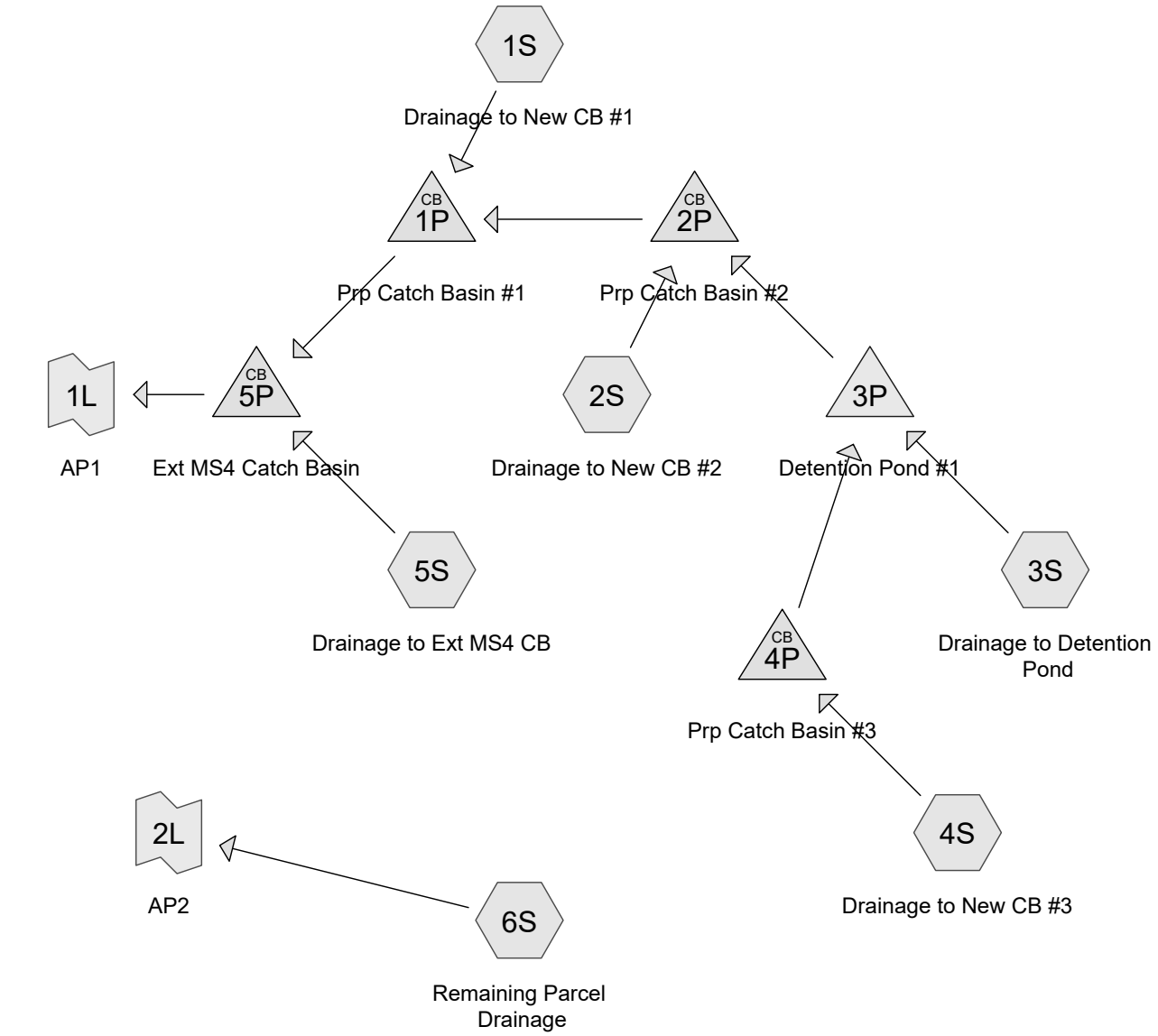
Record Keeping
Routine maintenance and inspections will be accomplished by the property owners of or a third party contracted by the respective owner. All inspections accomplished in accordance with this program shall be documented on the attached Inspection & Maintenance Log. Copies of the Log shall be kept by the property owner or owner's representative, and be made available to the Town of Kittery, upon request.

Additional responsibilities to include, on or by July 1 of each year, providing a completed and signed certification to the Code Enforcement Officer in a form provided by the Town, certifying that the person has inspected the stormwater management facilities and that they are adequately maintained and functioning as intended by the stormwater management plan, or that they require maintenance or repair, describing any required maintenance and any deficiencies found during inspection of the stormwater management facilities and, if the stormwater management facilities require maintenance or repair of deficiencies in order to function as intended by the approved stormwater management plan, the person must provide a record of the required maintenance or deficiency and corrective action(s) taken.

INSPECTION & MAINTENANCE LOG
TERRA COTTA PASTA CO.

Date	BMP[1]	Purpose[2]	Maintenance Done[3]	By

1. "BMP" refers to which site feature is being maintained. For example; Catch Basin, Culvert, Swale, Underdrained Soil Filter (USF) etc.
2. "Purpose" is the reason for the inspection. For example; "quarterly' or "after a significant rain event."
3. "Maintenance Done" means any maintenance required as a result of the inspection, such as trash removal or re-seeding of areas.



Subcat Reach Pond Link

Routing Diagram for TCPC SWA DEV

Prepared by {enter your company name here}, Printed 4/22/2022

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.354	80	>75% Grass cover, Good, HSG D (1S, 2S, 3S, 4S, 5S, 6S)
0.324	98	Paved parking, HSG D (1S, 2S, 3S, 4S, 5S, 6S)
0.096	98	Roofs, HSG D (1S, 2S, 5S)
0.041	79	Woods, Fair, HSG D (3S, 4S, 5S, 6S)
0.816	**89**	**TOTAL AREA**

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: Drainage to New CB #1 Runoff Area=2,896 sf 64.23% Impervious Runoff Depth>2.34"
Flow Length=70' Tc=1.2 min CN=92 Runoff=0.21 cfs 0.013 af

Subcatchment 2S: Drainage to New CB #2 Runoff Area=3,404 sf 53.38% Impervious Runoff Depth>2.15"
Flow Length=65' Tc=4.9 min CN=90 Runoff=0.21 cfs 0.014 af

Subcatchment 3S: Drainage to Detention Runoff Area=9,263 sf 55.67% Impervious Runoff Depth>2.14"
Flow Length=108' Tc=21.5 min CN=90 Runoff=0.37 cfs 0.038 af

Subcatchment 4S: Drainage to New CB #3 Runoff Area=5,226 sf 65.48% Impervious Runoff Depth>2.33"
Flow Length=86' Tc=10.5 min CN=92 Runoff=0.29 cfs 0.023 af

Subcatchment 5S: Drainage to Ext MS4 CB Runoff Area=10,665 sf 54.96% Impervious Runoff Depth>2.15"
Flow Length=217' Tc=11.6 min CN=90 Runoff=0.54 cfs 0.044 af

Subcatchment 6S: Remaining Parcel Runoff Area=4,087 sf 5.09% Impervious Runoff Depth>1.45"
Flow Length=163' Tc=11.6 min CN=81 Runoff=0.14 cfs 0.011 af

Pond 1P: Prp Catch Basin #1 Peak Elev=22.10' Inflow=0.43 cfs 0.054 af
15.0" Round Culvert n=0.013 L=55.0' S=0.0055 '/' Outflow=0.43 cfs 0.054 af

Pond 2P: Prp Catch Basin #2 Peak Elev=23.01' Inflow=0.33 cfs 0.041 af
15.0" Round Culvert n=0.013 L=85.0' S=0.0106 '/' Outflow=0.33 cfs 0.041 af

Pond 3P: Detention Pond #1 Peak Elev=26.85' Storage=686 cf Inflow=0.59 cfs 0.061 af
Discarded=0.05 cfs 0.034 af Primary=0.28 cfs 0.027 af Outflow=0.33 cfs 0.061 af

Pond 4P: Prp Catch Basin #3 Peak Elev=27.04' Inflow=0.29 cfs 0.023 af
15.0" Round Culvert n=0.013 L=50.0' S=0.0050 '/' Outflow=0.29 cfs 0.023 af

Pond 5P: Ext MS4 Catch Basin Peak Elev=20.83' Inflow=0.91 cfs 0.098 af
18.0" Round Culvert n=0.013 L=35.0' S=0.0114 '/' Outflow=0.91 cfs 0.098 af

Link 1L: AP1 Inflow=0.91 cfs 0.098 af
Primary=0.91 cfs 0.098 af

Link 2L: AP2 Inflow=0.14 cfs 0.011 af
Primary=0.14 cfs 0.011 af

Total Runoff Area = 0.816 ac Runoff Volume = 0.144 af Average Runoff Depth = 2.11"
48.44% Pervious = 0.395 ac 51.56% Impervious = 0.421 ac

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: Drainage to New CB #1 Runoff Area=2,896 sf 64.23% Impervious Runoff Depth>4.18"
Flow Length=70' Tc=1.2 min CN=92 Runoff=0.36 cfs 0.023 af

Subcatchment 2S: Drainage to New CB #2 Runoff Area=3,404 sf 53.38% Impervious Runoff Depth>3.97"
Flow Length=65' Tc=4.9 min CN=90 Runoff=0.37 cfs 0.026 af

Subcatchment 3S: Drainage to Detention Runoff Area=9,263 sf 55.67% Impervious Runoff Depth>3.96"
Flow Length=108' Tc=21.5 min CN=90 Runoff=0.66 cfs 0.070 af

Subcatchment 4S: Drainage to New CB #3 Runoff Area=5,226 sf 65.48% Impervious Runoff Depth>4.17"
Flow Length=86' Tc=10.5 min CN=92 Runoff=0.50 cfs 0.042 af

Subcatchment 5S: Drainage to Ext MS4 CB Runoff Area=10,665 sf 54.96% Impervious Runoff Depth>3.97"
Flow Length=217' Tc=11.6 min CN=90 Runoff=0.96 cfs 0.081 af

Subcatchment 6S: Remaining Parcel Runoff Area=4,087 sf 5.09% Impervious Runoff Depth>3.07"
Flow Length=163' Tc=11.6 min CN=81 Runoff=0.30 cfs 0.024 af

Pond 1P: Prp Catch Basin #1 Peak Elev=22.27' Inflow=0.92 cfs 0.115 af
15.0" Round Culvert n=0.013 L=55.0' S=0.0055 '/' Outflow=0.92 cfs 0.115 af

Pond 2P: Prp Catch Basin #2 Peak Elev=23.13' Inflow=0.67 cfs 0.092 af
15.0" Round Culvert n=0.013 L=85.0' S=0.0106 '/' Outflow=0.67 cfs 0.092 af

Pond 3P: Detention Pond #1 Peak Elev=27.42' Storage=1,251 cf Inflow=1.04 cfs 0.112 af
Discarded=0.06 cfs 0.045 af Primary=0.59 cfs 0.066 af Outflow=0.65 cfs 0.110 af

Pond 4P: Prp Catch Basin #3 Peak Elev=27.14' Inflow=0.50 cfs 0.042 af
15.0" Round Culvert n=0.013 L=50.0' S=0.0050 '/' Outflow=0.50 cfs 0.042 af

Pond 5P: Ext MS4 Catch Basin Peak Elev=21.01' Inflow=1.69 cfs 0.196 af
18.0" Round Culvert n=0.013 L=35.0' S=0.0114 '/' Outflow=1.69 cfs 0.196 af

Link 1L: AP1 Inflow=1.69 cfs 0.196 af
Primary=1.69 cfs 0.196 af

Link 2L: AP2 Inflow=0.30 cfs 0.024 af
Primary=0.30 cfs 0.024 af

Total Runoff Area = 0.816 ac Runoff Volume = 0.266 af Average Runoff Depth = 3.91"
48.44% Pervious = 0.395 ac 51.56% Impervious = 0.421 ac

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: Drainage to New CB #1 Runoff Area=2,896 sf 64.23% Impervious Runoff Depth>5.34"
Flow Length=70' Tc=1.2 min CN=92 Runoff=0.45 cfs 0.030 af

Subcatchment 2S: Drainage to New CB #2 Runoff Area=3,404 sf 53.38% Impervious Runoff Depth>5.13"
Flow Length=65' Tc=4.9 min CN=90 Runoff=0.48 cfs 0.033 af

Subcatchment 3S: Drainage to Detention Runoff Area=9,263 sf 55.67% Impervious Runoff Depth>5.12"
Flow Length=108' Tc=21.5 min CN=90 Runoff=0.84 cfs 0.091 af

Subcatchment 4S: Drainage to New CB #3 Runoff Area=5,226 sf 65.48% Impervious Runoff Depth>5.34"
Flow Length=86' Tc=10.5 min CN=92 Runoff=0.63 cfs 0.053 af

Subcatchment 5S: Drainage to Ext MS4 CB Runoff Area=10,665 sf 54.96% Impervious Runoff Depth>5.13"
Flow Length=217' Tc=11.6 min CN=90 Runoff=1.23 cfs 0.105 af

Subcatchment 6S: Remaining Parcel Runoff Area=4,087 sf 5.09% Impervious Runoff Depth>4.16"
Flow Length=163' Tc=11.6 min CN=81 Runoff=0.40 cfs 0.033 af

Pond 1P: Prp Catch Basin #1 Peak Elev=22.35' Inflow=1.19 cfs 0.156 af
15.0" Round Culvert n=0.013 L=55.0' S=0.0055 '/' Outflow=1.19 cfs 0.156 af

Pond 2P: Prp Catch Basin #2 Peak Elev=23.24' Inflow=1.08 cfs 0.126 af
15.0" Round Culvert n=0.013 L=85.0' S=0.0106 '/' Outflow=1.08 cfs 0.126 af

Pond 3P: Detention Pond #1 Peak Elev=27.56' Storage=1,408 cf Inflow=1.33 cfs 0.144 af
Discarded=0.06 cfs 0.048 af Primary=0.94 cfs 0.093 af Outflow=1.01 cfs 0.141 af

Pond 4P: Prp Catch Basin #3 Peak Elev=27.19' Inflow=0.63 cfs 0.053 af
15.0" Round Culvert n=0.013 L=50.0' S=0.0050 '/' Outflow=0.63 cfs 0.053 af

Pond 5P: Ext MS4 Catch Basin Peak Elev=21.09' Inflow=2.13 cfs 0.260 af
18.0" Round Culvert n=0.013 L=35.0' S=0.0114 '/' Outflow=2.13 cfs 0.260 af

Link 1L: AP1 Inflow=2.13 cfs 0.260 af
Primary=2.13 cfs 0.260 af

Link 2L: AP2 Inflow=0.40 cfs 0.033 af
Primary=0.40 cfs 0.033 af

Total Runoff Area = 0.816 ac Runoff Volume = 0.344 af Average Runoff Depth = 5.06"
48.44% Pervious = 0.395 ac 51.56% Impervious = 0.421 ac

Summary for Subcatchment 1S: Drainage to New CB #1

[49] Hint: Tc<2dt may require smaller dt

Runoff = 0.45 cfs @ 12.02 hrs, Volume= 0.030 af, Depth> 5.34"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25 YEAR STORM Rainfall=6.60"

Area (sf)	CN	Description
695	98	Roofs, HSG D
1,165	98	Paved parking, HSG D
1,036	80	>75% Grass cover, Good, HSG D
2,896	92	Weighted Average
1,036		35.77% Pervious Area
1,860		64.23% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	16	0.0500	1.40		**Sheet Flow, SF 1** Smooth surfaces n= 0.011 P2= 3.33"
1.0	54	0.0100	0.94		**Sheet Flow, SF 2** Smooth surfaces n= 0.011 P2= 3.33"
1.2	70	Total			

Summary for Subcatchment 2S: Drainage to New CB #2

[49] Hint: Tc<2dt may require smaller dt

Runoff = 0.48 cfs @ 12.07 hrs, Volume= 0.033 af, Depth> 5.13"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25 YEAR STORM Rainfall=6.60"

Area (sf)	CN	Description
865	98	Roofs, HSG D
952	98	Paved parking, HSG D
1,587	80	>75% Grass cover, Good, HSG D
3,404	90	Weighted Average
1,587		46.62% Pervious Area
1,817		53.38% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
4.6	20	0.0050	0.07		**Sheet Flow, SF 1** Grass: Short n= 0.150 P2= 3.33"
0.3	45	0.0150	2.49		**Shallow Concentrated Flow, SCF 1** Paved Kv= 20.3 fps
4.9	65	Total			

Summary for Subcatchment 3S: Drainage to Detention Pond

Runoff = 0.84 cfs @ 12.29 hrs, Volume= 0.091 af, Depth> 5.12"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25 YEAR STORM Rainfall=6.60"

Area (sf)	CN	Description
1,522	79	Woods, Fair, HSG D
5,157	98	Paved parking, HSG D
2,584	80	>75% Grass cover, Good, HSG D
9,263	90	Weighted Average
4,106		44.33% Pervious Area
5,157		55.67% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.1	50	0.0050	0.04		**Sheet Flow, SF 1** Woods: Light underbrush n= 0.400 P2= 3.33"
0.4	58	0.0150	2.49		**Shallow Concentrated Flow, SCF 1** Paved Kv= 20.3 fps
21.5	108	Total			

Summary for Subcatchment 4S: Drainage to New CB #3

Runoff = 0.63 cfs @ 12.14 hrs, Volume= 0.053 af, Depth> 5.34"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25 YEAR STORM Rainfall=6.60"

Area (sf)	CN	Description
154	79	Woods, Fair, HSG D
3,422	98	Paved parking, HSG D
1,650	80	>75% Grass cover, Good, HSG D
5,226	92	Weighted Average
1,804		34.52% Pervious Area
3,422		65.48% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.1	20	0.0050	0.03		**Sheet Flow, SF 1** Woods: Light underbrush n= 0.400 P2= 3.33"
0.4	66	0.0150	2.49		**Shallow Concentrated Flow, SCF 1** Paved Kv= 20.3 fps
10.5	86	Total			

Summary for Subcatchment 5S: Drainage to Ext MS4 CB

Runoff = 1.23 cfs @ 12.16 hrs, Volume= 0.105 af, Depth> 5.13"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25 YEAR STORM Rainfall=6.60"

Area (sf)	CN	Description
2,638	98	Roofs, HSG D
3,224	98	Paved parking, HSG D
22	79	Woods, Fair, HSG D
4,781	80	>75% Grass cover, Good, HSG D
10,665	90	Weighted Average
4,803		45.04% Pervious Area
5,862		54.96% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	50	0.0050	0.09		**Sheet Flow, SF 1** Grass: Short n= 0.150 P2= 3.33"
1.8	106	0.0190	0.96		**Shallow Concentrated Flow, SCF 1** Short Grass Pasture Kv= 7.0 fps
0.2	61	0.0640	5.14		**Shallow Concentrated Flow, SCF 2** Paved Kv= 20.3 fps
11.6	217	Total			

Summary for Subcatchment 6S: Remaining Parcel Drainage

Runoff = 0.40 cfs @ 12.16 hrs, Volume= 0.033 af, Depth> 4.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 25 YEAR STORM Rainfall=6.60"

Area (sf)	CN	Description
76	79	Woods, Fair, HSG D
208	98	Paved parking, HSG D
3,803	80	>75% Grass cover, Good, HSG D
4,087	81	Weighted Average
3,879		94.91% Pervious Area
208		5.09% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	50	0.0050	0.09		**Sheet Flow, SF 1** Grass: Short n= 0.150 P2= 3.33"
1.6	48	0.0050	0.49		**Shallow Concentrated Flow, SCF 1** Short Grass Pasture Kv= 7.0 fps
0.4	65	0.1230	2.45		**Shallow Concentrated Flow, SCF 1** Short Grass Pasture Kv= 7.0 fps
11.6	163	Total			

Summary for Pond 1P: Prp Catch Basin #1

[82] Warning: Early inflow requires earlier time span
[57] Hint: Peaked at 22.35' (Flood elevation advised)
[79] Warning: Submerged Pond 2P Primary device # 1 OUTLET by 0.50'

Inflow Area = 0.477 ac, 58.95% Impervious, Inflow Depth > 3.92" for 25 YEAR STORM event
Inflow = 1.19 cfs @ 12.37 hrs, Volume= 0.156 af
Outflow = 1.19 cfs @ 12.37 hrs, Volume= 0.156 af, Atten= 0%, Lag= 0.0 min
Primary = 1.19 cfs @ 12.37 hrs, Volume= 0.156 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Peak Elev= 22.35' @ 12.37 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	21.75'	**15.0" Round CMP_Round 15"** L= 55.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 21.75' / 21.45' S= 0.0055 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.18 cfs @ 12.37 hrs HW=22.35' (Free Discharge)
1=CMP_Round 15" (Barrel Controls 1.18 cfs @ 2.98 fps)

Summary for Pond 2P: Prp Catch Basin #2

[82] Warning: Early inflow requires earlier time span
[57] Hint: Peaked at 23.24' (Flood elevation advised)
[79] Warning: Submerged Pond 3P Primary device # 2 INLET by 0.24'

Inflow Area = 0.411 ac, 58.10% Impervious, Inflow Depth > 3.69" for 25 YEAR STORM event
Inflow = 1.08 cfs @ 12.39 hrs, Volume= 0.126 af
Outflow = 1.08 cfs @ 12.39 hrs, Volume= 0.126 af, Atten= 0%, Lag= 0.0 min
Primary = 1.08 cfs @ 12.39 hrs, Volume= 0.126 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Peak Elev= 23.24' @ 12.39 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	22.75'	**15.0" Round CMP_Round 15"** L= 85.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 22.75' / 21.85' S= 0.0106 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=1.08 cfs @ 12.39 hrs HW=23.24' (Free Discharge)
1=CMP_Round 15" (Inlet Controls 1.08 cfs @ 2.39 fps)

Summary for Pond 3P: Detention Pond #1

[82] Warning: Early inflow requires earlier time span
[81] Warning: Exceeded Pond 4P by 0.54' @ 12.50 hrs

Inflow Area = 0.333 ac, 59.21% Impervious, Inflow Depth > 5.20" for 25 YEAR STORM event
Inflow = 1.33 cfs @ 12.20 hrs, Volume= 0.144 af
Outflow = 1.01 cfs @ 12.41 hrs, Volume= 0.141 af, Atten= 24%, Lag= 12.4 min
Discarded = 0.06 cfs @ 12.41 hrs, Volume= 0.048 af
Primary = 0.94 cfs @ 12.41 hrs, Volume= 0.093 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Peak Elev= 27.56' @ 12.41 hrs Surf.Area= 1,119 sf Storage= 1,408 cf

Plug-Flow detention time= 37.9 min calculated for 0.140 af (98% of inflow)
Center-of-Mass det. time= 29.1 min (790.1 - 761.0)

Volume	Invert	Avail.Storage	Storage Description
#1	26.00'	1,925 cf	**Custom Stage Data (Prismatic)**Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
26.00	700	0	0
27.00	950	825	825
28.00	1,250	1,100	1,925

Device	Routing	Invert	Outlet Devices
#1	Discarded	26.00'	**2.400 in/hr Exfiltration over Surface area**
#2	Primary	23.00'	**15.0" Round CMP_Round 15"** L= 30.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 23.00' / 22.85' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf
#3	Device 2	27.25'	**6.0" Vert. Orifice/Grate X 2.00** C= 0.600
#4	Device 2	26.25'	**4.0" Vert. Orifice/Grate** C= 0.600

Discarded OutFlow Max=0.06 cfs @ 12.41 hrs HW=27.56' (Free Discharge)
└**1=Exfiltration** (Exfiltration Controls 0.06 cfs)

Primary OutFlow Max=0.94 cfs @ 12.41 hrs HW=27.56' (Free Discharge)
└**2=CMP_Round 15"** (Passes 0.94 cfs of 11.72 cfs potential flow)
  ├**3=Orifice/Grate** (Orifice Controls 0.49 cfs @ 1.90 fps)
  └**4=Orifice/Grate** (Orifice Controls 0.45 cfs @ 5.15 fps)

Summary for Pond 4P: Prp Catch Basin #3

[82] Warning: Early inflow requires earlier time span
[57] Hint: Peaked at 27.19' (Flood elevation advised)

Inflow Area = 0.120 ac, 65.48% Impervious, Inflow Depth > 5.34" for 25 YEAR STORM event
Inflow = 0.63 cfs @ 12.14 hrs, Volume= 0.053 af
Outflow = 0.63 cfs @ 12.14 hrs, Volume= 0.053 af, Atten= 0%, Lag= 0.0 min
Primary = 0.63 cfs @ 12.14 hrs, Volume= 0.053 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Peak Elev= 27.19' @ 12.14 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	26.75'	**15.0" Round CMP_Round 15"** L= 50.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 26.75' / 26.50' S= 0.0050 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.23 sf

Primary OutFlow Max=0.63 cfs @ 12.14 hrs HW=27.18' (Free Discharge)
1=CMP_Round 15" (Barrel Controls 0.63 cfs @ 2.47 fps)

Summary for Pond 5P: Ext MS4 Catch Basin

[82] Warning: Early inflow requires earlier time span
[57] Hint: Peaked at 21.09' (Flood elevation advised)

Inflow Area = 0.722 ac, 57.60% Impervious, Inflow Depth > 4.33" for 25 YEAR STORM event
Inflow = 2.13 cfs @ 12.12 hrs, Volume= 0.260 af
Outflow = 2.13 cfs @ 12.12 hrs, Volume= 0.260 af, Atten= 0%, Lag= 0.0 min
Primary = 2.13 cfs @ 12.12 hrs, Volume= 0.260 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Peak Elev= 21.09' @ 12.12 hrs

Device	Routing	Invert	Outlet Devices
#1	Primary	20.40'	**18.0" Round CMP_Round 18"** L= 35.0' RCP, sq.cut end projecting, Ke= 0.500 Inlet / Outlet Invert= 20.40' / 20.00' S= 0.0114 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 1.77 sf

Primary OutFlow Max=2.11 cfs @ 12.12 hrs HW=21.09' (Free Discharge)
1=CMP_Round 18" (Barrel Controls 2.11 cfs @ 3.91 fps)

Summary for Link 1L: AP1

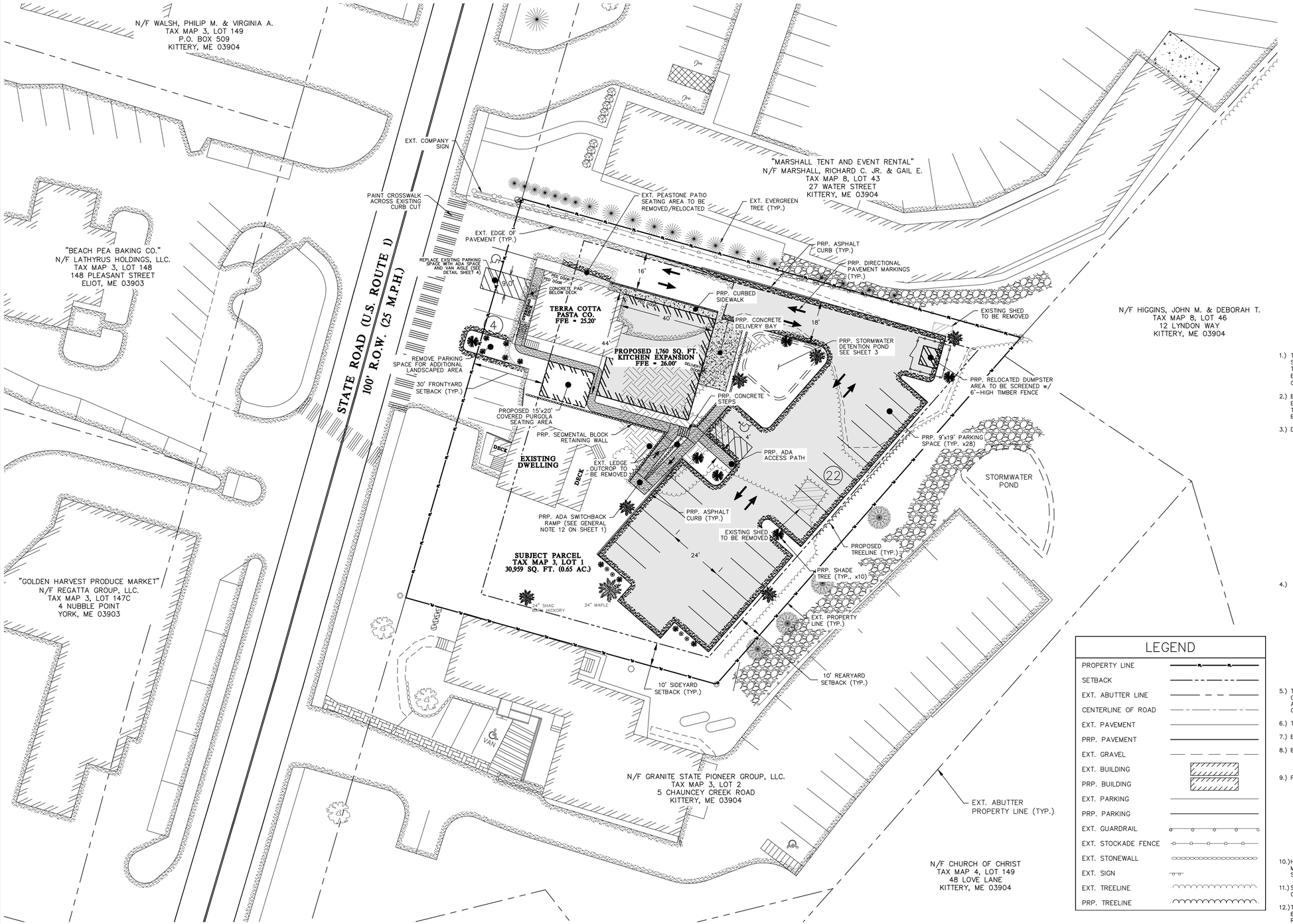
Inflow Area = 0.722 ac, 57.60% Impervious, Inflow Depth > 4.33" for 25 YEAR STORM event
Inflow = 2.13 cfs @ 12.12 hrs, Volume= 0.260 af
Primary = 2.13 cfs @ 12.12 hrs, Volume= 0.260 af, Atten= 0%, Lag= 0.0 min

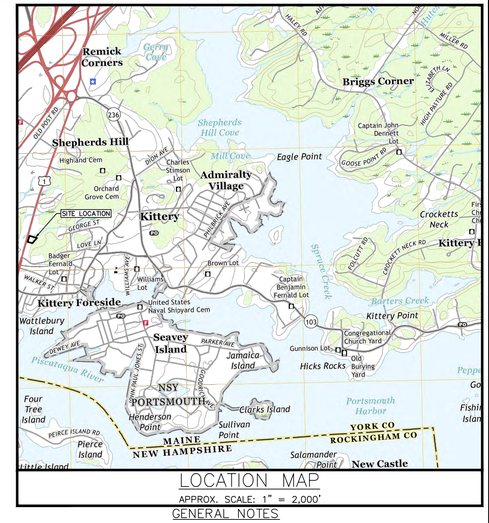
Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Summary for Link 2L: AP2

Inflow Area = 0.094 ac, 5.09% Impervious, Inflow Depth > 4.16" for 25 YEAR STORM event
Inflow = 0.40 cfs @ 12.16 hrs, Volume= 0.033 af
Primary = 0.40 cfs @ 12.16 hrs, Volume= 0.033 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs





LOCATION MAP

APPROX. SCALE: 1" = 2,000'

GENERAL NOTES

1.) THIS PLAN PROVIDES FOR AN EXPANSION TO THE EXISTING COMPANY "TERRA COTTA PASTA CO." LOCATED ON STATE ROAD IN KITTERY, MAINE ON TAX MAP 3, LOT 1. THE PARCEL IS 0.65 ACRES AND IS LOCATED WITHIN THE "BUSINESS – LOCAL 1" (B–L1) ZONING DISTRICT. THE PROPOSED EXPANSION INCLUDES ENLARGING THE EXISTING KITCHEN SPACE, EXPANDING THE REAR PARKING AREA, AND RELOCATING/ADDING A ROADSIDE COVERED PATIO/SEATING AREA.

2.) BOUNDARY SURVEY AND EXISTING MONUMENTATION ALONG PERIMETER AS PER REFERENCES 1, 2, AND 3. EXISTING CONDITIONS AND TOPOGRAPHY (ELEVATION DATUM NAVD88, INTERVAL 1') TAKEN FROM AN ON–SITE TOPOGRAPHIC SURVEY PERFORMED BY ATTAR ENGINEERING, INC. SEE REFERENCE 4 FOR CONFIRMATION OF BOUNDARY SURVEY.

3.) DIMENSIONAL REQUIREMENTS FOR THE BUSINESS – LOCAL 1 (B–L1) ZONING DISTRICT ARE AS FOLLOWS:
MINIMUM LOT SIZE:
20,000 SQ. FT.
SETBACKS:
30' FRONT YARD*
10' SIDE YARD & REAR YARD**
MINIMUM LAND AREA PER DWELLING UNIT:
8,000 SQ. FT. WHEN ALL FLOORS ARE RESIDENTIAL
3,500 SQ. FT. WHEN THE ENTIRE FIRST FLOOR IS NON–RESIDENTIAL USE
MAXIMUM BUILDING COVERAGE:
50% (INCLUDING OUTDOOR STORED MATERIAL)
MAXIMUM BUILDING HEIGHT:
40' MAXIMUM AND NOT TO EXCEED 3 STORIES
MINIMUM STREET FRONTAGE:
50' PER BUILDING (175.01' EXISTING AS PER PLAN REFERENCE 1)
MINIMUM AREA DEDICATED TO LANDSCAPED AREA, AS PER §16.3.2.9.D.(4).(a):
15%

* – FRONT YARD SETBACK MUST BE DESIGNED TO PROMOTE A PEDESTRIAN PUBLIC SPACE, AS PER §16.3.2.9.D.(1).(e)
** – SIDE & REAR YARD SETBACKS MUST BE 15' WHEN ABUTTING A RESIDENTIAL ZONING DISTRICT, AS PER §16.3.2.9.D.(1).(f)

4.) PARKING CALCULATIONS FOR THE PROPOSED EXPANSION ARE AS FOLLOWS, AS PER §16.8.9.4.D:
DWELLINGS – 2 SPACES PER EACH DWELLING UNIT
=> 2 SPACES REQUIRED (EXISTING DWELLING)
RETAIL STORE – 1 PARKING SPACE FOR EACH 175 SQ. FT. OF GROSS FLOOR AREA (STORE + PATIO)
=> [1,032 + 300 SQ. FT. / 175] => 7.61 SPACES REQUIRED
INDUSTRIAL KITCHEN – 1 PARKING SPACE PER 500 SQUARE FEET OF FLOOR AREA, OR 1:1 SPACES PER EMPLOYEE ON THE MAXIMUM SHIFT
=> [1,714 SQ. FT. / 500] => 3.43 SPACES
=> 7 MAX. CONCURRENT EMPLOYEES => 7 SPACES, 7 > 3.43 => 7 SPACES REQUIRED
WAREHOUSE AND STORAGE – 1 PARKING SPACE PER 500 SQUARE FEET OF FLOOR AREA
=> 2ND FLOOR FOR BOTH EXISTING BUILDING & PROPOSED EXPANSION
=> [2,746 SQ. FT. / 500] => 6 SPACES

TOTAL SPACES
=> [2 + 7.61 + 7 + 6] = 22.61 => 23 SPACES REQUIRED (26 PROVIDED, 2 ADA)

5.) THE CONTRACTOR MUST CONTACT DIG SAFE AND ALL LOCAL UTILITIES PRIOR TO THE START OF CONSTRUCTION TO VERIFY THE LOCATION OF EXISTING SUBSURFACE UTILITIES AND CONDITIONS. LOCATING AND PROTECTING ANY UNDERGROUND OR ABOVE GROUND UTILITY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

6.) THE PROPERTY IS SERVED BY MUNICIPAL WATER (KWD) AND SEWER (KSD).

7.) EXISTING, OFF–SITE, STRUCTURES SHOWN WITHIN THIS PLAN SET ARE IN APPROXIMATE LOCATIONS.

8.) BUILDING COVERAGE CALCULATION:
EXISTING CONDITION: [2,342 SQ. FT. / 30,959 SQ. FT.] = 7.56%
DEVELOPED CONDITION: [4,182 SQ. FT. / 30,959 SQ. FT.] = 13.1% < 50% => OK

9.) PROPOSED SHADE TREES AND LANDSCAPING:
PER §16.3.2.9.D.(4).(g) 1 TREE/1,000 SQ. FT. ADDED GROSS FLOOR AREA
= [1,760/1,000] => 2 TREES
PER §16.8.9.4.G. 1 TREE/8 PARKING SPACES (FOR AREAS CONTAINING 10 SPACES OR MORE) = [26/8] => 4 TREES
10% OF INTERIOR PARKING AREA CONTAINING 25 SPACES OR MORE (24 PROPOSED IN EXPANDED REAR LOT) SHALL BE LANDSCAPED
PER §16.3.2.9.D(4).(a) 15% OF LOT AREA WILL BE LANDSCAPED.
=[11,218 SQ. FT. LANDSCAPED/ 30,959 SQ. FT. TOTAL SITE]
=> 36.2% LANDSCAPED
SEE GRADING & UTILITY NOTE 4 ON SHEET 3.

10.) HOURS OF OPERATION (UNCHANGED FROM EXISTING USE)
MONDAY THRU FRIDAY: 09:00A – 07:00P
SATURDAY: 09:00A – 06:00P, SUNDAY: 10:00A – 05:00P

11.) SNOW STORAGE LOCATIONS ARE DEPICTED ON SHEET 3. IN THE INSTANCE THAT THE LOT REACHES MAXIMUM CAPACITY FOR SNOW STORAGE, ALL EXCESS SNOW WILL BE CARRIED OFF–SITE.

12.) THE PROPOSED REAR PARKING LOT IS DESIGNED WITH A SINGLE ADA SPACE THAT SHALL ACCESS THE BUSINESS BY WAY OF A SWITCHBACK RAMP. RAMP AND LANDINGS SHALL BE ASPHALT OR CONCRETE, WITH RAMP RUN SLOPES NOT TO EXCEED 1:12. SEE DETAIL SHEET 4 FOR SWITCHBACK DESIGN DIMENSIONS.

LEGEND

PROPERTY LINE
SETBACK
EXT. ABUTTER LINE
CENTERLINE OF ROAD
EXT. PAVEMENT
PRP. PAVEMENT
EXT. GRAVEL
EXT. BUILDING
PRP. BUILDING
EXT. PARKING
PRP. PARKING
EXT. GUARDRAIL
EXT. STOCKADE FENCE
EXT. STONEWALL
EXT. SIGN
EXT. TREELINE
PRP. TREELINE

INDEX OF SHEETS

TOWN OF KITTERY
PLANNING BOARD DATE

REFERENCES

1.) "STANDARD BOUNDARY SURVEY OF RICHARD R. & SANDRA WING, U.S. ROUTE ONE, KITTERY, MAINE" PREPARED BY ALICE GOODWIN, PLPS #1306 OF WRIGHT PIERCE ENGINEERS. PLAN DATED 10/28/1988 AND RECORDED AT THE YORK COUNTY REGISTRY OF DEEDS IN DEED BOOK 178, PAGE 1.

2.) "SITE PLAN – MIXED USE BUILDING, 50 STATE ROAD, KITTERY, MAINE" PREPARED FOR GRANITE STATE PIONEER GROUP, LLC. PREPARED BY ATTAR ENGINEERING, INC. PLAN DATED 08/07/2012.

3.) "SITE PLAN AMENDMENT – MARSHALL RENTAL CENTER, 56 STATE ROAD, KITTERY, MAINE" PREPARED BY ATTAR ENGINEERING, INC. PLAN DATED 06/15/2012.

4.) WARRANTY DEED FOR THE SUBJECT PARCEL IS RECORDED AT THE YORK COUNTY REGISTRY OF DEEDS IN DEED BOOK 16592, PAGE 268. ADDITIONALLY, SETTLEMENT AND BOUNDARY LINE AGREEMENT IS RECORDED AT THE Y.C.R.D. IN DEED BOOK 4963, PAGE 253.

NO.	DESCRIPTION	DATE
	REVISIONS	
F	FINAL PLAN REVISIONS	05/02/22
E	PEER REVIEW REVISIONS	04/22/22
D	PEER REVIEW REVISIONS	04/08/22
C	PRELIMINARY PLAN REVISIONS	02/10/22
B	PRELIMINARY PLAN REVISIONS	12/02/21
A	PRELIMINARY PLAN SUBMISSION	10/28/21

STATE OF MAINE
KENNETH A. WOOD
No. 5992
LICENSED PROFESSIONAL ENGINEER

TAX MAP 3, LOT 1

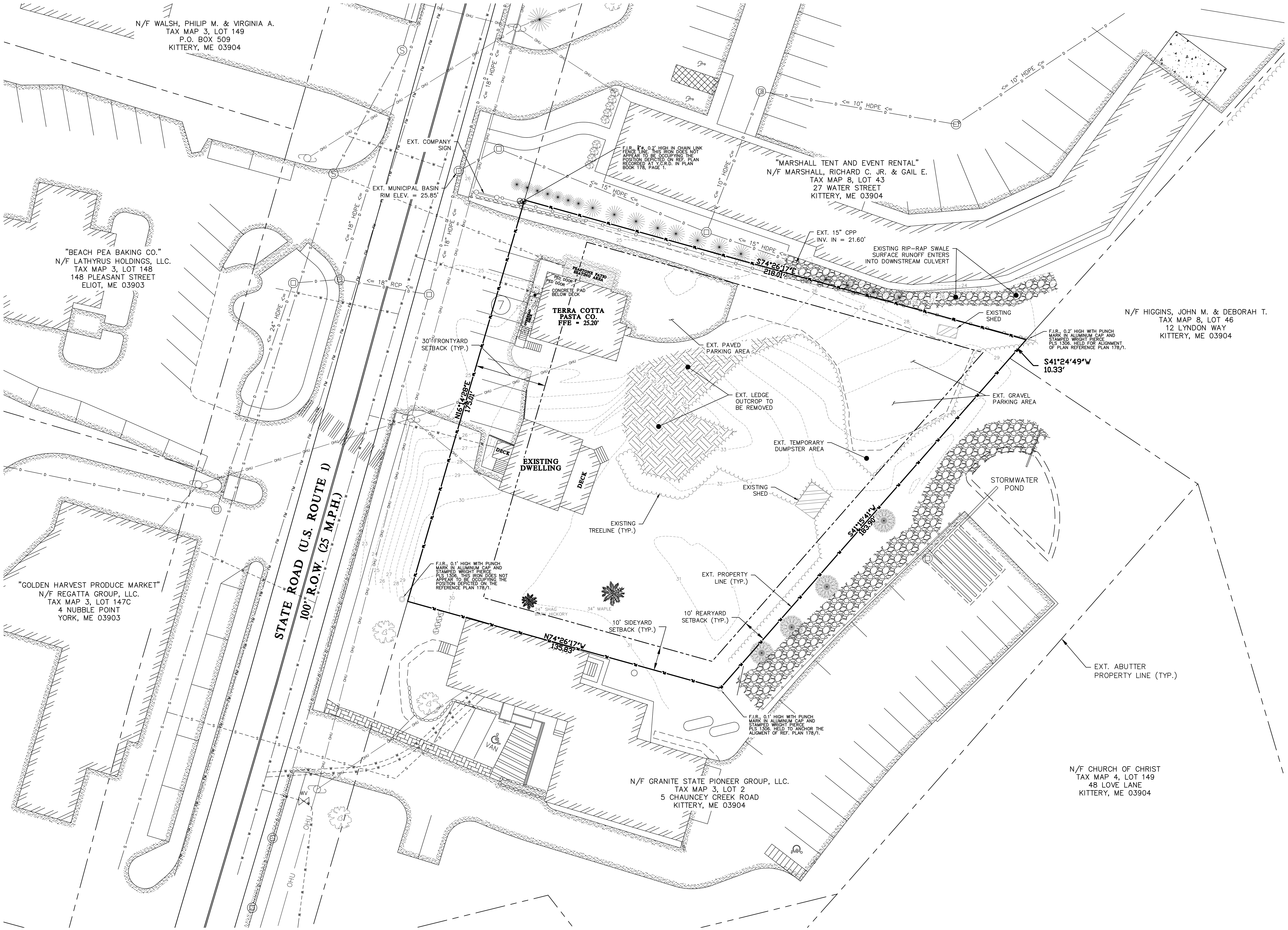
OVERALL SITE PLAN
TERRA COTTA EXPANSION
STATE ROAD, KITTERY, MAINE

FOR: TERRA COTTA PASTA COMPANY
C/O KEVIN CAMBRIDGE, 52 STATE ROAD
KITTERY, ME 03904

ATTAR ENGINEERING, INC.
CIVIL ◆ STRUCTURAL ◆ MARINE ◆ SURVEYING
1284 STATE ROAD – ELIOT, MAINE 03903
PHONE: (207)439–6023 FAX: (207)439–2128

SCALE:	APPROVED BY:	DRAWN BY:
1" = 20'		MJS
DATE:		REVISION DATE:
04/22/21		F : 05/02/22
JOB NO: C206–21	FILE: TERRA COTTA BASE.DWG	SHEET: 1

MAP 3, LOT 1



LEGEND

PROPERTY LINE	
SETBACK	
EXT. ABUTTER LINE	
CENTERLINE OF ROAD	
EXT. PAVEMENT	
EXT. GRAVEL	
EXT. BUILDING	
EXT. PARKING	
EXT. GUARDRAIL	
EXT. STOCKADE FENCE	
EXT. STONEWALL	
EXT. SIGN	
EXT. TREELINE	
EXT. MAJOR CONTOUR	XXX
EXT. MINOR CONTOUR	XXX
EXT. CATCH BASIN	
EXT. SEWER MANHOLE	
EXT. POWER POLE	
EXT. STORM LINE	D
EXT. SEWER LINE	S
EXT. OVERHEAD ELEC	OHU
FOUND IRON ROD	

GRAPHIC SCALE
0 20 40 60 80 (FEET)

NO.	DESCRIPTION	DATE
C	PRELIMINARY PLAN REVISIONS	02/10/22
B	PRELIMINARY PLAN REVISIONS	12/02/21
A	PRELIMINARY PLAN SUBMISSION	10/28/21

REVISIONS

STATE OF MAINE — KENNETH A. WOOD No. 5992 — LICENSED PROFESSIONAL ENGINEER

TAX MAP 3, LOT 1

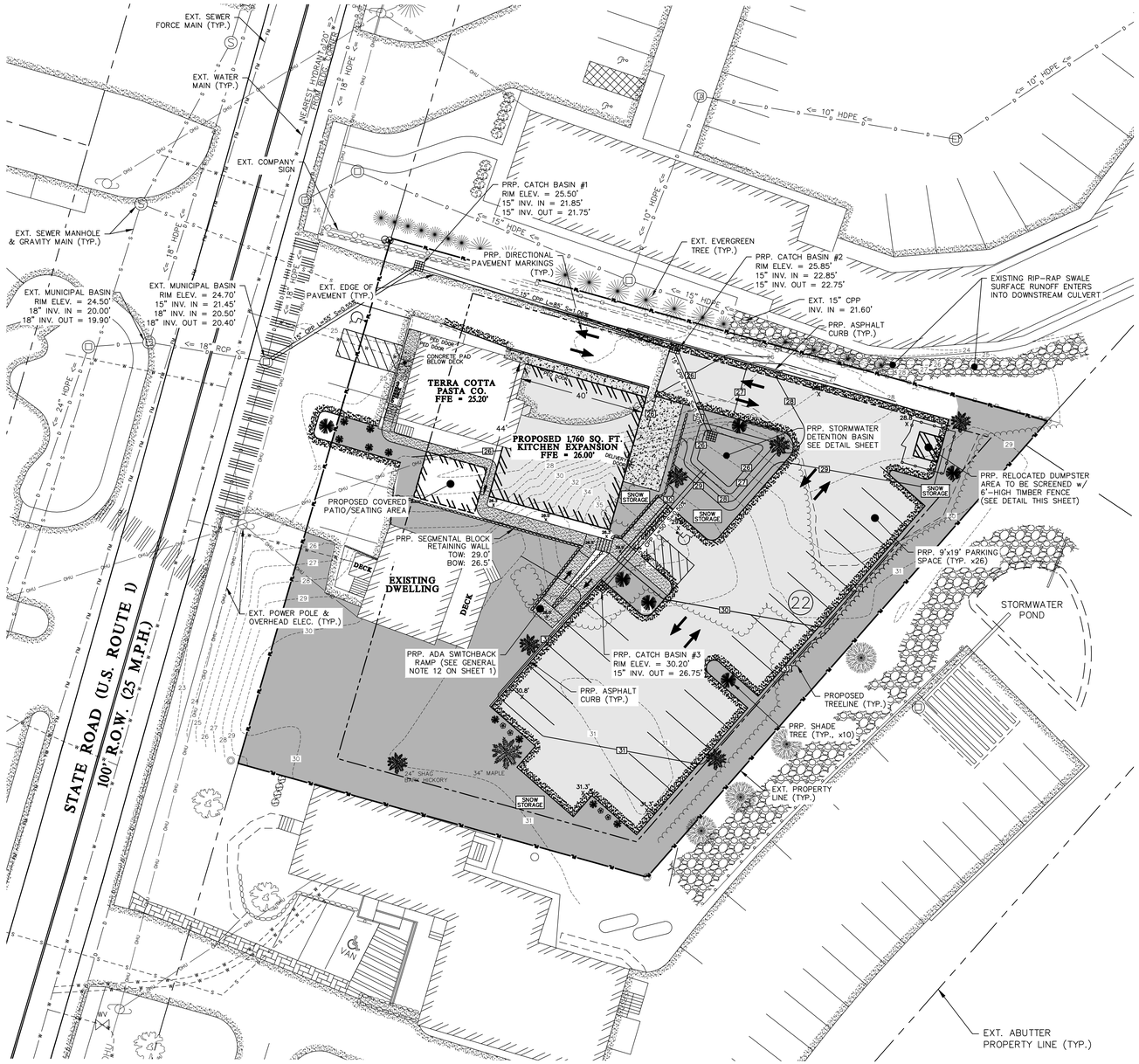
EXISTING CONDITIONS PLAN
TERRA COTTA EXPANSION
STATE ROAD, KITTERY, MAINE

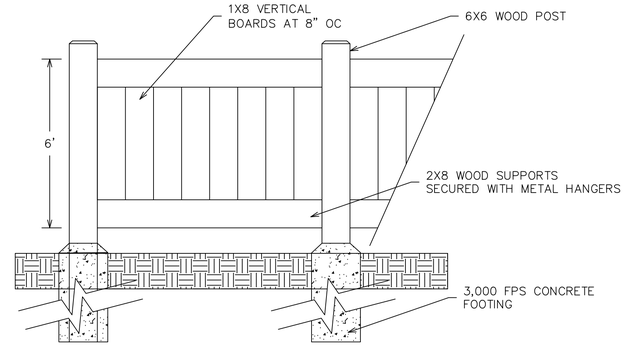
FOR: TERRA COTTA PASTA COMPANY
C/O KEVIN CAMBRIDGE, 52 STATE ROAD
KITTERY, ME 03904

ATTAR ENGINEERING, INC.
CIVIL ◆ STRUCTURAL ◆ MARINE ◆ SURVEYING
1284 STATE ROAD – ELIOT, MAINE 03903
PHONE: (207)439-6023 FAX: (207)439-2128

SCALE: 1" = 20'	APPROVED BY:	DRAWN BY: MJS
DATE: 04/22/21		REVISION DATE: C : 02/10/22
JOB NO: C206-21	FILE: TERRA COTTA BASE.DWG	SHEET: 2

MAP 3, LOT 1





TIMBER FENCE DETAIL
(NTS)

GRADING & UTILITY NOTES

1.) ALL STORM DRAINS SHALL BE ADS N-12 (HDPE) OR APPROVED EQUAL (UNLESS NOTED OTHERWISE). PROPER TRENCHING AND BACKFILLING ARE VITAL TO THE LONG TERM PERFORMANCE AND DURABILITY OF HDPE CULVERT INSTALLATIONS. SEE HDPE CULVERT TRENCH DETAIL.

2.) PROPOSED CATCH BASINS AND STORM DRAIN LINES ARE SUBJECT TO A ROAD CONSTRUCTION PERMIT FOR THE MINOR DISTURBANCE TO THE U.S. ROUTE 1 RIGHT-OF-WAY. SITE STORMWATER RUNOFF SHALL BE DEDICATED THROUGH AN ON-SITE DETENTION BASIN BEFORE EXITING INTO THE MS4 SYSTEM THROUGH THE EXISTING BASIN DEPICTED IN THE FRONTYARD PARKING LOT OF THE CURRENT USE.

3.) ALL PROPOSED CATCH BASINS SHALL BE MAINTAINED IN ACCORDANCE WITH §16.8.8.2 "POST-CONSTRUCTION STORMWATER MANAGEMENT". INSPECTION AND MAINTENANCE OF ALL ON-SITE STORMWATER BMP'S (CATCH BASINS AND DETENTION POND) SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER.

4.) LANDSCAPING CALCULATION (AS PER §16.3.2.9.D(1)(i)):

OVERALL LOT AREA	= 30,959 SQ. FT. (0.71 AC.)
LANDSCAPED AREA PROPOSED	= 11,218 SQ. FT. (0.26 AC.) AREA REPRESENTED BY DARK TRANSPARENT HATCH AS NOTED IN LEGEND ON THIS SHEET
[11,280 / 30,959]	= 36.2% > 15% = OK

5.) SNOW STORAGE LOCATIONS ARE DEPICTED ON THE PLANS. IN AN INSTANCE WHERE THE DEVELOPED LOT REACHES ITS CAPACITY FOR SNOW STORAGE, ALL EXCESS SNOW SHALL BE CARRIED OFF-SITE.

LEGEND

PROPERTY LINE	
SETBACK	
EXT. ABUTTER LINE	
CENTERLINE OF ROAD	
EXT. PAVEMENT	
PRP. PAVEMENT	
EXT. GRAVEL	
EXT. BUILDING	
PRP. BUILDING	
PRP. IMPERVIOUS	
PRP. LANDSCAPING	
EXT. PARKING	
PRP. PARKING	
EXT. GUARDRAIL	
EXT. STOCKADE FENCE	
EXT. STONEWALL	
EXT. SIGN	
EXT. TREELINE	
PRP. TREELINE	
EXT. MAJOR CONTOUR	XXX
EXT. MINOR CONTOUR	XXX
PRP. MAJOR CONTOUR	XXX
PRP. MINOR CONTOUR	XXX
PRP. SPOT GRADE	102.0' x
EXT. CATCH BASIN	
PRP. CATCH BASIN	
EXT. SEWER MANHOLE	
EXT. POWER POLE	
EXT. STORM LINE	D
PRP. STORM LINE	D
EXT. SEWER LINE	S
EXT. OVERHEAD ELEC	OHU

SYM.	BOTANICAL NAME	COMMON NAME	QUAN.	SIZE/UNIT
AR	ACER RUBRUM 'OCTOBER GLORY'	RED MAPLE OCTOBER GLORY	5	2-2.5"C
LL	LARIX LARICINA	AMERICAN LARCH	5	2.5-3"C

SYM.	BOTANICAL NAME	COMMON NAME	QUAN.	SIZE/UNIT
IV	IRIS VERSICOLOR	BLUE FLAG IRIS	4	1'-3' HT
SS	JUNIPERUS COMMUNIS VAR. DEPRESSA	COMMON JUNIPER	8	1'-3' HT

GRID

GRAPHIC SCALE
0 20 40 60 80 (FEET)

TAX MAP 3, LOT 1

NO.	DESCRIPTION	DATE
	REVISIONS	
F	FINAL PLAN REVISIONS	05/02/22
E	PEER REVIEW REVISIONS	04/22/22
D	PEER REVIEW REVISIONS	04/08/22
C	PRELIMINARY PLAN REVISIONS	02/10/22
B	PRELIMINARY PLAN REVISIONS	12/02/21
A	PRELIMINARY PLAN SUBMISSION	10/28/21

STATE OF MAINE
KENNETH A. WOOD
No. 5992
LICENSED PROFESSIONAL ENGINEER

GRADING & UTILITY PLAN
TERRA COTTA EXPANSION
STATE ROAD, KITTERY, MAINE

FOR: TERRA COTTA PASTA COMPANY
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SCALE:	APPROVED BY:	DRAWN BY:
1" = 20'		MJS
DATE:		REVISION DATE:
04/22/21		F : 05/02/22
JOB NO: C206-21	FILE: TERRA COTTA BASE.DWG	SHEET: 3

EROSION & SEDIMENTATION CONTROL NOTES

1. PRIOR TO ANY SNOW EVENT, SILTATION FENCE OR HAY BALE BARRIERS WILL BE INSTALLED DOWNSLOPE OF ALL STRIPPING OR CONSTRUCTION OPERATIONS. A DOUBLE SILT FENCE BARRIER SHALL BE INSTALLED DOWNSLOPE OF ANY SOIL MATERIAL STOCKPILES. SILT FENCES SHALL BE INSPECTED AFTER EACH RAIN EVENT AND DAILY DURING PROLONGED RAIN. SILT AND SOIL PARTICLES ACCUMULATING BEHIND THE FENCE SHALL BE REMOVED AFTER EACH SIGNIFICANT RAIN EVENT AND IN NO INSTANCE SHOULD ACCUMULATION EXCEED 1/2 THE HEIGHT OF THE FENCE. TORN OR DAMAGED AREAS SHALL BE REPAIRED.
2. TEMPORARY AND PERMANENT VEGETATION AND MULCHING IS AN INTEGRAL COMPONENT OF THE EROSION AND SEDIMENTATION CONTROL PLAN. ALL AREAS SHALL BE INSPECTED AND MAINTAINED UNTIL THE DESIRED VEGETATIVE COVER IS ESTABLISHED. THESE CONTROL MEASURES ARE ESSENTIAL TO EROSION PREVENTION AND ALSO REDUCE COSTLY REWORK OF GRADED AND SHAPED AREAS.
3. SEEDING, FERTILIZER AND LIME RATES AND TIME OF APPLICATION WILL BE DEPENDENT ON SOIL REQUIREMENTS. TEMPORARY VEGETATION SHALL BE MAINTAINED IN THESE AREAS UNTIL PERMANENT SEEDING IS APPLIED. ADDITIONALLY, EROSION AND SEDIMENTATION MEASURES SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED.
4. ALL LAWN AREA, OUTER POND SIDE SLOPES AND SWALES SHALL BE PERMANENTLY SEEDED WITH THE FOLLOWING MIXTURE: 20 LB/ACRE CREEPING RED FESCUE, 2 LB/ACRE REDTOP AND 20 LB/ACRE TALL FESCUE FOR A TOTAL OF 42 LB/ACRE. FERTILIZER AND LIME RATES SHALL BE DEPENDENT ON SOIL TESTING. IN THE ABSENCE OF SOIL TESTS, FERTILIZE WITH 10-20-20 (N-P205-K201) AT 800 LB/ACRE AND LIME AT 3 TONS/ACRE. MULCH WITH HAY AT 70-90 LB/1000 S.F. 4" OF LOAM SHALL BE APPLIED PRIOR TO SEEDING.
5. POND BOTTOMS AND INNER POND SIDESLOPES SHALL BE PERMANENTLY SEEDED WITH THE FOLLOWING MIXTURE: 20 LB/ACRE CREEPING RED FESCUE, 8 LB/ACRE BIRDSFOOT TREFOIL AND 20 LB/ACRE TALL FESCUE FOR A TOTAL OF 48 LB/ACRE. SEE THE ABOVE NOTE FOR FERTILIZER, LIME AND MULCHING RATES.
6. TEMPORARY VEGETATION OF ALL DISTURBED AREAS, MATERIAL STOCKPILES AND OTHER SUCH AREAS SHALL BE ESTABLISHED BY SEEDING WITH EITHER WINTER RYE AT A RATE OF 112 LB/ACRE OR ANNUAL RYEGRASS AT A RATE OF 40 LB/ACRE. WINTER RYE SHALL BE USED FOR FALL SEEDING AND ANNUAL RYEGRASS FOR SHORT DURATION SEEDING. SEEDING SHALL BE ACCOMPLISHED BEFORE OCTOBER 1. TEMPORARY STABILIZATION WITH MULCH OF DISTURBED AREAS SHALL TAKE PLACE WITHIN 7 DAYS OF THE CESSATION OF CONSTRUCTION ACTIVITIES IN AN AREA THAT WILL NOT BE WORKED FOR MORE THAN 7 DAYS. AREAS WITHIN 75 FEET OF A WETLAND OR WATERBODY SHALL BE TEMPORARILY STABILIZED WITH MULCH WITHIN 48 HOURS OF THE INITIAL DISTURBANCE OR PRIOR TO ANY STORM EVENT, WHICHEVER COMES FIRST.
7. TEMPORARY SEEDING OF DISTURBED AREAS SHALL BE ACCOMPLISHED BEFORE OCTOBER 1. PERMANENT SEEDING SHALL BE ACCOMPLISHED BEFORE SEPTEMBER 15.
8. ALL SEEDED AREAS SHALL BE MULCHED WITH HAY AT A RATE OF 2 BALES (70-90 LB) PER 1000 S.F. OF SEEDED AREA.
9. ALL DISTURBED AREAS ON THE SITE SHALL BE PERMANENTLY STABILIZED WITHIN 7 DAYS OF FINAL GRADING OR TEMPORARILY STABILIZED PER E&S NOTE 6. PERMANENT STABILIZATION MEANS 90% COVER WITH MATURE, HEALTHY PLANTS FOR PLANTED AREAS AND FOR SODDED AREAS, COMPLETE BINDING OF SOD ROOTS INTO THE UNDERLYING SOIL WITH NO SLUMPING OF THE SOD OR DIE-OFF.
10. A STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT ALL ACCESSES TO PUBLIC ROADS (SEE PLAN). TEMPORARY CULVERTS SHALL BE PROVIDED AS REQUIRED.
11. SLOPES BETWEEN 2:1 AND 3:1 (INCLUDING 3:1) SHALL BE TREATED WITH POLYJUTE OPEN WEAVE GEOTEXTILE (OR EQUIVALENT) AFTER SEEDING. JUTE MATS SHALL BE ANCHORED PER MANUFACTURER'S SPECIFICATIONS. SLOPES BETWEEN 2:1 AND 1.5:1 (INCLUDING 2:1) SHALL BE ANCHORED WITH RIPRAP. SLOPES ARE PROHIBITED FROM BEING STEEPER THAN 1.5:1.
12. EXCESSIVE DUST CAUSED BY CONSTRUCTION OPERATIONS SHALL BE CONTROLLED BY APPLICATION OF WATER OR CALCIUM CHLORIDE.
13. THE CONTRACTOR MAY OPT TO USE EROSION CONTROL MIX BERM AS A SEDIMENT BARRIER IN LIEU OF SILTATION FENCE OR HAY BALE BARRIERS WITH APPROVAL FROM THE INSPECTING ENGINEER.
14. SEDIMENT BARRIERS SHALL BE DOUBLED WITH 75' OF WETLANDS OR OTHER PROTECTED NATURAL RESOURCES.
15. TEMPORARY E&S CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS OF PERMANENT STABILIZATION. ACCUMULATED SEDIMENTS SHALL BE REMOVED AND THE AREA STABILIZED.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE HOUSEKEEPING PRACTICES DURING THE CONSTRUCTION OF THE PROJECT. THESE STANDARDS CAN BE FOUND IN THE FOLLOWING DOCUMENT: MDEP CHAPTER 500 (STORMWATER MANAGEMENT), APPENDIX C. HOUSEKEEPING. HOUSEKEEPING PRACTICES INCLUDE, BUT ARE NOT LIMITED TO, SPILL PREVENTION, GROUNDWATER PROTECTION, FUGITIVE SEDIMENT AND DUST, DEBRIS AND OTHER MATERIALS, EXCAVATION DEWATERING, AUTHORIZED NON-STORMWATER DISCHARGES AND UNAUTHORIZED NON-STORMWATER DISCHARGES. ANY SPILL OR RELEASE OF HAZARDOUS SUBSTANCES MUST BE REPORTED TO THE MDEP; FOR OIL SPILLS, CALL 1-800-482-0777; FOR SPILLS OF TOXIC OR HAZARDOUS MATERIAL, CALL 1-800-452-4664.
17. WHENEVER PRACTICABLE, NO DISTURBANCE ACTIVITIES SHOULD TAKE PLACE WITHIN 50 FEET OF ANY PROTECTED NATURAL RESOURCE. IF DISTURBANCE ACTIVITIES TAKE PLACE BETWEEN 30 FEET AND 50 FEET OF ANY PROTECTED NATURAL RESOURCE, AND STORMWATER DISCHARGES THROUGH THE DISTURBED AREAS TOWARD THE PROTECTED NATURAL RESOURCE, PERIMETER EROSION CONTROLS MUST BE DOUBLED. IF DISTURBANCE ACTIVITIES TAKE PLACE LESS THAN 30 FEET FROM ANY PROTECTED NATURAL RESOURCE, AND STORMWATER DISCHARGES THROUGH THE DISTURBED AREAS TOWARD THE PROTECTED NATURAL RESOURCE, PERIMETER EROSION CONTROLS MUST BE DOUBLED AND DISTURBED AREAS MUST BE TEMPORARILY OR PERMANENTLY STABILIZED WITHIN 7 DAYS.
18. ALL SEDIMENT BARRIERS AND EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION.
19. SEDIMENT BARRIERS SHALL BE INSTALLED DOWN-GRADIENT OF STOCKPILES, AND STORMWATER SHALL BE PREVENTED FROM RUNNING ONTO STOCKPILES.
20. THE PROPOSED STORMWATER MANAGEMENT AREAS INTENDED FOR USE AS PERMANENT, POST-CONSTRUCTION BMP'S SHALL BE USED TO TEMPORARILY MANAGE FLOWS DURING CONSTRUCTION. THESE BMP'S SHALL BE MAINTAINED DURING THEIR TEMPORARY USE BY INSTALLING THE APPROPRIATE MEASURES DURING CONSTRUCTION, INCLUDING UNDERDRAINS, SOIL FILTER MEDIA, ETC. SEDIMENT REMOVAL AND SLOPE STABILIZATION SHALL TAKE PLACE AS NECESSARY FOR TEMPORARY CONSTRUCTION MANAGEMENT.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE HOUSEKEEPING PRACTICES DURING THE CONSTRUCTION OF THE PROJECT. THESE STANDARDS CAN BE FOUND IN THE FOLLOWING DOCUMENT: MDEP CHAPTER 500 (STORMWATER MANAGEMENT), APPENDIX C. HOUSEKEEPING. HOUSEKEEPING PRACTICES INCLUDE, BUT ARE NOT LIMITED TO, SPILL PREVENTION, GROUNDWATER PROTECTION, FUGITIVE SEDIMENT AND DUST, DEBRIS AND OTHER MATERIALS, EXCAVATION DEWATERING, AUTHORIZED NON-STORMWATER DISCHARGES AND UNAUTHORIZED NON-STORMWATER DISCHARGES(DETAILED BELOW).

ROAD & DRIVEWAY CONSTRUCTION NOTES

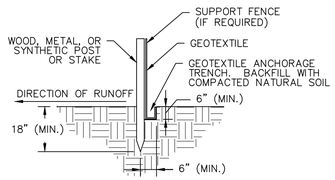
1. ROADS & DRIVEWAYS TO BE CONSTRUCTED IN ACCORDANCE WITH THE APPROPRIATE CROSS SECTION DETAIL. GRAVEL FILL TO BE COMPACTED TO 95% MODIFIED PROCTOR IN ACCORDANCE WITH ASTM D 1557. LIFT THICKNESSES TO BE A MAXIMUM OF 6".
2. ALL STUMPS, ORGANIC MATERIAL, ROCKS AND BOULDERS TO BE REMOVED TO A MINIMUM DEPTH OF 24" BELOW SUBBASE.
3. ALL STUMPS, LEDGE AND LARGE BOULDERS TO BE REMOVED FROM THE CONSTRUCTION AREA. THE CONSTRUCTION AREA SHALL BE CLEARED AND ROUGH GRADED.
4. ALL CULVERTS TO BE ADS N-12 (HDPE) OR APPROVED EQUAL. CULVERT INLETS AND OUTLETS TO BE PROTECTED IN ACCORDANCE WITH THE CULVERT INLET/OUTLET PROTECTION DETAIL.
5. THE CONTRACTOR MUST CONTACT DIG SAFE AND ALL LOCAL UTILITIES PRIOR TO THE START OF CONSTRUCTION TO VERIFY THE LOCATION OF EXISTING SUBSURFACE UTILITIES AND CONDITIONS. LOCATING AND PROTECTING ANY UNDERGROUND OR ABOVE GROUND UTILITY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

E&S INSPECTION/MAINTENANCE DURING CONSTRUCTION

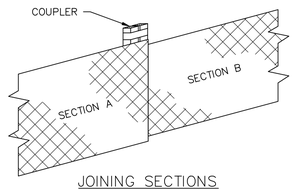
A. INSPECTION AND CORRECTIVE ACTION. INSPECT DISTURBED AND IMPERVIOUS AREAS, EROSION CONTROL MEASURES, MATERIALS STORAGE AREAS THAT ARE EXPOSED TO PRECIPITATION, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE. INSPECT THESE AREAS AT LEAST ONCE A WEEK, PRIOR TO COMPLETING PERMANENT STABILIZATION MEASURES, AS WELL AS BEFORE AND WITHIN 24 HOURS AFTER A STORM EVENT WHICH PRODUCES 0.5 INCHES OR MORE WITHIN SAID 24 HOUR PERIOD. A TOWN-APPOINTED ENGINEER WITH KNOWLEDGE OF EROSION AND STORMWATER CONTROL, INCLUDING THE STANDARDS AND CONDITIONS IN THE PERMIT, SHALL CONDUCT THE INSPECTIONS AND SHALL ALSO ENSURE THAT THE RECOMMENDED MAINTENANCE IS PERFORMED.

B. MAINTENANCE. IF BEST MANAGEMENT PRACTICES (BMPS) NEED TO BE REPAIRED, THE REPAIR WORK SHOULD BE INITIATED UPON DISCOVERY OF THE PROBLEM BUT NO LATER THAN THE END OF THE NEXT WORKDAY. IF ADDITIONAL BMPS OR SIGNIFICANT REPAIR OF BMPS ARE NECESSARY, IMPLEMENTATION MUST BE COMPLETED WITHIN 7 CALENDAR DAYS AND PRIOR TO ANY STORM EVENT WHICH PRODUCES 0.5 INCHES OR MORE WITHIN A 24 HOUR PERIOD. ALL MEASURES MUST BE MAINTAINED IN EFFECTIVE OPERATING CONDITION UNTIL AREAS ARE PERMANENTLY STABILIZED.

C. DOCUMENTATION. KEEP A LOG (REPORT) 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.

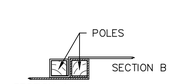


TOE-IN METHOD



JOINING SECTIONS

THE COUPLER CAN BE ANY ACCEPTABLE DEVICE USED TO TIE THE POLES TOGETHER

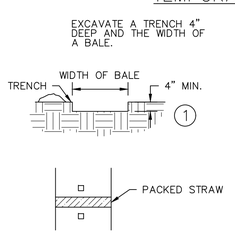


TOP VIEW (CONNECTION)

NOTES:

1. DEPENDING UPON THE CONFIGURATION, ATTACH GEOTEXTILE TO WIRE MESH WITH HOG RINGS, TO STEEL POSTS WITH TIE WIRES, AND TO WOOD POSTS WITH STAPLES.
2. POSTS MAY BE WIRED TOGETHER WHEN JOINING SECTIONS.

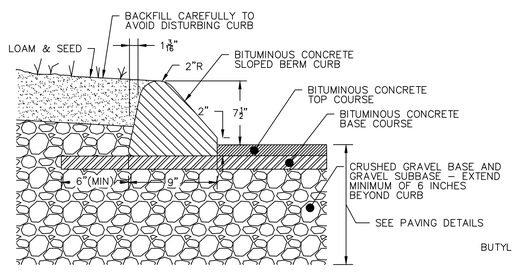
TEMPORARY SILT FENCE - NTS



NOTES:

1. PLACE BALES IN A SINGLE ROW, LENGTHWISE ON THE CONTOUR.
2. PLACE BALES 10' AWAY FROM THE TOE OF SLOPE.
3. IN SLOPING AREAS WHERE SURFACE FLOW FOLLOWS THE BALE LINE, INSTALL PERPENDICULAR BALE CHECKS AT APPROPRIATE INTERVALS (100' MAX.)

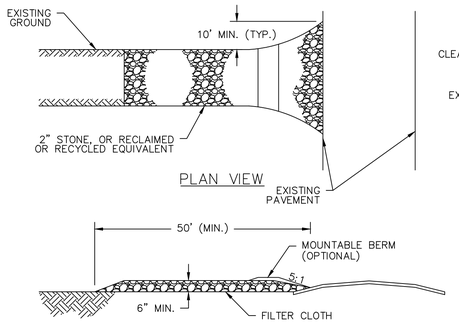
HAY BALE BARRIER - NTS



BITUMINOUS CONCRETE CURB

POST-CONSTRUCTION HOUSEKEEPING PUNCHLIST

1. ALL DISTRUBED AREAS SHALL BE PERMANENTLY STABILIZED, AND PLANTINGS SHALL BE ESTABLISHED (GRASS SEEDS HAVE GERMINATED WITHIN 90% VEGETATIVE COVER).
2. ALL TRASH, SEDIMENTS, DEBRIS, OR ANY SOLID WASTE SHALL BE REMOVED FROM STORMWATER CHANNELS, CATCH BASINS, DETENTION STRUCTURES, DISCHARGE POINTS, AND LEVEL SPREADERS.
3. ALL EROSION AND SEDIMENTATION DEVICES SHALL BE REMOVED (SILTATION FENCES AND POSTS, DIVERSIONS AND SEDIMENT STRUCTURES, ETC.)
4. ALL DELIVERABLES (CERTIFICATIONS, SURVEY INFORMATION, AS-BUILT PLANS, REPORTS, NOTICES OF TERMINATION, ETC.) IN ACCORDANCE WITH ALL PERMIT REQUIREMENTS SHALL BE SUBMITTED TO THE TOWN, THE MAINE DEP, HOMEOWNER'S ASSOCIATION, OWNER, AND/OR ALL APPROPRIATE ENTITIES.
5. THE PROPOSED REAR PARKING LOT SHALL BE SUBJECT TO PARKING LOT SWEEPING AS A BMP ON THE SAME OPERATION AND MAINTENANCE SCHEDULE AS OTHER BEST MANAGEMENT PRACTICES OF THIS PROJECT (CATCH BASIN CLEANING, INSPECTION AND MAINTENANCE OF THE DETENTION BASIN). ROUTINE SWEEPING WILL IMPROVE THE EFFECTIVENESS AND LIFESPAN OF THE ADJACENT DETENTION BASIN RECEIVING STORMWATER RUNOFF FROM THE PARKING LOT.

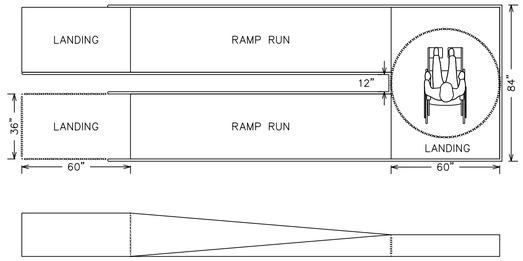


PROFILE

NOTES:

1. GEOTEXTILE: PLACE FILTER CLOTH OVER ENTIRE AREA TO BE COVERED WITH AGGREGATE. FILTER CLOTH WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENTIAL LOT.
2. PIPING OF SURFACE WATER UNDER ENTRANCE SHALL BE PROVIDED AS REQUIRED. IF PIPING IS IMOSSIBLE, A MOUNTABLE BERM WITH A 5:1 SLOPE WILL BE PERMITTED.

STABILIZED CONSTRUCTION ENTRANCE



ADA SWITCHBACK RAMP DETAIL

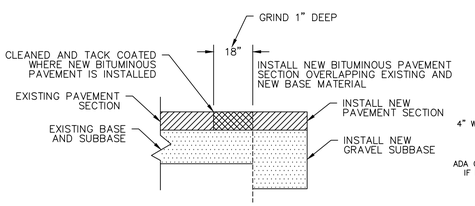
(NTS)

NOTE: INNER HANDRAIL OF SWITCHBACK RAMP MUST REMAIN CONTINUOUS

TYPICAL CATCH BASIN DETAIL

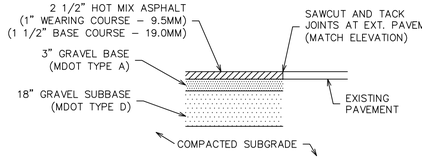
(NTS)

STUCTURE SHALL BE INSPECTED QUARTERLY WITH SEDIMENTS/FLOATABLES REMOVED AND LEGALLY DISPOSED OF AS NEEDED (MINIMUM ONCE PER YEAR).



PAVEMENT JOINT CROSS SECTION

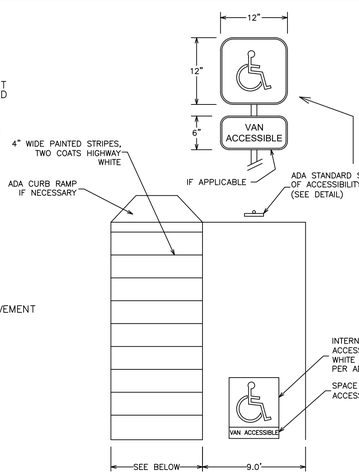
NEW PAVEMENT ABUTTING EXISTING PAVEMENT



ASPHALT PARKING (DRIVEWAY) CROSS SECTION

(NTS)

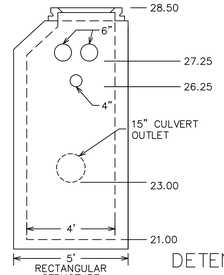
GRAVEL FILL TO BE COMPACTED TO 95% MODIFIED PROCTOR



ACCESSIBLE PARKING SPACE DETAIL

AISLE SHALL BE 5' WIDE FOR AUTOMOBILES OR 8' WIDE FOR VANS

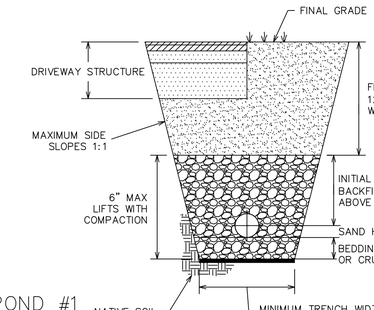
(NTS)



DETENTION POND #1 OUTLET STRUCTURE

(NTS)

ORIFICES TO BE PROTECTED WITH TRASH SCREENS (2" MAX. OPENINGS) FASTENED TO OUTLET STRUCTURES WITH SS PARTS.

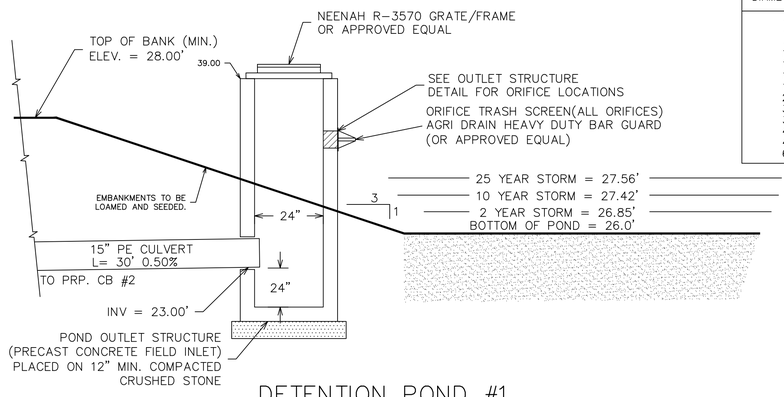


HDPE CULVERT TRENCH DETAIL

(NTS)

TRENCH TO BE SUPPORTED BY SLOPING BACK AT 2:1 OR OTHER ACCEPTABLE METHOD.

NOMINAL DIAMETER (IN)	MIN. TRENCH WIDTH (IN)
4	21
6	23
8	25
10	28
12	31
15	34
18	39
24	48
30	66
36	78
42	83
48	89
60	102



DETENTION POND #1

(NTS)

NOTES: -PIPE JOINTS TO BE WATER TIGHT

TAX MAP 3, LOT 1

NO.	DESCRIPTION	DATE
	REVISIONS	
F	FINAL PLAN REVISIONS	05/02/22
E	PEER REVIEW REVISIONS	04/22/22
D	PEER REVIEW REVISIONS	04/08/22
C	PRELIMINARY PLAN REVISIONS	02/10/22
B	PRELIMINARY PLAN REVISIONS	12/02/21
A	PRELIMINARY PLAN SUBMISSION	10/28/21

STATE OF MAINE
KENNETH A. WOOD
No. 5992
LICENSED PROFESSIONAL ENGINEER

SITE DETAILS
TERRA COTTA EXPANSION
STATE ROAD, KITTERY, MAINE

FOR: TERRA COTTA PASTA COMPANY
C/O KEVIN CAMBRIDGE, 52 STATE ROAD
KITTERY, ME 03904

ATTAR ENGINEERING, INC.
CIVIL ◆ STRUCTURAL ◆ MARINE ◆ SURVEYING
1284 STATE ROAD - ELIOT, MAINE 03903
PHONE: (207)439-6023 FAX: (207)439-2128

SCALE:	APPROVED BY:	DRAWN BY:
AS NOTED		MJS
DATE:		REVISION DATE:
04/22/21		F : 05/02/22
JOB NO: C206-21	FILE: TERRA COTTA BASE.DWG	SHEET: 4

Luminaire Schedule				
Symbol	Qty	Label	Arrangement	Description
	2	T3	Single	GPC-SA1A-740-U-SL3-HSS / SSS4A15SFN1 (15' AFG)
	1	T4	Single	GPC-SA1A-740-U-SL4-HSS / SSS4A15SFN1 (15' AFG)
	2	W1	Single	MERU-LED-AC-DB
	3	WL	Single	KICHLER 49899BKLED
	1	WP	Single	AXCS4A

PHOTOMETRIC PLAN NOTES

NOTE: ALL THREE (3) OF THE UNITS DESIGNATED 'WL' ON THE PHOTOMETRIC PLAN ARE EXISTING WALL PACK LIGHTS THAT SERVICE THE PEDESTRIAN ENTRANCES AND THE LOADING BAY IN THE REAR OF THE EXISTING BUILDING. ALL OTHER UNITS ARE PROPOSED, WITH 'W' SERIES LIGHTING BEING WALL-MOUNTED AND 'T' SERIES LIGHTING BEING POLE-MOUNTED.

NOTE: ALL PROPOSED LIGHTING SHALL HAVE DARK SKY APPROVED OPTICS AS DEPICTED ON THE INCLUDED AND ATTACHED CUT SHEET SPECIFICATIONS.

GRID

GRAPHIC SCALE
0 20 40 60 80 (FEET)

Lumark — AXCS / AXCL Axcent

Product Specifications

Construction
- Die-cast aluminum housing
- External back fin design extracts heat from the surface to thermally optimize design for longer luminaire life

Optics
- Dark Sky Approved (Fixed mount, Full cutoff, and 3000K CCT only)
- Silicone-sealed optical LED chamber
- Acrylic refractive or full cutoff lens options for Type IV distributions

Electrical
- Standard universal voltage (120-277V, 50/60Hz)
- Driver incorporates 6kV surge protection
- -40°C minimum operating temperature
- 40°C maximum operating temperature
- <20% total harmonic distortion
- 0-10V dimming driver is standard with leads external to the fixture

Mounting
- Steel wedge mounting plate fits directly to 4" standard j-box or directly to wall with the "Hook-N-Lock" mechanism
- Stainless steel set screws
- Lumen Select Back Box accessory offers four 1/2" NPT conduit entry wire ways. Resistor Pack combinations allow field-dimming of 75% or 50% when connected to luminaire dimming leads
- Not suitable for indoor use when installed in inverted/uplight orientation

Emergency Egress
- Optional integral cold weather battery emergency egress includes emergency operation test switch, an AC-ON indicator light and a premium, maintenance-free battery pack
- The separate emergency lighting LEDs are wired to provide redundant emergency lighting. Listed to UL Standard 924, Emergency Lighting

Finish
- Five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness

Shipping Data
- Small fixture=5 lbs. [2.36 kgs.]
- Small with sensor or CBP=10 lbs. [4.40 kgs.]
- Large fixture=12 lbs. [5.45 kgs.]
- Large with sensor or CBP=17 lbs. [7.73 kgs.]
- Large with sensor & CBP=21 lbs. [9.54 kgs.]

Energy and Performance Data

Power and Lumens (Axcent Small)

Light Engine		AXCS1A	AXCS2A	AXCS3A	AXCS4A	AXCS5A
Power (Watts)		14	21	27	44	52
Input Current @ 120V (A)		0.12	0.18	0.23	0.37	0.43
Input Current @ 240V (A)		0.06	0.09	0.11	0.18	0.22
Input Current @ 277V (A)		0.05	0.08	0.10	0.16	0.19
Input Current @ 347V (A)		0.04	0.06	0.08	0.13	0.15
Input Current @ 480V (A)		0.03	0.04	0.06	0.09	0.11
Configuration						
Full Cutoff	4000K/5000K Lumens	1,806	2,561	3,537	5,520	6,300
	3000K Lumens	1,526	2,164	2,989	4,665	5,324
	BUG Rating	B1-U0-G0	B1-U0-G0	B1-U0-G0	B2-U0-G1	B2-U0-G1
Refractive Lens	4000K/5000K Lumens	1,915	2,716	3,704	5,858	6,699
	3000K Lumens	1,618	2,295	3,130	4,950	5,661
	BUG Rating	B1-U3-G2	B1-U3-G2	B1-U3-G2	B1-U4-G3	B1-U4-G3

Power and Lumens (Axcent Large)

Light Engine		AXCL6A	AXCL8A	AXCL10A	AXCL12A
Power (Watts)		56	72	102	123
Input Current @ 120V (A)		0.44	0.60	0.83	1.01
Input Current @ 240V (A)		0.22	0.31	0.41	0.51
Input Current @ 277V (A)		0.20	0.27	0.36	0.45
Input Current @ 347V (A)		0.17	0.22	0.30	0.37
Input Current @ 480V (A)		0.13	0.16	0.22	0.27
Configuration					
Full Cutoff	4000K Lumens	7,594	9,696	13,283	16,823
	5000K Rating	7,465	9,531	13,058	16,538
	3000K Lumens	6,619	8,450	11,577	14,662
	BUG Rating	B1-U0-G1	B1-U0-G1	B3-U0-G2	B3-U0-G2
Refractive Lens	4000K Lumens	7,809	9,970	13,641	17,346
	5000K Rating	7,689	9,817	13,450	17,034
	3000K Lumens	6,817	8,704	11,924	15,102
	BUG Rating	B1-U4-G4	B2-U5-G5	B2-U5-G5	B2-U5-G5

COOPER Lighting Solutions

Kent 14" LED Wall Light Black — 49899BKLED

SPECIFICATIONS

Certifications/Qualifications	
Title 24 Compliant	Yes www.kichler.com/warranty
Dimensions	
Base Backplate	14.50 X 7.75
Extension	8.50"
Weight	4.00 LBS
Height from center of Wall opening (Spec Sheet)	2.25"
Height	14.50"
Width	7.75"
Electrical	
Input Voltage	Single(120)V
Light Source	
Delivered Lumens	375
Dimmable	Yes
Expected Life Span (Hours)	40000
Lamp included	Integrated
Light Source	LED
Max or Nominal Watt	8W
# of Bulbs/LED Modules	1
Mounting/Installation	
Interior/Exterior	Exterior
Location Rating	Wet
Mounting Style	Wall Mount
Mounting Weight	3.20 LBS
Photometrics	
Color Rendering Index	90
Kelvin Temperature	3000K

FIXTURE ATTRIBUTES

Housing	
Diffuser Description	White Acrylic.
Primary Material	ALUMINUM
Product/Ordering Information	
SKU	49899BKLED
Finish	Black
Style	Transitional
UPC	783927540353
Finish Options	
Black	

ALSO IN THIS FAMILY

49898BKLED

LEGEND

PROPERTY LINE	PL PL
SETBACK	
EXT. ABUTTER LINE	
CENTERLINE OF ROAD	
EXT. PAVEMENT	
PRP. PAVEMENT	
EXT. GRAVEL	
EXT. BUILDING	
PRP. BUILDING	
PRP. IMPERVIOUS	
PRP. LANDSCAPING	
EXT. PARKING	
PRP. PARKING	
EXT. GUARDRAIL	
EXT. STOCKADE FENCE	
EXT. STONEWALL	
EXT. SIGN	
EXT. TREELINE	
PRP. TREELINE	
EXT. MAJOR CONTOUR	XXX
EXT. MINOR CONTOUR	XXX
PRP. MAJOR CONTOUR	XXX
PRP. MINOR CONTOUR	XXX
PRP. SPOT GRADE	102.0' X
EXT. CATCH BASIN	
PRP. CATCH BASIN	
EXT. SEWER MANHOLE	S
EXT. POWER POLE	
EXT. STORM LINE	D
PRP. STORM LINE	D
EXT. SEWER LINE	S

TAX MAP 3, LOT 1

NO.	DESCRIPTION	DATE
B	FINAL PLAN REVISIONS	05/02/22
A	PRELIMINARY PLAN REVISIONS	02/10/22
	REVISIONS	

STATE OF MAINE — KENNETH A. WOOD No. 5992 — LICENSED PROFESSIONAL ENGINEER

PHOTOMETRIC PLAN
TERRA COTTA EXPANSION
STATE ROAD, KITTERY, MAINE

FOR: TERRA COTTA PASTA COMPANY
C/O KEVIN CAMBRIDGE, 52 STATE ROAD
KITTERY, ME 03904

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PHONE: (207)439-6023 FAX: (207)439-2128

SCALE:	APPROVED BY:	DRAWN BY:
1" = 20'		MJS
DATE:		REVISION DATE:
12/02/21		B : 05/02/22
JOB NO: C206-21	FILE: TERRA COTTA BASE.DWG	SHEET: 5

MAP 3, LOT 1

EROSION & SEDIMENTATION CONTROL NOTES

1. PRIOR TO ANY SNOW EVENT, SILTATION FENCE OR HAY BALE BARRIERS WILL BE INSTALLED DOWNSLOPE OF ALL STRIPPING OR CONSTRUCTION OPERATIONS. A DOUBLE SILT FENCE BARRIER SHALL BE INSTALLED DOWNSLOPE OF ANY SOIL MATERIAL STOCKPILES. SILT FENCES SHALL BE INSPECTED AFTER EACH RAIN EVENT AND DAILY DURING PROLONGED RAIN. SILT AND SOIL PARTICLES ACCUMULATING BEHIND THE FENCE SHALL BE REMOVED AFTER EACH SIGNIFICANT RAIN EVENT AND IN NO INSTANCE SHOULD ACCUMULATION EXCEED 1/2 THE HEIGHT OF THE FENCE. TORN OR DAMAGED AREAS SHALL BE REPAIRED.
2. TEMPORARY AND PERMANENT VEGETATION AND MULCHING IS AN INTEGRAL COMPONENT OF THE EROSION AND SEDIMENTATION CONTROL PLAN. ALL AREAS SHALL BE INSPECTED AND MAINTAINED UNTIL THE DESIRED VEGETATIVE COVER IS ESTABLISHED. THESE CONTROL MEASURES ARE ESSENTIAL TO EROSION PREVENTION AND ALSO REDUCE COSTLY REWORK OF GRADED AND SHAPED AREAS.
3. SEEDING, FERTILIZER AND LIME RATES AND TIME OF APPLICATION WILL BE DEPENDENT ON SOIL REQUIREMENTS. TEMPORARY VEGETATION SHALL BE MAINTAINED IN THESE AREAS UNTIL PERMANENT SEEDING IS APPLIED. ADDITIONALLY, EROSION AND SEDIMENTATION MEASURES SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED.
4. ALL LAWN AREA, OUTER POND SIDE SLOPES AND SWALES SHALL BE PERMANENTLY SEEDED WITH THE FOLLOWING MIXTURE: 20 LB/ACRE CREEPING RED FESCUE, 2 LB/ACRE REDTOP AND 20 LB/ACRE TALL FESCUE FOR A TOTAL OF 42 LB/ACRE. FERTILIZER AND LIME RATES SHALL BE DEPENDENT ON SOIL TESTING. IN THE ABSENCE OF SOIL TESTS, FERTILIZE WITH 10-20-20 (N-P205-K201) AT 800 LB/ACRE AND LIME AT 3 TONS/ACRE. MULCH WITH HAY AT 70-90 LB/1000 S.F. 4" OF LOAM SHALL BE APPLIED PRIOR TO SEEDING.
5. POND BOTTOMS AND INNER POND SIDESLOPES SHALL BE PERMANENTLY SEEDED WITH THE FOLLOWING MIXTURE: 20 LB/ACRE CREEPING RED FESCUE, 8 LB/ACRE BIRDSFOOT TREFOIL AND 20 LB/ACRE TALL FESCUE FOR A TOTAL OF 48 LB/ACRE. SEE THE ABOVE NOTE FOR FERTILIZER, LIME AND MULCHING RATES.
6. TEMPORARY VEGETATION OF ALL DISTURBED AREAS, MATERIAL STOCKPILES AND OTHER SUCH AREAS SHALL BE ESTABLISHED BY SEEDING WITH EITHER WINTER RYE AT A RATE OF 112 LB/ACRE OR ANNUAL RYEGRASS AT A RATE OF 40 LB/ACRE. WINTER RYE SHALL BE USED FOR FALL SEEDING AND ANNUAL RYEGRASS FOR SHORT DURATION SEEDING. SEEDING SHALL BE ACCOMPLISHED BEFORE OCTOBER 1. TEMPORARY STABILIZATION WITH MULCH OF DISTURBED AREAS SHALL TAKE PLACE WITHIN 7 DAYS OF THE CESSATION OF CONSTRUCTION ACTIVITIES IN AN AREA THAT WILL NOT BE WORKED FOR MORE THAN 7 DAYS. AREAS WITHIN 75 FEET OF A WETLAND OR WATERBODY SHALL BE TEMPORARILY STABILIZED WITH MULCH WITHIN 48 HOURS OF THE INITIAL DISTURBANCE OR PRIOR TO ANY STORM EVENT, WHICHEVER COMES FIRST.
7. TEMPORARY SEEDING OF DISTURBED AREAS SHALL BE ACCOMPLISHED BEFORE OCTOBER 1. PERMANENT SEEDING SHALL BE ACCOMPLISHED BEFORE SEPTEMBER 15.
8. ALL SEEDED AREAS SHALL BE MULCHED WITH HAY AT A RATE OF 2 BALES (70-90 LB) PER 1000 S.F. OF SEEDED AREA.
9. ALL DISTURBED AREAS ON THE SITE SHALL BE PERMANENTLY STABILIZED WITHIN 7 DAYS OF FINAL GRADING OR TEMPORARILY STABILIZED PER E&S NOTE 6. PERMANENT STABILIZATION MEANS 90% COVER WITH MATURE, HEALTHY PLANTS FOR PLANTED AREAS AND FOR SODDED AREAS, COMPLETE BINDING OF SOD ROOTS INTO THE UNDERLYING SOIL WITH NO SLUMPING OF THE SOD OR DIE-OFF.
10. A STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT ALL ACCESSES TO PUBLIC ROADS (SEE PLAN). TEMPORARY CULVERTS SHALL BE PROVIDED AS REQUIRED.
11. SLOPES BETWEEN 2:1 AND 3:1 (INCLUDING 3:1) SHALL BE TREATED WITH POLYJUTE OPEN WEAVE GEOTEXTILE (OR EQUIVALENT) AFTER SEEDING. JUTE MATS SHALL BE ANCHORED PER MANUFACTURER'S SPECIFICATIONS. SLOPES BETWEEN 2:1 AND 1.5:1 (INCLUDING 2:1) SHALL BE ANCHORED WITH RIPRAP. SLOPES ARE PROHIBITED FROM BEING STEEPER THAN 1.5:1.
12. EXCESSIVE DUST CAUSED BY CONSTRUCTION OPERATIONS SHALL BE CONTROLLED BY APPLICATION OF WATER OR CALCIUM CHLORIDE.
13. THE CONTRACTOR MAY OPT TO USE EROSION CONTROL MIX BERM AS A SEDIMENT BARRIER IN LIEU OF SILTATION FENCE OR HAY BALE BARRIERS WITH APPROVAL FROM THE INSPECTING ENGINEER.
14. SEDIMENT BARRIERS SHALL BE DOUBLED WITH 75' OF WETLANDS OR OTHER PROTECTED NATURAL RESOURCES.
15. TEMPORARY E&S CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS OF PERMANENT STABILIZATION. ACCUMULATED SEDIMENTS SHALL BE REMOVED AND THE AREA STABILIZED.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE HOUSEKEEPING PRACTICES DURING THE CONSTRUCTION OF THE PROJECT. THESE STANDARDS CAN BE FOUND IN THE FOLLOWING DOCUMENT: MDEP CHAPTER 500 (STORMWATER MANAGEMENT), APPENDIX C. HOUSEKEEPING. HOUSEKEEPING PRACTICES INCLUDE, BUT ARE NOT LIMITED TO, SPILL PREVENTION, GROUNDWATER PROTECTION, FUGITIVE SEDIMENT AND DUST, DEBRIS AND OTHER MATERIALS, EXCAVATION DEWATERING, AUTHORIZED NON-STORMWATER DISCHARGES AND UNAUTHORIZED NON-STORMWATER DISCHARGES. ANY SPILL OR RELEASE OF HAZARDOUS SUBSTANCES MUST BE REPORTED TO THE MDEP; FOR OIL SPILLS, CALL 1-800-482-0777; FOR SPILLS OF TOXIC OR HAZARDOUS MATERIAL, CALL 1-800-452-4664.
17. WHENEVER PRACTICABLE, NO DISTURBANCE ACTIVITIES SHOULD TAKE PLACE WITHIN 50 FEET OF ANY PROTECTED NATURAL RESOURCE. IF DISTURBANCE ACTIVITIES TAKE PLACE BETWEEN 30 FEET AND 50 FEET OF ANY PROTECTED NATURAL RESOURCE, AND STORMWATER DISCHARGES THROUGH THE DISTURBED AREAS TOWARD THE PROTECTED NATURAL RESOURCE, PERIMETER EROSION CONTROLS MUST BE DOUBLED. IF DISTURBANCE ACTIVITIES TAKE PLACE LESS THAN 30 FEET FROM ANY PROTECTED NATURAL RESOURCE, AND STORMWATER DISCHARGES THROUGH THE DISTURBED AREAS TOWARD THE PROTECTED NATURAL RESOURCE, PERIMETER EROSION CONTROLS MUST BE DOUBLED AND DISTURBED AREAS MUST BE TEMPORARILY OR PERMANENTLY STABILIZED WITHIN 7 DAYS.
18. ALL SEDIMENT BARRIERS AND EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION.
19. SEDIMENT BARRIERS SHALL BE INSTALLED DOWN-GRADIENT OF STOCKPILES, AND STORMWATER SHALL BE PREVENTED FROM RUNNING ONTO STOCKPILES.
20. THE PROPOSED STORMWATER MANAGEMENT AREAS INTENDED FOR USE AS PERMANENT, POST-CONSTRUCTION BMP'S SHALL BE USED TO TEMPORARILY MANAGE FLOWS DURING CONSTRUCTION. THESE BMP'S SHALL BE MAINTAINED DURING THEIR TEMPORARY USE BY INSTALLING THE APPROPRIATE MEASURES DURING CONSTRUCTION, INCLUDING UNDERDRAINS, SOIL FILTER MEDIA, ETC. SEDIMENT REMOVAL AND SLOPE STABILIZATION SHALL TAKE PLACE AS NECESSARY FOR TEMPORARY CONSTRUCTION MANAGEMENT.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE HOUSEKEEPING PRACTICES DURING THE CONSTRUCTION OF THE PROJECT. THESE STANDARDS CAN BE FOUND IN THE FOLLOWING DOCUMENT: MDEP CHAPTER 500 (STORMWATER MANAGEMENT), APPENDIX C. HOUSEKEEPING. HOUSEKEEPING PRACTICES INCLUDE, BUT ARE NOT LIMITED TO, SPILL PREVENTION, GROUNDWATER PROTECTION, FUGITIVE SEDIMENT AND DUST, DEBRIS AND OTHER MATERIALS, EXCAVATION DEWATERING, AUTHORIZED NON-STORMWATER DISCHARGES AND UNAUTHORIZED NON-STORMWATER DISCHARGES(DETAILED BELOW).

ROAD & DRIVEWAY CONSTRUCTION NOTES

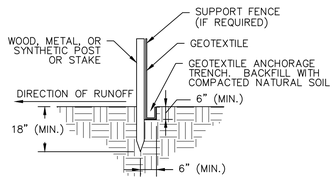
1. ROADS & DRIVEWAYS TO BE CONSTRUCTED IN ACCORDANCE WITH THE APPROPRIATE CROSS SECTION DETAIL. GRAVEL FILL TO BE COMPACTED TO 95% MODIFIED PROCTOR IN ACCORDANCE WITH ASTM D 1557. LIFT THICKNESSES TO BE A MAXIMUM OF 6".
2. ALL STUMPS, ORGANIC MATERIAL, ROCKS AND BOULDERS TO BE REMOVED TO A MINIMUM DEPTH OF 24" BELOW SUBBASE.
3. ALL STUMPS, LEDGE AND LARGE BOULDERS TO BE REMOVED FROM THE CONSTRUCTION AREA. THE CONSTRUCTION AREA SHALL BE CLEARED AND ROUGH GRADED.
4. ALL CULVERTS TO BE ADS N-12 (HDPE) OR APPROVED EQUAL. CULVERT INLETS AND OUTLETS TO BE PROTECTED IN ACCORDANCE WITH THE CULVERT INLET/OUTLET PROTECTION DETAIL.
5. THE CONTRACTOR MUST CONTACT DIG SAFE AND ALL LOCAL UTILITIES PRIOR TO THE START OF CONSTRUCTION TO VERIFY THE LOCATION OF EXISTING SUBSURFACE UTILITIES AND CONDITIONS. LOCATING AND PROTECTING ANY UNDERGROUND OR ABOVE GROUND UTILITY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

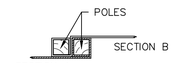
E&S INSPECTION/MAINTENANCE DURING CONSTRUCTION

A. INSPECTION AND CORRECTIVE ACTION. INSPECT DISTURBED AND IMPERVIOUS AREAS, EROSION CONTROL MEASURES, MATERIALS STORAGE AREAS THAT ARE EXPOSED TO PRECIPITATION, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE. INSPECT THESE AREAS AT LEAST ONCE A WEEK, PRIOR TO COMPLETING PERMANENT STABILIZATION MEASURES, AS WELL AS BEFORE AND WITHIN 24 HOURS AFTER A STORM EVENT WHICH PRODUCES 0.5 INCHES OR MORE WITHIN SAID 24 HOUR PERIOD. A TOWN-APPOINTED ENGINEER WITH KNOWLEDGE OF EROSION AND STORMWATER CONTROL, INCLUDING THE STANDARDS AND CONDITIONS IN THE PERMIT, SHALL CONDUCT THE INSPECTIONS AND SHALL ALSO ENSURE THAT THE RECOMMENDED MAINTENANCE IS PERFORMED.

B. MAINTENANCE. IF BEST MANAGEMENT PRACTICES (BMPS) NEED TO BE REPAIRED, THE REPAIR WORK SHOULD BE INITIATED UPON DISCOVERY OF THE PROBLEM BUT NO LATER THAN THE END OF THE NEXT WORKDAY. IF ADDITIONAL BMPS OR SIGNIFICANT REPAIR OF BMPS ARE NECESSARY, IMPLEMENTATION MUST BE COMPLETED WITHIN 7 CALENDAR DAYS AND PRIOR TO ANY STORM EVENT WHICH PRODUCES 0.5 INCHES OR MORE WITHIN A 24 HOUR PERIOD. ALL MEASURES MUST BE MAINTAINED IN EFFECTIVE OPERATING CONDITION UNTIL AREAS ARE PERMANENTLY STABILIZED.

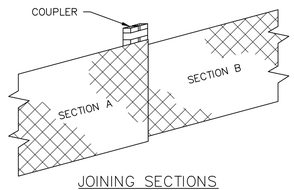
C. DOCUMENTATION. KEEP A LOG (REPORT) SUMMARIZING THE INSPECTIONS AND ANY CORRECTIVE ACTION TAKEN. THE LOG MUST INCLUDE THE NAME(S) AND QUALIFICATIONS OF THE PERSON MAKING THE INSPECTIONS, THE DATE(S) OF THE INSPECTIONS, AND MAJOR OBSERVATIONS ABOUT THE OPERATION AND MAINTENANCE OF EROSION AND SEDIMENTATION 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.





TOP VIEW
(CONNECTION)

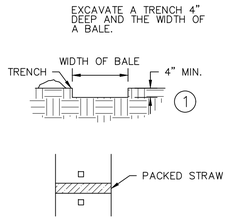
TOE-IN METHOD



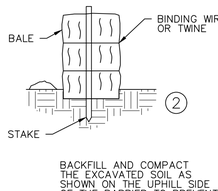
JOINING SECTIONS
THE COUPLER CAN BE ANY ACCEPTABLE DEVICE USED TO TIE THE POLES TOGETHER

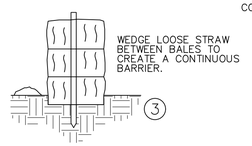
NOTES:
1. DEPENDING UPON THE CONFIGURATION, ATTACH GEOTEXTILE TO WIRE MESH WITH HOG RINGS, TO STEEL POSTS WITH TIE WIRES, AND TO WOOD POSTS WITH STAPLES.
2. POSTS MAY BE WIRED TOGETHER WHEN JOINING SECTIONS.

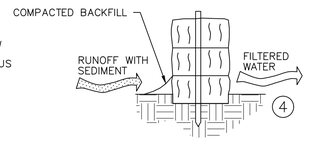
TEMPORARY SILT FENCE - NTS



PLAN VIEW

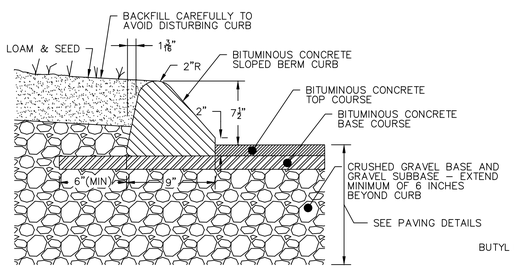






NOTES:
1. PLACE BALES IN A SINGLE ROW, LENGTHWISE ON THE CONTOUR.
2. PLACE BALES 10' AWAY FROM THE TOE OF SLOPE.
3. IN SLOPING AREAS WHERE SURFACE FLOW FOLLOWS THE BALE LINE, INSTALL PERPENDICULAR BALE CHECKS AT APPROPRIATE INTERVALS (100' MAX.)

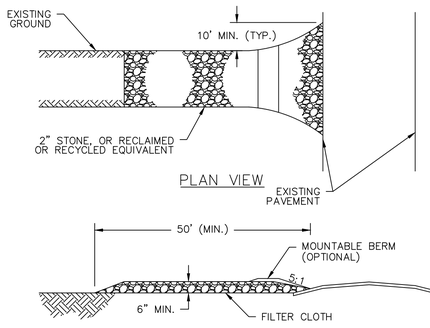
HAY BALE BARRIER - NTS



BITUMINOUS CONCRETE CURB

POST-CONSTRUCTION HOUSEKEEPING PUNCHLIST

1. ALL DISTRUBED AREAS SHALL BE PERMANENTLY STABILIZED, AND PLANTINGS SHALL BE ESTABLISHED (GRASS SEEDS HAVE GERMINATED WITHIN 90% VEGETATIVE COVER).
2. ALL TRASH, SEDIMENTS, DEBRIS, OR ANY SOLID WASTE SHALL BE REMOVED FROM STORMWATER CHANNELS, CATCH BASINS, DETENTION STRUCTURES, DISCHARGE POINTS, AND LEVEL SPREADERS.
3. ALL EROSION AND SEDIMENTATION DEVICES SHALL BE REMOVED (SILTATION FENCES AND POSTS, DIVERSIONS AND SEDIMENT STRUCTURES, ETC.)
4. ALL DELIVERABLES (CERTIFICATIONS, SURVEY INFORMATION, AS-BUILT PLANS, REPORTS, NOTICES OF TERMINATION, ETC.) IN ACCORDANCE WITH ALL PERMIT REQUIREMENTS SHALL BE SUBMITTED TO THE TOWN, THE MAINE DEP, HOMEOWNER'S ASSOCIATION, OWNER, AND/OR ALL APPROPRIATE ENTITIES.
5. THE PROPOSED REAR PARKING LOT SHALL BE SUBJECT TO PARKING LOT SWEEPING AS A BMP ON THE SAME OPERATION AND MAINTENANCE SCHEDULE AS OTHER BEST MANAGEMENT PRACTICES OF THIS PROJECT (CATCH BASIN CLEANING, INSPECTION AND MAINTENANCE OF THE DETENTION BASIN). ROUTINE SWEEPING WILL IMPROVE THE EFFECTIVENESS AND LIFESPAN OF THE ADJACENT DETENTION BASIN RECEIVING STORMWATER RUNOFF FROM THE PARKING LOT.

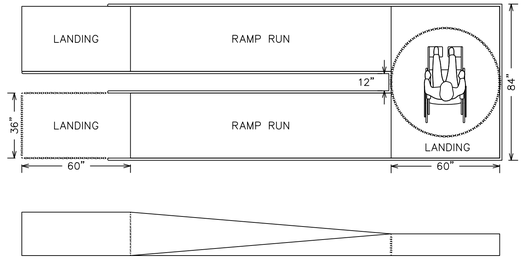


PLAN VIEW

PROFILE

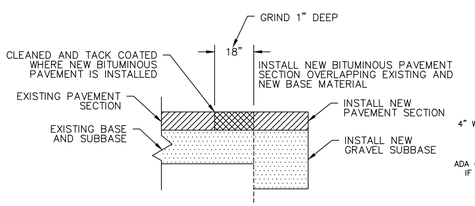
NOTES:
1. GEOTEXTILE: PLACE FILTER CLOTH OVER ENTIRE AREA TO BE COVERED WITH AGGREGATE. FILTER CLOTH WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENTIAL LOT.
2. PIPING OF SURFACE WATER UNDER ENTRANCE SHALL BE PROVIDED AS REQUIRED. IF PIPING IS IMOSSIBLE, A MOUNTABLE BERM WITH A 5:1 SLOPE WILL BE PERMITTED.

STABILIZED CONSTRUCTION ENTRANCE



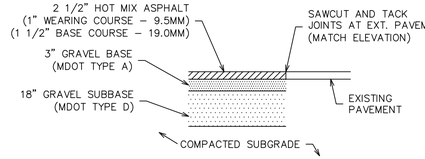
ADA SWITCHBACK RAMP DETAIL

(NTS)
NOTE: INNER HANDRAIL OF SWITCHBACK RAMP MUST REMAIN CONTINUOUS



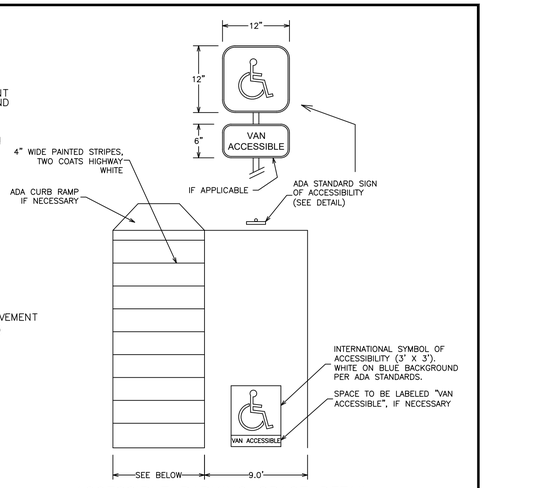
PAVEMENT JOINT CROSS SECTION

NEW PAVEMENT ABUTTING EXISTING PAVEMENT



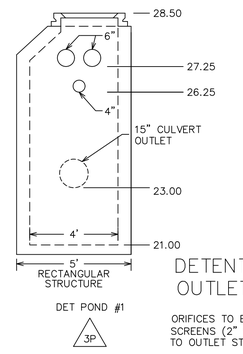
ASPHALT PARKING (DRIVEWAY) CROSS SECTION

(NTS)
GRAVEL FILL TO BE COMPACTED TO 95% MODIFIED PROCTOR



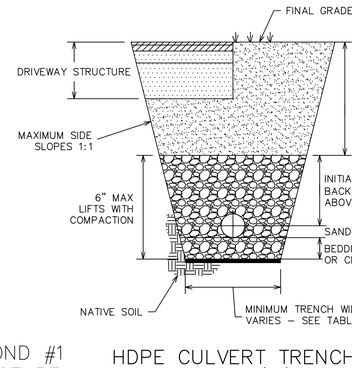
ACCESSIBLE PARKING SPACE DETAIL

AISLE SHALL BE 5' WIDE FOR AUTOMOBILES OR 8' WIDE FOR VANS
(NTS)



DETENTION POND #1 OUTLET STRUCTURE

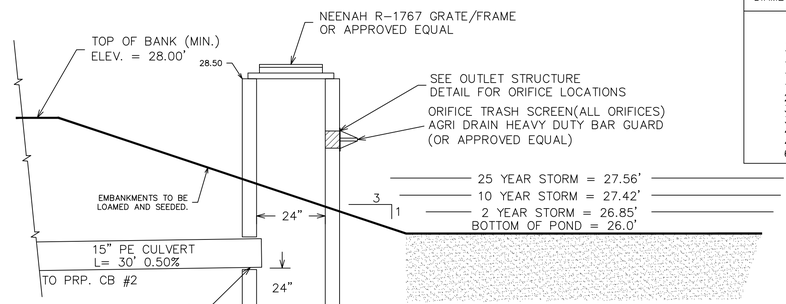
(NTS)
ORIFICES TO BE PROTECTED WITH TRASH SCREENS (2" MAX. OPENINGS) FASTENED TO OUTLET STRUCTURES WITH SS PARTS.



HDPE CULVERT TRENCH DETAIL

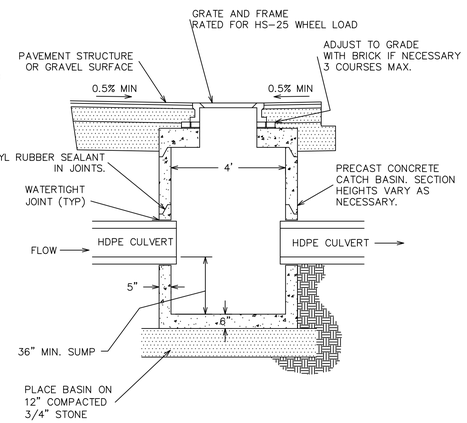
(NTS)
TRENCH TO BE SUPPORTED BY SLOPING BACK AT 2:1 OR OTHER ACCEPTABLE METHOD.

NOMINAL DIAMETER (IN)	MIN. TRENCH WIDTH (IN)
4	21
6	23
8	25
10	28
12	31
15	34
18	39
24	48
30	66
36	78
42	83
48	89
60	102



DETENTION POND #1

(NTS)
NOTES: -PIPE JOINTS TO BE WATER TIGHT



TYPICAL CATCH BASIN DETAIL

(NTS)
STUCTURE SHALL BE INSPECTED QUARTERLY WITH SEDIMENTS/FLOATABLES REMOVED AND LEGALLY DISPOSED OF AS NEEDED (MINIMUM ONCE PER YEAR).

TAX MAP 3, LOT 1

NO.	DESCRIPTION	DATE
	REVISIONS	
G	FINAL PEER REVIEW REVISIONS	05/11/22
F	FINAL PLAN REVISIONS	05/02/22
E	PEER REVIEW REVISIONS	04/22/22
D	PEER REVIEW REVISIONS	04/08/22
C	PRELIMINARY PLAN REVISIONS	02/10/22
B	PRELIMINARY PLAN REVISIONS	12/02/21
A	PRELIMINARY PLAN SUBMISSION	10/28/21

STATE OF MAINE
KENNETH A. WOOD
No. 5992
REGISTERED PROFESSIONAL ENGINEER

SITE DETAILS
TERRA COTTA EXPANSION
STATE ROAD, KITTERY, MAINE

FOR: TERRA COTTA PASTA COMPANY
C/O KEVIN CAMBRIDGE, 52 STATE ROAD
KITTERY, ME 03904

ATTAR ENGINEERING, INC.
CIVIL ◆ STRUCTURAL ◆ MARINE ◆ SURVEYING
1284 STATE ROAD - ELIOT, MAINE 03903
PHONE: (207)439-6023 FAX: (207)439-2128

SCALE:	APPROVED BY:	DRAWN BY:
AS NOTED		MJS
DATE:		REVISION DATE:
04/22/21		G : 05/11/22
JOB NO: C206-21	FILE: TERRA COTTA BASE.DWG	SHEET: 4