## Notice of Appeal - Form 1 Board of Zoning Appeals

Date Filed: 07/1					
·	11/2025 Per	rmit Application	No	Appeal No	
		Instructio	ns		
This form must be application for a <b>v</b> typewritten. If the the applicant is no legible plot plan sl	variance or appearance or application is ot an owner, the howing proper	olication for <b>speci</b> on behalf of the p te owner(s) must s rty dimensions ar	al exception. Ento property owner(s sign the Designat and locations of str	ries must be print ), all owners must ion of Agent. An a uctures and impr	ed or sign. If accurate,
must be attached t	to an application	on for variance or	special exception	1. 	
THE APPLICAN	Γ HEREBY AP	PEALS [indicate	one]:		
<b>⋈</b> for a var □ for a spe	riance as stated ecial exception	g official as stated l on attached Forr as stated on attac	n 3. Thed Form 4.	m 2	
APPLICANT(S) [	print] Robe	ert Brandon Aebe	ersold		
Address: 1018	Osceola Aven	ue, Sullivan's Isla	ind, SC 29482		
Telephone: Interest:		[work] _			[home]
Interest:	Owner(s):		Adjacent Owr	$\operatorname{ner}(s)$ ; Other:	
OWNER(S) [if oth	ner than Appli	cant(s)]: Robert	Brandon Aeberso	old and Comer Ire	land Aebe
Address:					
Address: Telephone:		[wor	·k]	_	home]
	[Use re	everse side if mor	e space is needed	.]	
INOILNII MDD	ILLUU.				
Lot 57 B	lock	_ Subdivision _	Moultrieville	D =	400
Tax Map No	523-06-00-00	2	Plat Book _	D Page	189
Lot Dimensions: _					
Zoning District	RS		Zoning Maj	Page:	
DESIGNATION (appoint the person application.	<b>OF AGENT</b> [c n named as Ap	omplete only if o oplicant as my (ou	wner is not applicar) agent to repres	cant]: I (we) herel sent me (us) in thi	by is

## Variance Application - Form 3 Board of Zoning Appeals

Da	ite l	Filed: 07/11/2025	Permit Applica	ation No	Appeal No
1.	ap	plication to the pro	perty described in	n the Notice o	peals for a variance from the strict  f Appeal [Form 1] of the following  rtation of materials of any type or re-contouring of a lot's existing contress or may result in elevating an existing or proposed structure is strictly
					f the property in a manner shown on 118 Osceola Avenue
		r which a permit ha ould be in violation		_	rial on the grounds that the proposal ning ordinance.
2.		1 1			essary hardship, and the standards met by the following facts.
					ns pertaining to the particular piece of nical Memorandum
	b.		o not generally ap d Technical Mem		property in the vicinity as shown by:
			ectively prohibit	or unreasonab	ordinance to the particular piece of oly restrict the utilization of the nical Memorandum
		property or to the p the granting of the	oublic good, and	the character o	bstantial detriment to adjacent of the district will not be harmed by ons:
3.		ne following docume Technical Memoran		1 1	of this application:ans [A plot plan must be submitted.]
Da	ite:	7/8/25			Applicant signature



### **BOARD OF ZONING APPEALS**

IN AC	CORDANCE WITH ZUNING URDINANCE SEC	11UN 21-175,	
I	Robert Brandon Aebersold	HAVE SUBMITTED A CON	IPLETED BOARD OF ZONING
APPEA	ALS APPLICATION, FOR THE MEETING DATE OF	08/14/2025	, WHICH WILL BE HELD A
SULLI	IVAN'S ISLAND TOWN HALL LOCATED AT <b>2056 MI</b>	DDLE STREET, SULLIVAN'S I	SLAND, SOUTH CAROLINA.
	TIONALLY, I UNDERSTAND THAT THE BOARD MAY F		POSE OF A MATTER ON THE RECORD
	re it in the absence of an appearance on beh		
R	HELL SUL	7/8/25	
APPLI	CANT SIGNATURE	DATE	



July 11, 2025

Subject: Technical Memo for Variance Request: 1018 Osceola Avenue Grading and Drainage Improvements

From: Kevin B. Herren, PE and Ryne C. Phillips, PE, PhD

Seamon, Whiteside & Associates, Inc.

To: Charles Drayton

Director of Planning & Zoning Town of Sullivan's Island 2056 Middle Street, P.O. Box 427 Sullivan's Island, SC 29482

**Attachments:** 1018 Osceola Avenue Grading and Drainage Plans

Town of Sullivan's Island Osceola Avenue Project Exhibit Landscape Plan / Lot Coverage Plan / Planting Details

Grading Fill Exhibit

#### 1. Executive Summary

- 1018 Osceola Avenue, without interventions, is at severe risk of repetitive tidal flooding. Current recommendations proposed as part of the recently completed (and approved by Town Council) Stormwater Master Plan were limited to flood mitigation projects that could be implemented within the public right-of-way, which may exclude marsh-adjacent properties (such as 1018 Osceola Avenue) from receiving flood mitigation benefits. Therefore, to accommodate these properties, this plan recommended that the Town of Sullivan's Island encourage and allow property owners to fill or protect their property against an appropriate tidal mitigation target.
- Stormwater impacts to adjacent property owners and public rights-of-way will be reduced if the proposed grading and drainage plan is implemented.
  - Existing Conditions: 23% of Property Flows towards Osceola Avenue, 20% of Property Flows towards 1010
     Osceola Avenue, 23% of Property Flows towards 1026 Osceola Avenue, 34% of Property Flows towards the marsh
  - Proposed Conditions: 21% of Property Flows towards Osceola Avenue, 3% of Property Flows towards 1010
     Osceola Avenue, 3% of Property Flows towards 1026 Osceola Avenue, 73% of Property Flows towards the marsh
- Town Osceola Avenue Project: The proposed grading and drainage improvements of this property should reduce the stormwater operations and maintenance by the Town after the roadway project is complete. The runoff will be routed more efficiently and retained within the property / toward the marsh, making it easier for the Town to manage the stormwater along the road. If the road project is completed without these improvements to the property, additional stormwater management would likely be required by the Town in front of this property.
- Based on the results of our analysis, and the information presented herein, the owner of 1018 Osceola Avenue is requesting a variance of Town Code Section 21-13 to allow implementation of the proposed grading and drainage project.



#### 2. Introduction

Seamon, Whiteside & Associates, Inc. has completed a grading and drainage plan to portray the necessary improvements for protecting the property at 1018 Osceola Avenue from tidal-driven flooding within the Town of Sullivan's Island, SC. Figure 1 below depicts the project area for this analysis. This technical memorandum serves to document our analysis and reasoning for requesting variance from current Town code and policy.

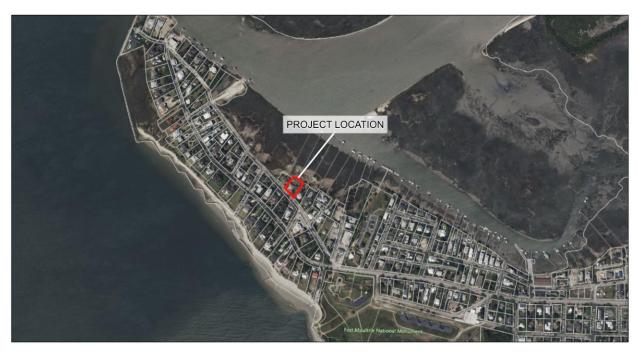


Figure 1 – Project location within the Town of Sullivan's Island, SC.

July 11, 2025
Technical Memo for Variance Request: 1018 Osceola Avenue Grading and Drainage Improvements
Page 3 of 6



#### 3. Existing Conditions & Property Risks

The property at 1018 Osceola Avenue is a vulnerable property on Osceola Avenue for tidal-driven flooding. This property has recently been renovated with a new home which sits directly adjacent to the open marsh with no form of flood protection. With recent flooding of Osceola Avenue, rainfall becoming increasingly more intense, and tide elevations in the area expected to continue rising, the risks of flooding associated with this property continue to increase moving forward without any improvements being made. These risks include:

- Critical Wetland Line Redelineation The critical wetland line was voluntarily re-surveyed by the Builder to provide a more accurate understanding of the marsh limits along the back of the property. The latest delineation revealed that the critical line moved inland towards the building by approximately 3 to 6 feet, and also resulted in a large portion of the eastern corner of the lot now falling within the wetland limits. Per direction from the Town, the original lot size calculations that were previously permitted will continue to be used for regulatory purposes. The attached lot coverage plan provides the latest critical line location and associated calculations.
- Tidal Flooding As noted in the "Island-Wide Stormwater Master Plan and Infrastructure Improvement Strategy" by Seamon, Whiteside, & Associates, Inc. Dated February 2025 and approved by Town Council in March 2025 (hereby referred to as the Stormwater Master Plan), the current typical tide elevation on Sullivan's Island is 3.31 feet NAVD88 with extreme tidal elevations exceeding 4.55 feet NAVD88 (Section 4.4.2 of the Stormwater Master Plan). Future sea level rise was also analyzed as a part of the Stormwater Master Plan. The results of this future sea level rise analysis indicated that future (50-year planning horizon) typical tides would exceed 5.39 feet NAVD88, with extreme tides exceeding 6.63 feet NAVD88 (Section 4.4.2.1 of the Stormwater Master Plan). The property elevation currently ranges from approximately 6.5 feet NAVD88 at the building pad and slopes down to 3-4 feet NAVD88 in the back of the property (along the marsh) and down to 4 feet NAVD88 along Osceola Avenue and both neighboring property boundaries. Based on the analysis and results of the Stormwater Master Plan, severe and repetitive tidal flooding will be a systemic problem for this property, that without intervention, may lead to irrevocable damage for this property.
- Roadway Improvements The Stormwater Master Plan outlines high-priority projects for mitigating flooding on Sullivan's Island such as proposed improvements for Osceola Avenue (Section 5.3.1 of the Stormwater Masterplan). Specifically, the Stormwater Master Plan calls for raising Osceola Avenue by 1.5 2 feet up to an elevation of 6 feet NAVD88 with suggestions of a future final target elevation of 7 feet NAVD88 (see attached for project exhibit). This is being proposed due to the constant flooding and submergence of the roadway in recent storm events and to combat the projected sea level rise in the future. Figure 2 below shows Osceola Avenue flooded near Station 9 ½ after a storm event, roughly 600 feet from the property, while Figures 3 through 5 show the roadway flooded directly in front of the property. Raising this street will protect the roadway from future floods but will still leave low-lying and marsh-adjacent properties, such as 1018 Osceola Avenue, at risk of tidal floods. It is to be noted that the original design for the property placed the parking area directly adjacent to the street, within the public right-of-way. However, to accommodate the future Town project along Osceola Avenue, the parking area has since been strategically relocated to its current position as shown on the grading and drainage plan. Maintaining the parking in its original location would have necessitated filling the existing roadway drainage swale, which would have directly conflicted with the proposed Osceola improvements that involve the use of piping and regrading of this ditch. This proactive relocation ensures compatibility with and supports the Town's planned infrastructure upgrades.





Figure 2 – Flooded Osceola Avenue (near Sta. 9 ½) December 2023



Figure 3 – Flooded Osceola Avenue (in front of 1018 Osceola Avenue) November 2024



Figure 4 – Flooded Osceola Avenue (in front of 1018 Osceola Avenue) November 2024



Figure 5 – Flooded Osceola Avenue (in front of 1018 Osceola Avenue) November 2024



#### 4. Proposed Conditions and Code Variance Reasoning

The attached grading and drainage plan proposes the following improvements to 1018 Osceola Avenue:

- Grading Raising the Property Elevation This includes gently sloping the elevation up to 6.5 feet NAVD88 along the back and sides of the property, raising the front yard to 6 feet NAVD88 stretching from around the eastern side of the property and into the adjacent property to the west. The property will also be graded in the backyard to an elevation of 5.7 feet NAVD to capture runoff and direct it towards the dry wells, which will be the low points at 5.6 feet NAVD. Grading also includes raising the roadside drainage swale from 3 feet to 4 feet NAVD88. A drainage swale is proposed in the southwest corner of the property to ensure drainage toward the roadway. There is also a swale proposed within the pervious pathway along the eastern property boundary to retain runoff within the property and prevent flow to 1026 Osceola Avenue.
- Critical Wetland Area Landscaping / Slope There will be a minimum 1-foot buffer between the new critical wetland line and any proposed grading along the slope up to elevation 6.5 feet NAVD in the back of the property. The slope will be graded at a 2H:1V slope and planted with primarily Spartina alterniflora (smooth cordgrass), which is a dominant grass species along tidal marshes, crucial for stabilization and erosion protection. The extensive root system of the vegetation helps retain the soil, while the plant stems attenuate wave energy. Coir logs will be installed at the toe of the slope along the buffer line to provide initial stabilization and promote vegetation growth, working in concert with the native plantings to protect the critical wetland limits from erosion and storm surges.
- Drainage Infrastructure This includes installing yard inlets for gutter tie-ins and surface drainage surrounding the new home layout. The yard inlets will capture the majority of the runoff within the property and drain towards two (2) dry wells in the backyard, preventing excessive runoff to neighboring properties. The dry well will have a gravity discharge for normal runoff events and a sump pump with a discharge pipe that will operate when the water level reaches too high in the dry well. Both pipes will be discharged within the property prior to the marsh. Additionally, a proposed French drain with a 6-inch perforated drain pipe will be installed at the base of the slope along the property line with 1026 Osceola Avenue. This drain is designed to effectively capture any stormwater that will land on the slope and prevent runoff, ensuring proper management of stormwater before it reaches the adjacent property. It will be routed to the dry wells and also has storage capacity.
- Living Shoreline To enhance erosion control and ecological benefits, a living shoreline component is proposed at
  key locations along the marsh-facing slope. Oyster bags will be strategically installed at the toe of the slope in lieu of
  the coir logs. Specifically, 25 feet of oyster bags are proposed where the slope meets the existing seawall on the 1026
  property and at the sump pump discharge locations. These oyster bags will provide immediate stabilization, attenuate
  wave energy, and create ideal substrate for natural oyster recruitment, further enhancing shoreline protection over
  time.

These improvements are necessary to protect this property from tidal flooding, as well as the neighboring properties from additional surface runoff. This will require variance from Town Code Section 21-13, which states "Any importation of materials of any type or re-contouring of a lot's existing contours that increased a lot's existing ground elevation more than one (1) foot above existing grade and results or may result in elevating an existing or proposed structure is strictly prohibited".

The improvements and variance are required for the following reasons:

Provide flood mitigation for repetitive tidal flooding of this property which is severely impacted by today's extreme tides that are only anticipated to become worse and more frequent in the future. The current extreme tidal elevation (as analyzed within the Stormwater Master Plan) is already above the majority of the property, with future typical and extreme tidal elevations indicative that future tides may frequently exceed the building pad elevation, flooding the entire site, and causing severe and potentially irrevocable damage to this property. The proposed grading, creating a slope up to 6.5 feet NAVD88 along the back and sides, will mitigate against projected extreme tidal events and will protect the Owner's property and house. This design aligns with the general Lowcountry target elevations for long-term coastal



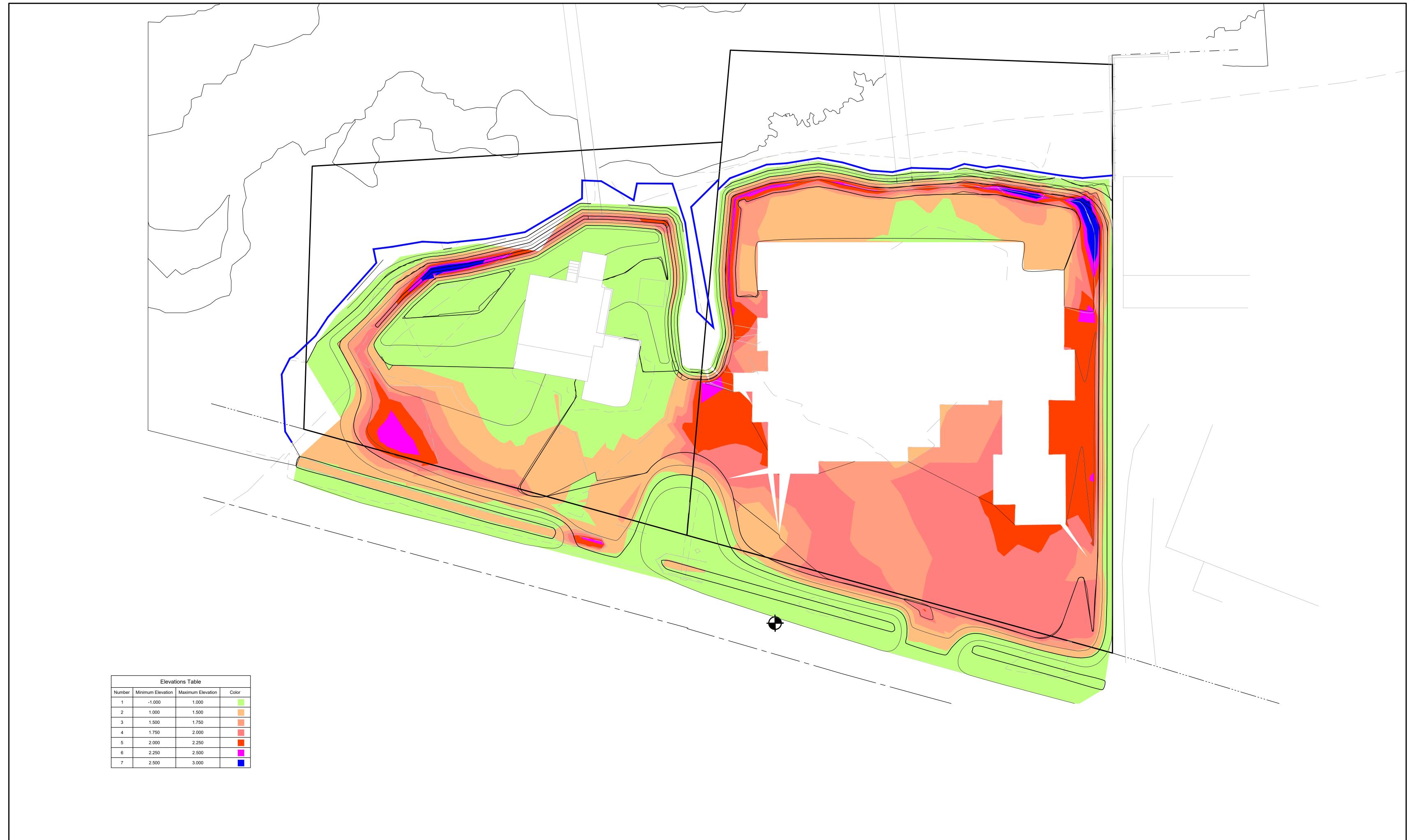
resiliency. This elevation is also referenced in Section 5.3.1 of the Stormwater Master Plan as a recommended target elevation of tidal perimeter protection improvements.

- The pathway swale elevation is required to be 6.5 feet NAVD88 along the eastern property boundary in order to protect 1026 Osceola Avenue from surface runoff. With the building pad around 6.5 feet NAVD88, any ground at or below this would allow for runoff and sediment to sheet flow from the property over the path to the neighboring property during extreme tide or storm events.
- The new building on the property has increased the impervious area on the site. The proposed drainage infrastructure
  will account for this additional impervious area and prevent surface runoff throughout the property and potentially to
  neighboring properties. The check valves installed on all discharge pipes will prevent any tidal water from backflowing
  into the property.
- The grading and necessary fill will create a safe and efficient drainage layout for the site, neighboring properties, and
  Osceola Avenue. Surface water will be directed away from the house toward the marsh to infiltrate in the backyard and
  or get captured by the french drain and two dry wells and discharged to the marsh, keeping runoff from entering
  adjacent properties. There are two drainage swales proposed in the southwest and southeast corners of the property
  to promote drainage into the roadside drainage swale.
- The northeast corner of the property is currently at risk of continued erosion due to storm tides. The redelineated critical line shows that this corner of the property is susceptible to land loss / erosion. The existing seawall installed along this area within the 1026 property extends along the back of their property at an elevation that appears to be at or above the proposed top of the grading of 6.5 feet NAVD88. By designing the grading to tie into the existing seawall location and the 25 feet of living shoreline, the function of the existing seawall will remain for the neighboring property and this corner will be better protected from continued erosion.
- With the Town proposing raising Osceola Avenue, the additional fill will allow for the property's grading to blend with
  the new road elevation. This will prevent flooding of the driveway and allow the roadside drainage to operate more
  efficiently.

#### 5. Alignment with Proposed Osceola Town Project

The Stormwater Master Plan identified the proposed improvements along Osceola Avenue (including raising the roadway) as the highest priority project that the Town of Sullivan's Island needs to implement to improve their long-term coastal resiliency. This entire corridor has already experienced severe systemic flooding that will continue to increase and pose risks to the properties adjacent to the roadway.

The improvements proposed in the attached grading and drainage plan will not only preserve the property at 1018 Osceola Avenue but will also safeguard the Town's investment if / when the roadway elevation is raised. With tidal elevations rising and storm events expected to increase in severity, the property would continue to flood if the roadway project was implemented without any of the proposed changes recommended herein. Implementing the proposed grading, creating a slope up to 6.5 feet NAVD88 along the back and sides, in addition to other proposed drainage improvements will protect the property and aligns with the objectives / recommendations of the Town's Stormwater Master Plan. Most importantly, the proposed site improvements do not and will not jeopardize the Town's proposed project.





PROJECT NAME: 1010 AND 1018 OSCEOLA AVE GRADING

PROJECT #: 12280 PROJECT LOCATION: SULLIVAN'S ISLAND, SC DATE: 07/11/2025

SPOT ELEVATION KEY: "EX" = EXISTING, "FUT" = FUTURE

FOR PROJECT SURVEY INFORMATION INCLUDING VERTICAL DATUM AND BENCHMARK LOCATION, SEE SHEET C2.0.

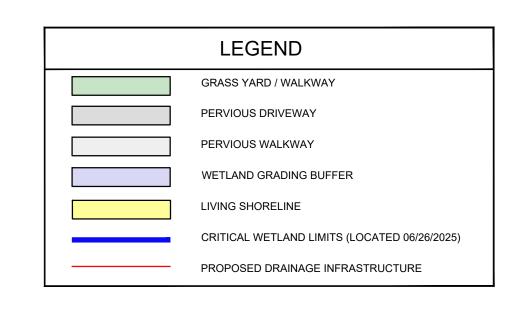
PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO TOPOGRAPHIC, TREE, STORM DRAINAGE FACILITIES, AND ALL UTILITIES.

EXISTING UTILITIES SHOWN ARE APPROXIMATE AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ENGINEER. THEREFORE, THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXACT VERTICAL AND HORIZONTAL LOCATIONS OF ALL EXISTING UTILITIES. ANY DISCREPANCIES OR CONFLICTS IDENTIFIED DURING VERIFICATION OF EXISTING CONDITIONS AND UTILITIES SHALL BE REPORTED TO THE OWNER AND ENGINEER. ANY COSTS ASSOCIATED WITH CORRECTIVE WORK OR DAMAGES THAT ARE A RESULT OF THE CONTRACTOR NOT VERIFYING EXISTING CONDITIONS AND THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES WILL BE THE CONTRACTOR'S RESPONSIBILITY.

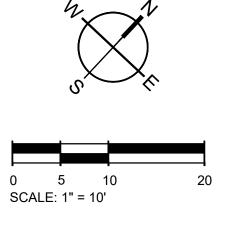
CONTRACTOR TO SELF-VERIFY THAT SITE GRADES, DRAINAGE PIPES, AND DRAINAGE STRUCTURES ARE CONSTRUCTED PER THE PLANS.

YARD INLET LOCATIONS ARE SUBJECT TO CHANGE PRIOR TO CONSTRUCTION BASED ON FIELD CONDITIONS.

ALL DRAINAGE PIPE TO BE INSTALLED WITH CHECK VALVES AT THE DISCHARGE LOCATION (TIDEFLEX DUCKBILL CHECK VALVE, OR EQUAL).

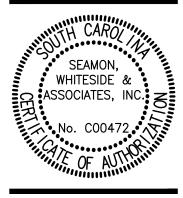






MOUNT PLEASANT, SC 843.884.1667 GREENVILLE, SC

864.298.0534 SUMMERVILLE, SC 843.972.0710 SPARTANBURG, SC 864.272.1272 CHARLOTTE, NC 980.312.5450 RALEIGH, NC 980.312.5450 WWW.SEAMONWHITESIDE.COM





AND DR

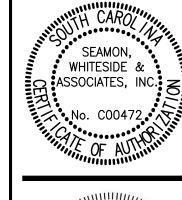
SW+ PROJECT: DATE: 5/22/25 DRAWN BY: RCP

CHECKED BY: REVISION HISTORY

1010 OSCEOLA AVE GRADING AND DRAINAGE PLAN

RALEIGH, NC 980.312.5450

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HARPER BUILDING GROUP

AND DR

SW+ PROJECT: 5/22/25

DRAWN BY: CHECKED BY:

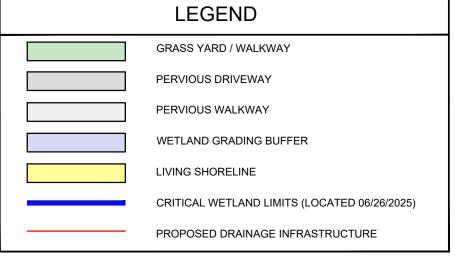
**REVISION HISTORY** 

1018 OSCEOLA AVE GRADING AND DRAINAGE

WILL BE THE CONTRACTOR'S RESPONSIBILITY.

CONTRACTOR TO SELF-VERIFY THAT SITE GRADES, DRAINAGE PIPES, AND DRAINAGE STRUCTURES ARE CONSTRUCTED PER THE PLANS PRIOR.

- GUTTER DESIGN ON THE BUILDING IS TO BE DESIGNED BY OTHERS. GUTTERS ARE TO TIE-IN TO THE YARD INLET DRAINAGE SYSTEM. YARD INLET LOCATIONS ARE SUBJECT TO CHANGE PRIOR TO CONSTRUCTION BASED ON FIELD
- FINAL DESIGN OF DRY WELL AND SUMP PUMP LOCATION, EQUIPMENT, AND PIPE CONNECTIONS SUBJECT TO CHANGE PRIOR TO CONSTRUCTION BASED ON FIELD CONDITIONS.
- ALL DRAINAGE PIPE AND SUMP PUMP DISCHARGE PIPE TO BE INSTALLED WITH CHECK VALVES AT THE DISCHARGE LOCATION (TIDEFLEX DUCKBILL CHECK VALVE, OR EQUAL).





DOCK

PROPERTY BOUNDARY LINE

EXISTING SEAWALL FOR 1026 OSCEOLA AVENUE,

- CONTINUES ALONG BACK OF PROPERTY TO THE

SOUTHEAST. EXACT LOCATION NOT VERIFIED.

NOTES

GRATE TO BE ATTACHED TO CATCH BASIN WITH SCREW PROVIDED AT TIME OF INSTALLATION.

RISER CAN BE CUT TO ACHIEVE EXACT ELEVATION.

EXISTING SOILS SHOULD BE EVALUATED TO ENSURE PROPER STRUCTURAL AND PERMEABILITY PROPERTIES.
INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

RECESS CHANNEL AND GRATE 1/8" FOR PEDESTRIAN TRAFFIC

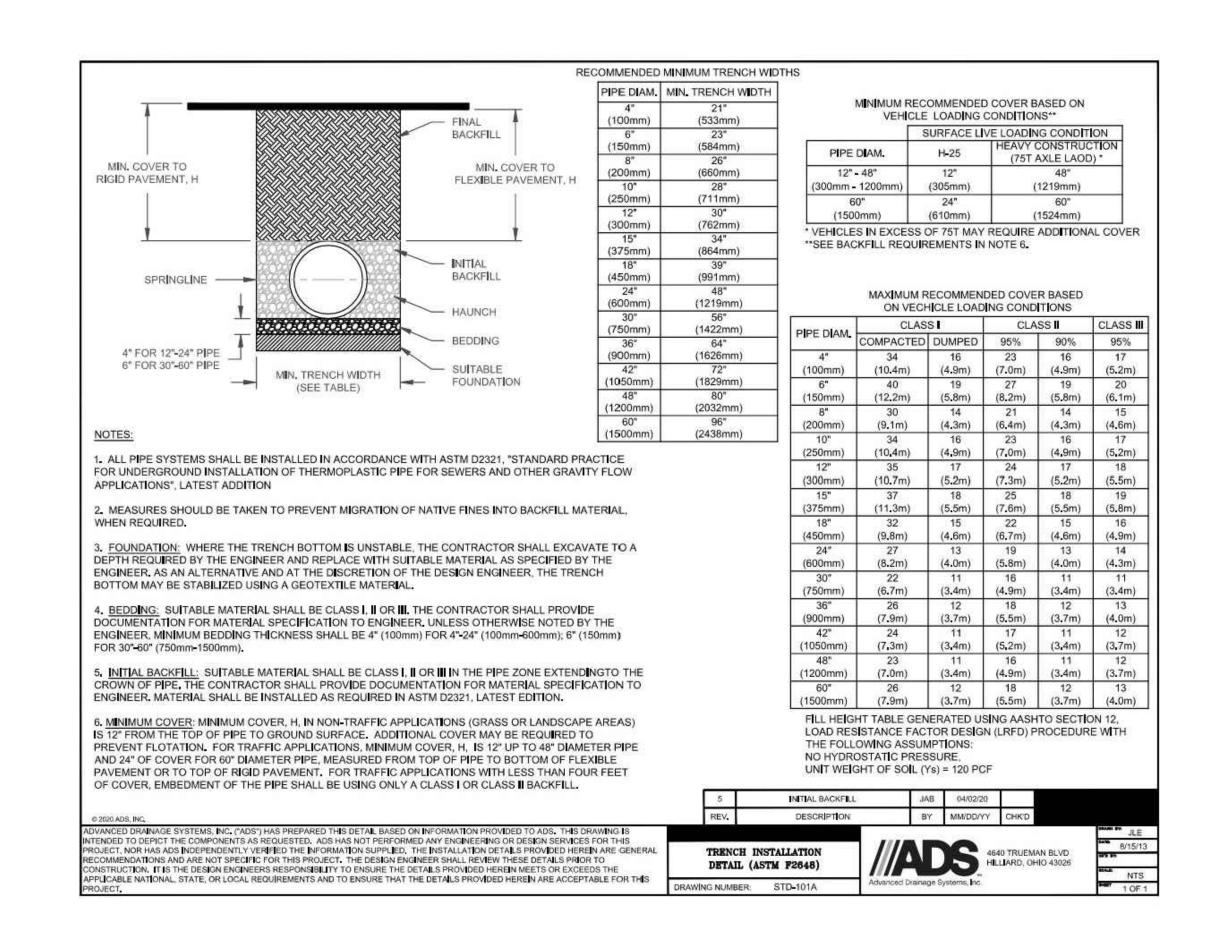
DO NOT SCALE DRAWING.

7. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND

DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY.

ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.

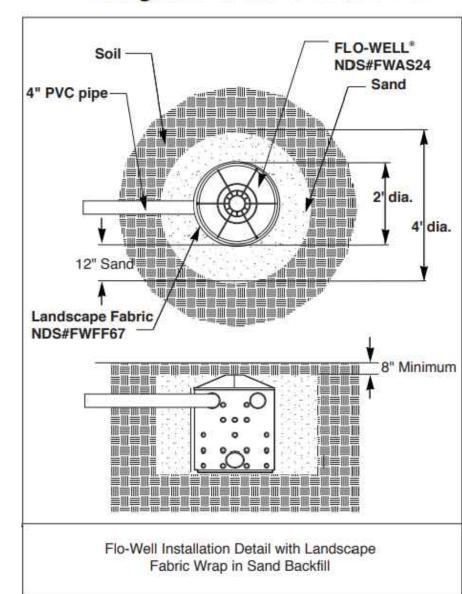
12" Square Yard Inlet Detail

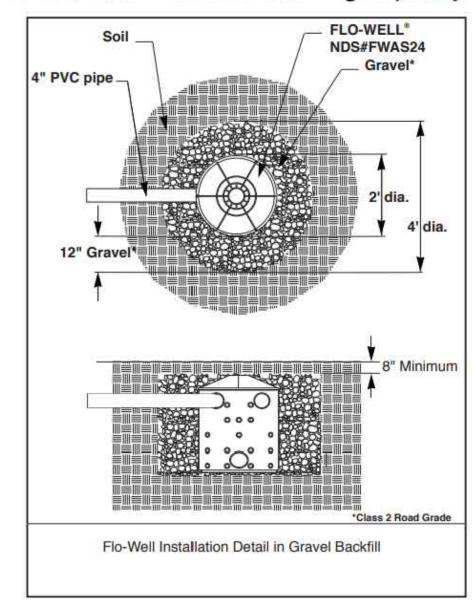


3 Drainage Pipe Trench Detail SCALE: NOT TO SCALE

Installation Note: Location and number of ports removed will determine the rate and direction of leaching.

\* Add gravel around outside of Flo-Well® unit to increase leaching capacity.



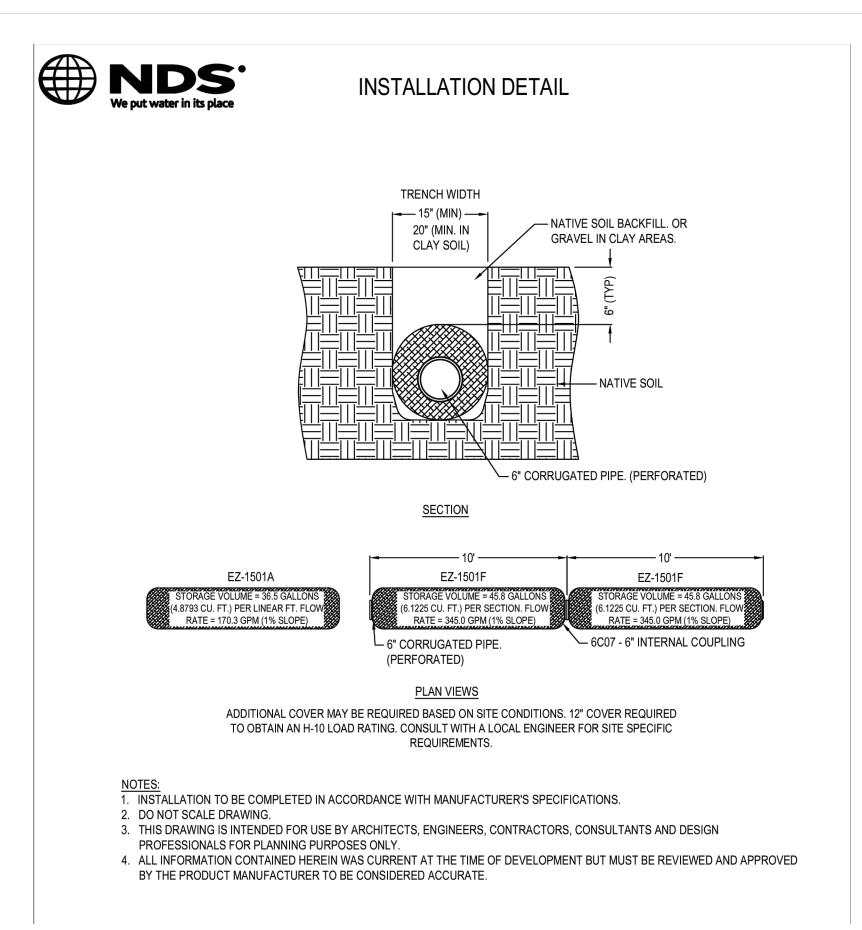


#### NOTES:

1. SUMP PUMP IN DRY WELL TO BE SIZED WITH A MINIMUM PUMP CAPACITY OF 50 GPM AT 3 FEET OF HEAD.

 DISCHARGE WILL OCCUR BY GRAVITY OUT OF THE FLO-WELL UNTIL THE WATER LEVEL REACHES THE PUMP ON ELEVATION. DISCHARGE VELOCITY USING 50 GPM AND 1.5-INCH DISCHARGE PIPE IS 5.9 FEET PER SECOND.

2 Dry Well Detail
SCALE: NOT TO SCALE



## **CAPACITY NOTES:**

25-YEAR STORM (2-HOUR DURATION) = 4.55 INCHES (SULLIVAN'S ISLAND, PER NOAA ATLAS 14)
STORMWATER RUNOFF ON SLOPE TOWARD 1026 OSCEOLA AVE PROPERTY LINE USING 25-YEAR STORM = 2,400± GALLONS

FRENCH DRAIN CAPACITY (EZ FLOW, MODEL EZ-1501F): STORAGE = (45.8 GALLONS / 10 FEET) X 143 LINEAR FEET = 650± GALLONS CONVEYANCE (@ 0.5% SLOPE) = 172 GALS/MIN. X 120 MIN. (2-HOUR STORM) = 20,640 GALLONS

TOTAL CAPACITY FOR 2-HOUR STORM = 20,640 + 650 GALS = 21,290 GALS > 2,400 GALS (2-HR 25-YR STORM)

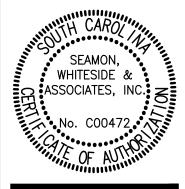


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CHARLOTTE, NC

980.312.5450 RALEIGH, NC

980.312.5450

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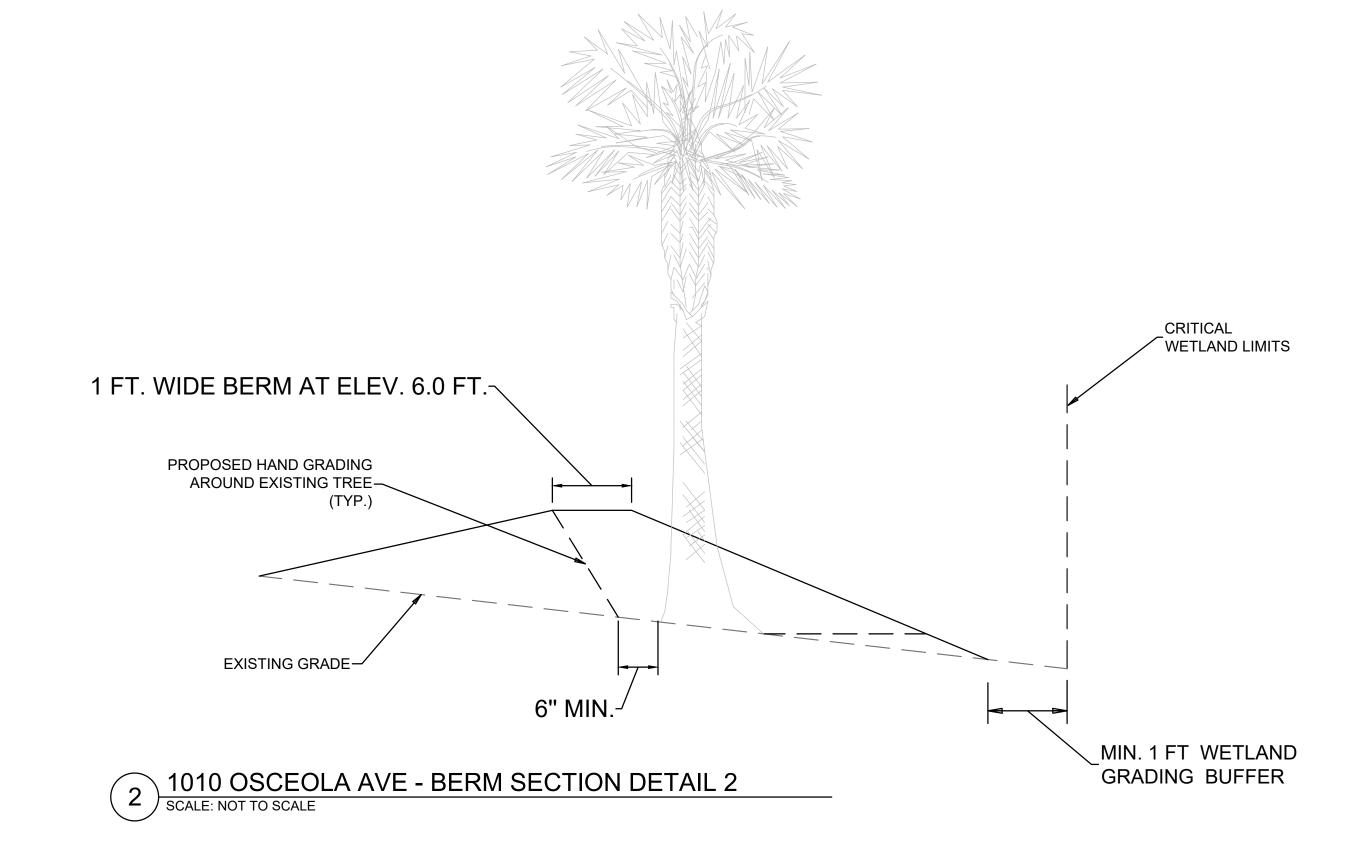
ARPER BUILDING GROUP
1018 & 1010 OSCEOLA AVENUE

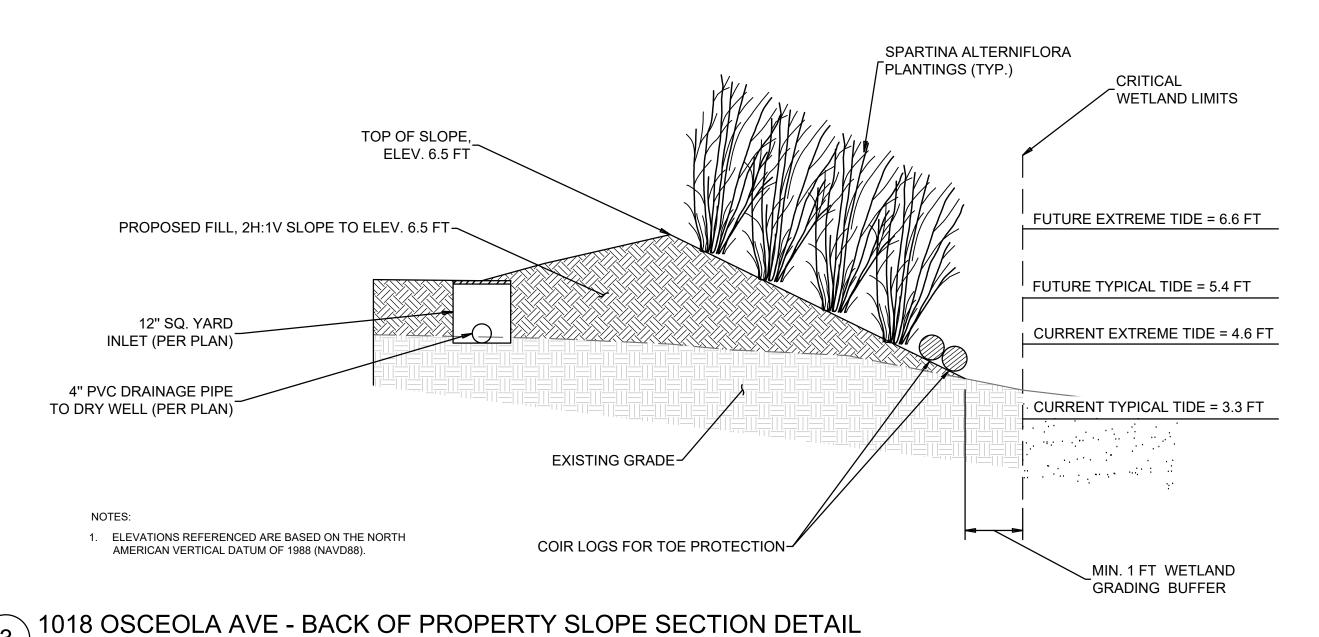
SW+ PROJECT: 12280
DATE: 5/22/25
DRAWN BY: KBH
CHECKED BY: RCP

REVISION HISTORY

DRAINAGE DETAILS

DETAILS





SPARTINA ALTERNIFLORA

MIN. 1 FT WETLAND

GRADING BUFFER

FLANTINGS (TYP.)

CRITICAL WETLAND LIMITS TOP OF SLOPE, ELEV. 6.5 FT FUTURE EXTREME TIDE = 6.6 FT PROPOSED FILL, 2H:1V SLOPE TO ELEV. 6.5 FT— FUTURE TYPICAL TIDE = 5.4 FT 2' DIA. DRY WELL CURRENT EXTREME TIDE = 4.6 FT (PER PLAN) INCOMING PVC DRAINAGE CURRENT TYPICAL TIDE = 3.3 FT PIPE (PER PLAN) EXISTING GRADE-1.5" SUMP PUMP DISCHARGE PIPE W/ CHECK SUMP PUMP~

VALVE AT DISCHARGE LOCATION

AT DISCHARGE LOCATION

6" GRAVITY DISCHARGE PIPE W/ CHECK VALVE

OYSTER BAGS (INSTALL MIN. 5' AMERICAN VERTICAL DATUM OF 1988 (NAVD88). BEYOND EACH DIRECTION AT DRY 2. HAND GRADE AROUND PIPE DISCHARGE LOCATIONS TO ENSURE SMOOTH DISCHARGE ONTO SURFACE. WELL DISCHARGE PIPE LOCATIONS) \ 1018 OSCEOLA AVE - LIVING SHORELINE SECTION DETAIL

NOTES:

1. ELEVATIONS REFERENCED ARE BASED ON THE NORTH

VARIOUS PLANTINGS ((REFER TO PLANTING PLAN BY "REES ROBERTS + PARTNERS LLC" FOR MORE DETAILS) PERVIOUS WALKWAY (REFER TO DETAIL ON -PROPERTY LINE LANDSCAPE PLAN BY -REESE ROBERTS + PARTNERS LLC) 12" SQ. YARD INLET AT BOTTOM OF WALKWAY SWALE 4" PVC DRAINAGE PIPE TO DRY WELL (PER PLAN) **EXISTING GRADE-**PROPOSED FILL, 2.5H-3H:1V SLOPE FRENCH DRAIN W/ 6" PERFORATED PIPE

1018 OSCEOLA AVE - SLOPE ON SOUTHEAST PROPERTY LINE SECTION DETAIL SCALE: NOT TO SCALE

843.884.1667 GREENVILLE, SC 864.298.0534 SUMMERVILLE, SC 843.972.0710 SPARTANBURG, SC 864.272.1272 CHARLOTTE, NC 980.312.5450 RALEIGH, NC 980.312.5450 WWW.SEAMONWHITESIDE.COM





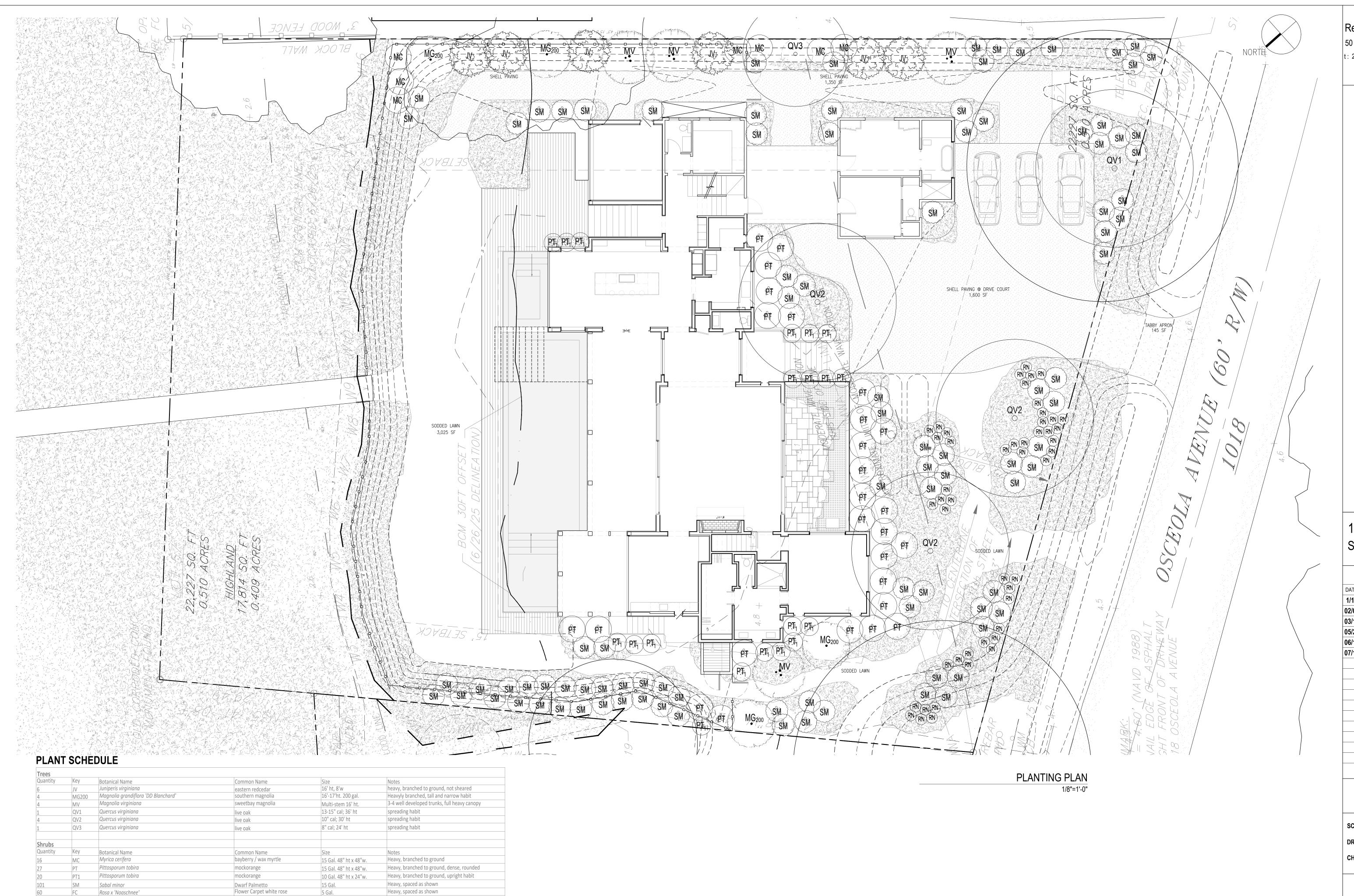
DR HARPER BUILDING GROUP AND

SW+ PROJECT: DATE: 5/22/25 DRAWN BY: KBH RCP CHECKED BY:

**REVISION HISTORY** 

DRAINAGE DETAILS

C3.1



Heavy, spaced as shown

Notes

Notes TBD

18" O.C. spacing

5 Gal.

Common Name

breeze grass

Common Name

Grasses - 4,500 SF

LLB Lomandra longifolia 'Breeze'

Terrace Plantings - 36" Shrub & Perennial Mix - 150 SF

QuantityKeyBotanical NameTBDTBDTBD

Rees Roberts + Partners LLC 50 WARREN STREET NYC 10007 t: 212.587.3371 f: 212.385.2932

# 1018 OSCEOLA AVE. SULLIVAN'S ISLAND SC

	ISSUES AND REVISIONS
DATE	ISSUE
1/16/2024	GRADING UPDATE
02/06/2024	GRADES + PLANT UPDA
03/14/2025	GRADES + PLANT UPDA
05/20/2025	GRADES + PLANT UPDA
06/19/2025	GRADES + PLANT UPDA
07/10/2025	GRADES + PLANT UPDA

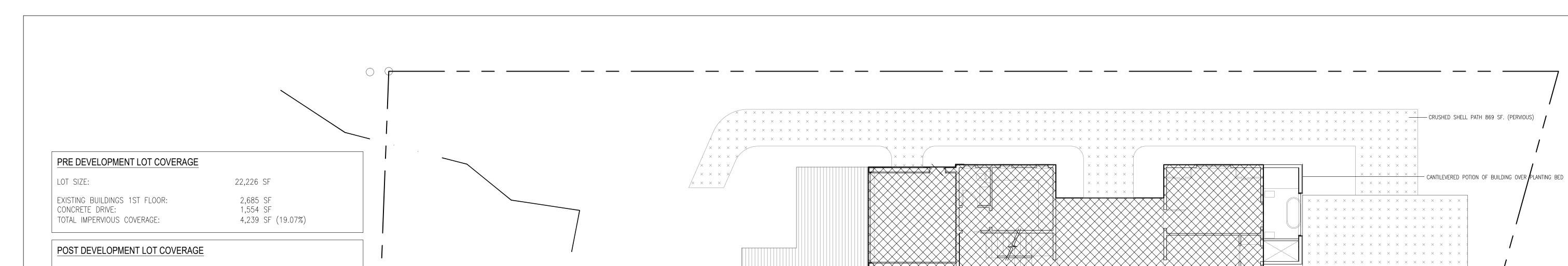
SCALE: AS NOTED

DRAWN BY: MJ

CHECKED BY: DK

**PLANTING PLAN** 

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LOT SIZE: 22,226 SF BUILDINGS, PORCHES + LANDINGS: 4,684 SF TOTAL IMPERVIOUS COVERAGE:

TOTAL IMPERVIOUS COVERAGE ALLOWED BY ZONING BASED ON 5/26/22 CRITICAL LINE: 30% HIGHLAND AREA (18,987 SF X 0.3 = 5,696 SF) 5,601 SF

TOTAL IMPERVIOUS COVERAGE ALLOWED BY ZONING BASED ON 6/26/25 CRITICAL LINE: 30% HIGHLAND AREA (17,814 SF X 0.3 = 5,344 SF) 5.344 SF

PERVIOUS SHELL PATH: PERVIOUS SHELL DRIVE: 1,732 SF 805 SF WOOD DECKS + PERVIOUS AT-GRADE LANDINGS: BOARDWALK TO DOCK: TOTAL PERVIOUS (NON-VEGETATED) COVERAGE: 3,596 SF (16.2%)

TOTAL IMPERVIOUS + PERVIOUS COVERAGE: 9,186 SF (41.3%)

13,140 SF (58.7%) TOTAL VEGETATED COVERAGE:

WOOD DECK 709.8 SF (PERVIOUS) ----SWIMMING POOL + SPA 906 SF (IMPERVIOUS) ———  $\times$   $\times$   $\times$   $\times$   $\times$   $\times$   $\times$   $\times$   $\times$  CRUSHED SHELL DRIVE 1,732 SF (PERVIOUS) — LOWER LANDING 27 SF (PERVIOUS) — EXISTING BOARDWALK TO DOCK 190 SF (PERVIOUS) ------ PROPERTY LINE - 1SF FLOOR OF HOUSE, PORCHES + LANDINGS 4,759 SF (IMPERVIOUS WOOD DECKS 68 SF (PERVIOUS) ---

PLAN

1/8"=1'-0"

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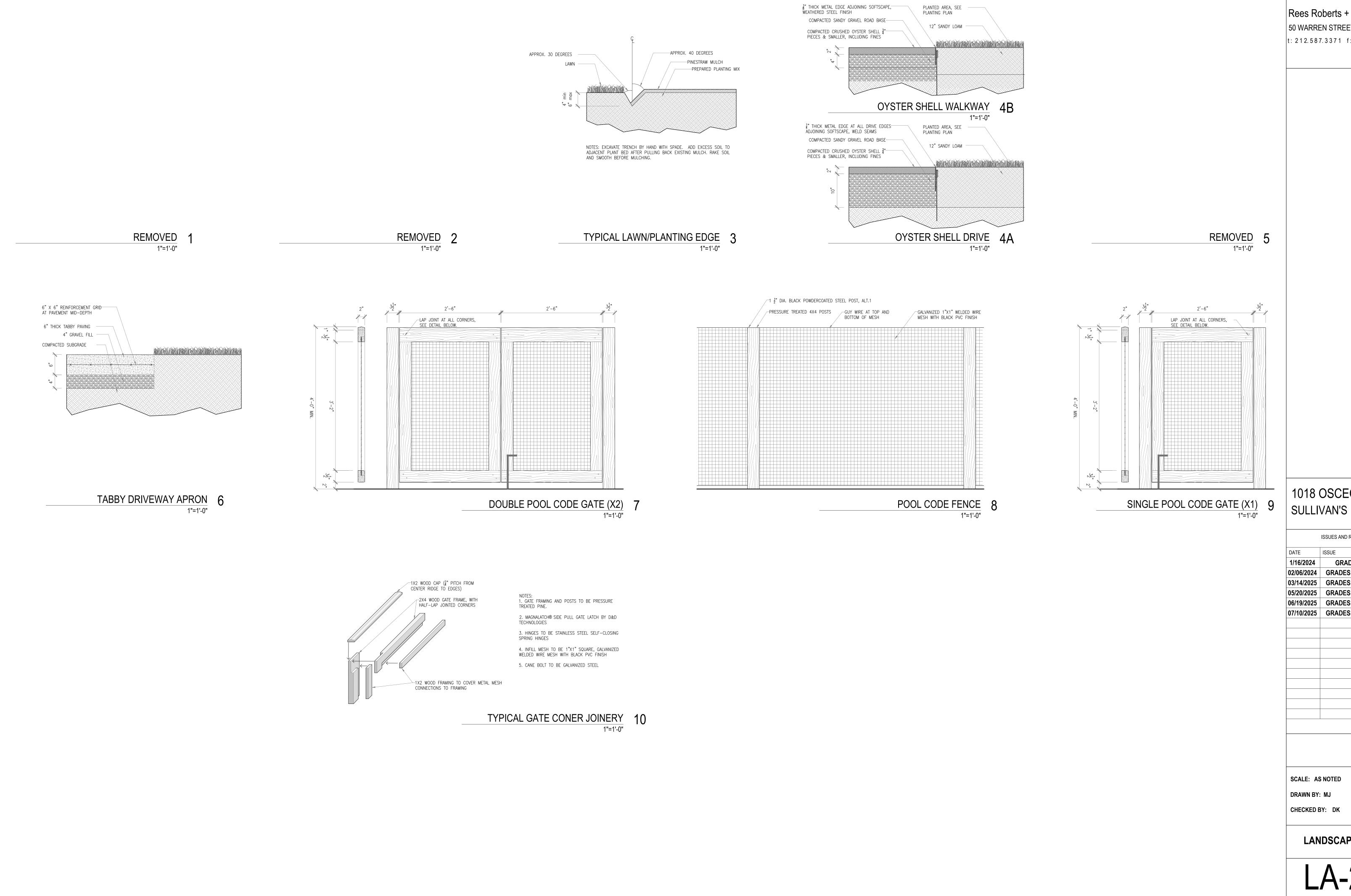
ISSUES AND REVISIONS **GRADING UPDATE** 1/16/2024 02/06/2024 GRADES + PLANT UPDATE 03/14/2025 GRADES + PLANT UPDATE 05/20/2025 GRADES + PLANT UPDATE 06/19/2025 GRADES + PLANT UPDATE 07/10/2025 GRADES + PLANT UPDATE

SCALE: AS NOTED

DRAWN BY: MJ CHECKED BY: DK

**LOT COVERAGE** 

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ISSUES AND REVISIONS **GRADING UPDATE** 02/06/2024 | GRADES + PLANT UPDATE 03/14/2025 GRADES + PLANT UPDATE 05/20/2025 GRADES + PLANT UPDATE 06/19/2025 GRADES + PLANT UPDATE 07/10/2025 GRADES + PLANT UPDATE

LANDSCAPE DETAILS

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