

October 26, 2023

Currituck County Planning Department Currituck Historic Courthouse 153 Courthouse Road, Suite 110 Currituck, NC, 27929

ATTN: Jennie Turner, Senior Planner

RE: Parcel Y - Response to Technical Review Committee Comments

Dear Jennie:

We have reviewed your letter dated October 12th, 2023 and have addressed the items as follows:

Comments prepared by Planning, Jennie Turner

1. The Update plan to include all site addresses provided by GIS.

Response: Note #3 on sheet C201 has been updated with the addresses indicated by Harry Lee.

2. Provide HVAC locations and any other ground-based utility location.

Response: HVAC units have been added to the north side of the building.

3. How will the proposed dumpster location be accessible to large trash vehicle? Dumpster must be screened on all sides. Dumpster screening must be opaque.

Response: The dumpster location has been sited to allow for a front load waste collection truck dumpster from an angle after pulling into the parking lot. The dumpster pad has a wood screen fence (detail on sheet C203) surrounding it and a gate has been added to the front.

4. Remove 10'x70' sight triangle and show 20'x20' sight triangle.

Response: 10'x70' sight triangle has been replaced with the 20' x 20' sight triangle.

5. Provide Building Pad and FFE.

Response: The building FFE (11.80) is shown on C201 & C301. A note has also been added to coordinate the building pad elevation with building plans based upon the finished floor elevation.

Jennie Turner Currituck County Planning Department October 26, 2023 Page 2 of 5

6. The proposed use is retail, there are outdoor tables shown, please provide additional detail on proposed use.

Response: The proposed use is retail. Outdoor tables have been removed from the architectural plan.

7. Is it feasible to extend the multi-use path to tie into the existing crosswalk north of NC12/Sunset Blvd crossing?

Response: The location of existing power pole and guywires, pedestrian crosswalk signal and underground utilities will not allow for a 10' wide pathway connection.

8. Front sidewalk to building should be minimum 5' wide

Response: The width of the front sidewalk connection to the multiuse path has been increased to 5'.

9. Please note vehicular landscaping plants in a similar manner to the other shrubs and trees noted on the plan.

Response: Symbols have been added to the vehicular landscaping buffer.

10. Please check landscaping plants provided. ex: building façade shrubs, 12 are noted 10 are shown. Please show all proposed plantings.

Response: Two additional plants have been added to the building façade.

11. Please show all proposed plantings.

Response: All intended plant locations have been shown on C202.

12. Is a freestanding sign proposed? If so, provide location.

Response: The location of the freestanding sign has been added for sheet C201.

13. Describe specifically the three features from UDO Section 5.8.3.C that are proposed and met with architectural design for each elevation visible from NC12: North, East & South.

Response: (provided by Mark Kasten)

I believe since the north and south elevations are less that 50', they are not required to meet Section 5.8.3.C.

The east façade meets the following three sections:

a) The use of projections or recesses in the building façade wall with a depth of 18 inches from the primary façade plane and a minimum width of 10 feet;

The north store portion of the building has been setback 18" to meet this requirement.

b) Façade color changes following the same dimensional standards as the offset standards in (a) above; Building color changes meeting (b) are indicated on the revised drawing.

Jennie Turner Currituck County Planning Department October 26, 2023 Page 3 of 5

c) Roofline changes, coupled with correspondingly aligned wall offset facade material changes, including changes in the roof planes or changes in the height of a parapet wall (such as extending the top of pilasters above the top of the parapet wall);

This change is met as the building changes from one story to two story.

14. Please provide color selections for facades in compliance with UDO Section 5.8.3.C.

Response: (provided by Mark Kasten)
See attached rendering for proposed colors.

15. Please amend note #9: 2 upper story dwellings are permitted subject to the amended sketch plan for Buck Island.

Response: Note #9 on sheet C201 has been amended as requested

16. Provide signed NCDOT driveway access permit application and encroachment agreement.

Response: The signed NCDOT driveway access permit application and encroachment agreements are attached.

17. Ensure drive aisle adjacent to parking spaces 1 & 2 maintains required 24' width.

Response: The drive aisle terminates at spaces 1 & 2 and 24' as well as a turn-around space is available immediately behind them.

18. Ensure pipe connecting basins does not impact the existing heritage tree root system.

Response: A note has been added to field adjust the pipe if tree roots present a conflict.

19. Please provide information on the existing exposed cables along the top of the existing berm within the site (labeled UGE). The proposed site grading indicates a cut of this berm by approximately 1' at the exposed cable.

Response: Dominion Power was notified of the exposed cable in early July and indicated they would correct the situation. I have placed a note on C301 directing the contractor to coordinate with Dominion Power to verify adequate cover is maintained on the cables.

20. Although not required by ordinance, please consider bicycle parking.

Response: A bike rack has been added along the front of the site adjacent to walkway connection to the multiuse path.

21. Please label existing retaining wall around live oak.

Response: The existing retaining wall has been labeled on sheet C201.

22. Extend the silt fence in this area of the berm grading along the north side of the site to include all the proposed site grading.

Response: The silt fence has been extended on sheet C302

Comments prepared by Stormwater Review, (McAdams, Stormwater Consultant)

C301 GRADING AND DRAINAGE PLAN

1. Show where infiltration basins overland relief will occur as no outlet structure or weir is shown. Where water flows onto neighboring properties, it should not impact structures.

Response: The drain basin adjacent to infiltration basin #1 provides overflow for runoff in excess of the basin capacity. An overflow location has been added to infiltration basin #2. This has been placed at the location of current sheet flow patterns, which is towards the pond to the northwest. There are no structures in the strip of land at this location, which consists of a vacant NCDOT R/W.

2. Infiltration basin #2 does not properly tie into grade and once properly graded out will produce fill within the no-fill setback of the property line.

Response: Slight modifications have been made to clarify the grading of infiltration basin #2 (including overflow). Grading in the setback primarily consists of excavation rather than fill. Limited increase of grade in small instances are possible and the result of properly establishing the berm needed to maintain stormwater on site.

Infiltration basin #1 also creates fill within the no-fill setback of the property line.

Response: Grading in the setback primarily consists of excavation rather than fill. Limited increase of grade in small instances are possible and the result of properly establishing the berm needed to maintain stormwater on site.

4. 6" HDPE pipe shown on plans is assumed to be an equalizing pipe. Does this pipe sit at the bottom of the basins?

Response: The HDPE pipe has been increased to a 10" and includes a 12" Drain basin at the edge of basin #1 that will provide an overflow, directing excess runoff to basin #2.

SIMPLE METHOD RUNOFF CALCULATIONS

5. Provide further calculations of proposed site weighted curve number calculation.

Response: The post developed CN of 63 is based upon 40% coverage and is interpolated between values published in the NRCS TR-55 manual. Table 2-2a lists the following:

CN value of 61 for a site with 38% coverage (group A soils) CN value of 77 for a site with 65% coverage (group A soils)

Interpolating between those 38% 65% cover to determine CN at 40% coverage is as follows:

$$CN = [((77 - 61) / 27) \times (40 - 38)] + 61 = 62.2$$
(rounded up to 63)

6. Correct calculations to state that 4 and 5 inches are not design runoff but the design storm rainfall depth.

Jennie Turner Currituck County Planning Department October 26, 2023 Page 5 of 5

Response: The calculation table has been clarified.

RATIONAL METHOD PEAK FLOW (FORM SW-003)

7. Proposed condition TC is too short. Acceptable minimum TC is 5 minutes.

Response: I have adjusted form SW-003 to 5 minutes.

8. 2-year, 24-hour rainfall depth used in TC path calculations should stay the same for both pre and post calculations.

Response: The 2-yr 24-hr rainfall depth of 4 inches was used in TC calculations as specified on sheet 2-19 in the Currituck County Stormwater Design Manual.

9. Please include an exhibit of the TC path onsite in the existing and proposed condition (it's length and slope should match the information provided on the form).

Response: This has been added to the stormwater report

Included with this package you will find documents that have been revised as well as additional documents that have been requested. This includes:

- Site Plan Drawings (3 copies)
 - o C201 Site Plan (revised 10/25/2023)
 - C202 Buffering and Lighting Plan (revised 10/25/2023)
 - o C202 Site Plan Details (dated 10/25/2023)
 - o C301 Grading and Drainage Plan (revised 10/25/2023)
 - o C302 Demolition and E&S Control Plan (revised 9/12/2023)
 - o C401 Utility Plan and Details (revised 10/25/2023)
 - A1 Building Elevations
- Stormwater Management Report (revised 10/25/2023 2 copies)
- NCDOT Applications signed by owner
 - Street and Driveway Access Permit Application
 - Right-of-Way Encroachment Agreement

If you have any questions pertaining to this project, please do not hesitate to contact me.

Sincerely.

Michael J. Morway, Pe Engineer

cc: File 08599B

Golasa Holdings LLC

VICINITY MAP

<u>SITE PLAN NOTES:</u>

- 1. OWNER/DEVELOPER: GOLASA HOLDINGS, LLC PO BOX 120 KITTY HAWK, NC 27949
- 2. THE OWNER INTENDS TO CONSTRUCT 2-STORY STRUCTURE WITH APPROXIMATELY 2,221 SF OF RETAIL SPACE ON THE FIRST FLOOR AND TWO (2) 2-BEDROOM APARTMENTS ON THE SECOND FLOOR.
- 3. THE PROPERTY IS PARCEL Y THIRD DIVISION OF LOT 3, TIMBUCK II PHASE BUCK ISLAND, D.B. 1026, PG 598, D.B. 1668, PG. 569
 CURRITUCK COUNTY PARCEL ID 116D000003B0000
 CURRITUCK COUNTY PIN#: 9935-73-2011
- FIRST FLOOR RETAIL: 804 OCEAN TRAIL, COROLLA SECOND FLOOR APARTMENTS: 804-A & 804-B OCEAN TRAIL, COROLLA
- 4. THE SITE IS LOCATED IN FIRM ZONE "X". FIRM MAP NUMBER 3720993500K, EFFECTIVE DATE DECEMBER 21, 2018. (SUBJECT TO CHANGE BY FEMA)
- 5. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES UNLESS OTHERWISE SPECIFIED. ELEVATIONS SHOWN ARE HEREON PER NAVD88.
- 6. AREAS SHOWN ARE BY COORDINATE METHOD.
- 7. EXISTING SITE FEATURES AND SURVEY INFORMATION PROVIDED BY SEABOARD SURVEYING & PLANNING, INC. SURVEY DATED DECEMBER 22, 2016. EXISTING TOPOGRAPHY OBTAINED FROM NOAA 2019 AND COMPARED TO SURVEY DATA OBTAINED ALONG OCEAN TRAIL BY ALBEMARLE & ASSOCIATES, LTD. IN 2011. ELEVATIONS BASED UPON NAVD 1988.
- 8. THERE ARE NO DELINEATED WETLANDS ON THE PROJECT SITE.
- 9. THE PROPERTY IS ZONED SFO WITH A PUD OVERLAY DESIGNATED AS GB. RETAIL SALES ESTABLISHMENTS IS AN ALLOWABLE USE WITHIN THE GB DISTRICT STANDARDS. TWO UPPER STORY DWELLING UNITS ARE PERMITTED SUBJECT TO THE AMENDED SKETCH PLAN FOR BUCK ISLAND. ALL ADJACENT PROPERTIES ARE ZONED WITH THE SAME CLASSIFICATION.
- 10. MINIMUM BUILDING SETBACKS:
- FRONT 30' REAR – 25'
- SIDE 15' 30' ALONG MID COUNTY BRIDGE CORRIDOR PER P.C. E, SL. 102.
- 11. TOTAL PROPERTY AREA = 19,378 SF AREA TO BE DISTURBED = 27,767 SF (0.64 ACRES) (INCLUDES WORK ALONG OCEAN TRAIL)
- 12. COVERAGE IS AS FOLLOWS:

EXISTING (PER 2016	SURVEY)
BUILDING/DECK	991.05 SF
CONCRETE	314.93 SF
GRAVEL	7,009.79 SF
TOTAL	8,315.77 SF (42.91%)

ALL EXISTING FEATURES TO BE REMOVED

PROPOSED

BUILDING/STEPS 2,349.02 SF
PARKING 4,028.43 SF
CONCRETE SIDEWALK 1,191.94 SF
PERVIOUS SIDEWALK 142.01 SF
DUMPSTER PAD 80.00 SF
HVAC STAND 27.00 SF

TOTAL 7,818.40 SF (40.35%)

ALLOWABLE COVERAGE 12,595.7 SF (65.0%)

13. PARKING REQUIREMENTS:

RETAIL, GROUND FLOOR: (1 SPACE / 300 SF) * (2,221 SF) = 7.4 SPACES

DWELLING, UPPER FLOOR: (0.5 SPACE / DU) * (2 DU) = 1.0 SPACE

TOTAL REQUIRED PACKING SPACES: 8.4 SPACES

TOTAL PROVIDED SPACES: 9 SPACES

- 14. STORMWATER MANAGEMENT WILL BE ACCOMMODATED THROUGH INFILTRATION BASINS DESIGNED IN ACCORDANCE WITH CURRITUCK COUNTY REQUIREMENTS.
- 15. THE NRCS SOILS MAP FOR CURRITUCK COUNTY HAS MAPPED THE SOILS ON THIS SITE TO BE NEWHAN-COROLLA COMPLEX AND OSIER FINE SAND.
- 16. LIGHTS WILL BE DOMINION POWER BASIC SHOEBOX LED (8318 LUMENS / 150 WATT EQUIVALENT) WITH TYPE 4 DISTRIBUTION MOUNTED AT 25' ABOVE GRADE. LIGHTS FOR THIS SITE WILL BE PLACED IN ACCORDANCE WITH CURRITUCK COUNTY REQUIREMENTS.
- 17. ALL SIGNS SHALL BE ERECTED, ALTERED AND MAINTAINED IN ACCORDANCE WITH THE PROVISIONS IN THE CURRITUCK COUNTY CODE OF ORDINANCES.
- 18. SILT FENCE TO BE INSTALLED ON SITE AS SHOWN ON EROSION CONTROL/GRADING PLAN.
- 19. ALL DISTURBED AREAS SHALL BE STABILIZED WITH A COASTAL VEGETATION MIX.
- 20. THE OWNER SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL BUFFERING. ALL REQUIRED LANDSCAPING AND BUFFER AREAS SHALL BE MAINTAINED IN GOOD CONDITION SO AS TO PRESENT A HEALTHY AND ORDERLY APPEARANCE AND SHALL BE KEPT FREE FROM REFUSE AND DEBRIS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE REPLACEMENT OF PLANTS DAMAGED BY INSECTS, DISEASE, VEHICULAR TRAFFIC, AND VANDALISM.
- 21. ALL NEW UTILITIES ARE TO BE PLACED UNDERGROUND.
- 22. TRASH COLLECTION WILL BE VIA ON-SITE DUMPSTER.
- 23. WASTEWATER WILL BE CONNECTED TO THE CAROLINA WATER SERVICE WASTEWATER

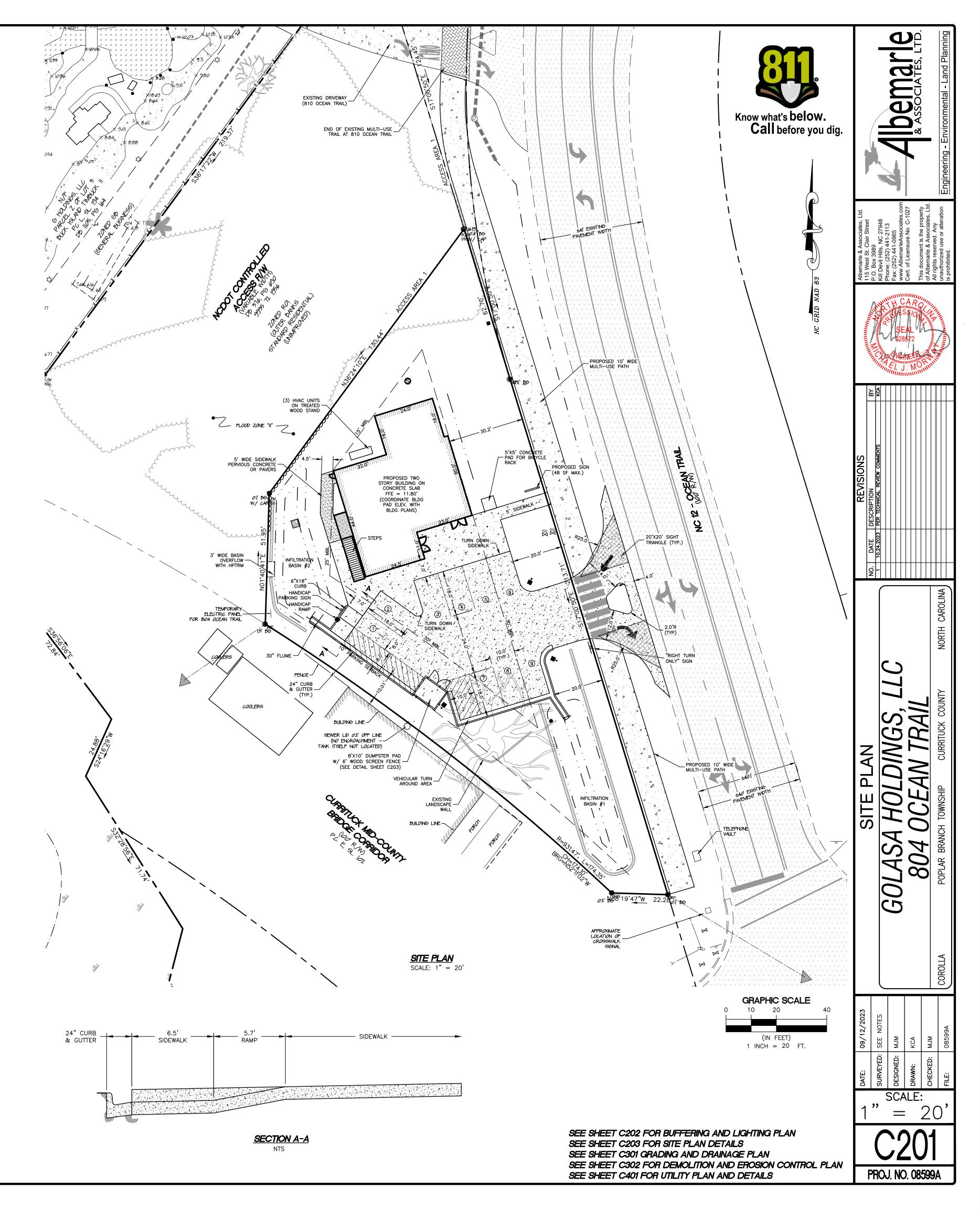
PRELIMINARY ONLY NOT FOR CONSTRUCTION

<u>LEGEND</u>

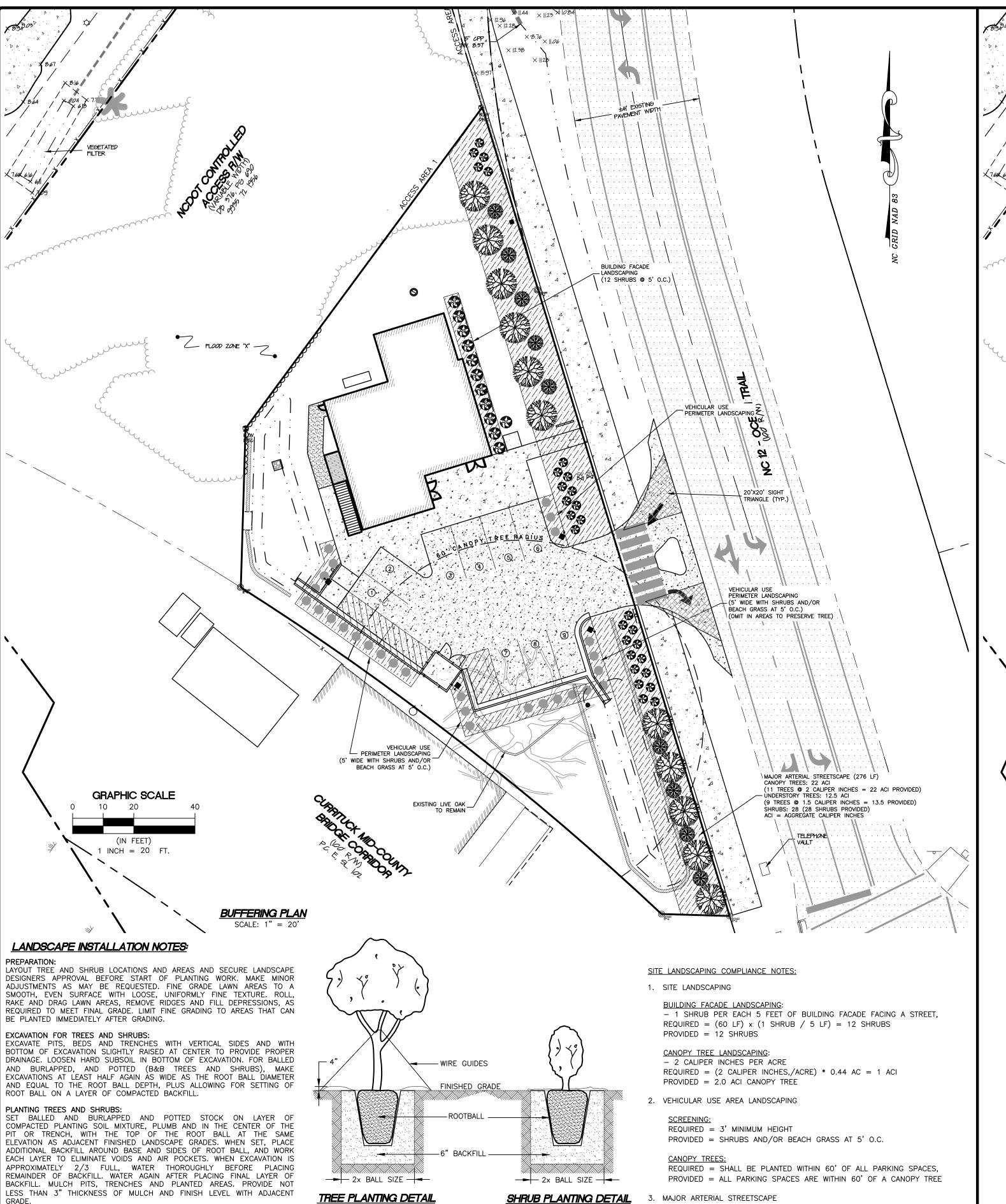
	IRON ROD FOUND		PROPOSED DRAINAGE PIPE
O _{PKF}	PK NAIL FOUND	 · ·	PROPOSED DITCH/SWALE
	RIGHT OF WAY	•	PROPOSED DRAIN BASIN
	PROPERTY BOUNDARY	6	EXISTING SANITARY STRUCTURE
D	EXISTING POWER POLE	S V	EXISTING SANITARY VALVE
-<	EXISTING GUY WIRE	©	PROPOSED SANITARY STRUCTURE
	OVERHEAD ELECTRIC	—— ss ——	PROPOSED SANITARY SEWER
USE	UNDERGROUND ELECTRIC	—— FM ———	EXISTING FORCEMAIN
— т—	UNDERGROUND TELEPHONE LINE	n	EXISTING FIRE HYDRANT
—— FOC ——	EXISTING COMMUNICATIONS LINE		EXISTING WATER METER
①	EXISTING TELEPHONE PEDESTAL	\bowtie	EXISTING WATER VALVE
(Ē)	EXISTING FIBER OPTIC REFERENCE		PROPOSED WATER METER
•=	PROPOSED LIGHT POLES	—— w ——	EXISTING WATERLINE
	EXISTING CONTOURS	—— W ——	PROPOSED WATERLINE
——10 ——— . \A.67	PROPOSED CONTOURS EXISTING SPOT ELEVATIONS		EXISTING GRAVEL
14.67	PROPOSED SPOT ELEVATIONS EXISTING TREELINE	4 4 4 4	EXISTING CONCRETE
	PROPOSED TREELINE		EXISTING ASPHALT PAVEMENT
x	EXISTING FENCE		PROPOSED CONCRETE
x	PROPOSED FENCE		
فر	HANDICAP PARKING	SF	SILT FENCE
	SIGNACE		LIMITS OF DISTURBANCE

PARKING LOT TRAFFIC FLOW

PAVEMENT MARKINGS



K:\Active Projects\08599 — Parcel Y, Timbuck II\08599B — Site Plan\Cadd Files\08599A — Site Plan.dwg, 10/25/2023 4:09:32 PM, ALBEMARLE & ASSOCIATES, LTD. C-1027



PIT OR TRENCH, WITH THE TOP OF THE ROOT BALL AT THE SAME ELEVATION AS ADJACENT FINISHED LANDSCAPE GRADES. WHEN SET, PLACE EACH LAYER TO ELIMINATE VOIDS AND AIR POCKETS. WHEN EXCAVATION IS LESS THAN 3" THICKNESS OF MULCH AND FINISH LEVEL WITH ADJACENT

SEEDING NEW LAWNS: DO NOT USE WET SEED OR SEED WHICH IS SLIGHTLY MOLDY OR OTHERWISE DAMAGED IN TRANSIT OR STORAGE. SOW SEED USING A DROP SPREADER OR SEEDING MACHINE. DO NOT SEED WHEN WIND VELOCITY EXCEEDS 5 MPH UNLESS USING A DROP SPREADER. DISTRIBUTE SEED EVENLY OVER ENTIRE AREA BY SOWING EQUAL QUANTITIES IN 2 DIRECTIONS AT RIGHT ANGLES TO EACH OTHER. SOW NOT LESS THAN THE QUANTITY OF SEED SPECIFIED OR SCHEDULED BY THE SEED MANUFACTURER OR SUPPLIER FOR THE TYPE OF SEED BEING SOWED. RAKE SEED LIGHTLY INTO TOP 1/8" OF SOIL, ROLL LIGHTLY AND WATER WITH A FINE SPRAY. LAY TURF STARTING IN THE CENTER AND WORKING TOWARDS THE SIDES. TURF SHALL BE LAID PARALLEL TO THE LONGEST EDGE OF FINISHED AREA AND SHALL BE LAID WITH STAGGERED SEAMS. EDGE TURF AFTER INSTALLATION IS COMPLETED. WATER THOROUGHLY.

DURING LANDSCAPE WORK, KEEP PAVEMENTS CLEAN AND WORK AREA IN AN ORDERLY CONDITION. PROTECT LANDSCAPE WORK AND MATERIALS FROM DAMAGE DUE TO LANDSCAPE OPERATIONS, OPERATIONS BY OTHER CONTRACTORS AND TRADES AND TRESPASSERS. MAINTAIN PROTECTION DURING INSTALLATION AND MAINTENANCE PERIODS. TREAT, REPAIR OR REPLACE DAMAGED LANDSCAPE WORK AS DIRECTED.

MAJOR ARTERIAL STREETSCAPE

SHRUB PLANTING DETAIL

SHRUBS (BUILDING FACADE)
COASTAL AZALEA (Rhododendron Atlanticum)

JAPANESE PITTOSPORUM (Pittosporum Tobira)

COASTAL AZALEA (Rhododendron Atlanticum)

INDIAN HAWTHORN (Rhaphiolepis Indica)

SHRUBS (VEHICULAR USE AREA)

UNDERSTORY TREES

RED MAPLE (Acer Rebrum)

RIVER BIRCH (Betula Nigra)

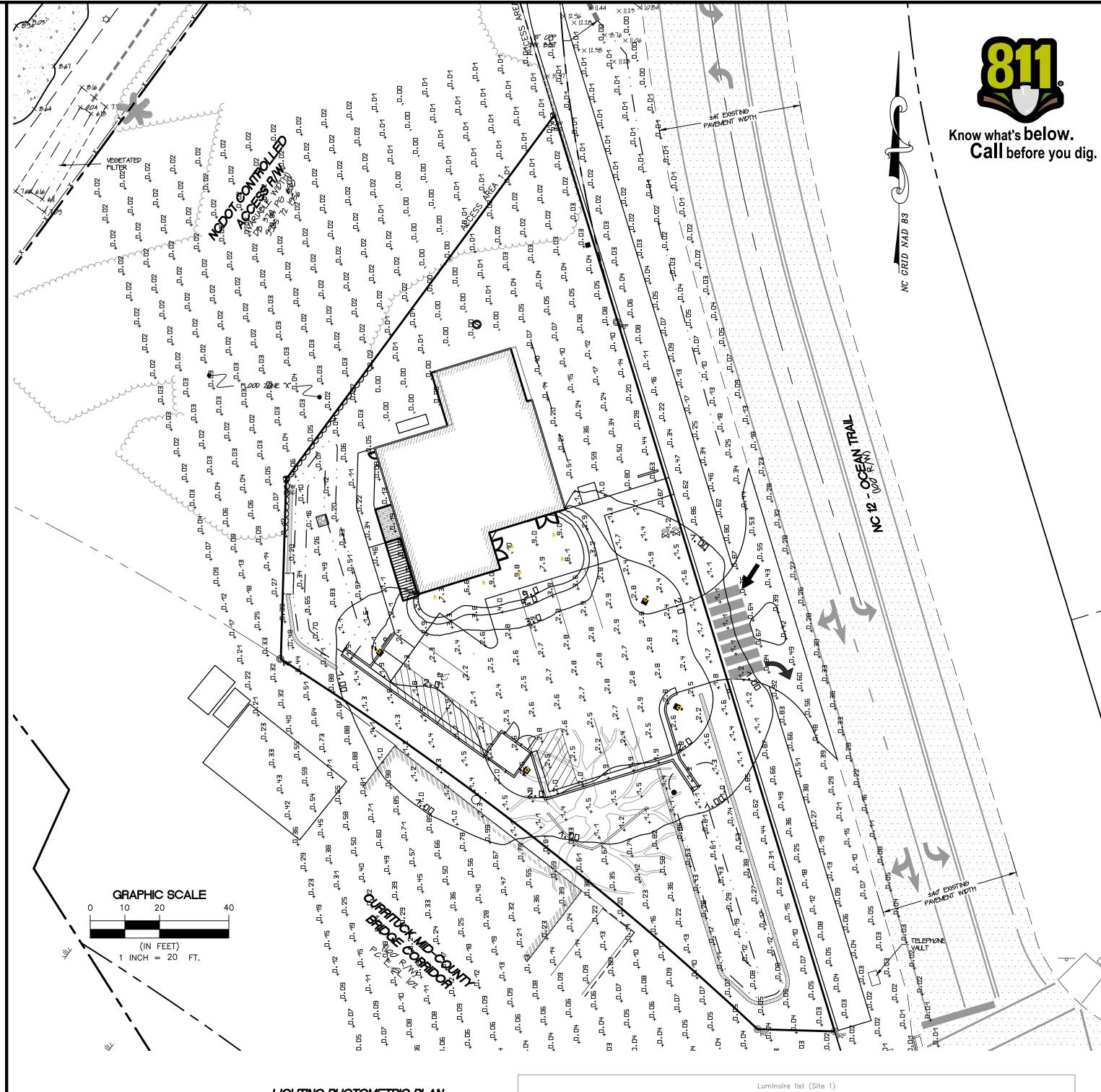
CANOPY TREES

- 8 AGGREGATE CALIPER INCHES CANOPY TREES / 100 FT REQUIRED = $(276 \text{ LF}) \times (8 \text{ ACI} / 100 \text{ LF}) = 22 \text{ ACI}$ PROVIDED = 11 TREES OF 2.0 CALIPER INCHES = 22 ACI

- 4.5 AGGREGATE CALIPER INCHES UNDERSTORY TREES / 100 FT REQUIRED = $(276 \text{ LF}) \times (4.5 \text{ ACI} / 100 \text{ LF}) = 12.5 \text{ ACI}$ PROVIDED = 10 TREES OF 1.5 CALIPER INCHES = 15 ACI

- 10 SHRUBS / 100 LF REQUIRED = $(276 \text{ LF}) \times (10 \text{ SHRUBS}/100 \text{ LF}) = 28 \text{ SHRUBS}$ PROVIDED = 28 SHRUBS

- 4. SHRUBS SHALL BE 3 GALLON CONTAINERS AND 36" IN HEIGHT WITHIN 3 YEARS OF PLANTING.
- 5. BUILDING FACADE SHRUBS SHALL BE PLANTED WITHIN 15' OF BUILDING FACADE. HALF OF BUILDING FACADE SHRUBS SHALL BE EVERGREEN.
- 6. CANOPY TREES SHALL BE 2.0" CALIPER (MINIMUM) AT TIME OF PLANTING. UNDERSTORY TREES SHALL BE 1.5" CALIPER (MINIMUM) AT TIME OF PLANTING.



LIGHTING PHOTOMETRIC PLAN

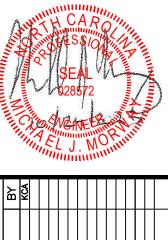
SCALE: 1" = 20'
(SPOTS SHOWN ARE FOOT CANDLES AT GROUND LEVEL)

	Luminaire list (Site 1)							
Index	Manufacturer	Article name	Item number	Fitting	Luminous flux	Light loss factor	Connected load	Quantity
1	Not yet a DIALux member	Autobahn Small P203 Package Roadway Type IV 3000K 60W	ATB0 P203 R4 3K 60W	1x	8318 lm	0.80	60 W	4
2	Not yet a DIALux member	SMALL SURFACE MOUNT CANOPY FIXTURE WITH DIFFUSE LENS, (1) 5000K LED MODULE WITH (14) LEDS PER MODULE AND (1) INVENTRONICS ELECTRONIC DRIVER	SSCLED101017X 5XDIMXXFRRXWB LD	1x X1-5000K LED MODULE	1462 lm	0.80	16.1 W	6

#	Name	Parameter	Min	Max	Average	Mean/Min	Max/Min
1	Overall Site	Perpendicular illuminance (Adaptive)	0.000 fc	11.3 fc	0.60 fc	-	_
		Luminance (Adaptive)	0.000 cd/m²	7.73 cd/m²	0.41 cd/m²	_	_

PRELIMINARY ONLY NOT FOR CONSTRUCTION

 ∞ SCALE:

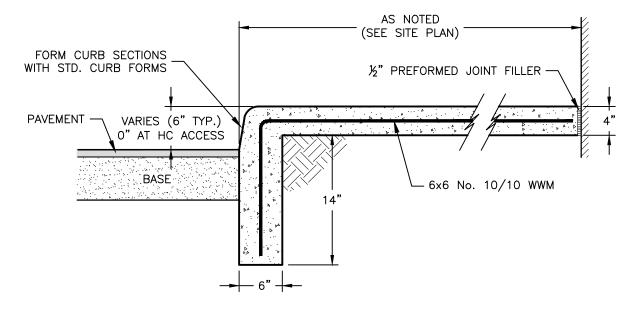


TING

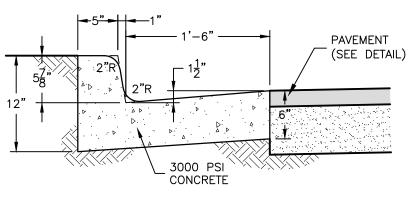
BUFFERING

PROJ. NO. 08599A

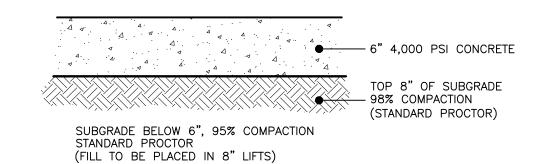
STANDARD PARKWAY CURB



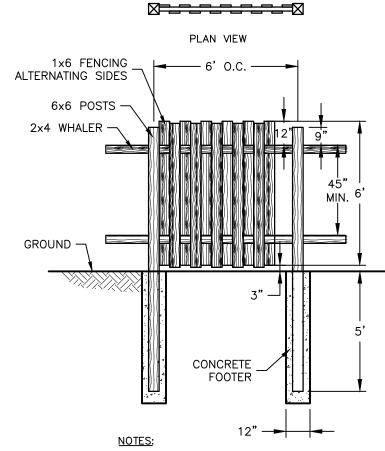
TURN DOWN SIDEWALK



STANDARD CURB AND GUTTER



CONCRETE PAVEMENT NTS

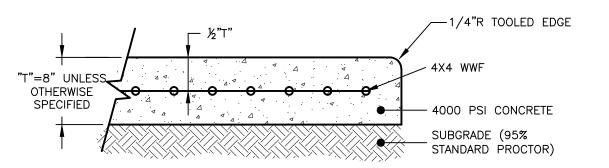


1. ALL FENCE LUMBER TO BE CCA TREATED (APPROVED FOR GROUND CONTACT)

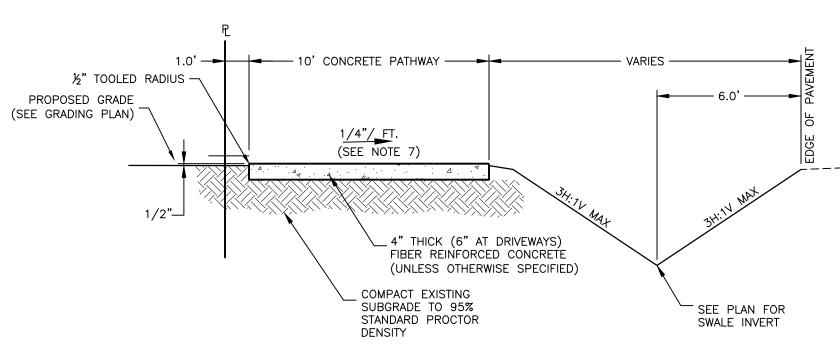
2. ALL FASTNERS, HINGES, LATCHES OR OTHER HARDWARE TO BE HOT DIPPED GALVANIZED.

3. 2" x 4" DIAGONAL BRACING TO BE PROVIDED AT FENCE CORNERS.

SCREENED FENCE DETAIL



CONCRETE DUMPSTER PAD DETAIL



1. ALL CONCRETE SHALL BE 3,000 PSI, 4" THICK, UNLESS NOTED OTHERWISE. DRIVE APRONS AND PATHWAY AT DRIVEWAYS SHALL BE 6" THICK CONCRETE SHALL BE PREPARED IN ACCORDANCE WITH ACI 211.1, ACI 301 AND ASTM C94.

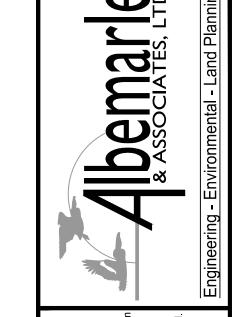
2. CONTROL JOINTS SHALL BE PLACED PERPENDICULAR TO THE EDGE OF PAVEMENT AT 5' SPACING. CONTROL JOINTS SHALL BE SAWED. 3. EXPANSION JOINTS SHALL BE PLACED AT THE END OF EACH SECTION OF CONSTRUCTION INCLUDING THE LOCATIONS THAT PAVEMENT ABUTS EXISTING PAVEMENT AND AT 30' INTERVALS. EXPANSION JOINT MATERIAL SHALL BE 1/2" THICK AND CONFORM TO ASTM D 1751.

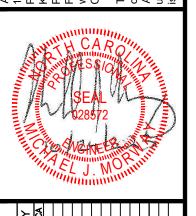
4. LONGITUDINAL SLOPE SHALL NOT EXCEED 5%. 5. A BROOMED SURFACE FINISH SHALL BE PROVIDED UNLESS OTHERWISE APPROVED BY THE OWNER.
6. TESTING SHALL BE PROVIDED BY THE CONTRACTOR.

7. REFER TO PLANS FOR SLOPE DIRECTION.

CONCRETE SIDEWALK DETAIL

PRELIMINARY ONLY NOT FOR CONSTRUCTION





HANDICAPPED PARKING SIGN DETAIL

"VAN ACCESSIBLE" WHERE APPLICABLE

1'-0"x1'-6"x.080" ALUMINUM HANDICAP

"MAXIMUM PENALTY \$250" & _ REFERENCE TO GS 20-37.6

4"x4" STYP POST

CORNER RADIUS: 1-1/2" (TYPICAL)

PARKING SIGN. SIGN TO READ "RESERVED PARKING" WITH

AND WASHERS.

BE IDENTIFIED BY ABOVEGROUND SIGNS ONLY (SEE

PATH GOES BY, UNDER, OR AROUND SIGN. 6. STANDARD SIGN COLORS: BACKGROUND - WHITE,

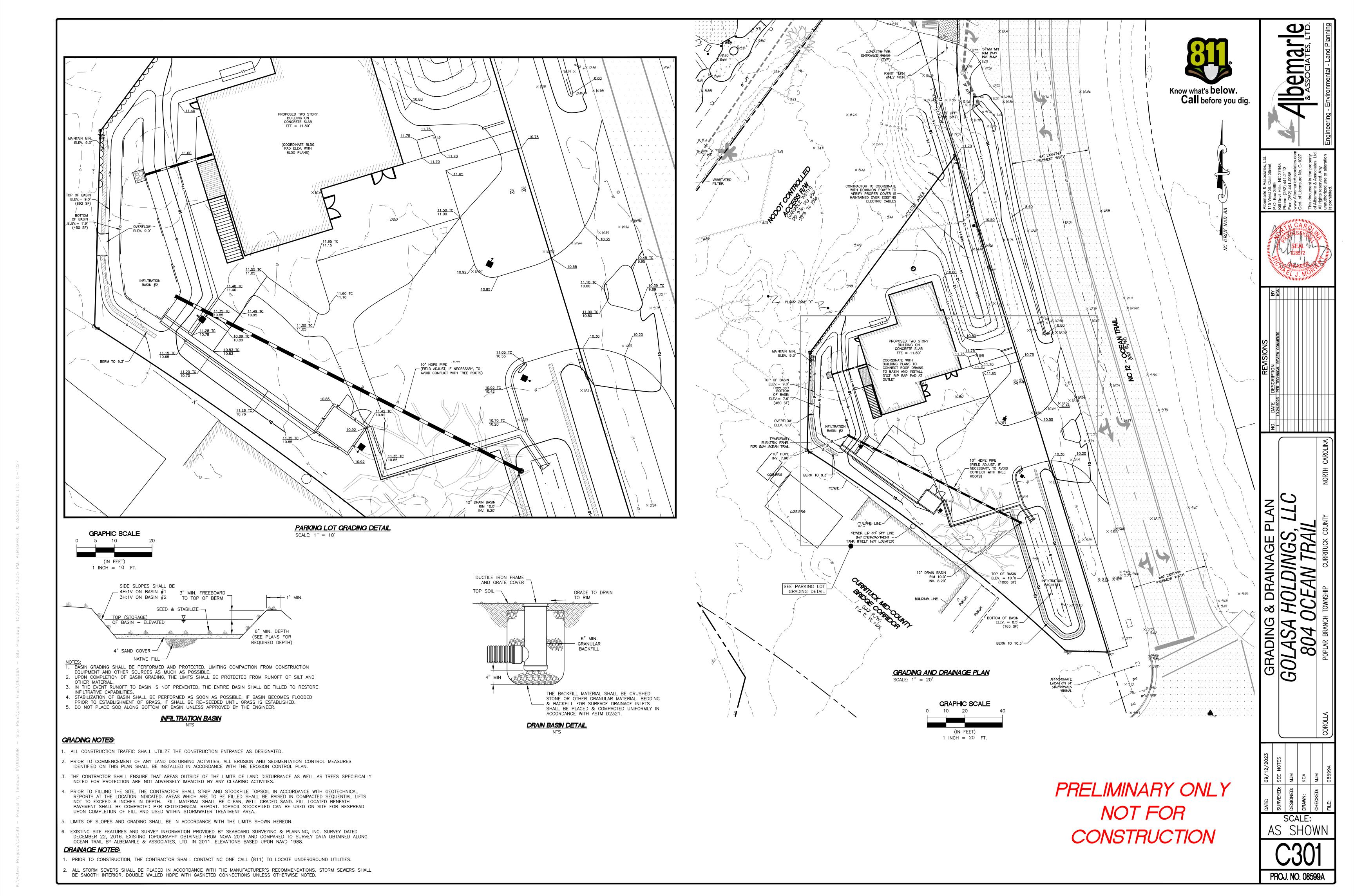
LETTERING/BORDER — GREEN, FIGURE — WHITE ON BLUE FIELD.

IDENTIFICATION SYMBOL, BOLTED TO SIDE OF BUILDING OR WOOD POST WITH 3/8" CADMIUM PLATED BOLTS, NUTS

18"x24" ALUMINUM SIGN "ONE WAY" BOLTED WITH (2) %" CADMIUM PLATED BOLTS, NUTS AND WASHERS WOOD POST 1. REGARDLESS OF AGE, ALL ACCESSIBLE SPACES SHALL 2. NEW SPACES SHALL NOT USE GROUND-PAINTED 3. ACCESSIBLE SPACES ARE REQUIRED TO BE STRIPED OFF ONLY; BLUE COLORING IS NOT NECESSARY NOT REQUIRED. 4. STRIPING IS WHITE ON DARK PAVEMENT; BLACK ON LIGHT PAVEMENT. (N.C.D.O.T.)

5. CONDITION 1: PEDESTRIAN PATH DOES NOT PASS UNDER OR AROUND SIGN. CONDITION 2: PEDESTRIAN LEGEND BACKGROUND - WHITE (RETROREFLECTIVE)

"RIGHT TURN ONLY" SIGN DETAIL



I. NARRATIVE:

GOLASA HOLDINGS, LLC INTENDS TO CONSTRUCT A TWO STORY STRUCTURE WITH RETAIL SPACE BELOW AND (2) APARTMENTS ABOVE. THE CONSTRUCTION WILL INCLUDE NEW DRIVEWAY AND PARKING AREA, STORMWATER MANAGEMENT BASINS, UTILITY CONNECTIONS AND OTHER SITE IMPROVEMENTS. THE SITE IS LOCATED ON 0.45 ACRES LOCATED AY 804 OCEAN TRAIL IN COROLLA, NC. APPROXIMATELY 0.50 ACRES OF THE SITE ARE TO BE DISTURBED. CONSTRUCTION IS SCHEDULED TO BEGIN IN THE FALL OF 2023.

THE SITE IS LEVEL SANDY SOILS. MUCH OF THE SITE IS CURRENTLY COVERED IN GRAVEL AS WELL AS DECKING AND A SMALL STRUCTURE THAT REMAIN.

DISTURBED AREAS ARE TO BE STABILIZED WITH TEMPORARY/PERMANENT VEGETATION ACCORDING TO THE SEQUENCE OF CONSTRUCTION.

II. SOILS DESCRIPTION:

SOIL TYPES AS MAPPED IN THE SOIL SURVEY OF (COUNTY) COUNTY:

NEWHAN-COROLLA COMPLEX (NhC) OUSIER FINE (Os)

III. CONSTRUCTION SEQUENCE:

 OBTAIN SITE PLAN APPROVAL OBTAIN ALL NECESSARY ENVIRONMENTAL PERMITS

 FLAG OR STAKE WORK LIMITS HOLD PRE—CONSTRUCTION MEETING

PHASE ONE:

INSTALL SILT FENCING

 UTILIZE EXISTING DRIVEWAY AS INITIAL CONSTRUCTION ENTRANCE. MAINTAIN DRIVEWAY IN SWEPT CONDITION SO PREVENT SOIL FROM BEING TRACKED ONTO THE ROADWAY.

• INSTALL TREE PROTECTION AT LIVE OAK. CLEAR LOT OF EXISTING VEGETATION AS SHOWN

 PLACE FILL MATERIALS AND ROUGH GRADE NEW STORMWATER BASINS COMMENCE CONSTRUCTION OF NEW STRUCTURE AND SEWAGE PUMP STATION.

 CONSTRUCT NEW PAVEMENT CLEANOUT SEDIMENT OUT IF STORMWATER BASINS AND FINE GRADE SEED, FERTILIZE AND WATER DISTURBED AREA TO STABILIZE

IV. SEDIMENTATION AND EROSION CONTROL NOTES:

1. PRECONSTRUCTION CONFERENCE: PRIOR TO ANY LAND DISTURBING ACTIVITIES, THE CONTRACTOR SHALL WALK THE SITE WITH THE OWNER'S REPRESENTATIVE AND A REPRESENTATIVE OF THE MUNICIPALITY (IF REQUIRED) IN ORDER TO IDENTIFY AND MARK SPECIFIC ELEMENTS WHICH ARE TO BE PROTECTED. TREES SHALL BE PROTECTED IN ACCORDANCE WITH THE NORTH CAROLINA EROSION AND SEDIMENTATION CONTROL

2. INSTALLATION OF EROSION CONTROL MEASURES: PRIOR TO COMMENCEMENT OF ANY LAND DISTURBING ACTIVITIES, ALL EROSION AND SEDIMENTATION CONTROL MEASURES IDENTIFIED ON THIS PLAN SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT PLANS AND SPECIFICATIONS AND ALL PERMIT CONDITIONS.

PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION, THE CONTRACTOR SHALL HAVE THE APPROPRIATE UNDERGROUND UTILITIES LOCATED. CONTACT NC811 AT 811 OR 800-632-4949. UTILITIES SHOWN ARE TAKEN FROM EXISTING RECORDS, FIELD OBSERVATIONS AND/OR UTILITY LOCATING SERVICE AND ARE NOT GUARANTEED TO BE ACCURATE OR COMPLETE.

ALL CONSTRUCTION TRAFFIC SHALL UTILIZE THE CONSTRUCTION ENTRANCE AS DESIGNATED ON THIS PLAN.

5. LIMITS OF DISTURBANCE: THE CONTRACTOR SHALL ENSURE THAT AREAS OUTSIDE OF THE LIMITS OF LAND DISTURBING AS WELL AS EXISTING IMPROVEMENTS SPECIFICALLY NOTED TO REMAIN ARE NOT ADVERSELY IMPACTED BY ANY CLEARING ACTIVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND/OR REPLACEMENT OF ITEMS DAMAGED OUTSIDE THE LIMITS OF DISTURBANCE OR OTHERWISE NOTED TO

EXPOSED SWALES. DITCHES, DIKES OR OTHER SLOPES STEEPER THAT 3(H):1(V) SHALL BE STABILIZED WITH A TEMPORARY OR PERMANENT GROUND COVER WITHIN 7 CALENDAR DAYS. ALL OTHER EXPOSED EARTHEN AREAS SHALL BE STABILIZED WITH A TEMPORARY OR PERMANENT GROUND COVER WITHIN 14 CALENDAR DAYS OF THE COMPLETION OF ANY PHASE OF GRADING.

INSPECTIONS REQUIRED:

SOIL EROSION AND SEDIMENTATION CONTROLS SHALL BE INSPECTED, MAINTAINED AND REPAIRED AS NECESSARY BY THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN COMPLETED SELF-INSPECTION / MONITORING FORMS (COMPLETED WEEKLY WITH DAILY RAINFALL TOTALS) THROUGHOUT THE PROJECT. THE SITE SHALL ALSO BE INSPECTED AFTER ANY RAINFALL EVENT EQUAL OR GREATER THAN 0.5 INCHES OVER A 24 HOUR PERIOD.

8. CORRECTIVE MEASURES: ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT

CONSTRUCTION UNTIL WORK IS COMPLETE AND ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED. IF EXCESSIVE WIND EROSION OR STORM WATER RUNOFF DEVELOPS DURING TIME OF CONSTRUCTION IN ANY LOCATION ON THE PROJECT SITE, ADDITIONAL SAND OR SILT FENCE SHALL BE INSTALLED AS DIRECTED BY ENGINEER, SEE SAND OR SILT FENCE DETAIL.

9. DEBRIS REMOVAL:

ALL CLEARING DEBRIS SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF IN A LAWFUL MANNER. NO BURNING OF DEBRIS ON SITE IS PERMITTED. NO ON-SITE BURNING IS PERMITTED UNLESS OTHERWISE APPROVED BY THE LOCAL FIRE MARSHALL, MUNICIPAL AGENCY OF JURISDICTION AND THE

10. EXCAVATION AND EMBANKMENT:

ANY OFF-SITE MATERIAL BROUGHT ONTO TO THE SITE TO BE USED FOR GRADING FILL SHALL BE OBTAINED FROM A PERMITTED BORROW PIT. FILL SHALL CONFORM TO PROJECT SPECIFICATIONS AND GEOTECHNICAL REPORT. NO BORROW IS PERMITTED FROM THE SITE.

11. EXISTING INFORMATION: EXISTING SITE FEATURES AND SURVEY INFORMATION PROVIDED BY SEABOARD SURVEYING & PLANNING, INC. SURVEY DATED DECEMBER 22, 2016. EXISTING TOPOGRAPHY OBTAINED FROM NOAA 2019 AND COMPARED TO SURVEY DATA OBTAINED ALONG OCEAN TRAIL BY ALBEMARLE & ASSOCIATES, LTD. IN 2011. ELEVATIONS BASED UPON NAVD 1988.

V. DEMOLITION NOTES

ALL EXISTING IMPROVEMENTS SHOWN WITHIN THE LIMITS OF DISTURBANCE SHALL BE REMOVED UNLESS SPECIFICALLY NOTED TO REMAIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER DISPOSAL TO AN OFFSITE LOCATION PROVIDED BY THE

CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO CAREFULLY REMOVE ALL ITEMS SHOWN TO BE RELOCATED. PRIOR TO REMOVAL, ANY CONDITIONS THAT PREVENT SUCH REMOVAL OR EXISTING DAMAGE TO THE ITEMS SHALL BE REPORTED TO THE OWNER IMMEDIATELY. CONTRACTOR WILL BE RESPONSIBLE FOR ITEMS DAMAGED DURING THE

WARNING:

LOCATION OF EXISTING UNDERGROUND UTILITIES SHOWN HAS BEEN TAKEN FROM RECORD DRAWINGS. EXACT LOCATION OF THESE UTILITIES IS UNKNOWN. LOCATION OF OTHER UNDERGROUND UTILITIES IS UNKNOWN AND HAS NOT BEEN SHOWN ON THESE DRAWINGS. ALL UNDERGROUND UTILITIES ENCOUNTERED SHALL IMMEDIATELY BE REPORTED TO THE

SEEDING SCHEDULE

APRIL 1 - MAY 15: PERMANENT SEEDING SPECIES

K-31 FESCUE 3 LB/1000 SF

COMMON BERMUDAGRASS 1 LB/1000 SF WINTER RYE GRAIN 3 LB/1000 SF NOTE: DELETE RYE GRAIN IF OVERSEEDING ESTABLISHED RYE OR FESCUE

MAY 15 - JULY 16; PERMANENT SEEDING

SPECIES

K-31 FESCUE 3 LB/1000 SF COMMON BERMUDAGRASS 1 LB/1000 SF GERMAN MILLET 3 LB/1000 SF

NOTE: DELETE MILLET IF OVERSEEDING ESTABLISHED MILLET OR FESCUE DELETE FESCUE IF OVERSEEDING ESTABLISHED FESCUE.

DELETE FESCUE IF OVERSEEDING ESTABLISHED FESCUE.

<u> AUGUST 15 - APRIL 1; TEMPORARY SEEDING</u> SPECIES

LB PER ACRE OF 10-10-10 FERTILIZER.

K-31 FESCUE 3 LB/1000 SF

WINTER RYE GRAIN 5 LB/1000 SF

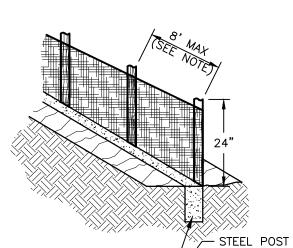
SOIL AMENDMENTS APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY 500

USE JUTE, EXCELSIOR MATTING OR OTHER EFFECTIVE CHANNEL LINING MATERIAL TO COVER BOTTOM AND SIDES OF SWALES. ANCHOR MATTING PER MANUFACTURERS RECOMMENDATIONS. HYDROSEEDING IS ALSO AN ACCEPTABLE METHOD OF TEMPORARY STABILIZATION.

<u>MAINTENANCE</u>

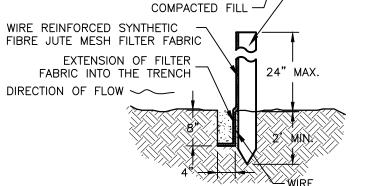
A MINIMUM OF 3 WEEKS IS REQUIRED TO FOR ESTABLISHMENT. INSPECT AND REPAIR MULCH FREQUENTLY, FERTILIZE THE FOLLOWING SPRING WITH 50 LB/ ACRE NITROGEN.

SITE STABILIZATION REQUIREMENTS						
SITE AREA DESCRIPTION	STABILIZATION TIME FRAME	STABILIZATION TIME FRAME EXCEPTIONS				
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE				
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE				
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED				
SLOPES 3:1 OR FLATTER	14 DAYS	7-DAYS FOR SLOPES GREATER THAN 50 FEET IN LENGTH				
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE (EXCEPT FOR PERIMETER AND HQW ZONES)				

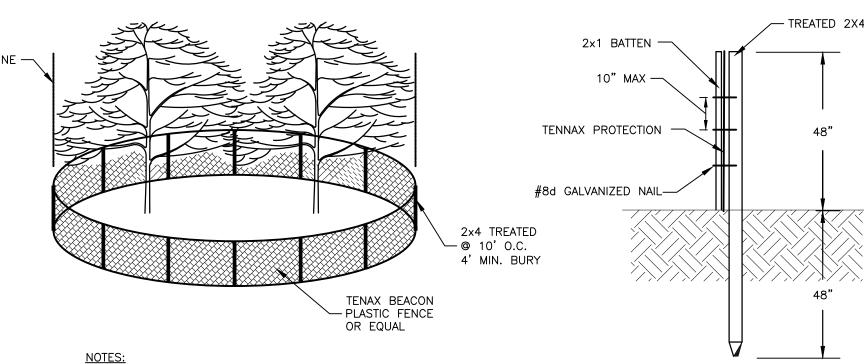


NOTES: 1. 6' POST SPACING FOR NON-WIRE REINFORCED FENCE. 8' POST SPACING PERMITTED IF FENCE CONTAINS REINFORCING 4' MINIMUM OVERLAP REQUIRED (ATTACHED AT

POSTS) WHEN JOINING SECTIÓNS OF SILT FENCE. SILT FENCE SHALL BE ATTACHED TO STEEL POSTS USING A MINIMUM OF 3 WIRE OR PLASTIC TIES.



SILT FENCE DETAIL



NOTES:

1. IN SPITE OF PRECAUTIONS, SOME DAMAGE TO PROTECTED TREES MAY OCCUR. IN SUCH CASES, REPAIR ANY DAMAGE TO THE CROWN, TRUNK OR ROOT SYSTEM IMMEDIATELY. 2. REPAIR ROOTS BY COVERING DAMAGED ROOTS WITH MOIST

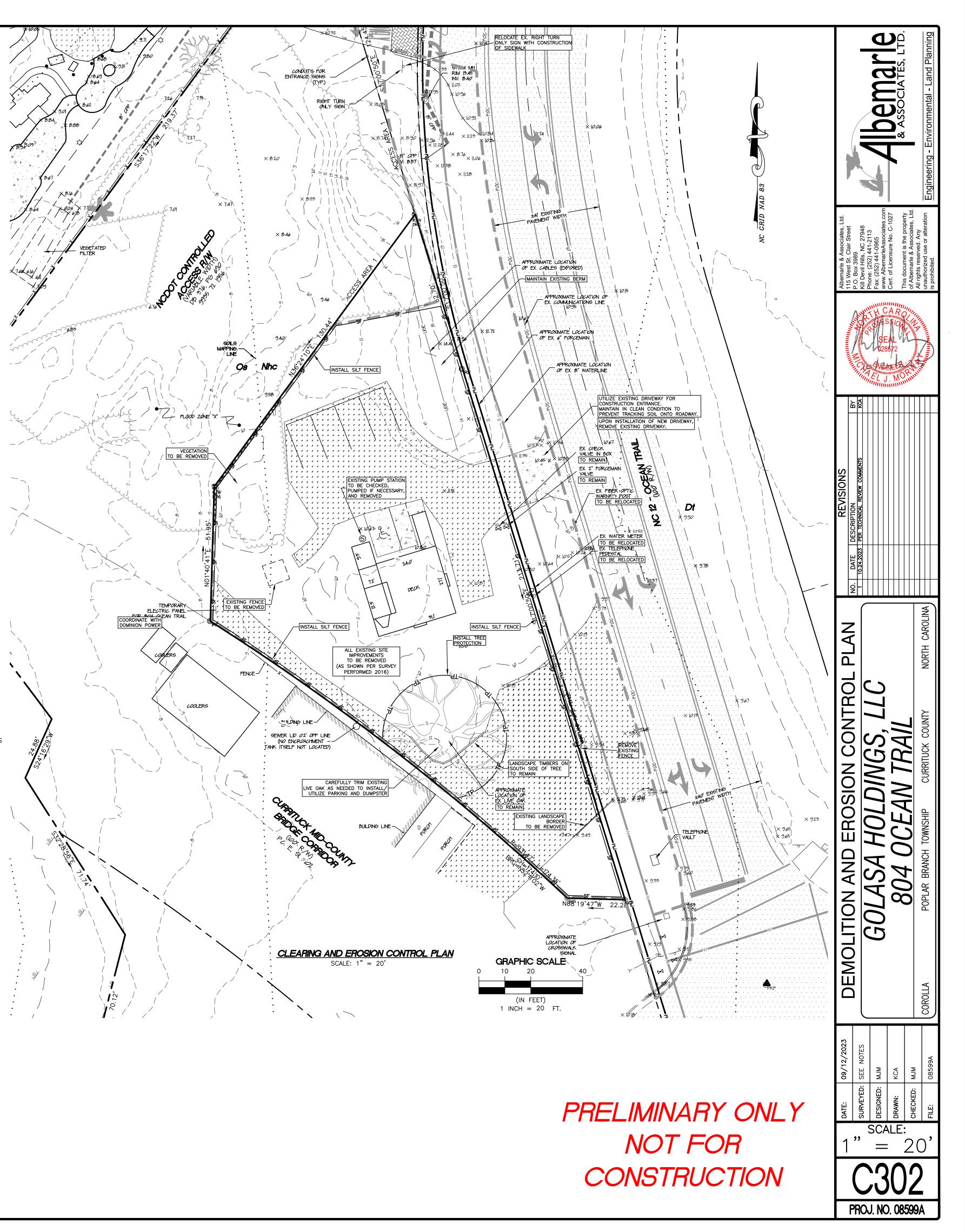
3. REPAIR DAMAGE TO BARK BY TRIMMING AROUND THE DAMAGED AREAS. TAPER THE CUT TO PROVIDE DRAINAGE, AND PAINT WITH TREE PAINT. 4. CUT OFF ALL DAMAGED TREE LIMBS ABOVE THE TREE COLLAR AT THE TRUNK OR MAIN BRANCH. USE THREE SEPARATE

TREE PROTECTION DETAIL

5. BARRIER SHOULD BE INSTALLED OUTSIDE THE DRIP LINE OF TREE BRANCHES AS FAR AS PRACTICAL.

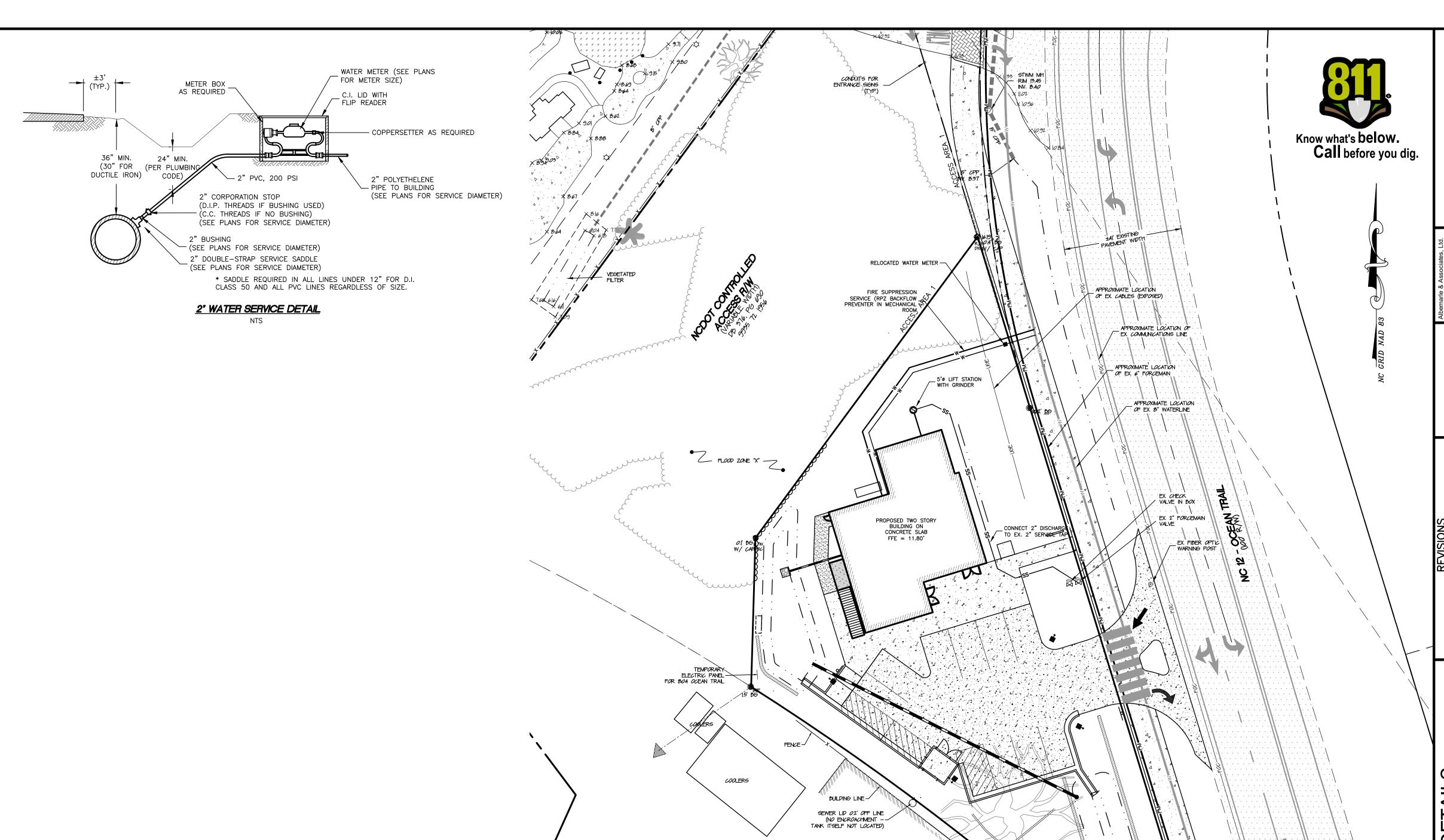
CUTS TO AVOID PEELING BARK FROM HEALTHY AREAS OF THE TREE.

TOPSOIL OVER EXPOSED ROOTS.



WASTEWATER PUMP STATION NOTES:

- THE LIFT STATION IS DESIGNED TO SERVE 804 OCEAN TRAIL. THE LIFT STATION IS DESIGNED TO SERVE 2,474 SF PF RETAIL SPACE AND TWO (2—BEDROOM) APARTMENTS WITH AN AVERAGE DAILY FLOW OF X,XXX GPD. THE SYSTEM WILL BE INSTALLED BY GOLASA HOLDINGS, LLC. UPON ACCEPTANCE, THE SYSTEM WILL BE OWNED AND OPERATED BY THE CAROLINA WATER SERVICE, INC.
- 2. ALL COMPONENTS OF THE SYSTEM SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH THE CONTRACT DRAWINGS, SPECIFICATIONS AND SECTION 15 NCAC.02T CURRENT EDITION.
- 3. THE CONTRACTOR SHALL SUBMIT A LIST OF MATERIALS FOR APPROVAL TO THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 4. ROUTINE INSPECTIONS DURING CONSTRUCTION WILL BE PROVIDED BY THE ENGINEER AND UTILITY COMPANY. THESE INSPECTIONS DO NOT RELIEVE THE CONTRACTOR FROM HIS OBLIGATION AND RESPONSIBILITY FOR CONSTRUCTING THE SYSTEM IN STRICT ACCORDANCE WITH THE PROJECT PLANS AND SPECIFICATIONS.
- 5. ANY FIELD CHANGES TO THE PLANS SHALL BE APPROVED BY THE ENGINEER AND CAROLINA WATER SERVICE, INC. AND SHALL BE ACCURATELY INDICATED ON THE AS—BUILT DRAWINGS.
- 6. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS AND ORDERS OF ANY AGENCY HAVING JURISDICTION. HE SHALL ERECT AND MAINTAIN, AS REQUIRED BY THE CONDITIONS AND PROGRESS OF THE WORK, ALL NECESSARY SAFEGUARDS FOR SAFETY AND PROTECTION
- 7. THE CONTRACTOR SHALL REPAIR ALL DISTURBED AREAS TO A CONDITION EQUAL TO OR BETTER THAN THOSE EXISTING PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE OWNER RESERVES THE RIGHT TO STOP WORK IF AND WHEN, IN THE SOLE OPINION OF THE OWNER, CLEANUP, RESTORATION OR PUBLIC SAFETY ARE NOT BEING PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 8. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SHALL NOTIFY NC ONE CALL IF NECESSARY.
- 9. HORIZONTAL AND VERTICAL ORIENTATION OF EXISTING UNDERGROUND UTILITIES ARE NOT GUARANTEED.
 THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO
 COMMENCEMENT OF CONSTRUCTION.
- 10. THE ALARM SHALL ACTIVATE UPON THE HIGH WATER LEVEL, POWER FAILURE, AND EACH PUMP FAILURE. THE ALARM WILL INCLUDE A TEST FUNCTION. AN INDEPENDENT FLOAT SWITCH SHALL BE PROVIDED TO ACTIVATE THE TELEMETRY SYSTEM.
- 11. ALL ALARMS, BOTH AUDIO AND VISUAL, SHALL BE PLACED TO BE VISIBLE FROM THE EXTERIOR OF THE BUILDING.
- 12. TANK DIMENSIONS SHOWN ARE BASED UPON _______. CONTRACTOR TO VERIFY SEWER INVERTS FROM BUILDING, TANK DIMENSIONS AND BOTTOM OF TANK ELEVATION BASED UPON TANK SUPPLIED. SEWER INVERTS SHALL BE MAINTAINED. ALL TANKS SHALL BE STATE APPROVED. ALL TANKS SHALL BE TESTED FOR WATER TIGHTNESS.
- 13. ALL GRAVITY SEWER BENDS 45° OR GREATER SHALL BE FITTED WITH A CLEAN-OUT.
- 14. ALL SEPTIC COMPONENTS SHALL BE LOCATED A MINIMUM OF TEN FEET FROM EXISTING AND PROPOSED WATERLINES.
- 15. THE ENGINEER AND LOCAL UTILITY REPRESENTATIVE SHALL INSPECT SYSTEM INSTALLATION.
- 16. ALL DISTURBED SOIL SHALL BE STABILIZED AS SOON AS POSSIBLE BY GRADING AND SEEDING.
- 17. THE ENGINEER OR HIS ASSIGNEE SHALL WITNESS ON—SITE TESTING. REQUIRED TESTING SHALL INCLUDE WATERTIGHT TESTING (ACI—3501R), FACTORY PUMP TESTING AND DRAWDOWN TESTING.
- 18. PRIOR TO ACCEPTANCE, THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS, O & M MANUALS AND WARRANTY INFORMATION.
- 19. BOTH THE CONTROL PANEL AND VENT OPENING SHALL BE PLACED ABOVE THE MINIMUM ELEVATION OF 10.0' ABOVE MSL.



UTILITY PLAN
SCALE: 1" = 20'

PRELIMINARY ONLY
NOT FOR
CONSTRUCTION

DATE: 09/12/2023
SURVEYED: SEE NOTES
SURVEYED: MJM
SURVEYED: MJM
CHECKED: MJM
FILE: 08599A

bemai

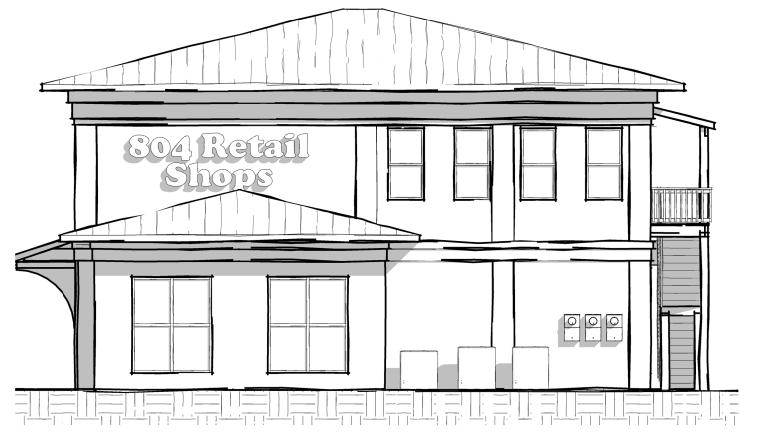
K:\Active Projects\08599 - Parcel Y, Timbuck II\08599B - Site Plan\Cadd Files\08599A - Site Plan.dwg, 10/24/2023 3:09:07 PM, ALBEMARLE & ASSOCIATES, LT



5 East Elevation 1/8" = 1'-0"



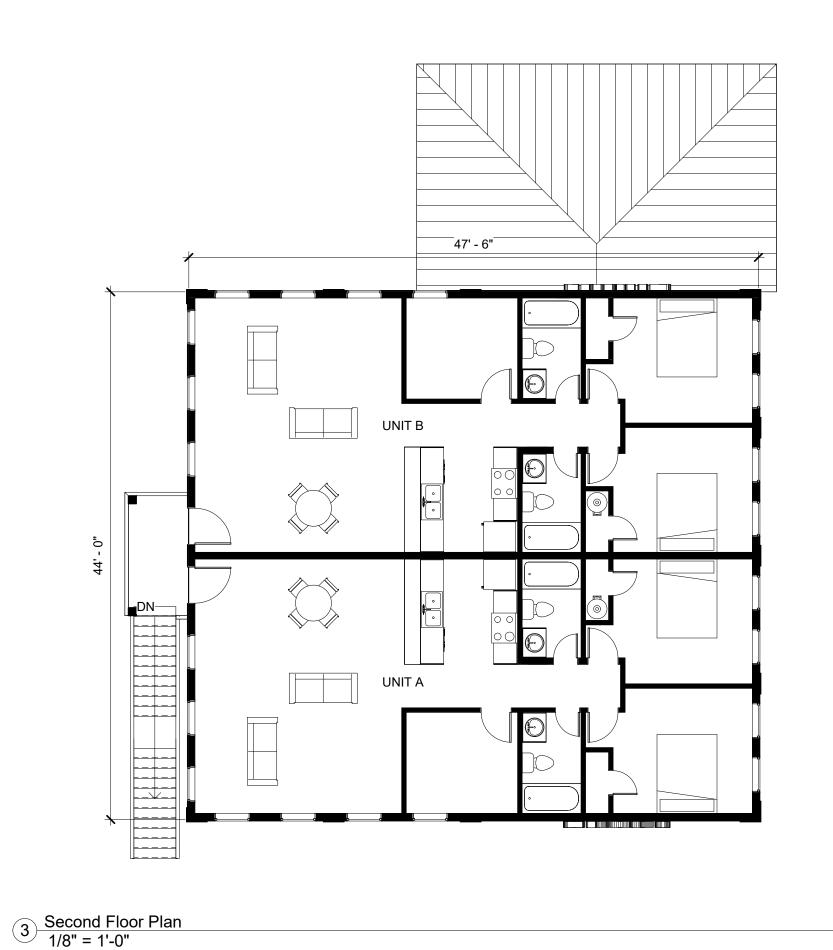
South Elevation 1/8" = 1'-0"

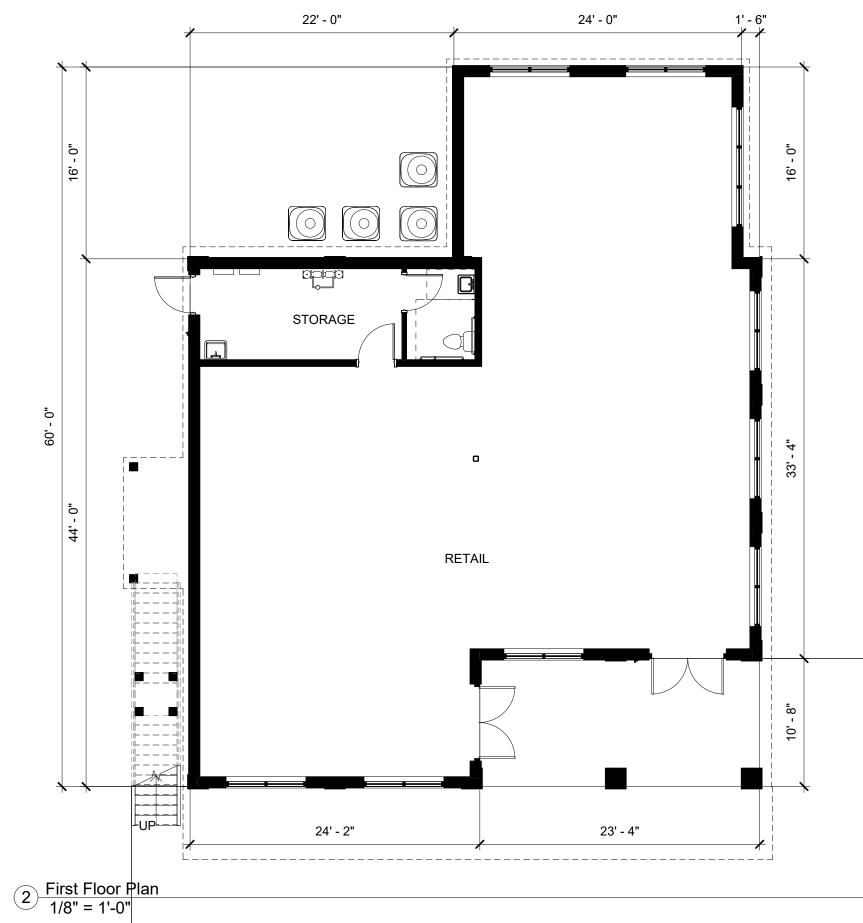


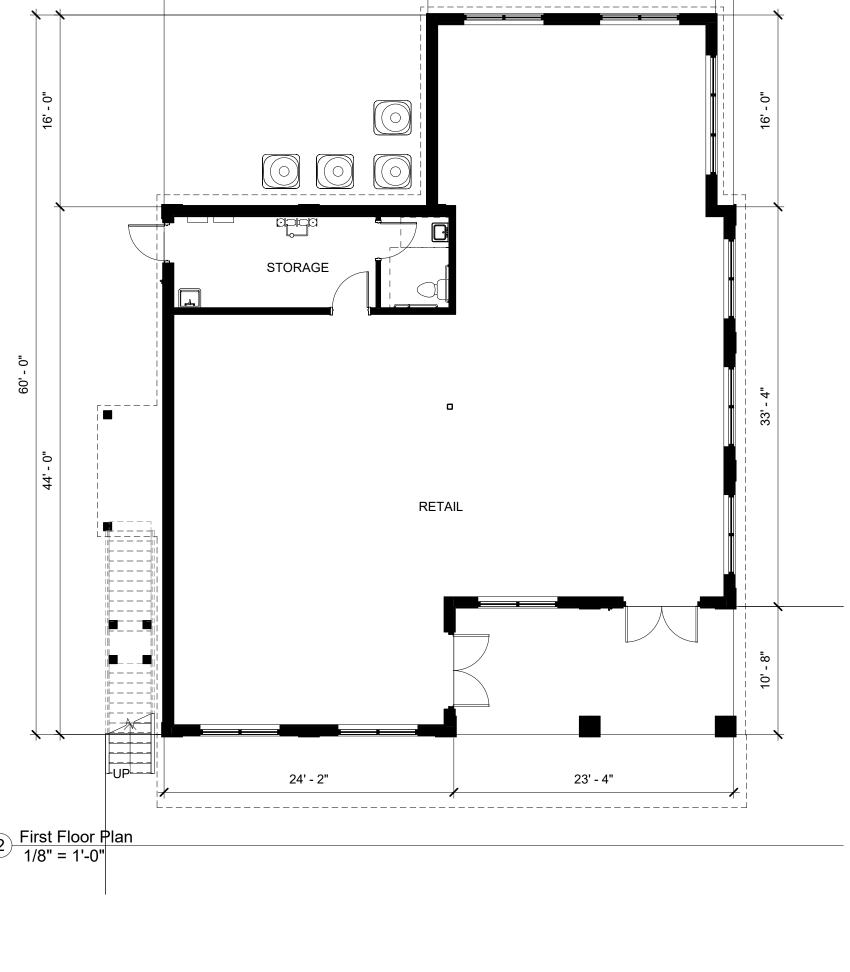
6 North Elevation 1/8" = 1'-0"



7 West Elevation 1/8" = 1'-0"









against designer by owner, contractor or others and shall in no event cause or allow a reduction in the fees otherwise due designer for services provided on the

cahoon+kasten

118 West Woodhill Drive

Nags Head, North Carolina 27959 P.252.441.0271 F.252.441.8724

Project: **804 Retail Shops**

Location: 804 Ocean Trail

Corolla, NC

Preliminary

As indicated

August 11, 2023

The designer shall not be responsible for any error, omission, defect or deficiency in the contract documents ("error") prepared by the designer or its consultants

which in any way impacts the schedule of the project, results in a lack of coordination among the contract documents, delays the completion of the project or which in any other way causes any damage or loss to the owner, contractor, subcontractors, or other entity

involved in the project, unless: (i) designer is promptly notified of such error, in any event within 14 days of the date such error was discovered or could reasonably

have been discovered; and (ii) designer is given opportunity at the time of discovery to address such error, and, if appropriate, take such steps as are

necessary to correct and resolve it. Failure to comply with the provisions of this paragraph shall constitute a waiver of any claim for damages, or a right to offset

Project No: **22084**

E. office@obxarchitects.com

Revisions: Description Date

Reviewed: Checker

4 Rendering 12" = 1'-0"





804 Ocean Trail Golasa Holdings, LLC Stormwater Management Report

June 21, 2023 (revised October 25th, 2023)

Existing Conditions: Golasa Holdings, LLC has recently purchased a 0.45 acre site in the village of Corolla in Currituck County. The site was formerly a coffee stand and contains gravel and concrete parking areas, portions of wooden deck and a small wooden structure and utility connections. There are no stormwater management areas on the site. The triangular site is bounded on all three sides by NCDOT rights-of-way. The east right-of-way (NC-12) is the only one that contained a public roadway. The southwest right-of-way contains a market with parking and storage areas. The northwest right-of-way is wooded. The Natural Resource Conservation Service Soil Survey for Currituck County has mapped the soils on the site to consist primarily of Newhan Corolla Complex and there is a trace of Osier fine sand on the western edge. The majority of the site is 10 – 12 feet above sea level (NAVD 1988). The property is within a flood zone X.

Proposed Development: Golasa Holdings, LLC intends to redevelop the site to include a 2-story structure that will contain retail space on the first floor with two apartments above. The site will contain a parking and dumpster area and stormwater management areas (infiltration basins). A sewage lift station will be provided with connection to the Carolina Water Service sewage forcemain that is located along NC-12.

Stormwater Management: Stormwater management for the project has been designed to meet the requirements of the Currituck County Stormwater Manual as a Major Stormwater Plan, which requires the storage of the increase of runoff from the site under the proposed development condition for a 5-yr / 24 hour rainfall event as compared to the runoff resulting from a 2-yr / 24-hour event area under a wooded condition. The calculations utilize the "Simple Volume Calculations for Small Sites (Under 10 Acres)" as outlined in the manual. This calculates the design storage volume to be 2,405 cf.

Runoff from the site as proposed is designed to sheet flow across parking surfaces directly to two infiltration basins located on the south and west sides of the site. Runoff from the structure, which utilizes a flat roof, will be captured and conveyed via pipe to the basins. A soil boring in the vicinity of Basin #1 (south basin) found soil mottles at an elevation of approximately 6.5' above msl, although very little wetness was found through the depth of the 5' deep boring (to elevation of 5.5' msl). Several borings were attempted in the vicinity of the west basin but resulting in the fine dry sand continually

804 Ocean Trail Stormwater Management Narrative October 25, 2023 Page 2 of 2

collapsing. Given the relative close proximity of the two basins, it can be assumed that the estimated seasonally high water table would be consistent between the two basins.

Basin #1 has been designed with a storage elevation of 10' above msl and the bottom of open basin storage is at 8.5' msl. There is a drain basin with a rim elevation of 10.0 proposed at the edge of the basin near the inlet that will provide an overflow in the event the hydraulic level in the basin exceeds the design storage elevation that will collect overflow and rout it to basin #2. Basin #2 (west basin) has been designed with a storage elevation of 9.0 above msl and the bottom of the open basin storage is at 7.9 msl. An overflow has been included along the northwest side of basin #2 that will provide an overflow in the event the hydraulic level in the basin exceeds the design storage elevation. The overflow discharges to the northwest which naturally receives runoff and allows flow to an adjacent pond. Together the basins provide a total of 2,442 cf of storage (102% of the required value).

Includes within this stormwater management report are:

- Design calculations for the runoff increase for the 0.45 acre lot as comparing the 5-yr / 24-hr event in the proposed development condition versus the runoff resulting from a 2-yr / 24-hour event in an undeveloped and wooded condition (performed in accordance with section 2.4.4 of the Currituck County Stormwater Manual).
- Design calculations for storage volume within stormwater management infiltration basins #1 & #2
- SW-003 (Rational Method Peak Flow revised 10/24/2023)
- Soils boring log
- Soils Map for the NRCS Soils Survey for Currituck County
- Tc routing sketch for pre/post developed conditions for rational method

804 OCEAN TRAIL STORMWATER MANAGEMENT CALCULATIONS DESIGN STORM

Project Name : 804 Ocean Trail

Project Area Description - Entire Project Site							
Basin Information							
Receiving Stream Name	Sanders	Bay					
Receiving Stream Class & Index Number	30-1-11	(SC)					
Drainage Area	19,378	SF					
Existing Impervious Area	0	SF					
Proposed Impervious Area	7,673	SF					
% Impervious Area (total)	39.69	%					
			_	existing (to	proposed		
Impervious Surface Area			existing	remain)	(additional)		
On-site Buildings or Lot BUA	2,349	SF	0	0	2,349		
On-site Streets	0	SF	0	0	0		
On-site Parking	4,028	SF	0	0	4,028		
On-site Sidewalks	1,192	SF	0	0	1,192		
Other on-site (HVAC & dumpster pad)	104	SF	0	0	104		
Future	0	SF	0	0	0		
Off-site	0	SF	0	0	0		
Total:	7,673	SF	0	0	7,673		

Runoff Calculations (Simple Method per Section 2.4.4 of the Currituck County Stormwater Manual)						
	Pre (2 yr - 24 hr)	Post (5 yr - 24 hr)				
Design Rainfall Event (in)	4	5				
Total Area (sf)	19,378	19,378				
Coverage	0.0%	39.6%				
CN	30	63				
S	23.33	5.87				
Q	0.0196	1.5089	inches	Runoff Depth		
Vr	0.0007	0.0559	acre-feet	Runoff Volume		
Vs	8	39.07	су	Required Storage Volume		
	2	2,405	cf			

804 OCEAN TRAIL STORMWATER MANAGEMENT CALCULATIONS INFILTRATION BASIN DESIGN

Project	804 Ocean Trail
Drainage Area	Site

<u>Infiltration Basin #1</u>						
elevation	area					
(msl)	(sf)					
10.0	1,006					
8.5	163					
	(msl)					
	(in/hr)					
20%						
877	(cf)					
_	(cf)					
020	(3.)					
#2						
elevation	area					
(msl)	(sf)					
	892					
7.9	450					
C F	/ma.al\					
	(msl)					
	(in/hr)					
2070						
738	(cf)					
298	(cf)					
	elevation (msl) 10.0 8.5 6.5 10.0 20% 877 529 #2 elevation (msl) 9.0 7.9 6.5 10.0 20% 738					

Required Storage Volume: 2,405 0

Total Open Storage Volume: 1,615
Total Intersitial Storage Volume: 827

Total Storage Volume: 2,442 102%



Rational Method Peak Flow Form SW-003

Project Inf	ormation	

Project Location: 804 Ocean Trail, Corolla, NC

Parcel Identification Number(s): 116D000003B0000

Drainage area: 0.45 ac

Average Slope: 1.3 %

Maximum Slope Length: 137 ft

Calculations

*The Rational Method may only be used where development will impact less than 10 acres

Time of Concentration (Tc)			
(Use additional sheets if necessary)		T	
	Pre-	Post-	
Sheet Flow			
Manning's roughness, n (Table 2-4)	0.1	0.013	
2-year, 24-hour Rainfall, P	4.0	4.0	in
Slope, S	0.013	0.014	ft/ft
Length of Sheet Flow, L (<=300 feet)	137	70	ft
Total Time for Sheet Flow	7.2	1.0	min
Shallow Concentrated Flow	n/a	n/a	
Surface Paved (P) or Unpaved (U)			
Length of flow, L			ft
Slope, S			ft/ft
Average Velocity, V (Table 2-3)			ft/min
Total Time for Shallow Concentrated Flow	n/a	n/a	min
<u>Channel Flow</u>	n/a	n/a	
Pipe (P) or Channel (C)			
If pipe: Diameter, D			in
If channel: Bottom Width, w			ft
If channel: side slope 1 (:1)			
If channel: side slope 2 (:1)			
Cross sectional flow area, A			sq ft
Wetted perimeter, Wp			ft
Hydraulic radius, R = A/Wp			ft

Time of Concentration (Tc)	ž.		
(Use additional sheets if necessary)			
	Pre-	Post-	
Channel slope, S			ft/ft
Manning's roughness, n (Table 2-4)			
Channel velocity			ft/sec
Length of Flow, L			ft/sec
Total Time for Channel Flow	n/a	n/a	min
	1	0.0	
Total Time of Concentration, Tc	5.2	0.8	min

С	Area (acres)	C*A
0.2	0.45	0.09
	C 0.2	0.45

Post-development Conditions			
Land Use Description	С	Area (acres)	C*A
Impervious Area (41% coverage)	0.95	0.18 ac	0.17
Open Space (59%)	0.25	0.27 ac	0.07
Totals		0.45 ac	0.24

Area-weighted C:	0.54	_
Intensity for 10-year, 24-hour storm (Table 2-5)	0.239	_ in/hr
Post-development peak flow, Q = CiA	0.057	_ cfs

Minimum Storage Volume Required - Refer to Section 2.4.4 for Volume Calculations

2,405

Storage Volume, V_s

Applicant

10/24/2023

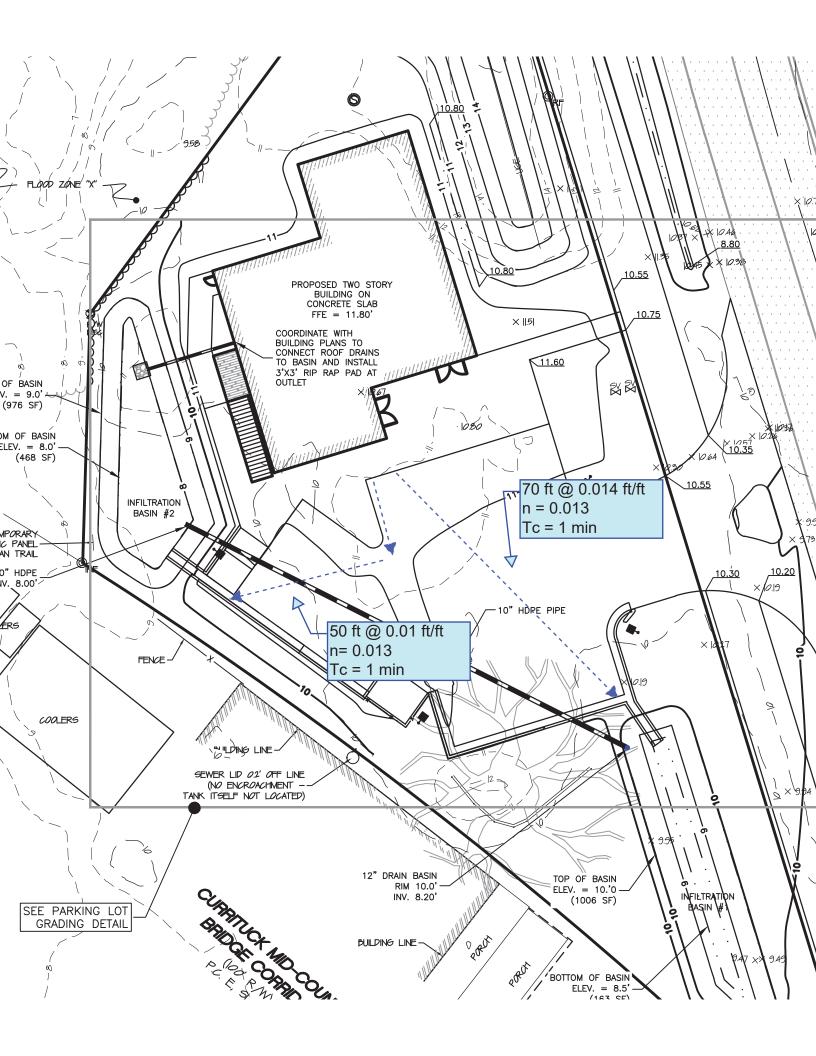
Golasa Holdings, LLC 804 Ocean Trail Soil Boring Log

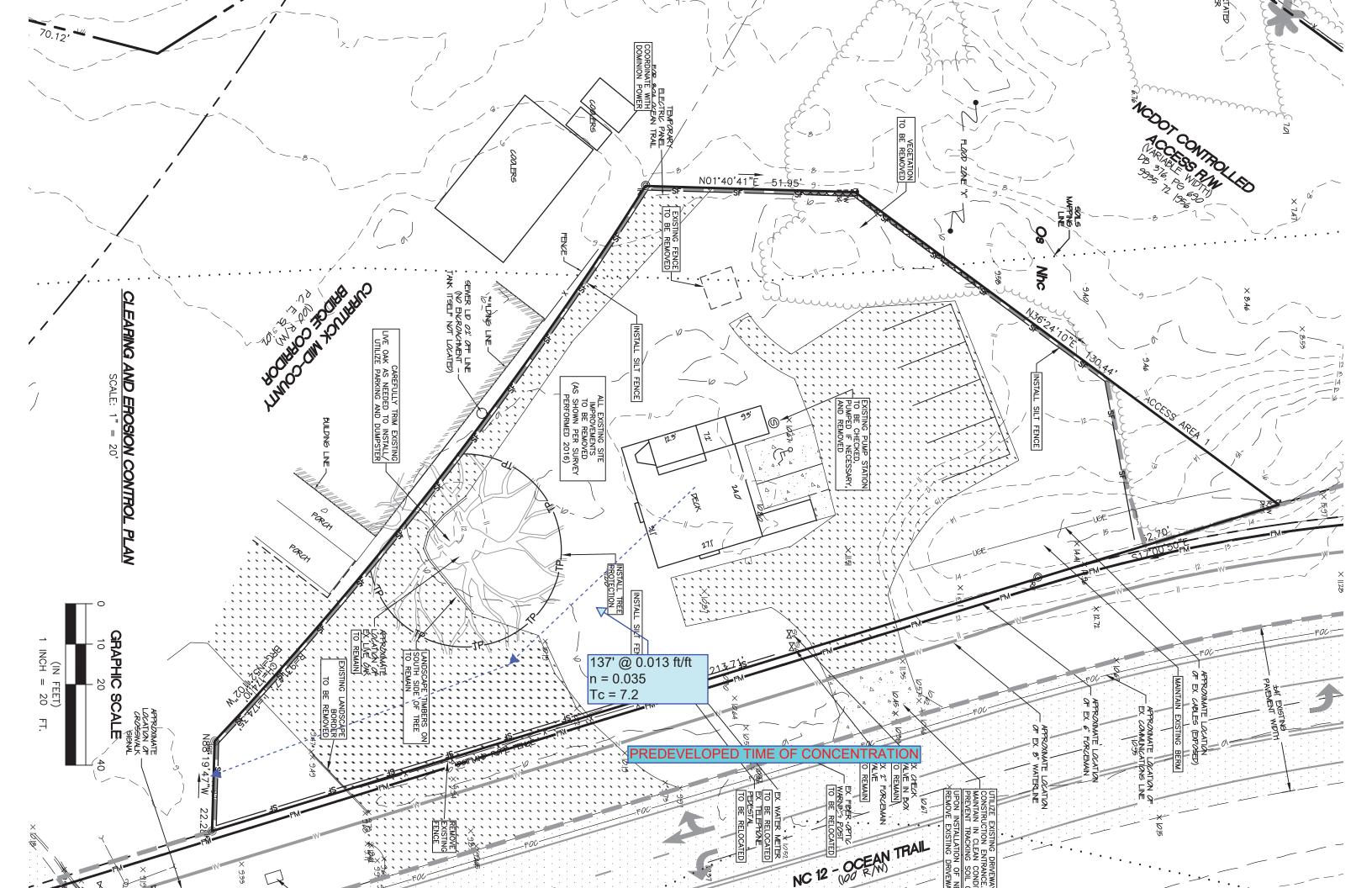
Soil Boring			
Donth	B-1		
Depth 0" to 6"	tan fine sand		
6" to 12"	tan fine sand		
12" to 18"	tan fine sand		
18" to 24"	tan fine sand		
24" to 30"	tan fine sand		
30" to 36"	tan fine sand		
36" to 42"	tan fine sand		
42" to 48"	tan fine sand		
48" to 54"	tan fine sand (slight mottling & slightly moist)		
54" to 60"	tan fine sand (slight mottling & slightly moist)		
Soil Type	Newhan - Corolla Complex		
Date of Boring	6/16/23		
Ex. Ground Elevation (ft. above MSL)	10.5		
Depth to ESHWT (in)	48		
ESHWT Elevation	6.5		
Depth to Water table (in)	60		
Estimated Water table Elevation (ft)	5.5		



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI	
NhC	Newhan-Corolla complex, 0 to 10 percent slopes	0.5	93.0%	
Os	Osier fine sand	0.0	7.0%	
Totals for Area of Interest		0.5	100.0%	





APPLICATION IDEN	ITIFICATION	N.C. DEPARTMENT OF TRANSPORTATION
Driveway Date of Permit No. Application		STREET AND DRIVEWAY ACCESS
County: Currituck		PERMIT APPLICATION
Development Name: Golasa Holdings, LL	.C	
	LOCATION OF PR	OPERTY:
Route/Road: NC-12		
	Miles N S E W Feet 🖂 🗌 🗆	
From the Intersection of Route No. NC-	and Route	No. SR-1402 Toward Whalehead Club
Property Will Be Used For: Residential	Subdivision 🛛 Commercial 🗔 I	Educational Facilities
Property:	and the second of the second o	vithin Currituck County City Zoning Area.
	AGREEMEN	
 Transportation. I agree that no signs or objects will be I agree that the driveway(s) or street I agree that that driveway(s) or street change lanes as deemed necessary. I agree that if any future improvement on public right-of-way will be conside be entitled to reimbursement or have I agree that this permit becomes void by the "Policy on Street and Driveway I agree to pay a \$50 construction inspanplication is denied. I agree to construct and maintain the the public travel. I agree to provide during and following the protection of traffic in conformance 	e placed on or over the pub- (s) will be constructed as shat(s) as used in this agreements to the roadway become noted the property of the North any claim for present expend if construction of driveway(by Access to North Carolina Repection fee. Make checks publication of the driveway(s) or street(s) in a sing construction proper signs to with the current "Manual of the construction of the construction proper signs the with the current "Manual of the construction of the construction proper signs the with the current "Manual of the construction of the constructi	ent include any approach tapers, storage lanes or speed necessary, the portion of driveway(s) or street(s) located the Carolina Department of Transportation, and I will not inditures for driveway or street construction. (s) or street(s) is not completed within the time specified Highways. Dayable to NCDOT. This fee will be reimbursed if a safe manner so as not to interfere with or endanger standard in the specified of the safe manner so as not to interfere with or endanger standard in the specified of the safe manner so as not to interfere with or endanger standard in the specified of the safe manner so as not to interfere with or endanger standard in the safe manner so as not to interfere with or endanger standard in the specified safe manner so as not to interfere with or endanger standard in the specified safe manner so as not to interfere with or endanger standard in the specified safe manner so as not to interfere with or endanger standard in the specified safe manner so as not to interfere with or endanger standard in the specified safe manner so as not to interfere with or endanger standard in the specified safe manner so as not to interfere with or endanger standard in the specified safe manner so as not to interfere with or endanger safe manner so as not specified safe manner safe manner so as not specified safe manner sa
 obtained from the District Engineer. I agree to indemnify and save harmle for damage that may arise by reason I agree that the North Carolina Depar caused to such facilities, within the hi 	ess the North Carolina Depa of this construction. Itment of Transportation will ghway right-of-way limits, in I Indemnity Bond in the amo	artment of Transportation from all damages and claims I assume no responsibility for any damages that may be a carrying out its construction. Dount specified by the Division of Highways for any

• The granting of this permit is subject to the regulatory powers of the NC Department of Transportation as provided by law and as set forth in the N.C. Policy on Driveways and shall not be construed as a contract access point.

• I agree that the entire cost of constructing and maintaining an approved private street or driveway access connection and conditions of this permit will be borne by the property owner, the applicant, and their grantees, successors, and assignees.

• I AGREE TO NOTIFY THE DISTRICT ENGINEER WHEN THE PROPOSED WORK BEGINS AND WHEN IT IS COMPLETED.

2004-07

NOTE: Submit Four Copies of Application to Local District Engineer, N.C. Department of Transportation 61-03419

TEB 65-04rev.

	SIGNATURES	OF APPLICANT	
COMPANY SIGNATURE ADDRESS	PROPERTY OWNER (APPLICANT) Golasa Holdings, LLC 2229 S. Croatan Hwy, Nags Head, NC, 27959 Phone No. 2524800009	NAME SIGNATURE ADDRESS	WITNESS Wendy Ray Wendy Ray PO BOX 15 D Dowell's Point, WC 27940
COMPANY SIGNATURE ADDRESS	AUTHORIZED AGENT Albemarle & Associates, Ltd PO Box 2989, Kill Devil Hills, NC, 27948 Phone No. 2524412113 APPR	NAME SIGNATURE ADDRESS OVALS	WITNESS
APPLICATION F	RECEIVED BY DISTRICT ENGINEER		
	SIGNATURE		DATE
APPLICATION A	APPROVED BY LOCAL GOVERNMENTAL AUTHORITY (wher	n required)	
	SIGNATURE	TITLE	DATE
APPLICATION A	PPROVED BY NCDOT		
	SIGNATURE	TITLE	DATE
INSPECTION BY	NCDOT		
	SIGNATURE	TITLE	DATE
COMMENTS:			

ROUTE NC-12 PROJE	CT 804 Ocean Trail	COUNTY OF	STATE OF NORTH CAROLINA Currituck	
DEPARTMENT OF TRANSPORTATION -AND-		RIGHT OF WAY ENCROACHMENT AGREEMENT FOR NON-UTILITY ENCROACHMENTS ON		
			CONDARY HIGHWAYS	
Golasa Holdings, LLC				
THIS AGREEMENT, made and entered	into this the	day of , 20	, by and between the Department	
of Transportation, party of the first part; and				
			party of the second part,	
WITNESSETH				
THAT WHEREAS, the party of the s	econd part desires t	to encroach on the right of	way of the public road designated as	
Route(s) NC-12		, located on the west side of	of NC-12, just north of the intersection of NC-12	

WHEREAS, it is to the material advantage of the party of the second part to effect this encroachment, and the party of the first part in the exercise of authority conferred upon it by statute, is willing to permit the encroachment within the limits of the right of way as indicated, subject to the conditions of this agreement;

with the construction and/or erection of: approximately 340 lf of 10' wide multi-use path per Currituck County requirements

and the relocation of the existing driveway for the redevelopment of 804 Ocean Trail in Corolla.

and Albecore St (SR-1402)

NOW, THEREFORE, IT IS AGREED that the party of the first part hereby grants to the party of the second part the right and privilege to make this encroachment as shown on attached plan sheet(s), specifications and special provisions which are made a part hereof upon the following conditions, to wit:

That the said party of the second part binds and obligates himself to install and maintain the encroaching facility in such safe and proper condition that it will not interfere with or endanger travel upon said highway, nor obstruct nor interfere with the proper maintenance thereof, to reimburse the party of the first part for the cost incurred for any repairs or maintenance to its roadways and structures necessary due to the installation and existence of the facilities of the party of the second part, and if at any time the party of the first part shall require the removal of or changes in the location of the said facilities, that the said party of the second part binds himself, his successors and assigns, to promptly remove or alter the said facilities, in order to conform to the said requirement, without any cost to the party of the first part.

That the party of the second part agrees to provide during construction and any subsequent maintenance proper signs, signal lights, flagmen and other warning devices for the protection of traffic in conformance with the <u>latest Manual on Uniform Traffic Control Devices for Streets and Highways</u> and Amendments or Supplements thereto. Information as to the above rules and regulations may be obtained from the Division Engineer of the party of the first part.

That the party of the second part hereby agrees to indemnify and save harmless the party of the first part from all damages and claims for damage that may arise by reason of the installation and maintenance of this encroachment.

It is clearly understood by the party of the second part that the party of the first part will assume no responsibility for any damage that may be caused to such facilities, within the highway rights of way limits, in carrying out its construction and maintenance operations.

That the party of the second part agrees to restore all areas disturbed during installation and maintenance to the satisfaction of the Division Engineer of the party of the first part. The party of the second part agrees to exercise every reasonable precaution during construction and maintenance to prevent eroding of soil; silting or pollution of rivers, streams, lakes, reservoirs, other water impoundments, ground surfaces or other property; or pollution of the air. There shall be compliance with applicable rules and regulations of the North Carolina Division of Environmental Management, North Carolina Sedimentation Control Commission, and with ordinances and regulations of various counties, municipalities and other official agencies relating to pollution prevention and control. When any installation or maintenance operation disturbs the ground surface and existing ground cover, the party of the second part agrees to remove and replace the sod or otherwise reestablish the grass cover to meet the satisfaction of the Division Engineer of the party of the first part.

That the party of the second part agrees to assume the actual cost of any inspection of the work considered to be necessary by the Division Engineer of the party of the first part.

That the party of the second part agrees to have available at the encroaching site, at all times during construction, a copy of this agreement showing evidence of approval by the party of the first part. The party of the first part reserves the right to stop all work unless evidence of approval can be shown.

R/W (161A): Party of the Second Part certifies that this agreement is true and accurate copy of the form R/W (161A) incorporating all revisions to date.

IN WITNESS WHEREOF, each of the parties to this agreement has caused the same to be executed the day and year first above written.

	DEPARTMENT OF TRANSPORTATION	
	BY: DIVISION ENGINEER	
ATTEST OR WITNESS:		
Werds Ray	Corrael Iplace	
Wendy Ray	Isrgel Golgsa	
	Second Party	

INSTRUCTIONS

When the applicant is a corporation or a municipality, this agreement must have the corporate seal and be attested by the corporation secretary or by the empowered city official, unless a waiver of corporate seal and attestation by the secretary or by the empowered City official is on file in the Raleigh office of the State Utilities Manager. In the space provided in this agreement for execution, the name of the corporation or municipality shall be typed above the name, and title of all persons signing the agreement should be typed directly below their signature.

When the applicant is not a corporation, then his signature must be witnessed by one person. The address should be included in this agreement and the names of all persons signing the agreement should be typed directly below their signature.

This agreement must be accompanied, in the form of an attachment, by plans or drawings showing the following applicable information:

- 1. All roadways and ramps.
- 2. Right of way lines and where applicable, the control of access lines.
- 3. Location of the proposed encroachment.
- 4. Length and type of encroachment.
- 5. Location by highway survey station number. If station number cannot be obtained, location should be shown by distance from some identifiable point, such as a bridge, road, intersection, etc. (To assist in preparation of the encroachment plan, the Department's roadway plans may be seen at the various Highway Division Offices, or at the Raleigh office.)
- 6. Drainage structures or bridges if affected by encroachment.
- 7. Typical section indicating the pavement design and width, and the slopes, widths and details for either a curb and gutter or a shoulder and ditch section, whichever is applicable.
- 8. Horizontal alignment indicating general curve data, where applicable.
- 9. Vertical alignment indicated by percent grade, P.I. station and vertical curve length, where applicable.
- 10. Amount of material to be removed and/or placed on NCDOT right of way, if applicable.
- 11. Cross-sections of all grading operations, indicating slope ratio and reference by station where applicable.
- 12. All pertinent drainage structures proposed. Include all hydraulic data, pipe sizes, structure details and other related information.
- 13. Erosion and sediment control.
- 14. Any special provisions or specifications as to the performance of the work or the method of construction that may be required by the Department must be shown on a separate sheet attached to encroachment agreement provided that such information cannot be shown on