

CONDITIONAL ZONING APPLICATION



TOWN OF CHAPEL HILL

Planning Department

405 Martin Luther King Jr. Blvd.

(919) 968-2728 fax (919) 969-2014

www.townofchapelhill.org

Revised: August 26, 2022

Parcel Identifier Number (PIN): 9870907642

Date: June 27, 2022

Section A: Project Information

Project Name: Tri Pointe Townhomes

Property Address: 2217 Homestead Road, Chapel Hill, NC Zip Code: 27516

Use Groups (A, B, and/or C): A Existing Zoning District: R-5

Project Description: 103 Townhome Units

Section B: Applicant, Owner, and/or Contract Purchaser Information

Applicant Information (to whom correspondence will be mailed):

Name: Richard Gurlitz

Address: 121 S. Estes Drive Suite 100

City: Chapel Hill, State: NC Zip Code: 27514

Phone: 919-489-9000 Email: richard@gurlitzarchitects.com

The undersigned applicant hereby certifies that, to the best of their knowledge and belief, all information supplied with this application and accurate. Richard Gurlitz

Signature: _____

 Digitally signed by Richard Gurlitz
DN: cn=Richard Gurlitz, o=GS Homestead, LLC, ou=Manager, email=richard@gurlitzarchitects.com
c=US
Date: 2022.10.07 14:29:49 -04'00'

Date: October 7, 2022

Owner/Contract Purchaser Information:

Owner

Contract Purchaser

Name: GS Homestead, LLC

Address: 121 S. Estes Drive Suite 100

City: Chapel Hill, State: NC Zip Code: 27514

Phone: 919-489-9000 Email: richard@gurlitzarchitects.com

The undersigned applicant hereby certifies that, to the best of their knowledge and belief, all information supplied with this application and accurate. Richard Gurlitz

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DN: cn=Richard Gurlitz, o=GS Homestead, LLC, ou=Manager, email=richard@gurlitzarchitects.com
c=US
Date: 2022.10.07 14:30:20 -04'00'

Date: October 7, 2022

Click [here](#) for application submittal instructions.



CONDITIONAL ZONING

TOWN OF CHAPEL HILL
Planning Department

Conditional Rezoning applications are reviewed by staff, Planning Commission, and Town Council. The application is part of an open public process that enables Town Council to discuss and decide on the key issues of a rezoning proposal. If a rezoning is approved, the applicant may then submit a detailed final plan application to staff for compliance review with the technical development standards and with the Council rezoning approval.

The establishment of a Conditional Zoning District shall be consistent with the Land Use Plan in the Comprehensive Plan. A proposed Conditional Zoning District is deemed consistent if the proposed District will be located in conformance with an adopted small area plan and/or in one of the following Land Use Categories:

- Medium Residential
- High Residential
- Commercial
- Mixed Use, Office/Commercial Emphasis
- Mixed Use, Office Emphasis
- Town/Village Center
- Institutional
- Office
- University
- Development Opportunity Area
- Light Industrial Opportunity Area

If the proposed conditional zoning districts is located in a Low Residential or a Rural Residential Land Use Category, the Town Council must approve a Land Use Plan amendment prior to proceeding.

SIGNED CONDITIONS: All conditions shall be in writing, prepared by the owner of the property or an attorney and must be signed by all property owners and contract purchasers, if applicable. The Town Attorney may require additional signatures if necessary and will determine whether or not the conditions statement is legally sufficient. Within thirty (30) days after receipt of the conditions the Planning Division Manager will notify the applicant of any deficiencies in the conditions statement or if any additional information is needed. The applicant may make changes to the written conditions statement provided it is submitted at least thirty (30) prior to Planning Commission meeting or thirty (30) days prior to Town Council public hearing.

RECORDATION OF CONDITIONS: After a rezoning has been approved by the Town Council, the conditions statement shall be recorded with the Register of Deeds Office. After a rezoning has been approved by Town Council and recorded by the Register of Deeds Office, the conditions may not be amended except through a new rezoning application.



PROJECT FACT SHEET

TOWN OF CHAPEL HILL

Planning Department

Section A: Project Information

Use Type: (check/list all that apply)

Office/Institutional Residential Mixed-Use Other: _____

Overlay District: (check all that apply)

Historic District Neighborhood Conservation District Airport Hazard Zone

Section B: Land Area

Net Land Area (NLA): Area within zoning lot boundaries		NLA=	678,842	sq. ft.
Choose one, or both, of the following (a or b), not to exceed 10% of NLA	a) Credited Street Area (total adjacent frontage) x ½ width of public right-of-way	CSA=	15,094	sq. ft.
	b) Credited Permanent Open Space (total adjacent frontage) x ½ public or dedicated open space	COS=	52,790	sq. ft.
TOTAL: NLA + CSA and/or COS = Gross Land Area (not to exceed NLA + 10%)		GLA=	746,726	sq. ft.

Section C: Special Protection Areas, Land Disturbance, and Impervious Area

Special Protection Areas: (check all those that apply)

Jordan Buffer Resource Conservation District 100 Year Floodplain Watershed Protection District

Land Disturbance	Total (sq. ft.)
Area of Land Disturbance (Includes: Footprint of proposed activity plus work area envelope, staging area for materials, access/equipment paths, and all grading, including off-site clearing)	566,437 SF
Area of Land Disturbance within RCD	0
Area of Land Disturbance within Jordan Buffer	0

Impervious Areas	Existing (sq. ft.)	Demolition (sq. ft.)	Proposed (sq. ft.)	Total (sq. ft.)
Impervious Surface Area (ISA)	15,438	15,438	270,712	270,712
Impervious Surface Ratio: Percent Impervious Surface Area of Gross Land Area (ISA/GLA)%		2.0%	36.25%	36.25%
If located in Watershed Protection District, % of impervious surface on 7/1/1993				



PROJECT FACT SHEET

TOWN OF CHAPEL HILL

Planning Department

Section D: Dimensions

Dimensional Unit (sq. ft.)	Existing (sq. ft.)	Demolition (sq. ft.)	Proposed (sq. ft.)	Total (sq. ft.)
Number of Buildings	1	1	108 Bldg - 216,000 SF	216,000 SF
Number of Floors	2	2	2	2
Recreational Space	0	0	34,085	34,085

Residential Space

Dimensional Unit (sq. ft.)	Existing (sq. ft.)	Demolition (sq. ft.)	Proposed (sq. ft.)	Total (sq. ft.)
Floor Area (all floors – heated and unheated)	4001	4001	216,000	216,000
Total Square Footage of All Units	4001	4001	216,000	216,000
Total Square Footage of Affordable Units			32,000	32,000
Total Residential Density			6.9/AC	6.9/AC
Number of Dwelling Units	1	1	108	108
Number of Affordable Dwelling Units	0	0	16	16
Number of Single Bedroom Units			0	0
Number of Two Bedroom Units			0	0
Number of Three Bedroom Units	1	1	108	108

Non-Residential Space (Gross Floor Area in Square Feet)

Use Type	Existing	Proposed	Uses	Existing	Proposed
Commercial					
Restaurant			# of Seats		
Government					
Institutional					
Medical					
Office					
Hotel			# of Rooms		
Industrial					
Place of Worship			# of Seats		
Other					

Dimensional Requirements		Required by Ordinance	Existing	Proposed
Setbacks (minimum)	Street	20	NA	20
	Interior (neighboring property lines)	6	NA	6
	Solar (northern property line)	8	NA	8
Height (maximum)	Primary	39	NA	39
	Secondary	60	NA	39
Streets	Frontages	40	NA	40
	Widths	50	NA	50



PROJECT FACT SHEET

TOWN OF CHAPEL HILL

Planning Department

Section F: Adjoining or Connecting Streets and Sidewalks

Note: For approval of proposed street names, contact the Engineering Department.

Street Name	Right-of-Way Width	Pavement Width	Number of Lanes	Existing Sidewalk*	Existing Curb/Gutter
Homestead Road	60'	Variable	2-3 lanes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
Kipling Drive	45	27	2	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes

List Proposed Points of Access (Ex: Number, Street Name):

*If existing sidewalks do not exist and the applicant is adding sidewalks, please provide the following information:

Sidewalk Information			
Street Names	Dimensions	Surface	Handicapped Ramps
Homestead Road	10' Multi Use	Asphalt	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Section G: Parking Information

Parking Spaces	Minimum	Maximum	Proposed
Regular Spaces	189	243	216
Handicap Spaces	0	0	3
Total Spaces	NA	NA	234
Guest Spaces	NA	NA	18
Bicycle Spaces			27
Surface Type			

Section H: Landscape Buffers

Location (North, South, Street, Etc.)	Minimum Width	Proposed Width	Alternate Buffer	Modify Buffer
Homestead Road - North External	15Feet B	15 Feet	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes
UNC Property - East	10 Feet B	10 Feet	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes
UNC Property - South	10 Feet B	10 Feet	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes
The Courtyards - West	None	None	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes



PROJECT FACT SHEET

TOWN OF CHAPEL HILL

Planning Department

Section I: Land Use Intensity

Existing Zoning District:

Proposed Zoning Change (if any):

Zoning – Area – Ratio			Impervious Surface Thresholds			Minimum and Maximum Limitations	
Zoning District(s)	Floor Area Ratio (FAR)	Recreation Space Ratio (RSR)	Low Density Residential (0.24)	High Density Residential (0.50)	Non-Residential (0.70)	Maximum Floor Area (MFA) = FAR x GLA	Minimum Recreation Space (MSR) = RSR x GLA
R-5	.303	.050		373,363		226,258	34,085
ADU BONUS						54,400	
TOTAL						280,658	34,085
RCD Streamside		0.01					NA
RCD Managed		0.019					NA
RCD Upland							NA

Section J: Utility Service

Check all that apply:

Water	<input checked="" type="checkbox"/> OWASA	<input type="checkbox"/> Individual Well	<input type="checkbox"/> Community Well	<input type="checkbox"/> Other
Sewer	<input checked="" type="checkbox"/> OWASA	<input type="checkbox"/> Individual Septic Tank	<input type="checkbox"/> Community Package Plant	<input type="checkbox"/> Other
Electrical	<input checked="" type="checkbox"/> Underground	<input type="checkbox"/> Above Ground		
Telephone	<input checked="" type="checkbox"/> Underground	<input type="checkbox"/> Above Ground		
Solid Waste	<input checked="" type="checkbox"/> Town	<input type="checkbox"/> Private		



**CONDITIONAL ZONING APPLICATION
SUBMITTAL REQUIREMENTS**
TOWN OF CHAPEL HILL
Planning Department

The following must accompany your application. Failure to do so will result in your application being considered incomplete. For assistance with this application, please contact the Chapel Hill Planning Department (Planning) at (919) 968-2728 or at planning@townofchapelhill.org.

Application fee (including Engineering Review fee) (refer to fee schedule)	Amount Paid \$	63,368.80
Pre-application meeting –with appropriate staff		
Digital Files – provide digital files of all plans and documents		
Recorded Plat or Deed of Property		
Project Fact Sheet		
Traffic Impact Statement – completed by Town's consultant (or exemption)		
Description of Public Art Proposal, if applicable		
Statement of Justification		
Response to Community Design Commission and Town Council Concept Plan comments, if applicable		
Affordable Housing Proposal, if applicable		
Statement of Consistency with Comprehensive Plan or request to amend Comprehensive Plan		
Mailing list of owners of property within 1,000 feet perimeter of subject property (see GIS notification tool)		
Mailing fee for above mailing list (mailing fee is double due to 2 mailings)	Amount Paid \$	137
Written Narrative describing the proposal, including proposed land uses and proposed conditions		
Resource Conservation District, Floodplain, & Jordan Buffers Determination – necessary for all submittals		
Jurisdictional Wetland Determination – if applicable		
Resource Conservation District Encroachment Exemption or Variance (determined by Planning)		
Jordan Buffer Authorization Certificate or Mitigation Plan Approval (determined by Planning)		
Reduced Site Plan Set (reduced to 8.5" x 11")		

Stormwater Impact Statement (1 copy to be submitted)

- a) Written narrative describing existing & proposed conditions, anticipated stormwater impacts and management structures and strategies to mitigate impacts
- b) Description of land uses and area (in square footage)
- c) Existing and proposed impervious surface area in square feet for all subareas and project area
- d) Ground cover and uses information
- e) Soil information (classification, infiltration rates, depth to groundwater and bedrock)
- f) Time of concentration calculations and assumptions
- g) Topography (2-foot contours)
- h) Pertinent on-site and off-site drainage conditions
- i) Upstream and/or downstream volumes
- j) Discharges and velocities
- k) Backwater elevations and effects on existing drainage conveyance facilities
- l) Location of jurisdictional wetlands and regulatory FEMA Special Flood Hazard Areas
- m) Water quality volume calculations
- n) Drainage areas and sub-areas delineated
- o) Peak discharge calculations and rates (1, 2, and 25-year storms)
- p) Hydrographs for pre- & post-development without mitigation, post-development with mitigation
- q) Volume calculations and documentation of retention for 2-year storm



**CONDITIONAL ZONING APPLICATION
SUBMITTAL REQUIREMENTS
TOWN OF CHAPEL HILL
Planning and Development Services**

- r) 85% TSS removal for post-development stormwater runoff
- s) Nutrient loading calculations
- t) BMP sizing calculations
- u) Pipe sizing calculations and schedule (include HGL & EGL calculations and profiles)

Plan Sets (10 copies to be submitted no larger than 24" x 36")

Plans should be legible and clearly drawn. All plan set sheets should include the following:

- Project Name
- Legend
- Labels
- North Arrow (North oriented toward top of page)
- Property boundaries with bearing and distances
- Scale (Engineering), denoted graphically and numerically
- Setbacks
- Streams, RCD Boundary, Jordan Riparian Buffer Boundary, Floodplain, and Wetlands Boundary, where applicable
- Revision dates and professional seals and signatures, as applicable

Cover Sheet

- a) Include Project Name, Project fact information, PIN, and Design Team

Area Map

- a) Project name, applicant, contact information, location, PIN, & legend
- b) Dedicated open space, parks, greenways
- c) Overlay Districts, if applicable
- d) Property lines, zoning district boundaries, land uses, project names of site and surrounding properties, significant buildings, corporate limit lines
- e) Existing roads (public & private), rights-of-way, sidewalks, driveways, vehicular parking areas, bicycle parking, handicapped parking, street names
- f) 1,000' notification boundary

Existing Conditions Plan

- a) Slopes, soils, environmental constraints, existing vegetation, and any existing land features
- b) Location of all existing structures and uses
- c) Existing property line and right-of-way lines
- d) Existing utilities & easements including location & sizes of water, sewer, electrical, & drainage lines
- e) Nearest fire hydrants
- f) Nearest bus shelters and transit facilities
- g) Existing topography at minimum 2-foot intervals and finished grade
- h) Natural drainage features & water bodies, floodways, floodplain, RCD, Jordan Buffers & Watershed boundaries



**CONDITIONAL ZONING APPLICATION
SUBMITTAL REQUIREMENTS
TOWN OF CHAPEL HILL
Planning and Development Services**

Detailed Site Plan

- a) Existing and proposed building locations
- b) Description & analysis of adjacent land uses, roads, topography, soils, drainage patterns, environmental constraints, features, existing vegetation, vistas (on and off-site)
- c) Location, arrangement, & dimension of vehicular parking, width of aisles and bays, angle of parking, number of spaces, handicapped parking, bicycle parking. Typical pavement sections & surface type.
- d) Location of existing and proposed fire hydrants
- e) Location and dimension of all vehicle entrances, exits, and drives
- f) Dimensioned street cross-sections and rights-of-way widths
- g) Pavement and curb & gutter construction details
- h) Dimensioned sidewalk and tree lawn cross sections
- i) Proposed transit improvements including bus pull-off and/or bus shelter
- j) Required landscape buffers (or proposed alternate/modified buffers)
- k) Required recreation area/space (including written statement of recreation plans)
- l) Refuse collection facilities (existing and proposed) or shared dumpster agreement
- m) Construction parking, staging, storage area, and construction trailer location
- n) Sight distance triangles at intersections
- o) Proposed location of street lights and underground utility lines and/or conduit lines to be installed
- p) Easements
- q) Clearing and construction limits
- r) Traffic Calming Plan – detailed construction designs of devices proposed & associated sign & marking plan

Stormwater Management Plan

- a) Topography (2-foot contours)
- b) Existing drainage conditions
- c) RCD and Jordan Riparian Buffer delineation and boundary (perennial & intermittent streams; note ephemeral streams on site)
- d) Proposed drainage and stormwater conditions
- e) Drainage conveyance system (piping)
- f) Roof drains
- g) Easements
- h) BMP plans, dimensions, details, and cross-sections
- i) Planting and stabilization plans and specifications

Landscape Protection Plan

- a) Rare, specimen, and significant tree survey within 50 feet of construction area
- b) Rare and specimen tree critical root zones
- c) Rare and specimen trees proposed to be removed
- d) Certified arborist tree evaluation, if applicable
- e) Significant tree stand survey
- f) Clearing limit line
- g) Proposed tree protection/silt fence location
- h) Pre-construction/demolition conference note
- i) Landscape protection supervisor note
- j) Existing and proposed tree canopy calculations, if applicable



**CONDITIONAL ZONING APPLICATION
SUBMITTAL REQUIREMENTS
TOWN OF CHAPEL HILL
Planning and Development Services**

Planting Plan

- a) Dimensioned and labeled perimeter buffers
- b) Off-site buffer easement, if applicable
- c) Landscape buffer and parking lot planting plan (including planting strip between parking and building, entryway planting, and 35% shading requirement)

Steep Slope Plan

- a) Classify and quantify slopes 0-10%, 10-15%, 15-25%, and 25% and greater
- b) Show and quantify areas of disturbance in each slope category
- c) Provide/show specialized site design and construction techniques

Grading and Erosion Control Plan

- a) Topography (2-foot contours)
- b) Limits of Disturbance
- c) Pertinent off-site drainage features
- d) Existing and proposed impervious surface tallies

Streetscape Plan, if applicable

- a) Public right-of-way existing conditions plan
- b) Streetscape demolition plan
- c) Streetscape proposed improvement plan
- d) Streetscape proposed utility plan and details
- e) Streetscape proposed pavement/sidewalk details
- f) Streetscape proposed furnishing details
- g) Streetscape proposed lighting detail

Solid Waste Plan

- a) Preliminary Solid Waste Management Plan
- b) Existing and proposed dumpster pads
- c) Proposed dumpster pad layout design
- d) Proposed heavy duty pavement locations and pavement construction detail
- e) Preliminary shared dumpster agreement, if applicable



**CONDITIONAL ZONING APPLICATION
SUBMITTAL REQUIREMENTS
TOWN OF CHAPEL HILL
Planning and Development Services**

Construction Management Plan

- a) Construction trailer location
- b) Location of construction personnel parking and construction equipment parking
- c) Location and size of staging and materials storage area
- d) Description of emergency vehicle access to and around project site during construction
- e) Delivery truck routes shown or noted on plan sheets

Energy Management Plan

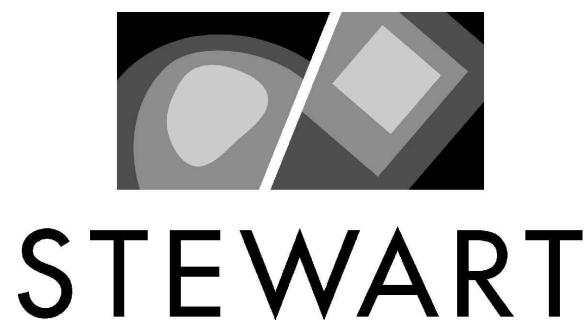
- a) Description of how project will be 20% more energy efficient than ASHRAE standards
- b) Description of utilization of sustainable forms of energy (Solar, Wind, Hydroelectric, and Biofuels)
- c) Participation in NC GreenPower program
- d) Description of how project will ensure indoor air quality, adequate access to natural lighting, and allow for proposed utilization of sustainable energy
- e) Description of how project will maintain commitment to energy efficiency and reduced carbon footprint over time
- f) Description of how the project's Transportation Management Plan will support efforts to reduce energy consumption as it affects the community

Exterior Elevations

- a) An outline of each elevation of the building, including the finished grade line along the foundation (height of building measured from mean natural grade)

HOMESTEAD ROAD TOWNHOMES

CONSULTANT:



STEWART

101 WEST MAIN ST.
DURHAM, NC 27701
T 919.380.8750

FIRM LICENSE #: C-1051
www.stewartinc.com
PROJECT #: C22033

APPLICANT:

GS HOMESTEAD, LLC
121 S. ESTES DRIVE, SUITE 100
CHAPEL HILL, NC 2514

PARCEL INFORMATION:

SITE DATA	
PROJECT NAME:	HOMESTEAD ROAD TOWNHOMES
SITE ADDRESS:	2217 HOMESTEAD ROAD
COUNTY:	ORANGE
PARCEL PIN #:	9870907642
PARCEL OWNER:	GS HOMESTEAD, LLC
TOTAL PARCEL AREA:	15.65
PROPOSED UNITS:	118 TOWNHOME (16 AFFORDABLE UNITS)
CURRENT ZONING:	R-5-CZD
PROPOSED ZONING:	RESIDENTIAL
EXISTING LAND USE:	TOWNHOUSE DEVELOPMENT
PROPOSED LAND USE:	MAP NO. 3710987000K, PANEL EFFECTIVE 11/17/2017
FLOOD PLAIN DATA:	JORDAN LAKE
WATERSHED:	CAPE FEAR
RIVER BASIN:	30%
TREE CONSERVATION AREA:	0.35 AC / 15,438 SF
TOTAL LIMITS OF DISTURBANCE::	14.12 AC / 615,050 SF
EXISTING IMPERVIOUS AREA:	6.85 AC / 298,588 SF
PROPOSED IMPERVIOUS AREA:	
PARKING DATA:	
MINIMUM REQUIRED:	1.75 SPACE PER 3 BEDROOM = 206 SPACE
MAXIMUM ALLOWED:	2.25 SPACE PER 3 BEDROOM = 265 SPACE
PROVIDED:	2 SPACE PER UNIT = 236 SPACE 18 GUEST PARKING (2 ADA & 1 VAN) TOTAL: 254 SPACE
BICYCLE PARKING:	
REQUIRED:	1 SPACE PER 4 UNITS = 30 SPACE
PROVIDED:	4 SPACE (2 RACKS) IN NEIGHBORHOOD PARK; REST PROVIDED IN TOWNHOME UNITS

CONDITIONAL ZONING PERMIT

JUNE 24, 2022

2217 HOMESTEAD ROAD

CHAPEL HILL, NORTH CAROLINA

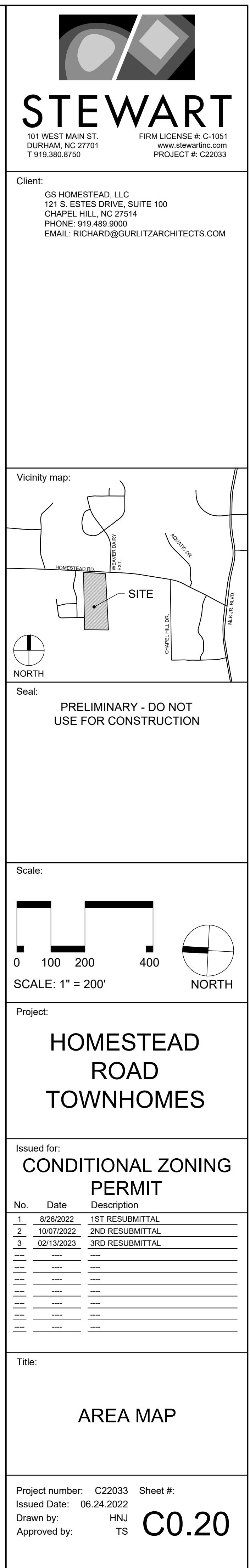
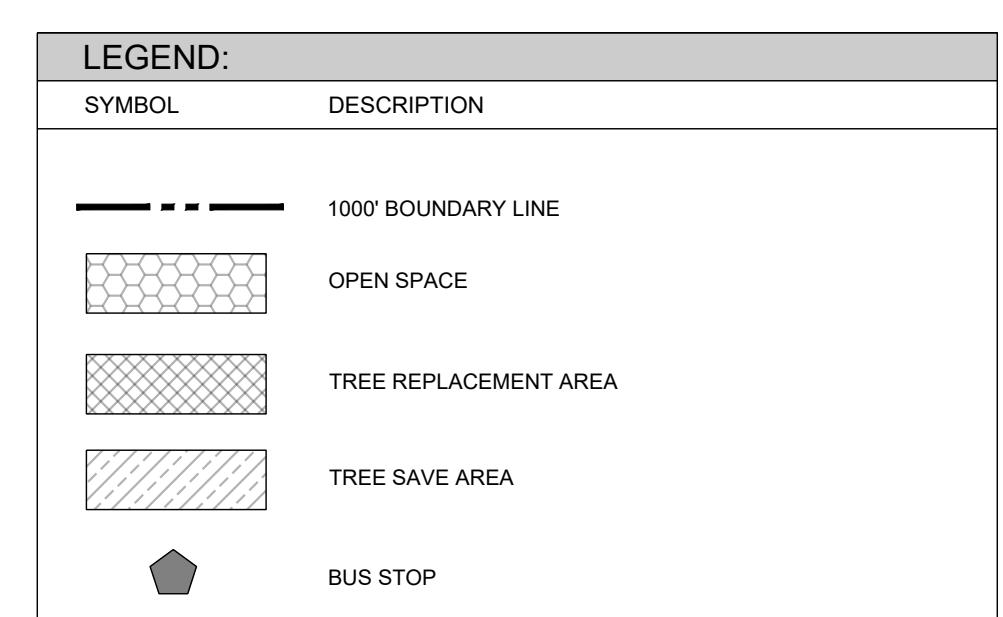
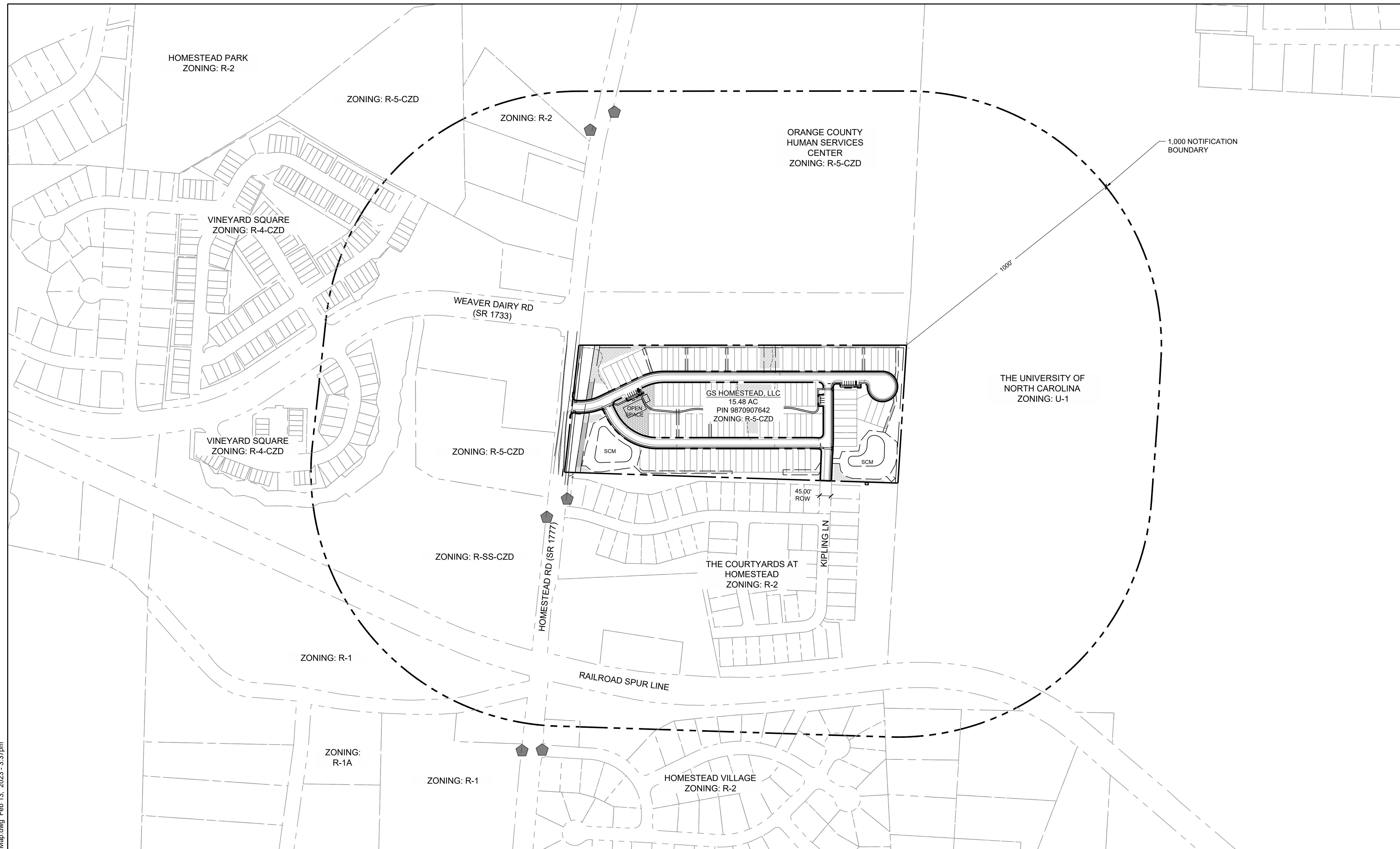
2ND RESUBMITTAL - OCTOBER 7, 2022

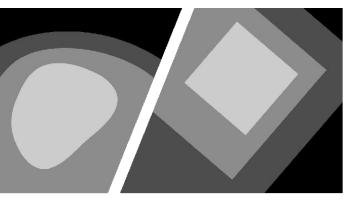
3RD RESUBMITTAL - FEBRUARY 13, 2023

VICINITY MAP



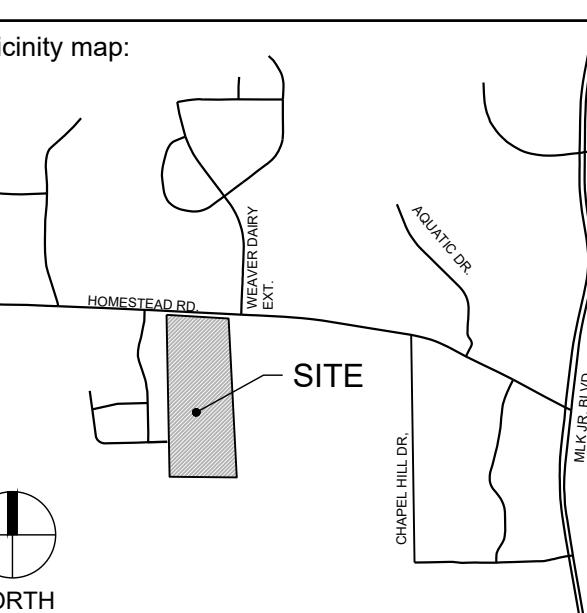
INDEX OF DRAWINGS	
Sheet #	SHEET NAME
C0.00	COVER SHEET
C0.10	GENERAL NOTES
C0.20	AREA MAP
C1.00	EXISTING CONDITIONS & DEMOLITION PLAN
C1.10	STEEP SLOPE ANALYSIS
C1.20	CONSTRUCTION MANAGEMENT PLAN
C3.00	SITE PLAN
C3.10	TRASH MANAGEMENT & FIRE APPARATUS PLAN
C3.90	SITE DETAILS
C3.91	SITE DETAILS
C5.00	GRADING & STORM DRAINAGE PLAN
C6.00	UTILITY PLAN
L7.00	CODE PLANTING PLAN
L7.10	LANDSCAPE PROTECTION PLAN
L7.11	LANDSCAPE PROTECTION PLAN - TREE SURVEY
L7.90	PLANTING & SOILS DETAILS
A1.00	EXTERIOR ELEVATION





STEWART
101 WEST MAIN ST.
DURHAM, NC 27701
FIRM LICENSE #: C-1051
www.stewartinc.com
PROJECT #. C22033

Client:
GS HOMESTEAD, LLC
121 S. ESTES DRIVE, SUITE 100
CHAPEL HILL, NC 27514
PHONE: 919.489.9000
EMAIL: RICHARD@GURLITZARCHITECTS.COM



Seal:
PRELIMINARY - DO NOT
USE FOR CONSTRUCTION

Scale:
0 25 50 100
SCALE: 1" = 50'
NORTH

Project:
**HOMESTEAD
ROAD
TOWNHOMES**

Issued for:
**CONDITIONAL ZONING
PERMIT**

No.	Date	Description
1	8/26/2022	1ST RESUBMITTAL
2	10/07/2022	2ND RESUBMITTAL
3	02/13/2023	3RD RESUBMITTAL
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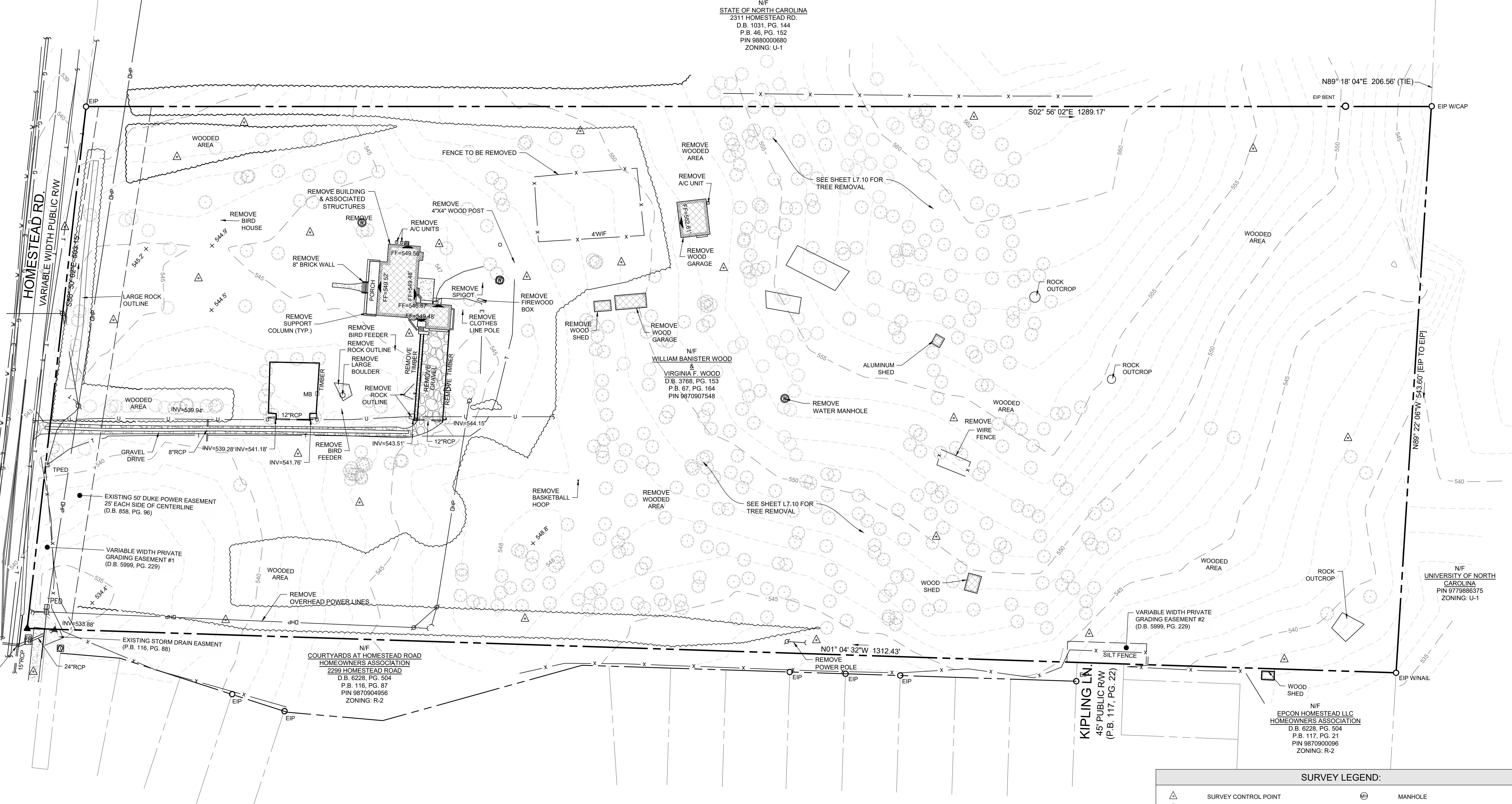
Title:

**EXISTING CONDITIONS
& DEMOLITION PLAN**

Project number: C22033 Sheet #:
Issued Date: 06.24.2022
Drawn by: HNJ
Approved by: TS

C1.00

N/F
STATE OF NORTH CAROLINA
2311 HOMESTEAD RD.
D.B. 1031, PG. 144
P.B. 46, PG. 152
PIN 9890000680
ZONING: U-1

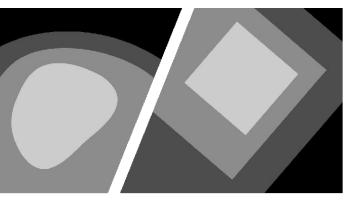


NOTES:
1. SEE SHEET C0.10 FOR GENERAL AND EXISTING CONDITIONS NOTES.

DEMOLITION LEGEND:

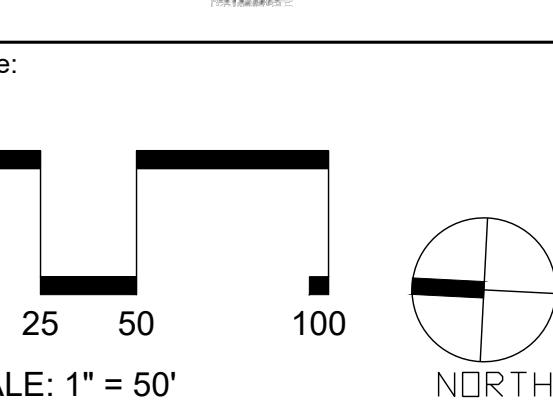
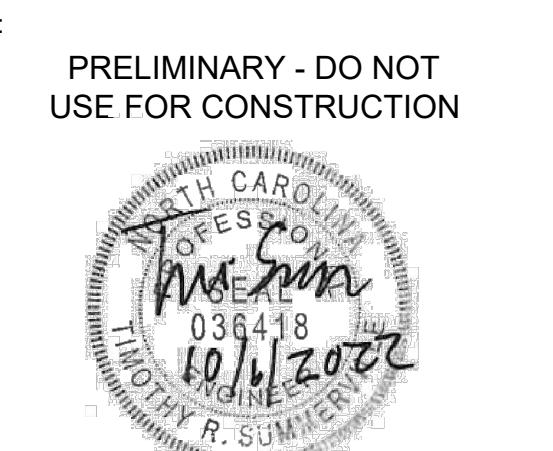
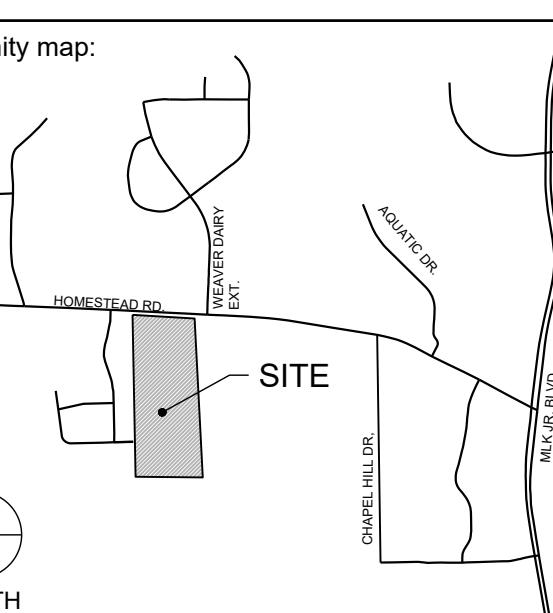
SYMBOL	DESCRIPTION
	REMOVE BUILDING
	REMOVE GRAVEL
	REMOVE TREE (SEE SHEET L7.10 FOR REMOVAL)
	REMOVE ROCK OUTCROP

	SURVEY CONTROL POINT		MANHOLE
	EXISTING IRON PIPE		TRAFFIC SIGNAL BOX
	EXISTING CONCRETE MONUMENT		TRAFFIC SIGNAL POST
	COMPUTED POINT		MONITORING WELL
	STORM DRAIN MANHOLE		BORING LOCATION
	STORM DRAIN CURB INLET		BOLLARD
	SANITARY SEWER MANHOLE		SIGN
	SANITARY SEWER CLEANOUT		FINISHED FLOOR ELEVATION
	SANITARY FORCEMAIN VALVE		DECIDUOUS TREE
	HYDRANT		EVERGREEN TREE
	WATER VALVE		BUSH
	WATER METER		WIRE FENCE
	WATER MANHOLE		CHAIN LINK FENCE
	WATER VAULT		UNDERGROUND TELEPHONE LINE
	GAS VALVE		UNDERGROUND FIBER OPTIC LINE
	GAS METER		UNDERGROUND GAS LINE
	TELEPHONE MANHOLE		UNDERGROUND ELECTRIC LINE
	TELEPHONE PEDESTAL		UNDERGROUND WATER LINE
	TV MANHOLE		SANITARY SEWER LINE
	TV PEDESTAL		STORM DRAIN LINE
	FIBER OPTIC WITNESS POST		OVERHEAD WIRES
	FIBER OPTIC BOX		UNIDENTIFIED LINE
	ELECTRIC MANHOLE		CONCRETE SURFACE
	ELECTRIC METER		DUCTILE IRON PIPE
	ELECTRIC BOX		POLYVINYL CHLORIDE PIPE
	UTILITY POLE		HIGH-DENSITY POLYETHYLENE PIPE
	GUY POLE		REINFORCED CONCRETE PIPE
	GUY WIRE		CORRUGATED METAL PIPE
	LIGHT POLE		CATCH BASIN



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FIRM LICENSE #: C-1051
www.stewartinc.com
PROJECT #: C22033

Client:
GS HOMESTEAD, LLC
121 S. ESTES DRIVE, SUITE 100
CHAPEL HILL, NC 27514
PHONE: 919.489.9000
EMAIL: RICHARD@GURLITZARCHITECTS.COM



Project:
**HOMESTEAD
ROAD
TOWNHOMES**

Issued for:
**CONDITIONAL ZONING
PERMIT**

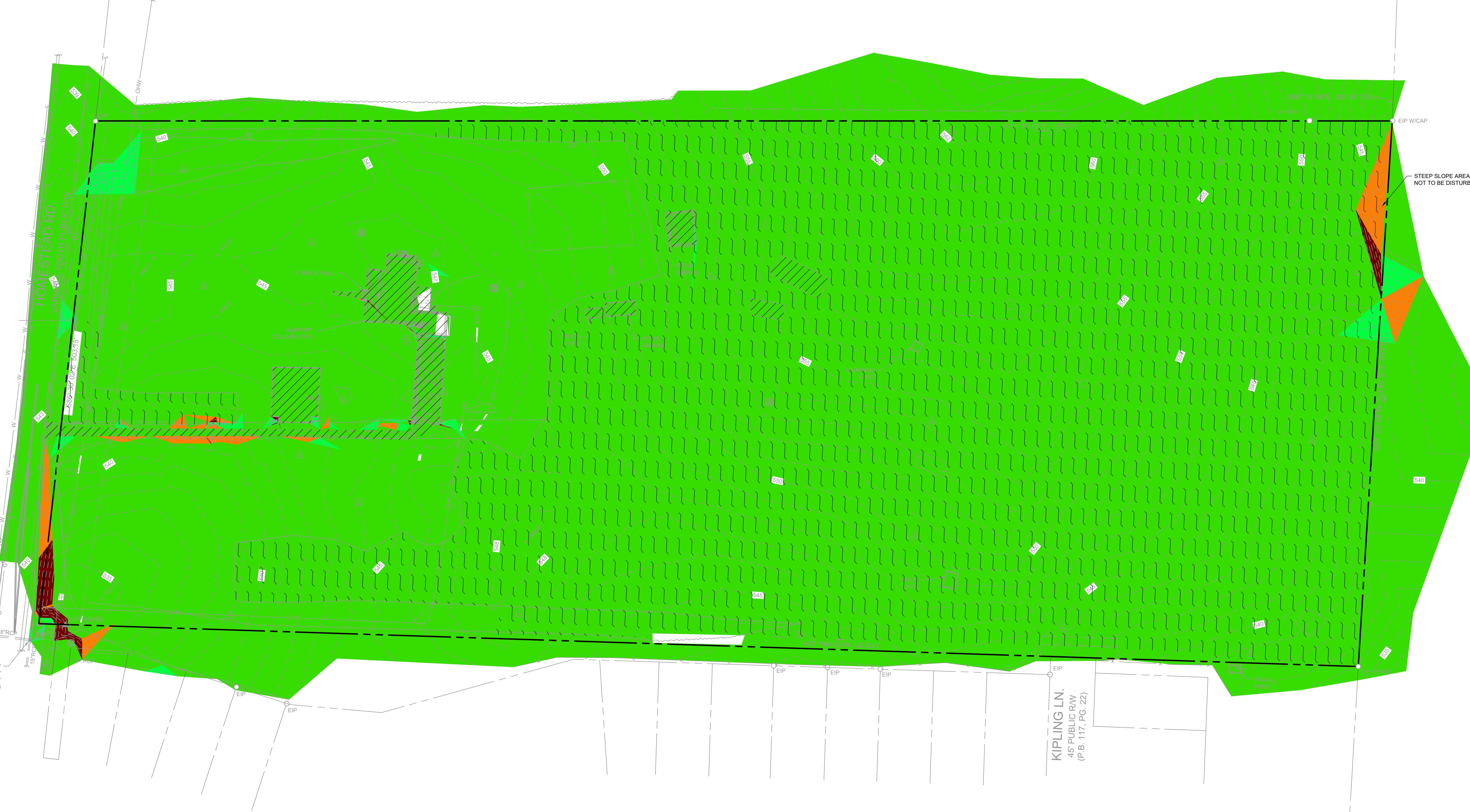
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2	10/07/2022	2ND RESUBMITTAL
3	02/13/2023	3RD RESUBMITTAL
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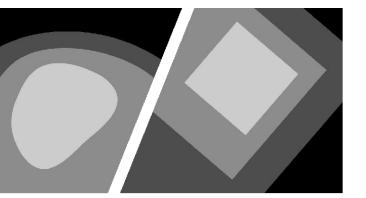
**STEEP SLOPE
ANALYSIS**

Project number: C22033 Sheet #:
Issued Date: 06.24.2022
Drawn by: SM
Approved by: TS

C1.10

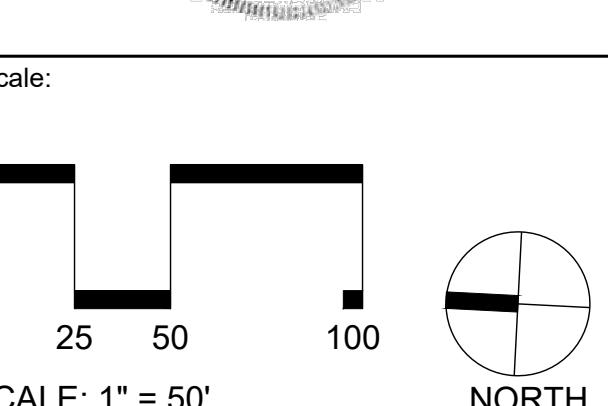
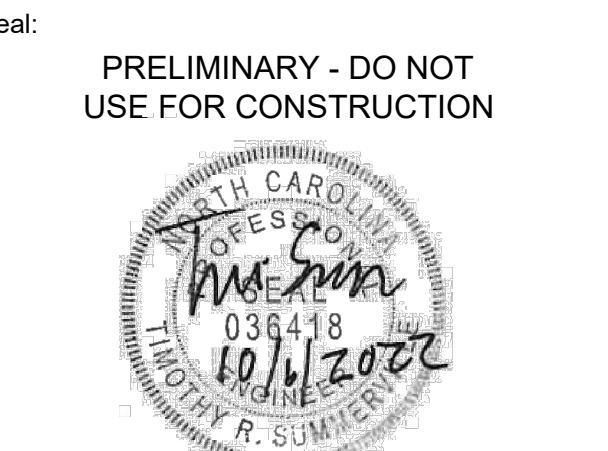
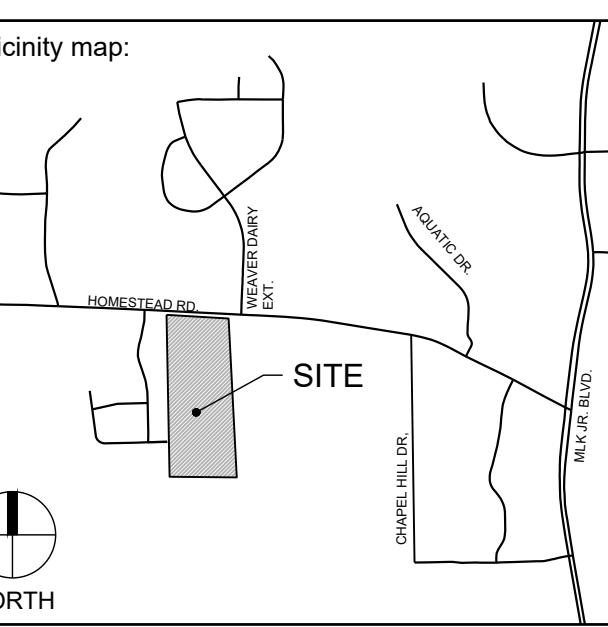


Slopes Table		
	Minimum Slope	Maximum Slope
	0.00%	10.00%
	10.00%	15.00%
	15.00%	25.00%
	25.00%	100.00%



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Project:
**HOMESTEAD
ROAD
TOWNHOMES**

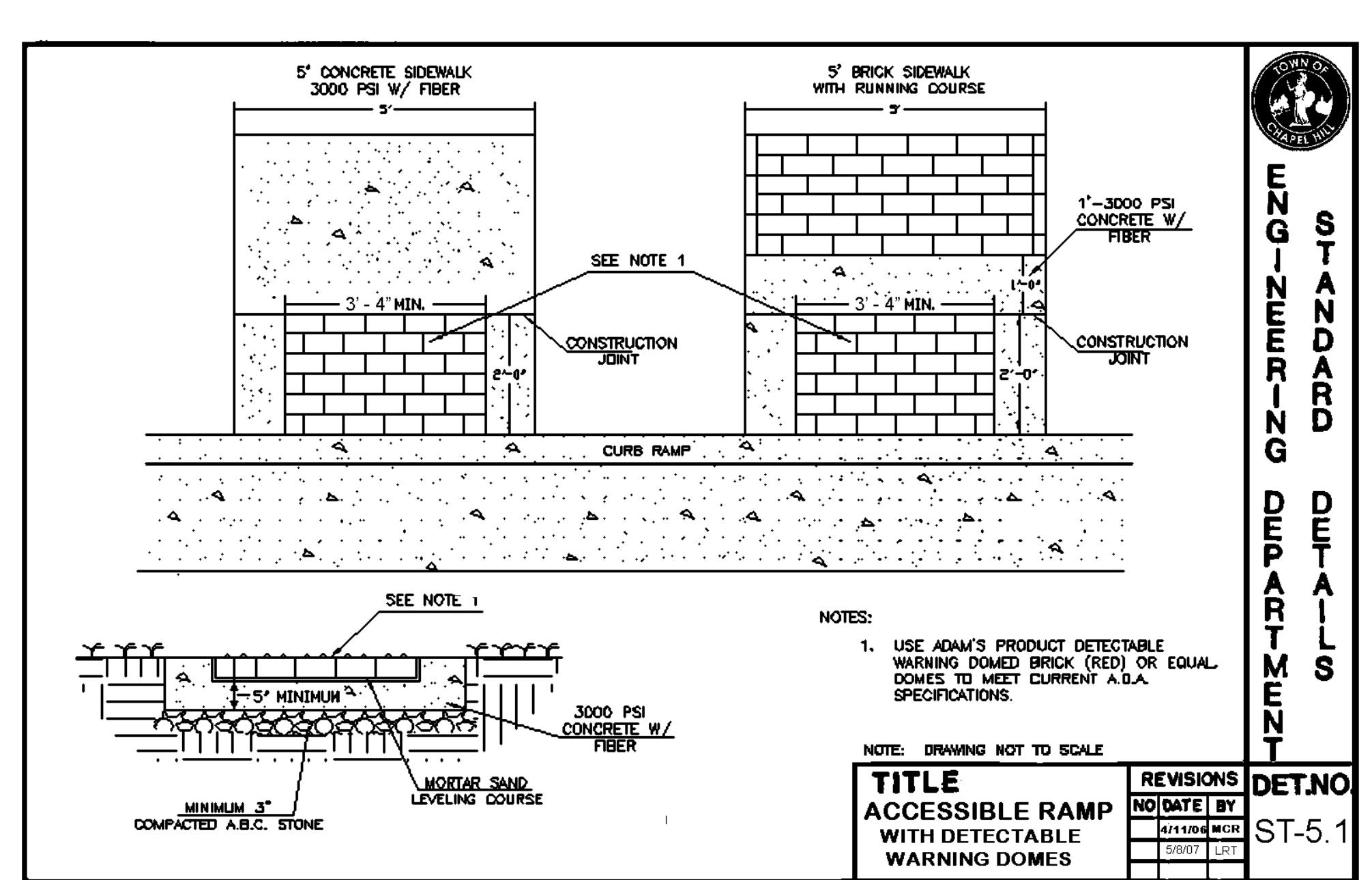
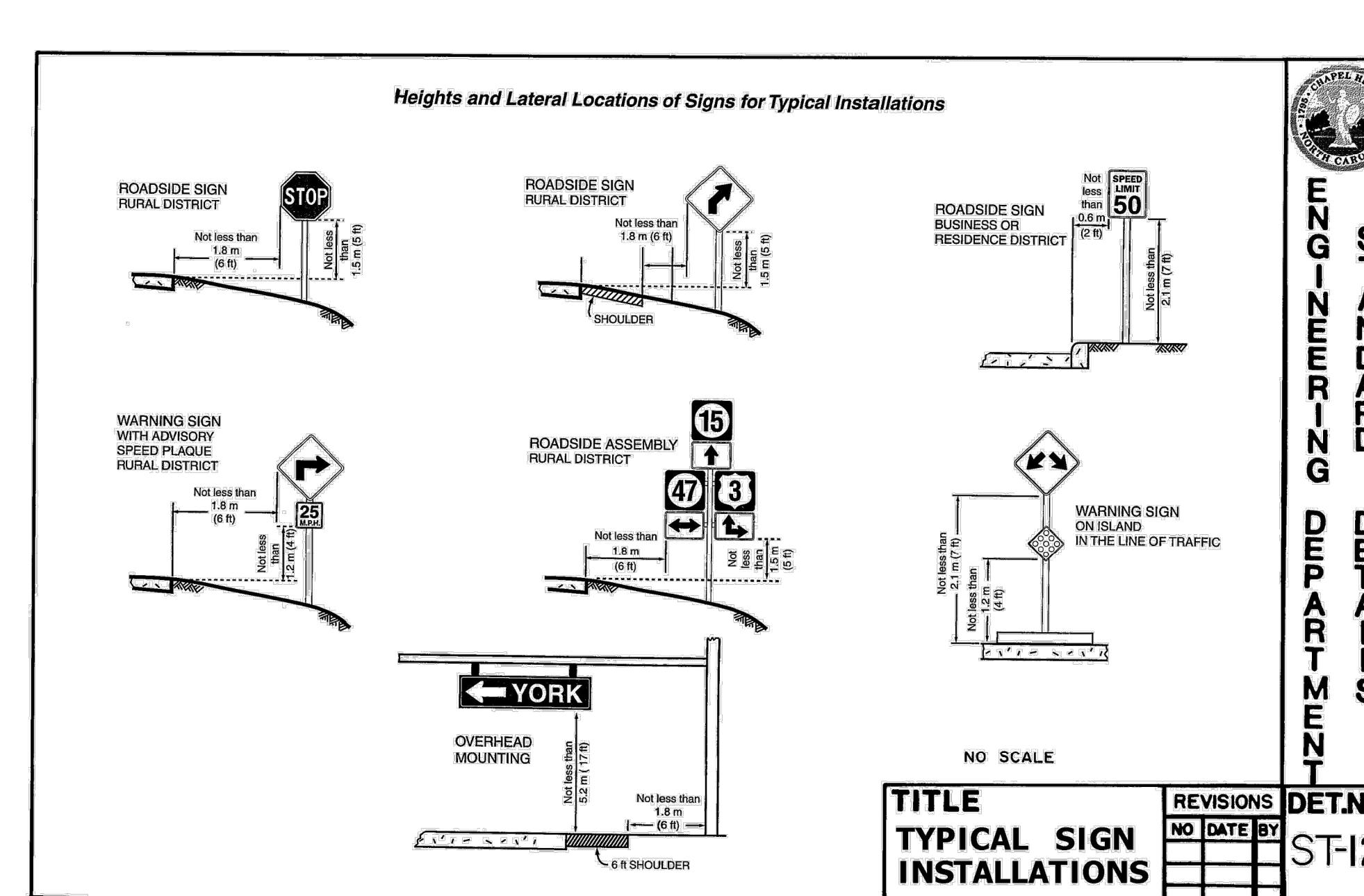
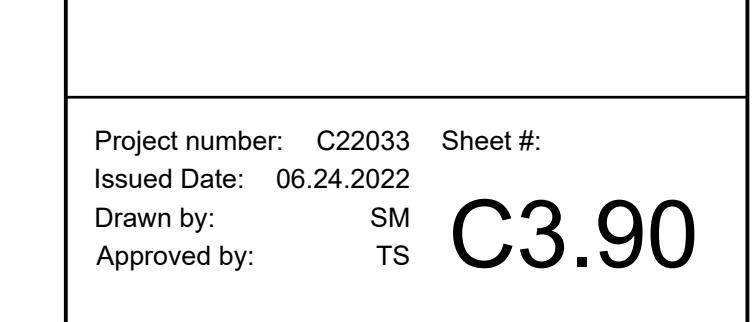
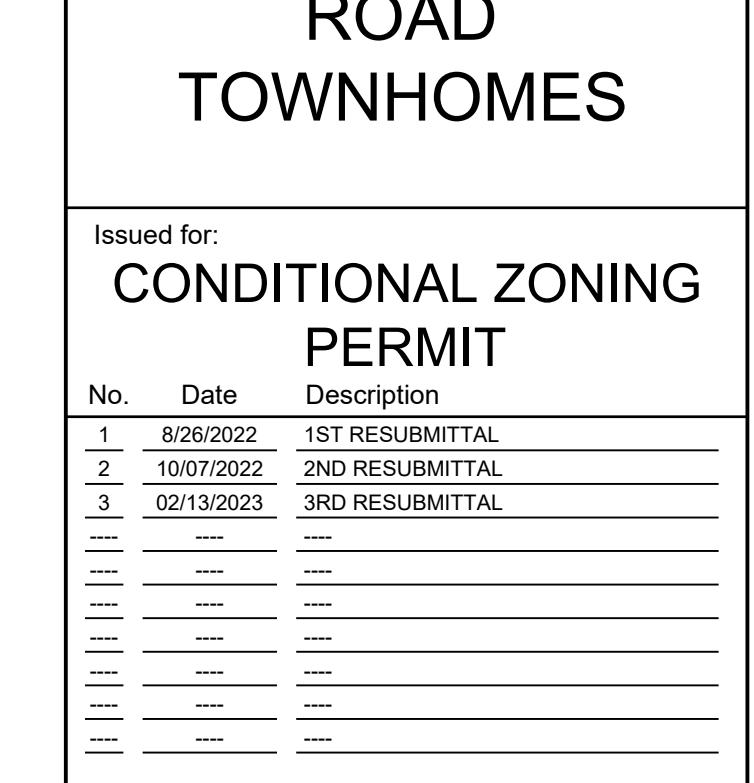
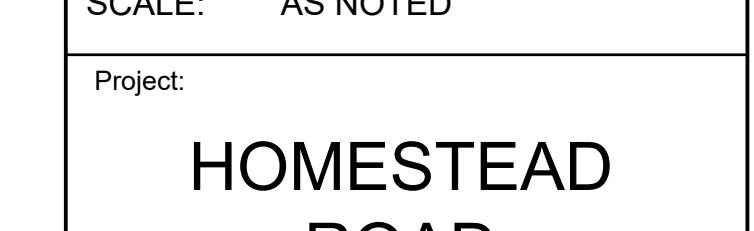
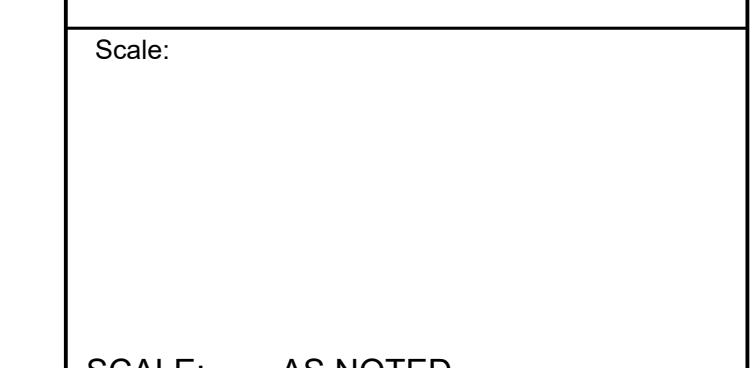
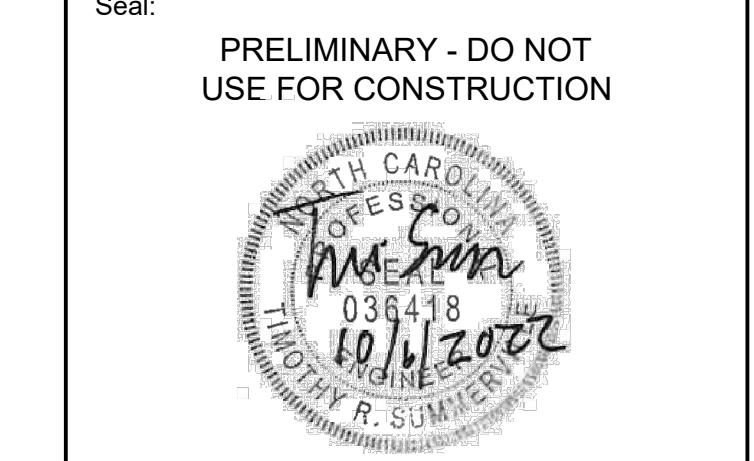
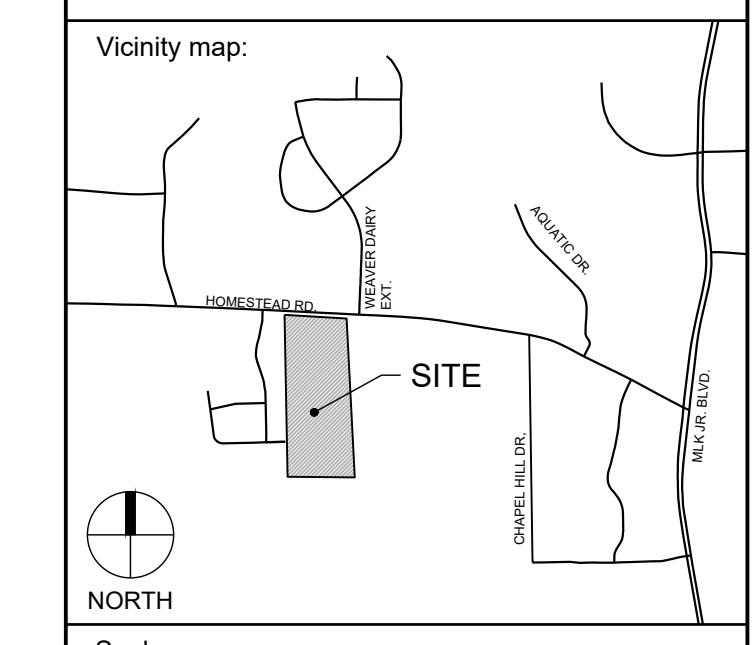
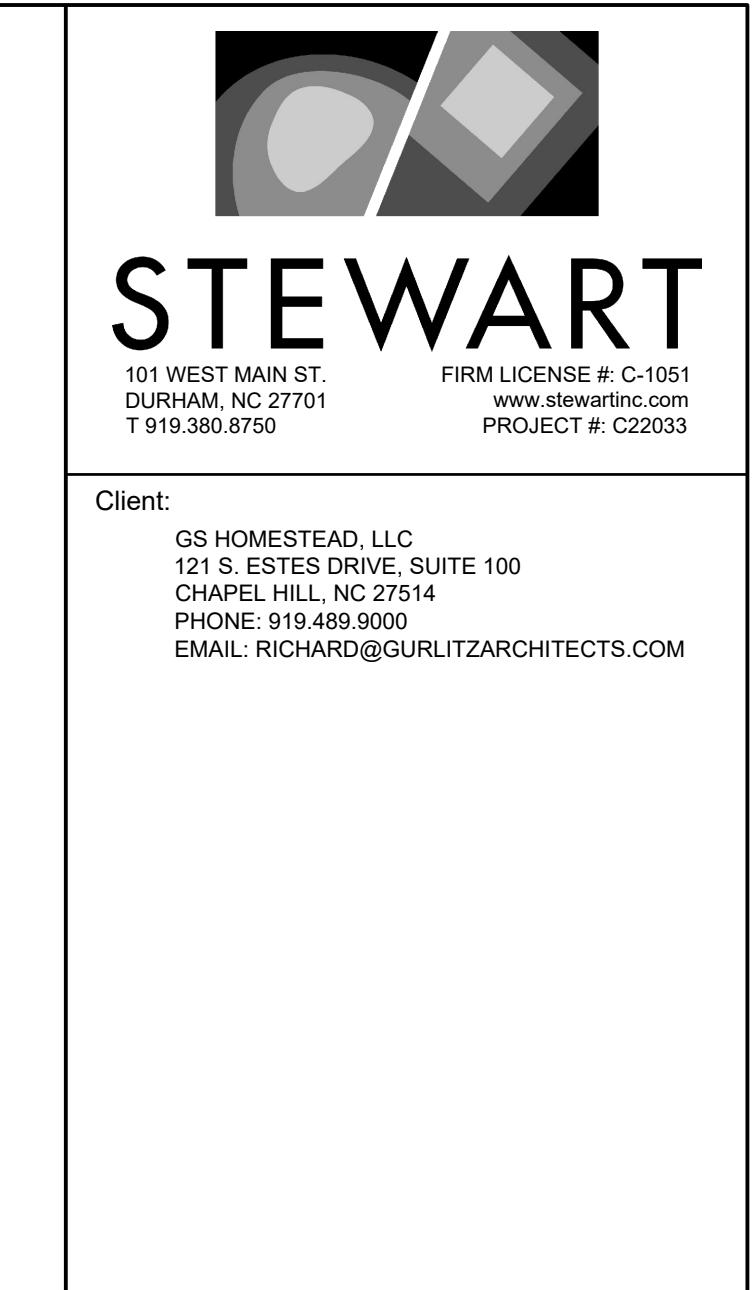
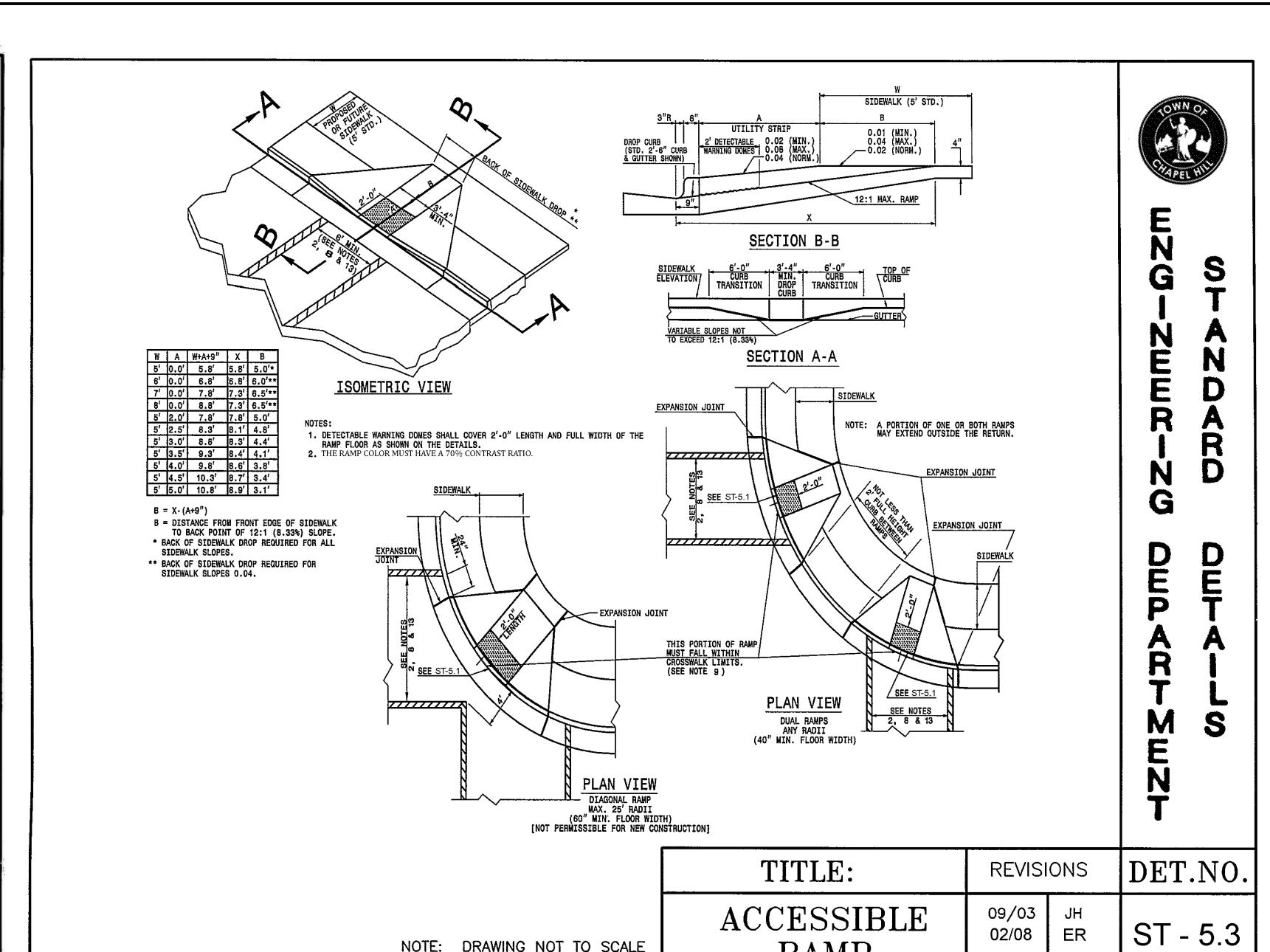
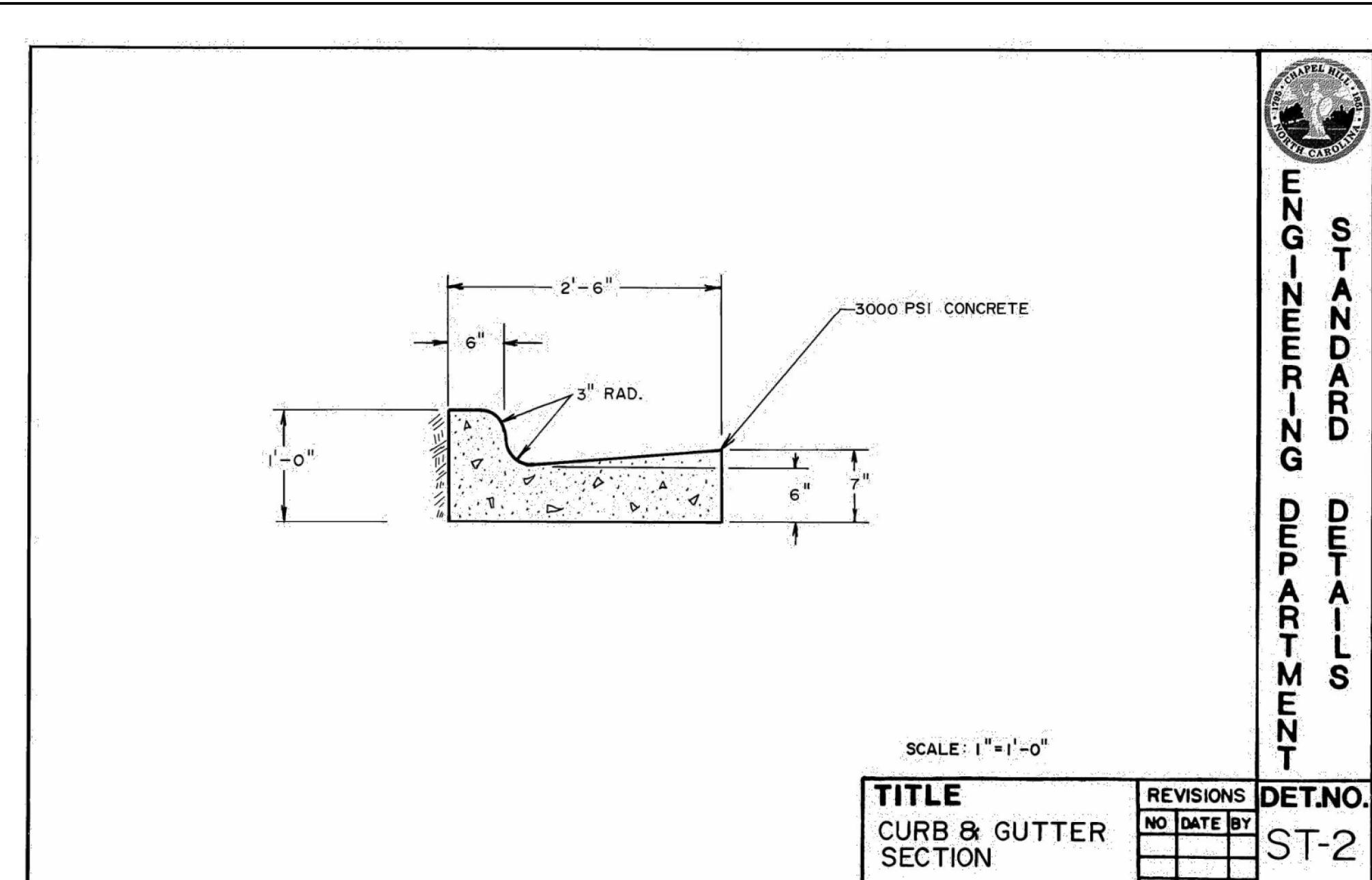
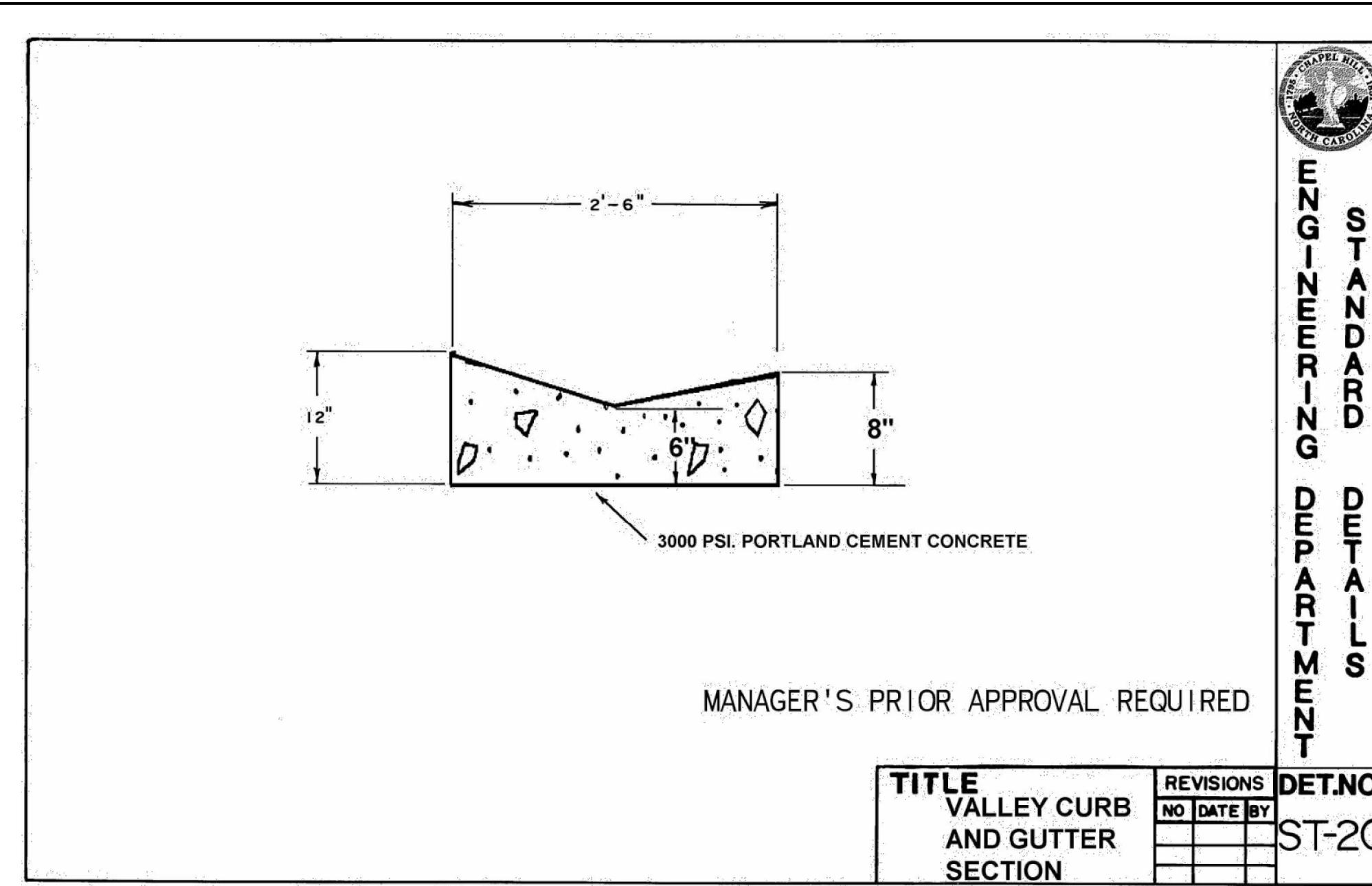
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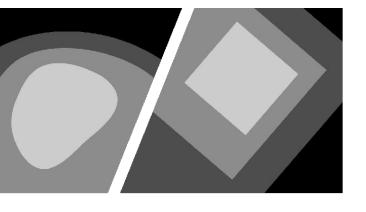
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3	02/13/2023	3RD RESUBMITTAL
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Title:
**CONSTRUCTION
MANAGEMENT PLAN**

Project number: C22033 Sheet #:
Issued Date: 06.24.2022
Drawn by: HNJ
Approved by: TS

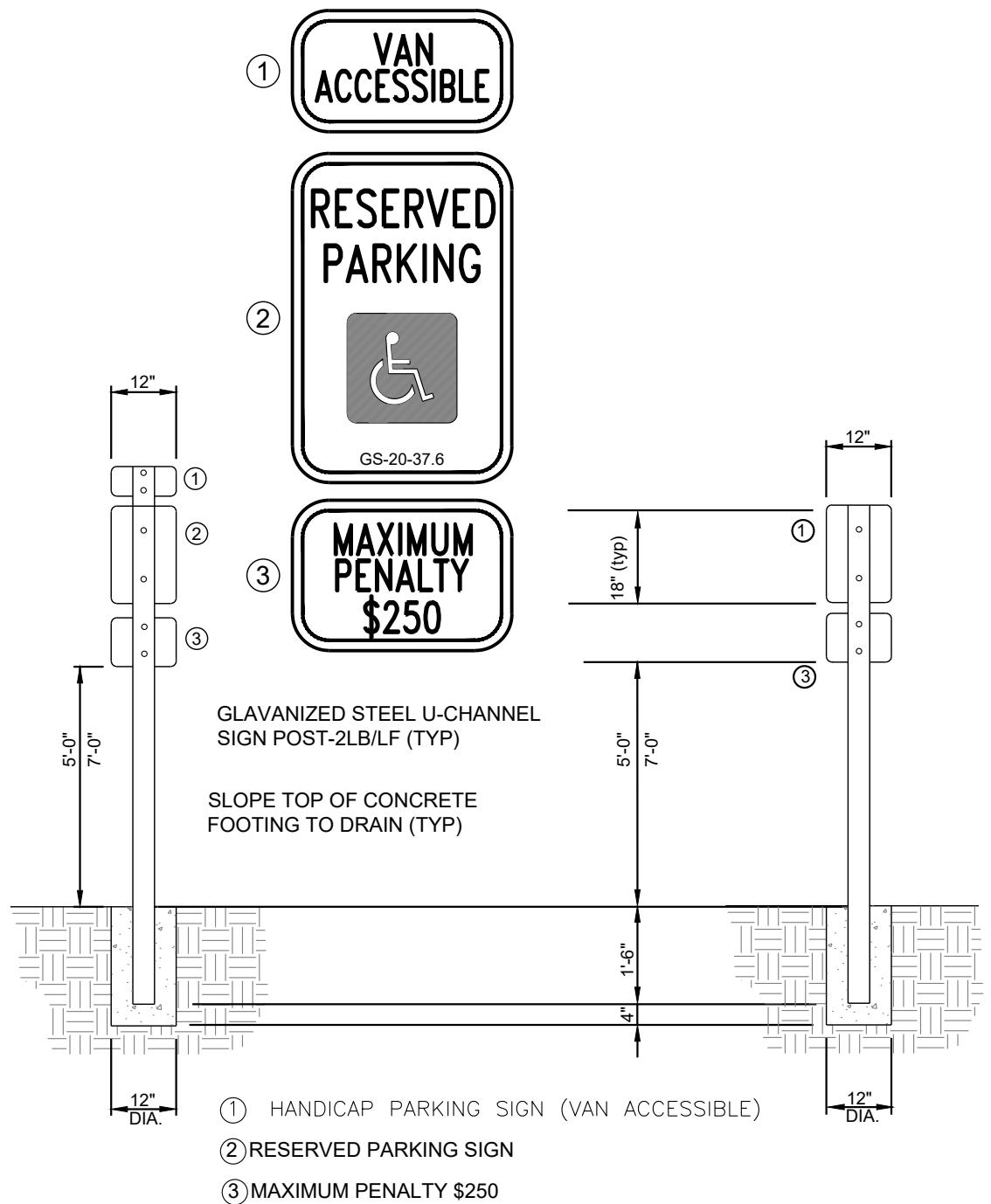
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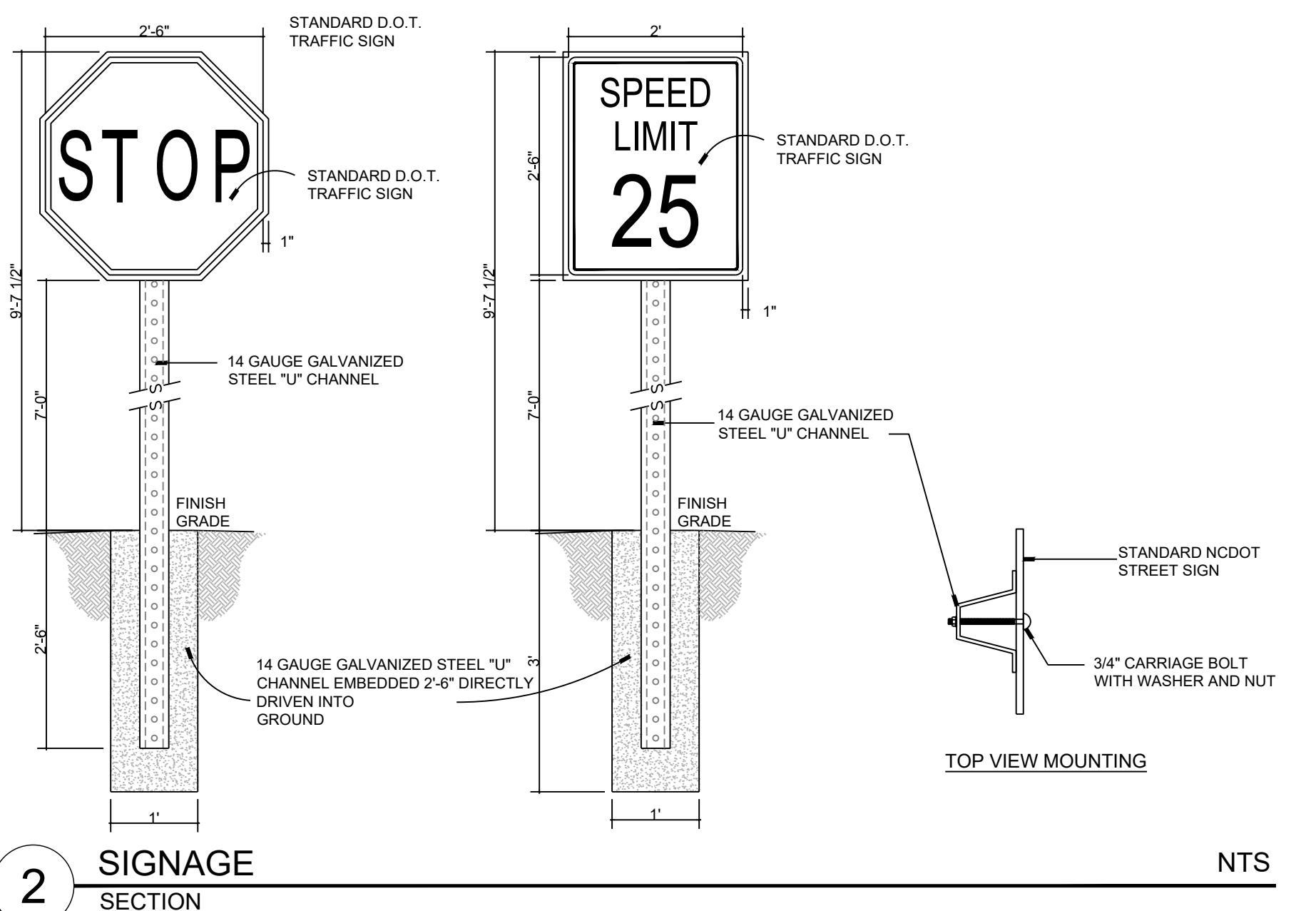
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Client:
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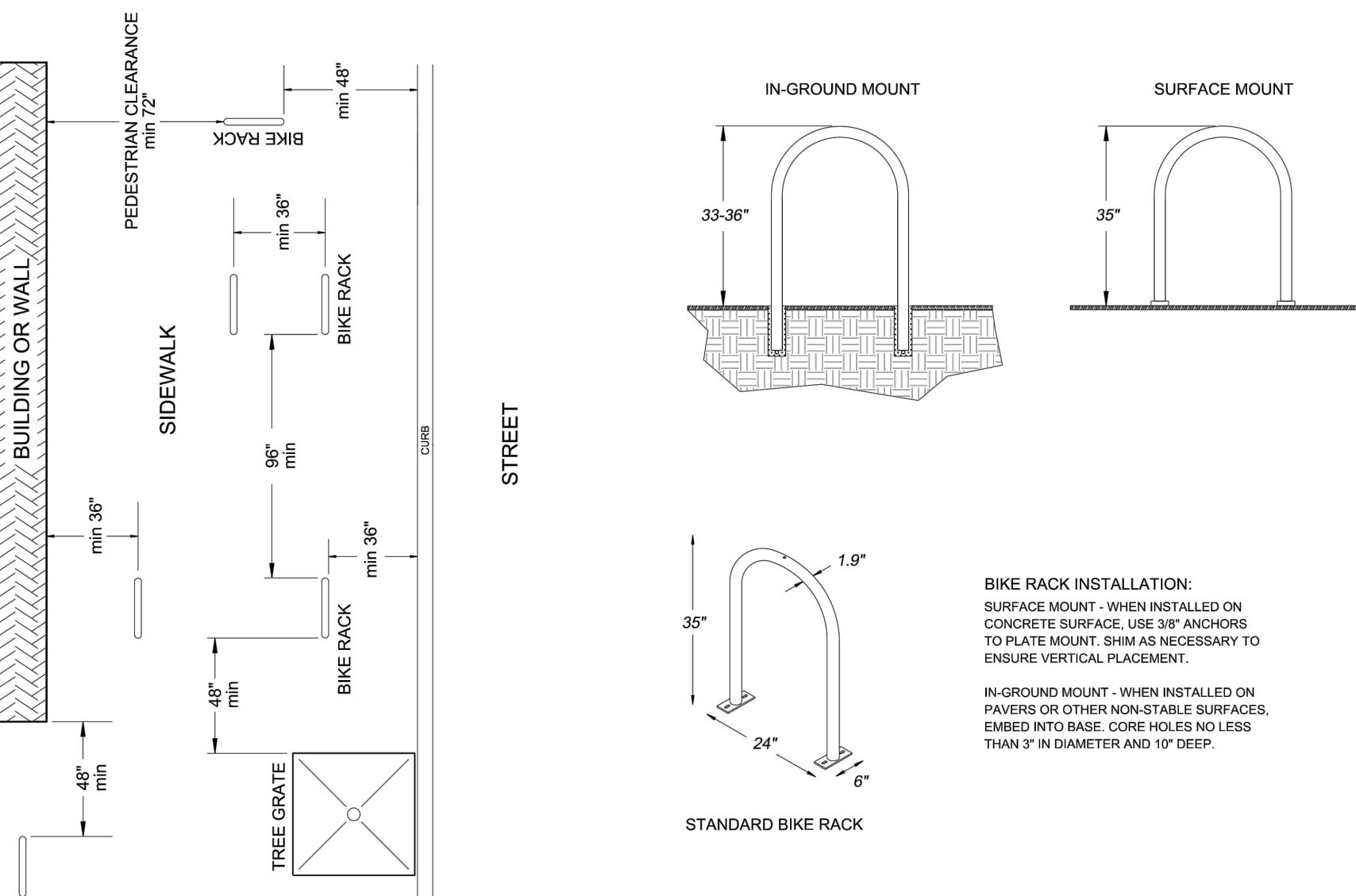
3 ADA PARKING
PLAN

NOTE:
1. THE RESERVED PARKING SIGN IS TO BE 5'-0" IF THE PEDESTRIAN PATH DOES NOT PASS UNDER OR AROUND SIGN.
2. THE RESERVED PARKING SIGN IS TO BE 7'-0" IF THE PEDESTRIAN PATH GOES BY, UNDER, OR AROUND THE SIGN.



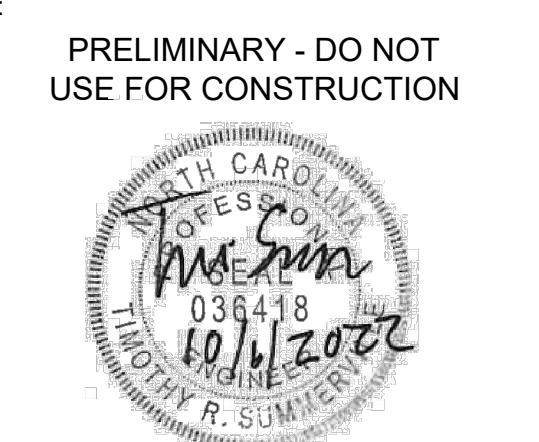
2 SIGNAGE
SECTION

NTS



4 EXTERIOR BYCYCLE PARKING
SECTION

NTS



Scale:

SCALE: AS NOTED

Project:

**HOMESTEAD
ROAD
TOWNHOMES**

Issued for:
**CONDITIONAL ZONING
PERMIT**

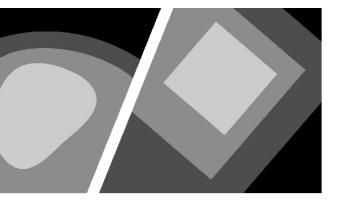
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Title:

SITE DETAILS

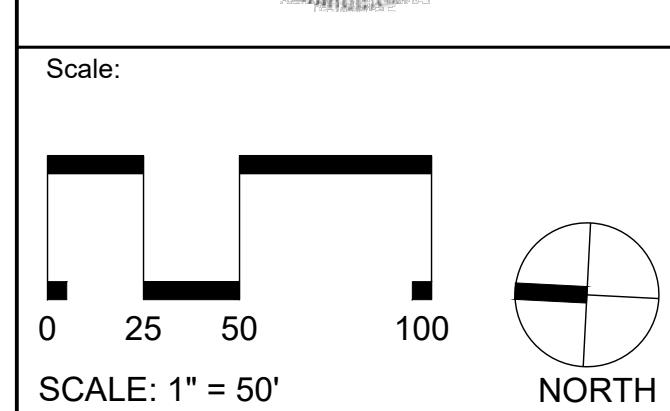
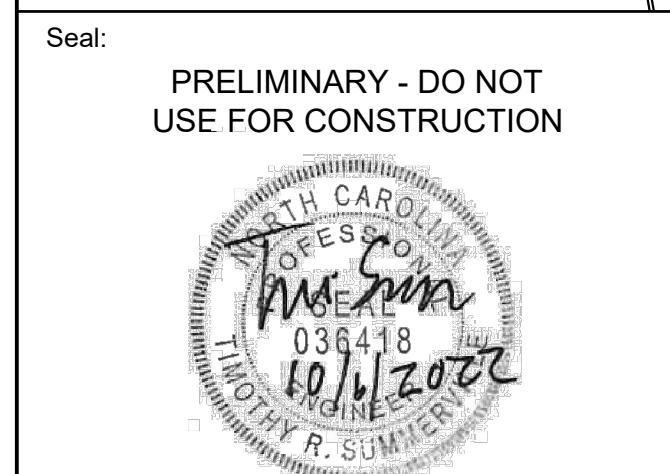
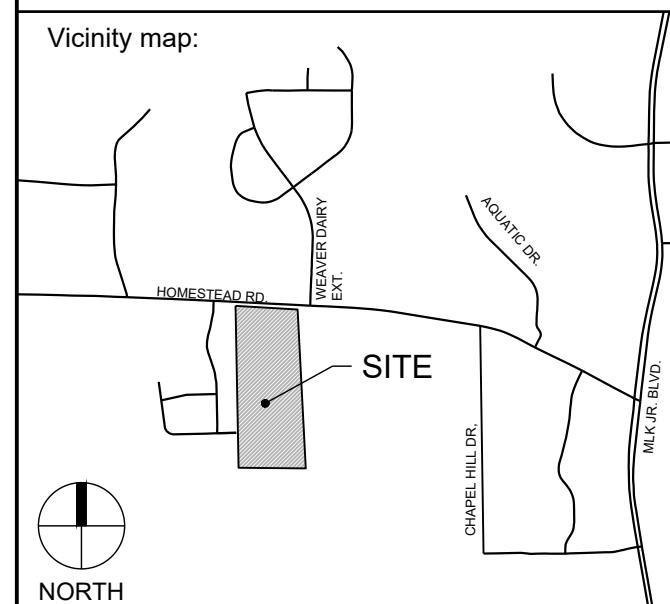
Project number: C22033 Sheet #:
Issued Date: 06.24.2022
Drawn by: SM
Approved by: TS

C3.91



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CHAPEL HILL, NC 27514
PHONE: 919.489.9000
EMAIL: RICHARD@GURLITZARCHITECTS.COM



Project:
**HOMESTEAD
ROAD
TOWNHOMES**

GRADING LEGEND:	
SYMBOL	DESCRIPTION
	PROPOSED JUNCTION BOX
	PROPOSED CATCH BASIN
	PROPOSED AREA DRAIN
	RIPRAP DISSIPATOR
	FLOW DIRECTION
	PROPOSED ELEVATION
	TC 44.50 TOP/BOTTOM OF CURB
	BC 44.00 TOP/BOTTOM OF WALL
	PROPOSED STORM DRAINAGE
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
NOTES:	
1. SEE SHEET C0.10 FOR GENERAL AND GRADING NOTES.	

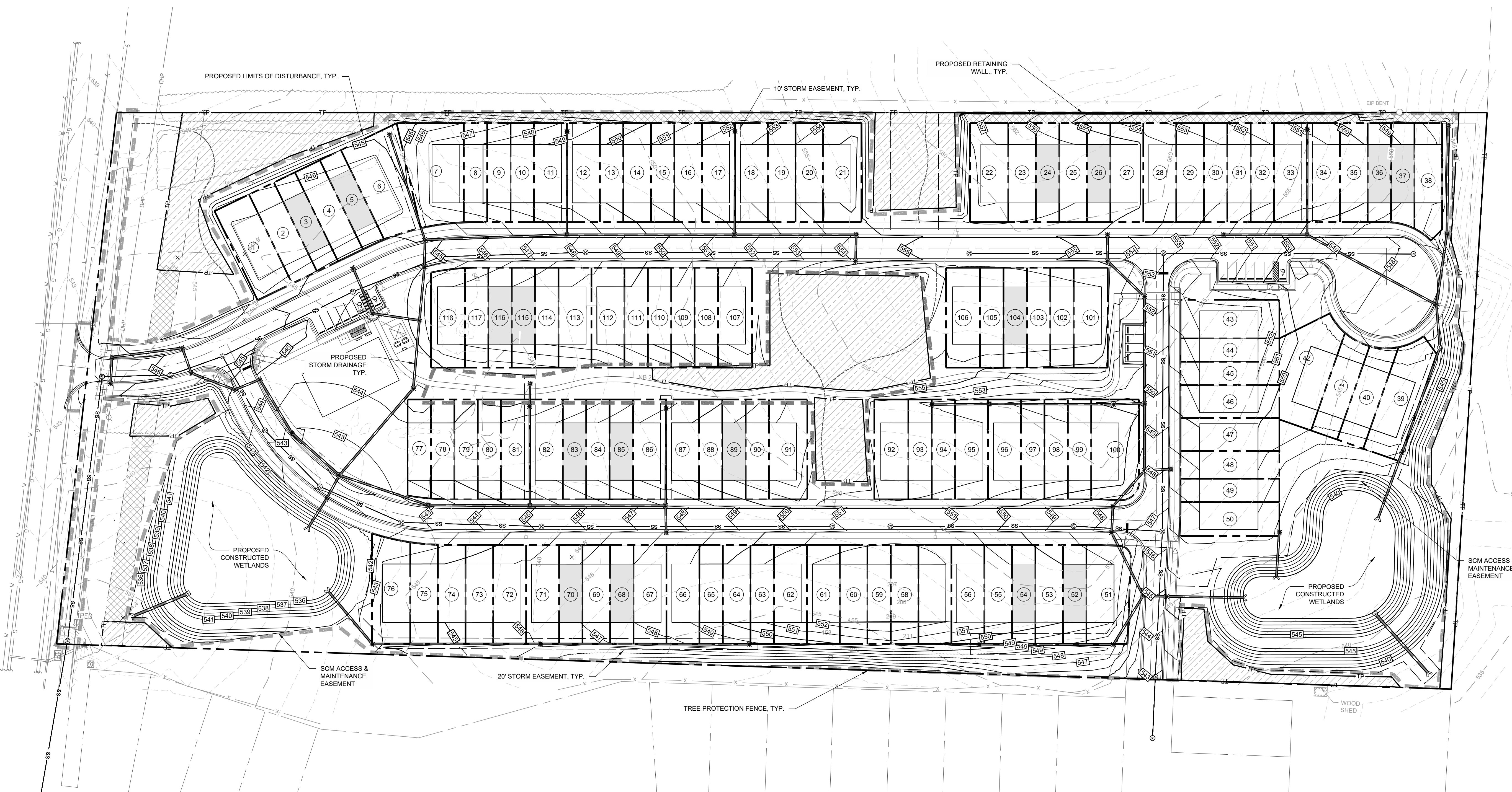
Project number: C22033 Sheet #:

Issued Date: 06.24.2022

Drawn by: SM

Approved by: TS

C5.00



Client:
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121 S. ESTES DRIVE, SUITE 100
CHAPEL HILL, NC 27514
PHONE: 919.489.9000
EMAIL: RICHARD@CLIPITZARCHITECTS.COM

Vicinity map:

Map showing the location of the SITE. The SITE is a shaded rectangular area bounded by HOMESTEAD RD. to the west, AQUATIC DR. to the east, and CHAPEL HILL DR. to the south. The address 1000 HOMESTEAD RD. is also indicated. A compass rose in the bottom left corner shows the cardinal directions.

1000 HOMESTEAD RD.

WEAVER DAIRY
EXT.

AQUATIC DR.

CHAPEL HILL DR.

SITE

NORTH

Seal: PRELIMINARY - DO NOT USE FOR CONSTRUCTION

The image shows a circular seal with a decorative border. Inside the border, the words "PRELIMINARY" and "DO NOT USE FOR CONSTRUCTION" are printed in a bold, sans-serif font. The seal is stamped over a faint background image of a bridge.

A scale bar and north arrow are shown. The scale bar consists of four horizontal segments: a short black segment at 0, a white segment with a black outline, a white segment with a black outline, and a short black segment at 100. Below the scale bar are the numbers 0, 25, 50, and 100. To the right of the scale bar is a north arrow, which is a circle divided into four quadrants by a horizontal and a vertical line, with a short black bar in the upper-left quadrant.

Project:

HOMESTEAD ROAD TOWNHOMES

Issued for:

CONDITIONAL ZONING PERMIT

Title:

UTILITY PLAN

Project number: C22033 Sheet #:
Issued Date: 06.24.2022
Drawn by: SM
Approved by: TS **C6.00**

Approved by: TS **60.00**

C6.00

This site plan illustrates the proposed infrastructure for a residential development, including the following key features:

- Proposed 8" WATERLINE:** A new water supply line is planned to be installed, with connections to existing waterlines and new EIP (End of Pipe) locations.
- Proposed 8" SANITARY SEWER:** A new sewer line is planned to be installed, with connections to existing sanitary sewer lines and new EIP locations.
- EXISTING DUKE POWER EASEMENT:** An existing 50' Duke Power easement is shown, with a width of 25' on each side of the centerline. The easement is identified with the code D.B. 858, PG. 96.
- EXISTING STORM DRAIN EASEMENT:** An existing 25' storm drain easement is shown, with the code P.B. 116, PG. 88.
- Utility Connections:** The plan shows various connections to existing utility lines, including "CONNECT TO EXISTING WATERLINE" and "CONNECT TO EXISTING SANITARY SEWER" points.
- Utility Points:** Key utility points are marked with "EIP" (End of Pipe) and "TP" (Tie Point) symbols.
- Survey Points:** Survey points are marked with "X" symbols along the property lines.
- Coordinate Markers:** Survey coordinates are provided for specific points: N89° 18' 04"E 206.56' (TIE), S02° 56' 02"E 1289.17', N89° 22' 06"W 53.80' [EIP TO EIP], and N01° 04' 32"W 1312.43'.
- Other Features:** The plan includes a "PROPOSED FIRE HYDRANT, TYP." and a "WOOD SHED".

UTILITY LEGEND:

SYMBOL	DESCRIPTION
	PROPOSED FIRE HYDRANT
	PROPOSED WATER VALVE
	EXISTING SANITARY SEWER MANHOLE
	PROPOSED SANITARY SEWER MANHOLE
	PROPOSED CLEANOUT
	PROPOSED FIRE DEPARTMENT CONNECTION (FDC)
	PROPOSED BACKFLOW METER
	PROPOSED POST INDICATOR VALVE (PIV)
	PROPOSED GREASE INTERCEPTOR
W	EXISTING WATER LINE
W	PROPOSED WATER LINE
SS	EXISTING SANITARY SEWER LINE
SS	PROPOSED SANITARY SEWER LINE
—	300' HYDRANT COVERAGE CIRCLE

Issued for:

CONDITIONAL ZONING PERMIT

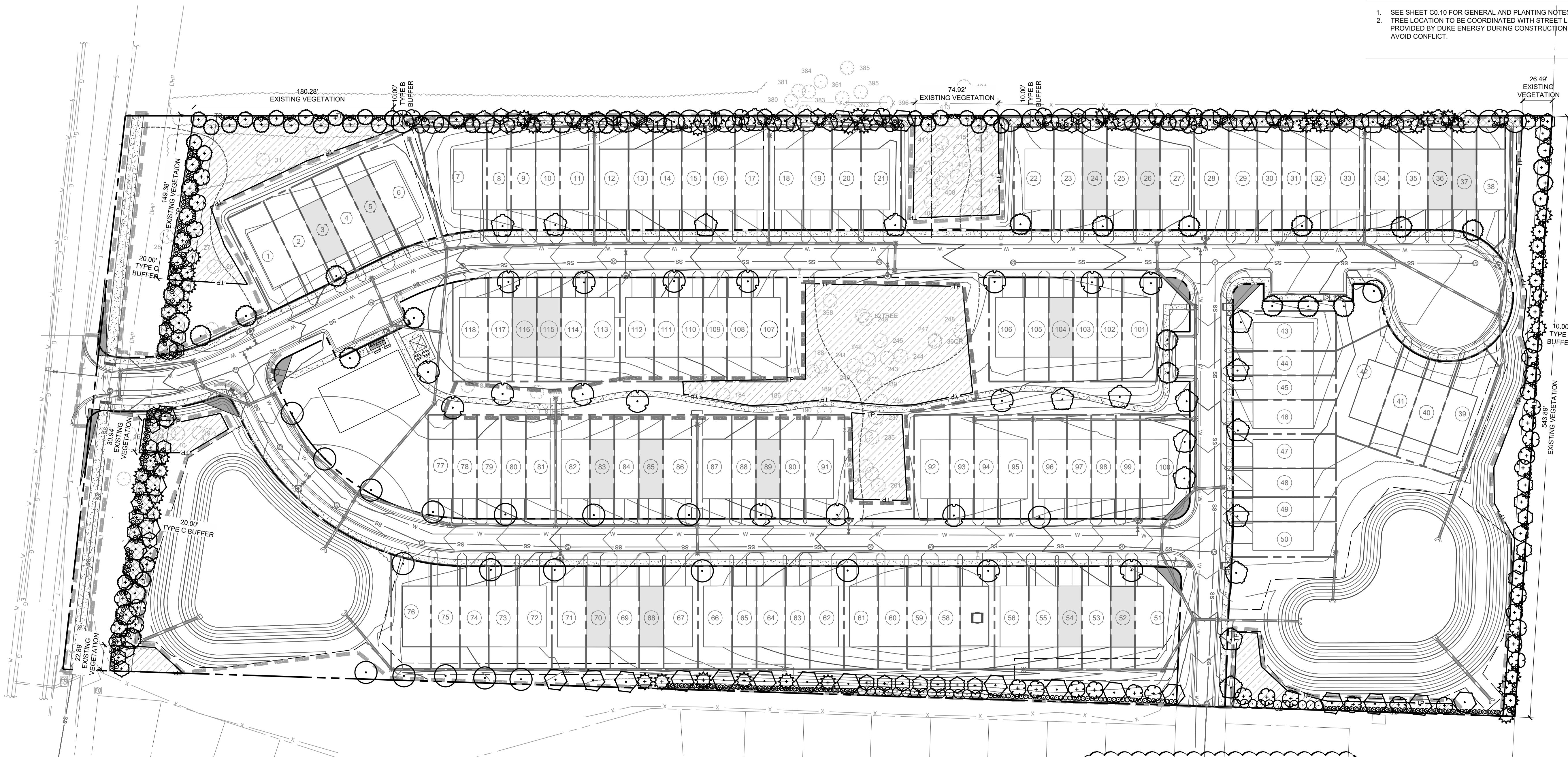
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3	02/13/2023	3RD RESUBMITTAL
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Title:

UTILITY PLAN

Project number: C220232 Sheet #:

NOTES:	Issued Date: 06.24.2022
1. SEE SHEET C0.10 FOR GENERAL AND UTILITY NOTES.	Drawn by: SM
	Approved by: TS
	C6.00



PLANT SCHEDULE TYPE C BUFFER							
CANOPY TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER	CALIPER	HEIGHT	NOTES
	BH	6	BETULA NIGRA 'HERITAGE' HERITAGE RIVER BIRCH	B&B	2.5 IN	12 TO 14 FT	
	QH	7	QUERCUS PHELLOS 'HIGHTOWER' HIGHTOWER WILLOW OAK	B&B	2.5 IN	12 TO 14 FT	
UNDERSTORY TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER	CALIPER	HEIGHT	NOTES
	AA	11	AMELANCHIER ARBOREA DOWNY SERVICEBERRY	B&B	1 IN	8 FT	
	CC	16	CERCIS CANADENSIS EASTERN REDBUD	B&B	1 IN	8 FT	
	IS	8	ILEX X 'NELLIE R. STEVENS' NELLIE STEVENS HOLLY	B&B	1 IN	8 FT	
	MS	12	MAGNOLIA VIRGINIANA SWEETBAY MAGNOLIA	B&B	1 IN	8 FT	
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER	-	HEIGHT	NOTES
	IG	58	ILEX GLABRA INKBERRY HOLLY	CONT.		18 IN	
	IN	61	ILEX VOMITORIA 'NANA' DWARF YAUPON HOLLY	CONT.		18 IN	
	VC	48	VIBURNUM AWABUKI 'CHINDO' CHINDO SWEET VIBURNUM	CONT.		18 IN	

PLANT SCHEDULE TYPE B BUFFER							
CANOPY TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER	CALIPER	HEIGHT	NOTE
	AR	11	ACER RUBRUM 'OCTOBER GLORY' OCTOBER GLORY RED MAPLE	B&B	2.5 IN	12 TO 14 FT	
	BH	7	BETULA NIGRA 'HERITAGE' HERITAGE RIVER BIRCH	B&B	2.5 IN	12 TO 14 FT	
	NS	9	NYSSA SYLVATICA TUPELO	B&B	2.5 IN	12 TO 14 FT	
	QH	10	QUERCUS PHELLOS 'HIGHTOWER' HIGHTOWER WILLOW OAK	B&B	2.5 IN	12 TO 14 FT	
UNDERSTORY TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER	CALIPER	HEIGHT	NOTE
	AA	29	AMELANCHIER ARBOREA DOWNY SERVICEBERRY	B&B	1 IN	8 FT	
	CC	29	CERCIS CANADENSIS EASTERN REDBUD	B&B	1 IN	8 FT	
	IS	37	ILEX X 'NELLIE R. STEVENS' NELLIE STEVENS HOLLY	B&B	1 IN	8 FT	
	MS	28	MAGNOLIA VIRGINIANA SWEETBAY MAGNOLIA	B&B	1 IN	8 FT	
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER	-	HEIGHT	NOTE
	IG	59	ILEX GLabra INKBERRY HOLLY	CONT.		18 IN	
	IN	62	ILEX VOMITORIA 'NANA' DWARF YAUPON HOLLY	CONT.		18 IN	
	VC	90	VIBURNUM AWABUKI 'CHINDO' CHINDO SWEET VIBURNUM	CONT.		18 IN	

PLANT SCHEDULE INTERNAL PLANTING							
CANOPY TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER	CALIPER	HEIGHT	NOTES
•	AR	19	ACER RUBRUM 'OCTOBER GLORY' OCTOBER GLORY RED MAPLE	B&B	2.5 IN	12 TO 14 FT	
•	BH		BETULA NIGRA 'HERITAGE' HERITAGE RIVER BIRCH	B&B	2.5 IN	12 TO 14 FT	
•	NS		NYSSA SYLVATICA TUPELO	B&B	2.5 IN	12 TO 14 FT	
•	QN		QUERCUS NUTTALLII NUTTALL OAK	B&B	2.5 IN	12 TO 14 FT	
•	QH		QUERCUS PHELLOS 'HIGHTOWER' HIGHTOWER WILLOW OAK	B&B	2.5 IN	12 TO 14 FT	
UNDERSTORY TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER	CALIPER	HEIGHT	NOTES
+	AA	12	AMELANCHIER ARBOREA DOWNY SERVICEBERRY	B&B	1 IN	8 FT	
+	CC	7	CERCIS CANADENSIS EASTERN REDBUD	B&B	1 IN	8 FT	
+	MS	6	MAGNOLIA VIRGINIANA SWEETBAY MAGNOLIA	B&B	1 IN	8 FT	
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER	-	HEIGHT	NOTES
•	FL	26	FORSYTHIA X INTERMEDIA 'LYNWOOD GOLD' LYNWOOD GOLD FORSYTHIA	CONT.		2'-2.5'	
•	IJ	43	ILEX CRENATA 'STEEDS' STEEDS JAPANESE HOLLY	CONT.		18-24"	
•	LG	84	LOROPETALUM CHINENSE 'PURPLE DIAMOND' PURPLE DIAMOND LOROPETALUM	CONT.		18-24"	

TREE CANOPY COVERAGE CALCULATIONS

BUFFER PLANTING CALCULATION:

TREE CANOPY COVERAGE CALCULATIONS	
TREE CANOPY COVERAGE REQUIRED:	30%
NET LAND AREA:	15.65 AC / 681,714 SF
AREA EXEMPT FROM TREE CANOPY CALCULATIONS:	
RECREATIONAL AREAS:	25,564 SF
DUKE POWER EASEMENT:	26,022 SF
STORMWATER EASEMENT:	90,430 SF
RIGHT-OF-WAY:	123,276 SF
TOTAL LAND ARE EXEMPTED:	265,292 SF
APPLICABLE LAND AREA:	416,422 SF
TREE CANOPY REQUIRED:	124,926 SF (30%)
EXISTING TREE CANOPY TO REMAIN:	57,288 SF
ADDITIONAL TREE CANOPY REQUIRED:	67,638 SF
REQUIRED REPLACEMENT TREES (1 PER 500 SF):	136
PROPOSED REPLACEMENT TREES:	136
PLANTED CANOPY TREES:	51

TYPE 'B' 10 FT INTERNAL BUFFER:

PLANTS REQUIRED PER 100 LF

- 4 LARGE TREES
- 7 SMALL TREES
- 12 SHRUBS

1,750 LF TOTAL LENGTH

LESS 825 LF OF EXISTING TREE CANOPY*

APPLICABLE LENGTH = 925 LF

REQUIRED: PROPOSED:

37 LG TREES	37 LG TREES
65 SMALL TREES	65 SMALL TREES
111 SHRUBS	111 SHRUBS

SUPPLEMENTAL PLANTING IN BUFFER WITH EXISTING VEGETATION*

- 58 SMALL TREES

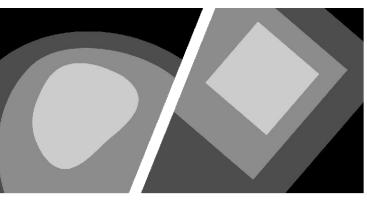
- 100 SHRUBS

*NOTE:

- EXISTING VEGETATION SHALL BE USED TO SATISFY SOME OF THE REQUIRED BUFFER PLANTING. SEE PLAN FOR LOCATION AND LENGTH.
- SUPPLEMENTAL PLANTING ARE PROVIDED IN BUFFER AREA WHERE EXISTING VEGETATION ARE USED TO MEET REQUIREMENT. SUPPLEMENTAL PLANTING SHALL INCLUDE UNDERSTORY TREES AND EVERGREEN SHRUBS. SEE PLAN FOR LOCATION AND PLACEMENT.

CODE PLANTING PLAN

Project number: C22033 Sheet #:
Issued Date: 06.24.2022
Drawn by: SM L
Approved by: CH 7



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FIRM LICENSE #: C-1051
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CHAPEL HILL, NC 27514
PHONE: 919.489.9000
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Vicinity map:

The map shows the following features and labels:

- HOMESTEAD RD**: A horizontal road running through the center of the map.
- WEAVER DAIRY EXIT**: A road leading off from Homestead Rd to the right.
- AQUATIC DR**: A road curving upwards and to the right from Homestead Rd.
- CHAPEL HILL DR**: A road curving downwards and to the right from Homestead Rd.
- SITE**: A shaded rectangular area on Homestead Rd, with a small black dot indicating a specific point within it.
- NORTH**: A compass rose indicating the cardinal directions.

A circular seal for a landscape architect. The outer ring contains the text "NORTH CAROLINA" at the top and "LANDSCAPE ARCHITECT" at the bottom. The inner circle features a signature "Cindy Hoffmann" in the center, with "PLS" and "NCT" written vertically on either side. At the bottom of the inner circle is "SYNTHIA E. HOFFMAN". A five-pointed star is positioned at the top and bottom of the inner circle. The date "10.06.2022" is printed in the center of the inner circle. The entire seal is rendered in black and white.

Scale: 0 25 50 100

SCALE: 1" = 50'

NORTH

Project:	HOMESTEAD ROAD TOWNHOMES
Issued for:	CONDITIONAL ZONING

Title:

CODE PLANTING PLAN

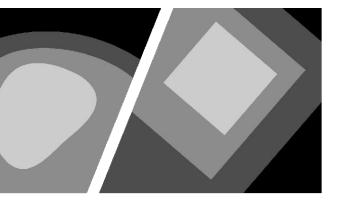
Project number: C22033 Sheet #:

Issued Date: 06.24.2022

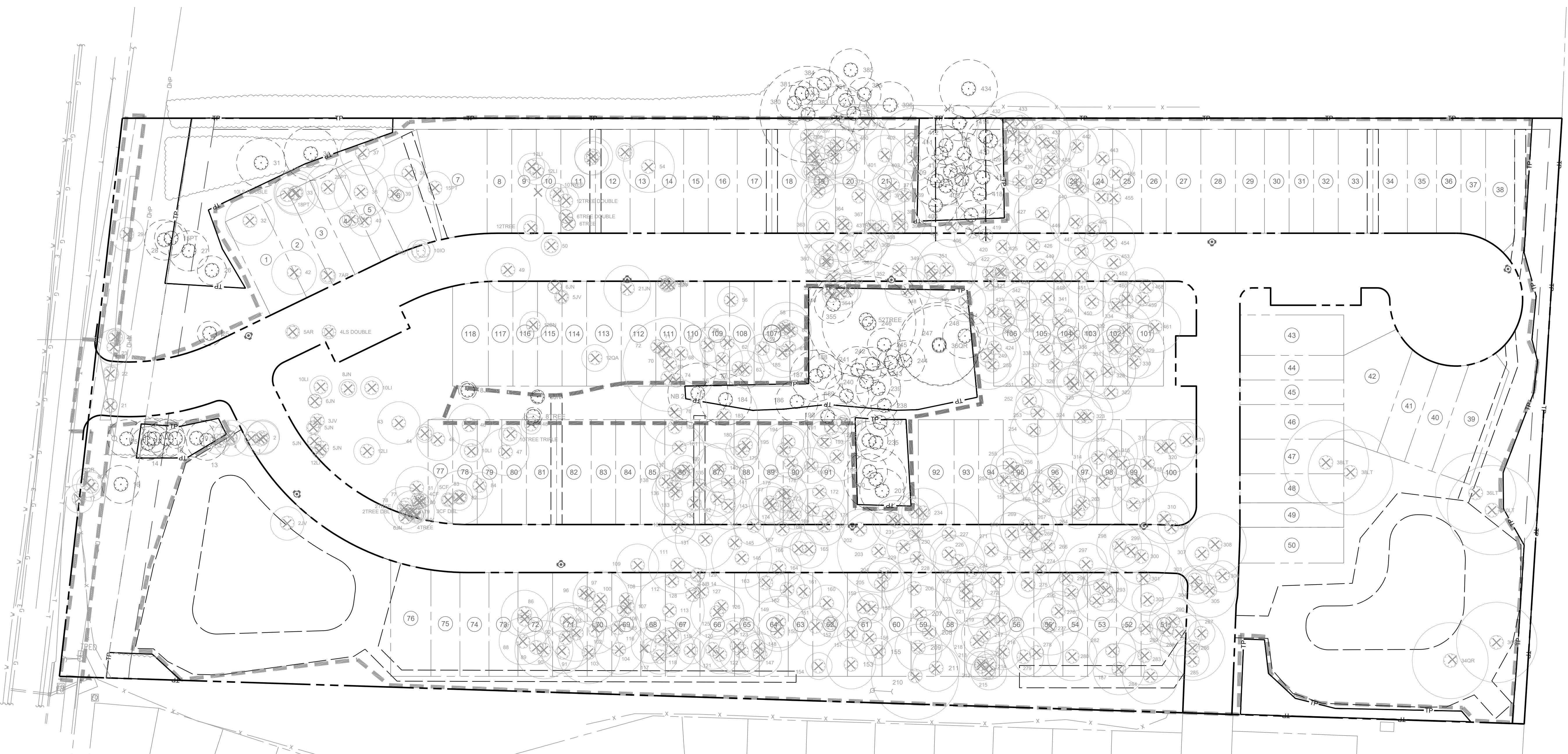
Drawn by: SM

Approved by: CH

L7.00

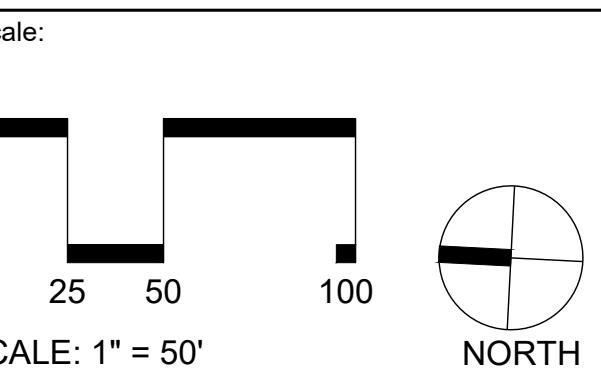
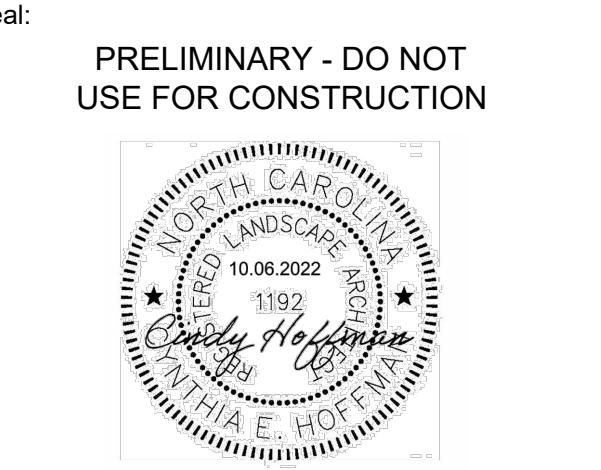
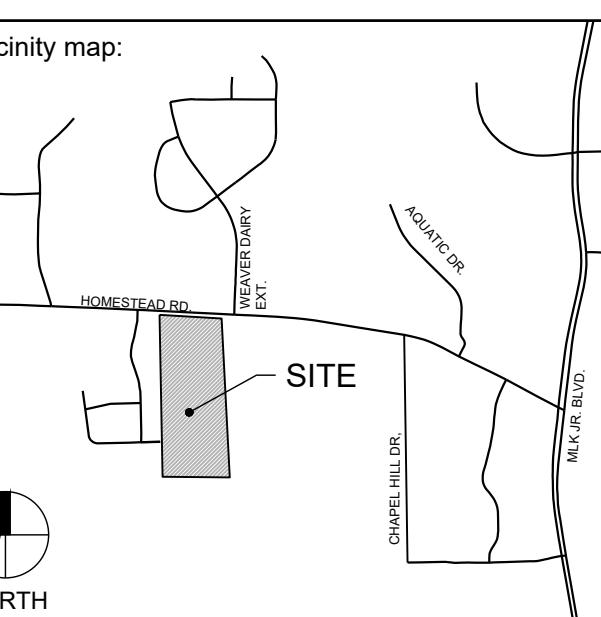


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LINETYPE LEGEND:	
Symbol	Description
-----	LIMITS OF DISTURBANCE
-----	PROPERTY LINE
TP	TREE PROTECTION FENCE
○	EXISTING TREE TO REMAIN
○ X	EXISTING TREE TO BE REMOVED

Client:
GS HOMESTEAD, LLC
121 S. ESTES DRIVE, SUITE 100
CHAPEL HILL, NC 27514
PHONE: 919.489.9000
EMAIL: RICHARD@GURLITZARCHITECTS.COM



Project:
**HOMESTEAD
ROAD
TOWNHOMES**

Issued for:
**CONDITIONAL ZONING
PERMIT**

No.	Date	Description
1	8/26/2022	1ST RESUBMITTAL
2	10/07/2022	2ND RESUBMITTAL
3	02/13/2023	3RD RESUBMITTAL
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Title:

**LANDSCAPE
PROTECTION PLAN**

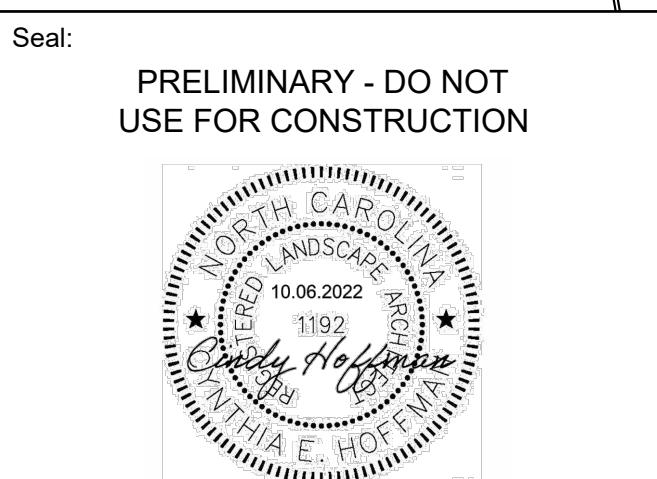
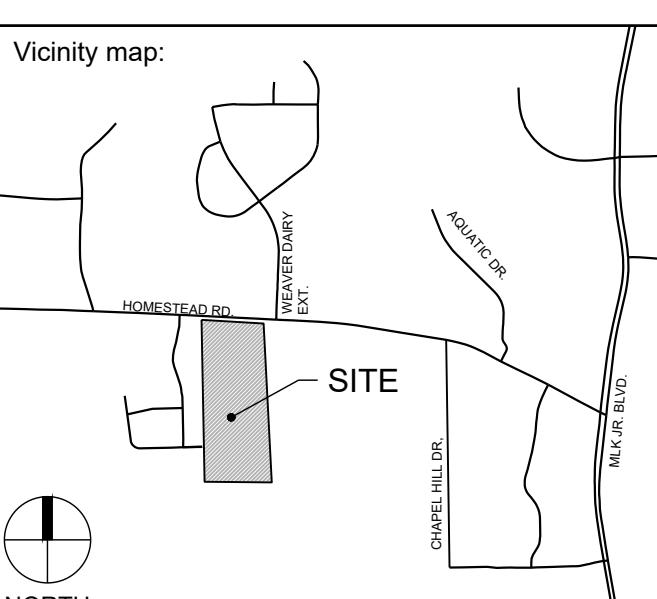
Project number: C22033 Sheet #:
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Drawn by: SM
Approved by: CH

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Scale:



Project:
**HOMESTEAD
ROAD
TOWNHOMES**

Issued for:
**CONDITIONAL ZONING
PERMIT**

No. Date Description

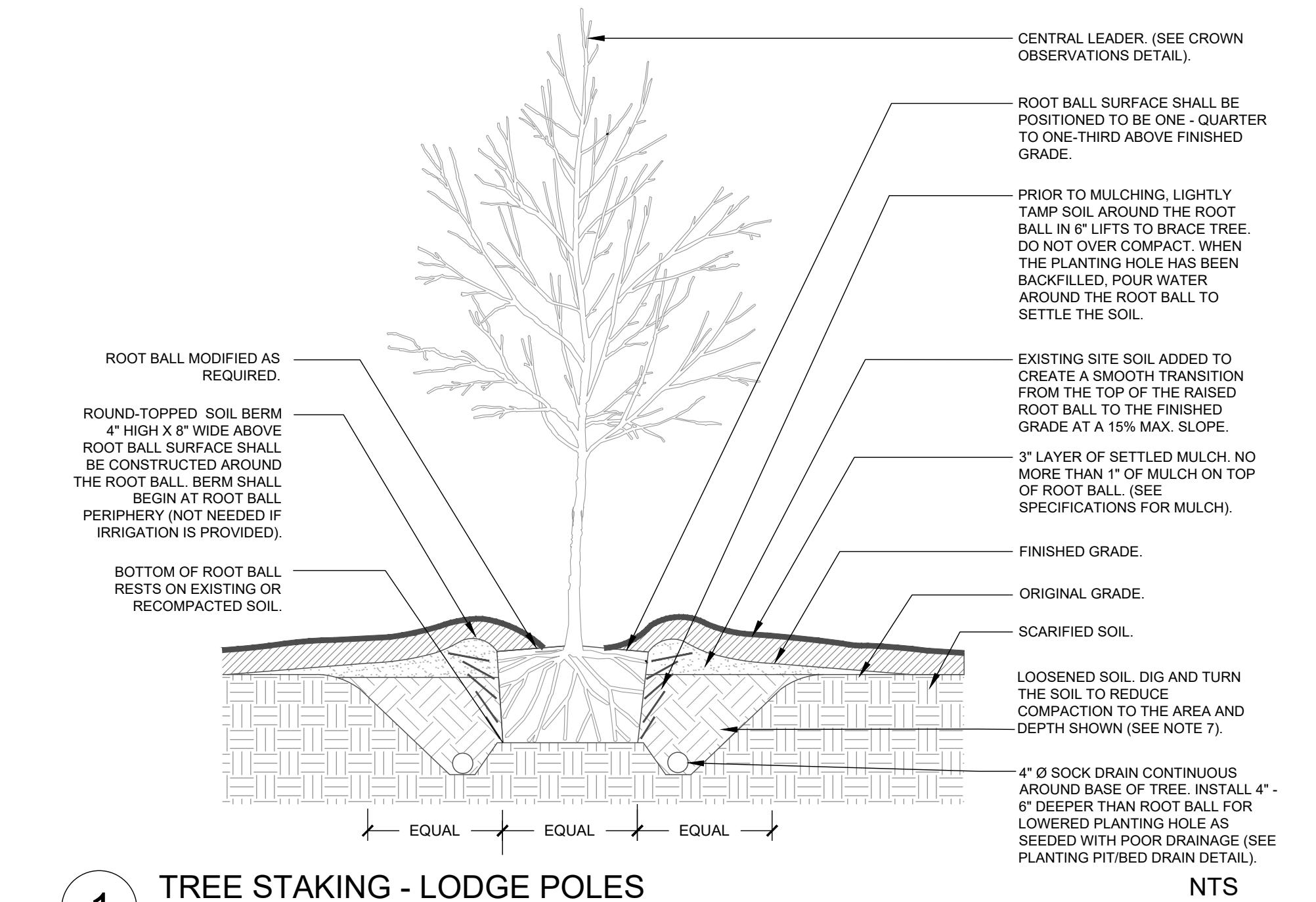
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LEGEND:
RARE TREE REMOVED

**LANDSCAPE
PROTECTION PLAN -
TREE SURVEY**

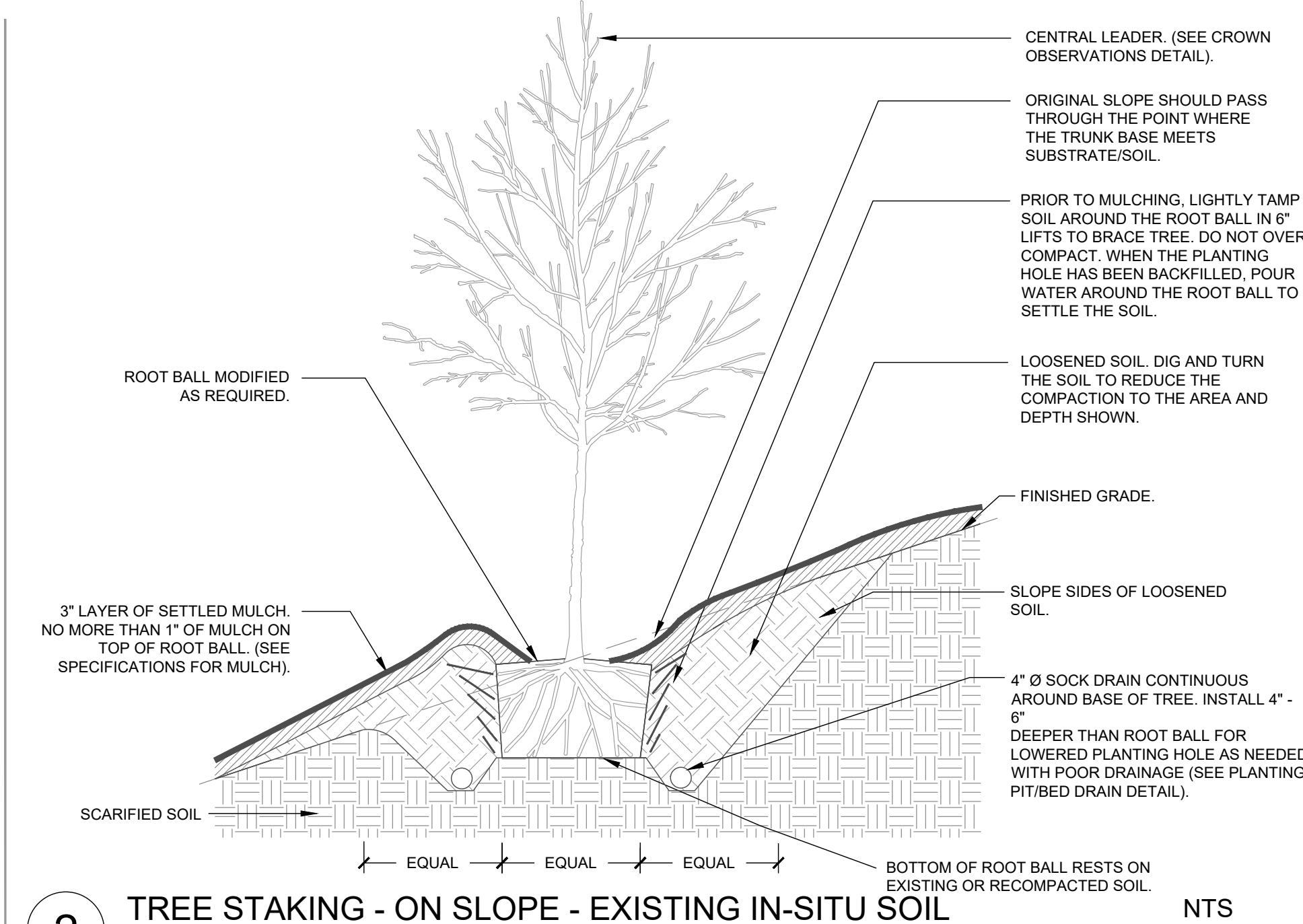
Project number: C22033 Sheet #:
Issued Date: 06.24.2022
Drawn by: SM
Approved by: CH

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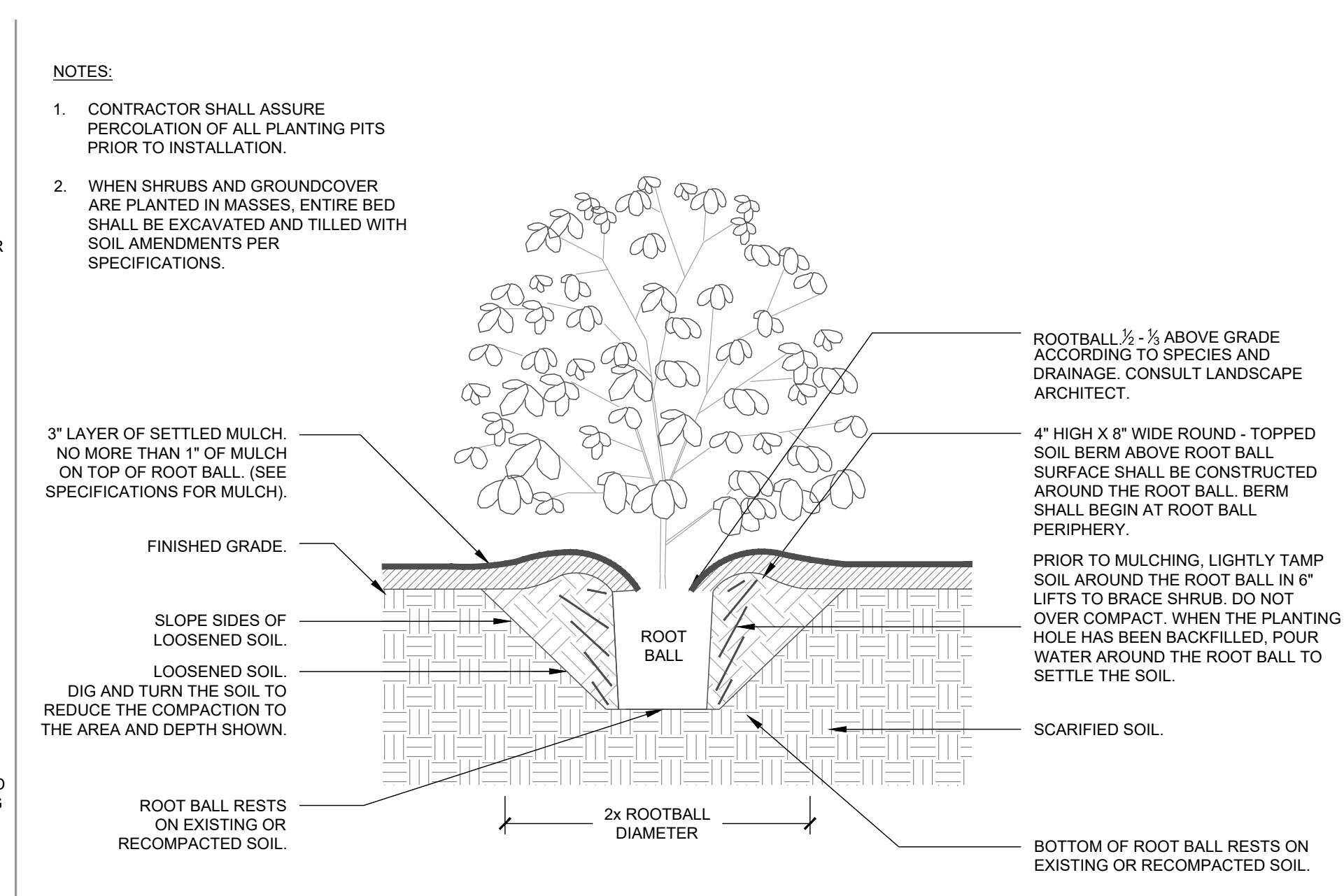
1 TREE STAKING - LODGE POLES

NTS



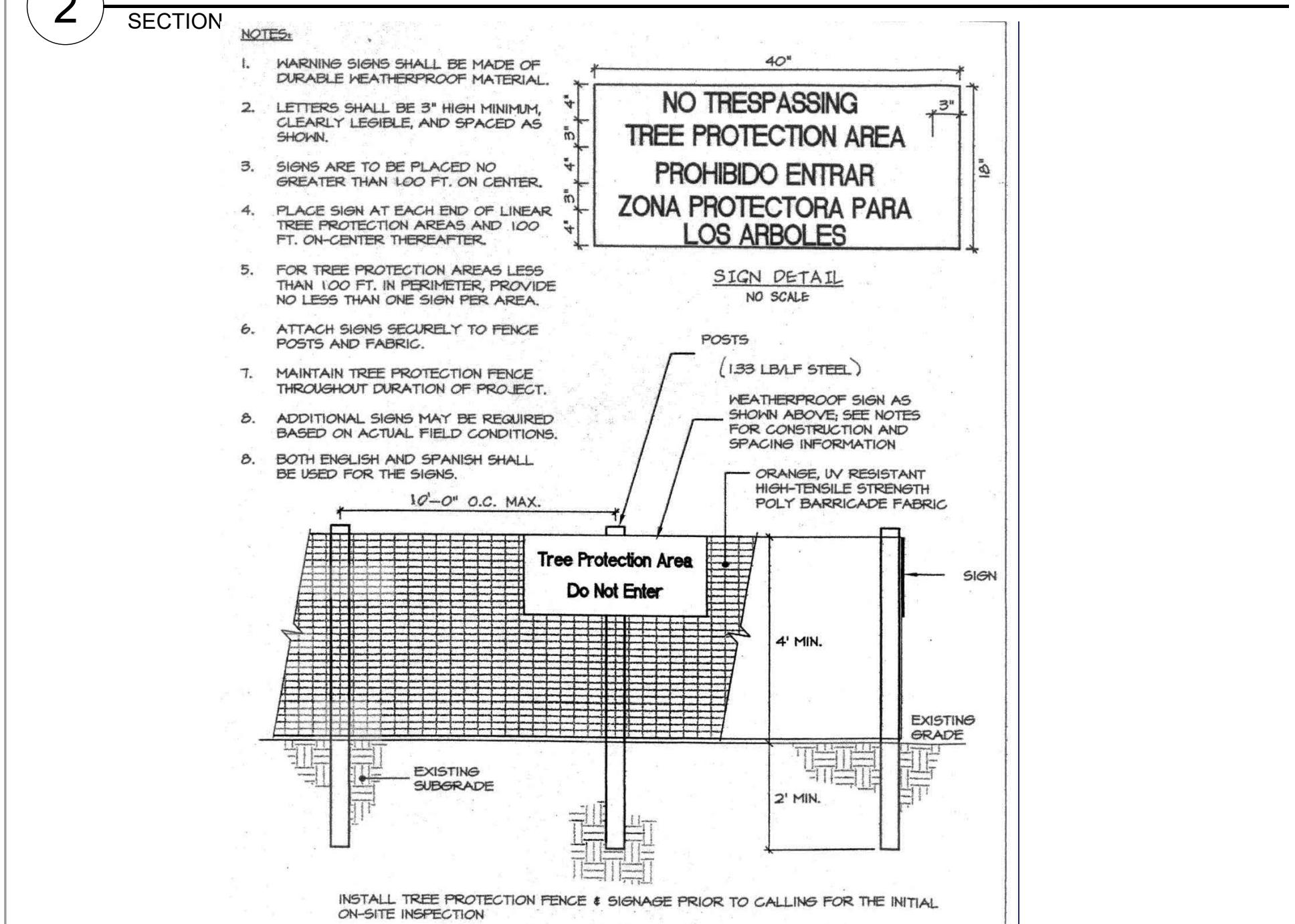
2 TREE STAKING - ON SLOPE - EXISTING IN-SITU SOIL

NTS



3 SHRUB - EXISTING IN-SITU SOIL

NTS



4 SHRUB ON SLOPE - EXISTING IN-SITU SOIL

NTS



4 TREE PROTECTION FENCE

NTS

TREE PROTECTION NOTES:

- A pre-construction conference may be required with the town's urban forester prior to beginning site work. Please contact Adam Nicholson at 919.969.5006.
- Any roots exposed during demolition/construction will be severed cleanly with an appropriate and sharpened root pruning tool.
- The soil within the critical root zone of existing trees will not be driven on or otherwise disturbed during the installation of landscaping.
- (2) landscape protection supervisors must register with the town's urban forester at 919.969.5006 for that review.
- One or both of the landscape protection supervisor who are registered with the town of Chapel Hill will be present on site at all times any land disturbing activity is occurring.

PLANTING NOTES:

- Do not stake trees except where specified by landscape architect. Staking is required for trees planted on slopes.
- Where several trees will be planted close together such that they will likely share root space, till in soil amendments to a depth of 4'-6" over the entire area.
- For container grown trees, use fingers or small hand tools to pull the roots out of the outer layer of potting soil; then cut or pull apart any roots circling the perimeter of the container.
- For field grown trees, cut burlap, rope and wire basket away from top and sides of root ball.
- Thoroughly soak the tree root ball and adjacent prepared soil several times during the first month after planting and regularly throughout the following two summers.
- The planting process is similar for deciduous and evergreen trees.
- Do not wrap trunk; mark north side of tree in the nursery and locate to the north in the field.
- Width of planting hole is 3X root ball at the surface, sloping to 2X the root ball diameter at the depth of the root ball.
- Before planting, add 3-4" of well composted leaves, recycled yard waste or other compost and till into top 6" of prepared soil. Add compost at 20-35% by volume to backfill.
- Perform percolation test for each tree pit to confirm that water drains out of the soil. Provide gravel sump filter fabric & vent pipe if drainage does not occur within 24 hours. Include all sumps in base bid. Should sumps not be necessary after percolation test, provide change order deduct to owner.
- If planting holes are dug with a large auger breaking down the sides with a shovel can eliminate glazing and create the preferred sloping side.
- Trees shall have single leaders. Trees with 2 leaders will be rejected.
- Do not place mulch in contact with trunk.
- Provide gator bags for all trees where irrigation is not provided.

PLANTING & SOILS DETAILS

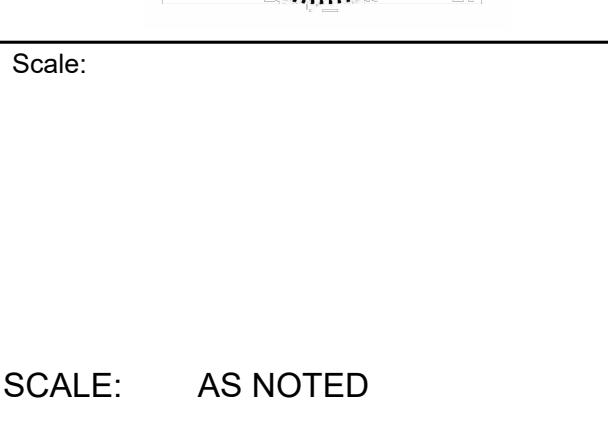
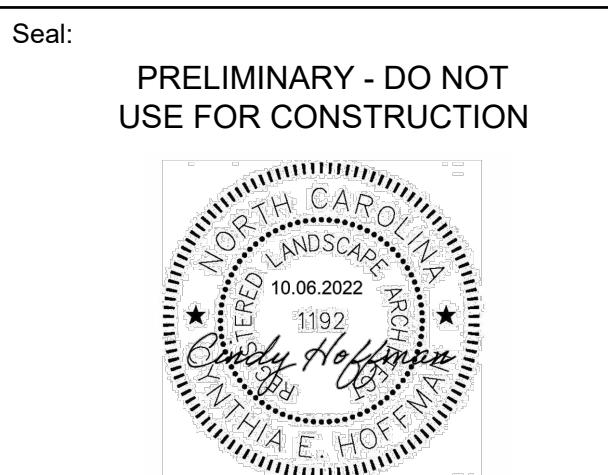
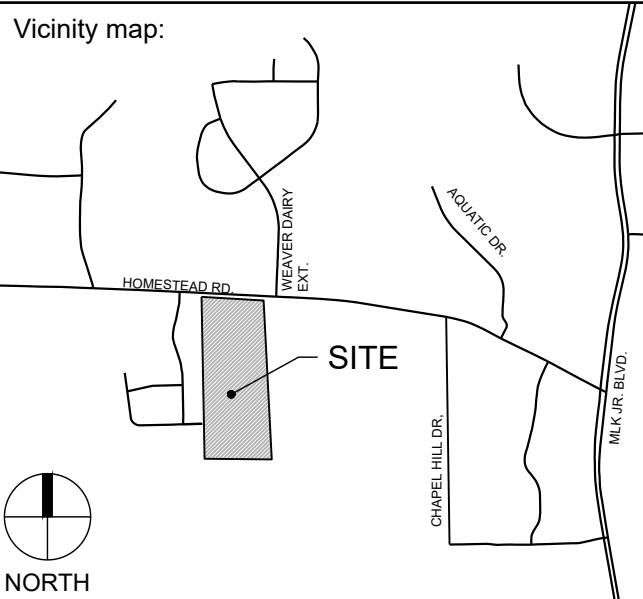
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HOMESTEAD
ROAD
TOWNHOMESIssued for:
CONDITIONAL ZONING
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Title:

PLANTING & SOILS
DETAILS

Homestead Road Tri Pointe

WRITTEN NARRATIVE

(REV. August 26, 2022)

Goals and Objectives:

The program for the project is to develop **108** townhomes complementary to the nearby communities along Homestead Road and consistent with the 2020 Comprehensive Plan as well as the FLUM.

Natural Features of the Site

The geometry of the site is rectangular and bounded on the North face by Homestead Rd, on the East & South faces by the Carolina North Forest and on the West by a newer cottage style retirement community. The site generally slopes gently from the southeast corner to the northwest corner.

Circulation and Mitigation of Traffic impacts

Following both the geometry of the site and the topography, the townhomes are laid out following the northeast and northwest facing boundaries and the resulting roads. There is internal circulation on the site as well as fire access from both Kipling Lane as well as Homestead Road. The Kipling Lane access point additionally provides a second means of access for the neighboring development. The main road connects to the adjacent, previously stubbed out Kipling Lane of the bordering Western property. Bus service is available along Homestead road for some mitigation of traffic impacts. Homestead road has been designed for an additional center lane. This property has already dedicated additional right-of-way to accommodate that improvement. Discussions with DOT have indicated that main access road will be located to provide sufficient storage space on Homestead for turning vehicles in the center lane.

Arrangement and Orientation of Buildings

The buildings are arranged in clusters surrounding preserved open spaces with existing hardwood forest. The rectilinear orientation allows for many of the homes to face the wooded areas. The townhomes are arranged in clusters of primarily four units with a few six unit clusters. The lots are generally 110 feet deep. The orientation of the lots and their depth allow for some privacy mitigation on backyard to backyard conditions. **The units in the center core of the site will respond to an open common area between the units with a sidewalk and connection to recreation facilities on site.**

Natural Vegetation and Landscape

Large areas of natural vegetation are intended to be preserved among the townhome clusters. The site is very flat and minimal grading will be required to achieve the building pads at grade. This allows larger areas of existing wooded areas to be preserved. The landscaping included will consist of street trees as required along the major public roadways, and landscaped buffers where required along the neighboring properties.

Impact on Neighboring Properties

The property is surrounded on three sides with permanent open space as dedicated parkland on the south and east, and Homestead Road on the north. The immediate western neighborhood is a development at 3.5 units per acre. The impact of this property on that neighborhood will be the completion of its required fire access road. The properties being developed across Homestead Road from this property is a townhome community with similar density. It is also anticipated that development of this parcel will help alleviate a stormwater flow problem that currently exists on the neighboring properties.

Homestead Road Tri Pointe

WRITTEN NARRATIVE

(REV. August 26, 2022)

Erosion, Sedimentation and Stormwater

Erosion and sedimentation will only be a factor during the construction phase of the development. During that phase, all applicable Orange County erosion control measures will be undertaken as part of the approval and inspection process.

Stormwater management will consist of routing water from the impervious surfaces of roof and roadway to collection and conveyances leading to a detention pond facility on site. Currently heavy rains from this site naturally drain to the neighboring property. Development of this property should have the effect of channeling much of the migrating flow from crossing the property line to being channeled to the stormwater management devices thus improving the flow conditions naturally occurring during heavy rain events.

The stream determination performed by the Town indicated that there was an ephemeral stream near the south east boundary of the property, but that there were no streams at all on the property. See Attachment 9 provided with the submittal.

Additionally, the property is not within the Jordan lake Watershed Protection District.

Access to the Courtyards

The developer, planning department, fire chief and the neighbors have met on several occasions to discuss the access connection at Kipling Drive to this development. The result, which is indicated on the submission, includes a pedestrian and bike connection between the two projects with signage that states "for Emergency Vehicles Only". The right of way will be 45' similar to the other right of ways throughout the development. The paved surface, however, will be narrowed to the minimum required for emergency vehicle access.

Building Facades

The building facades are staggered with varying depths and roof configurations to eliminate the "wall" effect that may be inferred from simply viewing the lot lines on the site plan documents. See attached rendering of proposed units for varying image.



Rendered Elevations for Proposed 2217 Homestead Road Townhomes

Homestead Road Tri Pointe

STATEMENT OF JUSTIFICATION AND COMPLIANCE WITH THE COMPREHENSIVE PLAN

Revised August 26, 2022

Compliance with the Comprehensive Plan

The sections of the 2020 Comprehensive Plan that are particularly applicable to this project focus on the need in the community to provide a variety of housing types- Big Idea number 4. We believe that providing both the units for affordable housing as a component of this development, as well as the development as-a-whole providing a townhouse community, meets the expectations and accomplishes the goals of the 2020 Comprehensive Plan as well as the Future Land Use Map for 2050. This project responds to the Themes and Goals in Chapter 3 of the Comprehensive Plan as follows:

THEMES

1. *A Place for Everyone* -

The need for affordable housing is clear in the first theme. This project provides for both mid- range housing in the townhomes as well as the affordable housing indicated in the LUMO. The townhome development is in concert with the Future Land Use Map and provides an alternate housing type to the predominant single family detached home or rental apartment in Chapel Hill. It is also anticipated that these townhomes will be a bridge in cost between single family and apartments. A mid-range.

2. *Community Prosperity and Engagement*

A key element in prosperity and engagement, the second theme, is “sustaining healthy neighborhoods”. This project provides new housing in a locus of existing R-5 neighborhoods, expanding the same fabric of that neighborhood. We anticipate that this neighborhood will be very cohesive and have the amenities of the University property as parkland adjacent. Community and gathering spaces are provided on-site as part of the recreation element that should contribute to a “healthy” neighborhood character.

3. *Getting Around*

Key in the Getting Around theme is linking neighborhoods to thriving greenways, sidewalks, bicycle amenities and other options. The proximity of this project to the existing Carolina North Forest greenway & trails, and the anticipated payment in lieu providing support for the continued operation of the nearby Homestead Park and the Carolina North Forest’s greenway and bicycle friendly neighboring property indicates the contribution this project will make to keeping Chapel Hill greenway and park facilities thriving. Additionally, this project will construct several hundred feet of multi-use trail along Homestead Road.

Homestead Road Tri Pointe

STATEMENT OF JUSTIFICATION AND COMPLIANCE WITH THE COMPREHENSIVE PLAN

Revised August 26, 2022

4. *Good Places New Spaces*

This theme talks about “balancing respect for the old with the prospect of the new”. This development as a continuation of the existing density and housing type of its neighbors, respects its neighborhood, but will provide an updated and newer version of this housing type.

5. *Nurturing Our Community*

Environmental Sustainability and aspects of people’s interaction with the natural habitat from parks and open spaces are the focus of this theme. With the existing wooded areas of UNC surrounding it to remain, there is great opportunity for the residents to interact with the immediate natural habitat. The proximity of Homestead Park, The Senior Center Southern Human Services Center and the Carolina North Forest, greenway and trails abutting the property, virtually insures that the residents will have the ability to take advantage of the Town and County park facilities. The saved natural treed areas within the site further enhance the interaction with the natural habitat.

6. *Town and Gown Collaboration*

While there is no direct linkage between this project and the University, there is every likelihood that a significant number of the residents will in some way be associated with UNC. Providing housing for primarily UNC employees will be a major impact of this project on the Town and Gown relationship. It is not anticipated nor is it a goal of the developers that this project will provide student housing.

GOALS

PFE.1 – Family Friendly, accessible exterior and interior places throughout the town for a variety of active uses.

This townhome project of primarily three bedroom for-sale properties is certainly aimed at being family friendly. The site is additionally accessible both in terms of being ADA compliant as well as providing comfortable and inviting outdoor common areas and gathering spaces.

PFE.2 – A creative place to live, work, and play because of Chapel Hill’s arts and culture.

The site is located within walking proximity to Homestead Park, Chapel Hill North trails, the Southern Orange Senior Center and the Chapel Hill Aquatics Center. All of which offer opportunities to engage in some of Chapel Hill’s cultural and recreational activities.

Homestead Road Tri Pointe

STATEMENT OF JUSTIFICATION AND COMPLIANCE WITH THE COMPREHENSIVE PLAN

Revised August 26, 2022

PFE.3 – A range of housing options for current and future residents.

Homestead Road townhomes is providing a mid-range housing type that is currently under-represented in the Chapel Hill market. It expands the range of options for current and future residents.

PFE.4 – A welcoming and friendly community that provides all people with access to opportunities

Of the 108 townhomes in the community, 16 will be reserved as affordable housing to serve Chapel Hill residents at 65% and 80% of AMI creating home ownership opportunity for a wider range of Chapel Hill residents.

PFE.5 – A community of high civic engagement and participation.

As a housing community, the Homeowners Association created by this development, will provide a vehicle for the members of the community to voice their opinions and engage in civic activities.

FLUM Compliance

The 2050 Future Land Use Map, (FLUM) South MLK Boulevard Focus Area indicates that this site has a primary use as multi-family, as Sub Area A. , with townhomes as the recommended housing type. Page 44 of the December 2020 FLUM charts sub area A for Character Types and Height in 2050: South MLK Boulevard.

In recent conversations with Brian Peterson in the Town Manager's office, the preference for providing housing in Chapel Hill that addresses the "Missing Middle" has been addressed. Chapel Hill has a substantial inventory of single family homes. It also has recently developed a significant inventory of Apartments. Townhomes represent a form of "missing middle" housing types. Although there are certainly other townhome communities in Chapel Hill, they are under-represented overall. This project will help address that shortage. We also believe that the term "missing middle" applies to both the cost aspect of the homes as well as the building type.

Homestead Road Tri Pointe

STATEMENT OF JUSTIFICATION AND COMPLIANCE WITH THE COMPREHENSIVE PLAN

Revised August 26, 2022

Climate Action and Response Plan

This project will work with the Town's stated goals of affecting climate change by providing full electric services to the new homes. Within the framework of the current construction the following are provided:

Watersense Faucets and Fixtures – 1.5 gpm or 30% reduction from standard fixtures
Tankless water heaters – 8% -14% more energy efficient than standard
Energy Star Dishwashers – 12% more energy efficient and 30% more water efficient
Toilets – 1.28gpf – 20% less water than current federal standard
EV outlet in garage – Available
Rough in for optional solar panels included
Whole House LED lighting standard
Whole House energy management system included
Low E glazing standard
Techshield Radiant Barrier Roof Sheathing included
LOW VOC Paints standard
Programmable W-Fi thermostats standard
Merv 13 Air Filters
Duke Energy Hero Plan

Central West Small Area Plan

The major elements of the Central West Small Area Plan are focused on predominantly community and municipal actions that will lead to the development of successful town infrastructure. A few of the Principles, however, do pertain to the townhome development on Homestead Road.

Principle 3 – Create Social Connections: B; Include a variety of public spaces for all ages at a variety of scales with trees/vegetation, shade and places for sitting, and D; provide pedestrian and bicycle connections that encourage interpersonal connections to public gathering places throughout the area.

Principle 4 – Improve Physical Connections: The townhome project satisfies Objectives B, C, E and G providing linking pathways, bicycle connectivity, street and trails.

Principle 6 – Enhance the Pedestrian/Bicycle experience. The 10 foot wide multi-use trail that this project constructs along Homestead Road will be a link in developing this principle.

Principle 9 – A Diverse Population. The 16 affordable units in this development will contribute to providing opportunity for a more diverse economic population.

Homestead Road Tri Pointe

STATEMENT OF JUSTIFICATION AND COMPLIANCE WITH THE COMPREHENSIVE PLAN

Revised August 26, 2022

Principle 10 – Respect Existing Neighborhoods – This project is working with the neighboring communities to both connection at the emergency vehicle and pedestrian level and provide privacy in the proximity of housing.

Principle 11: - Employ Environmentally Sound Practices - Most applicable components of this Principle are being employed in this project. It is capturing site run-off, maintaining tree cover, promoting green building and construction standards, burying utility and power lines, utilizing native and non-invasive plant species.

Principle 12 – Feature, Repair, and Enhance Natural Resources – This project provides open space amenities, best management practices for stormwater, and preserves natural features.

Mobility and Connectivity Plan

Chapel Hill Bike Plan

The Mobility and Connectivity Plan as well as the Chapel Hill Bike Plan primarily address improvements made in the public right of way. The contribution to this plan that this townhome project includes is the ten foot multi-use pathway along Homestead Road. This feature provides a wide surface to accommodate both pedestrian as well as bicycle traffic and provides a missing link between the portion completed in front of the Courtyards development, and the continuation of the trail on the eastern portion of the site. Bike parking facilities on site adjacent to guest parking and the recreation and gathering facilities, should encourage bike use within the neighborhood.

**2217 HOMESTEAD TOWNHOMES
RESIDENTIAL DEVELOPMENT**

DRAFT TRANSPORTATION IMPACT ANALYSIS

EXECUTIVE SUMMARY



Prepared for:

The Town of Chapel Hill
Public Works Department - Engineering

Prepared by:

HNTB North Carolina, PC

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September 2022

HNTB

2217 HOMESTEAD TOWNHOMES

RESIDENTIAL DEVELOPMENT

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September 2022



EXECUTIVE SUMMARY - DRAFT

Project Overview

A new residential community, known as 2217 Homestead Townhomes, is being proposed in Chapel Hill along Homestead Road near the Weaver Dairy Road Extension. **Figure ES-1** shows the general location of the site. The project proposes to construct 103 individual residential townhome/condominium units and is anticipated to be fully complete and occupied by 2025. This report analyzes the full build-out scenario for 2217 Homestead Townhomes for the year 2026 (one year after anticipated completion), the no-build scenario for 2026, as well as 2022 existing year traffic conditions for typical weekday AM, noon, and PM peak hours.

The current proposed site plan shows a provision for a full movement access driveway serving the site that connects to Homestead Road and a secondary access point to Kipling Lane in the Courtyards at Homestead Road subdivision. No other external roadway vehicular access connections are proposed.

Figure ES- 2 displays the overall site plan and nearby land uses and roadways. The 2217 Homestead Townhomes site is expected to provide individual vehicle parking spaces located on individual driveways as part of each condominium lot – with potential on-street parking allowed in areas where curb space permits. This report analyzes and presents the transportation impacts that the 2217 Homestead Townhomes project will have on the following intersections in the project study area:

- Homestead Road and Seawell School Road
- Homestead Road and Greenway Landing / Future Bridgepoint Access Driveway
- Homestead Road and Weaver Dairy Road Extension
- Homestead Road and NC 86 (Martin Luther King, Jr. Boulevard)
- Homestead Road and Proposed Site Driveway

Existing Conditions

Study Area

The site is located in north Chapel Hill along Homestead Road just west of the Weaver Dairy Road Extension. The study area contains three signalized intersections along Homestead Road at NC 86 (Martin Luther King, Jr. Boulevard), Weaver Dairy Road Extension and Seawell School Road. NC 86 (Martin Luther King, Jr. Boulevard) is a major north-south arterial providing connectivity between downtown Chapel Hill, north and south Chapel Hill, the I-40 corridor and Hillsborough. Homestead Road is a minor east-west arterial providing connectivity through northern Chapel Hill. Remaining study area network roadways are either suburban collector streets or local neighborhood/commercial access streets.

Site Traffic Generation

With the addition of new trips during the weekday AM, noon, and PM peak hours, there are potential site traffic impacts to study area intersections. **Table ES-1** shows the site trip generation details, with rates taken from the Institute of Transportation Engineers (ITE) *Trip Generation Manual, Version 10*.

Background Traffic

Background traffic growth for the 2026 analysis years is expected to come from two sources - ambient regional traffic growth and specific development-related traffic growth. Five Town-approved sites near the project study area were considered for specific development related growth. All remaining estimated traffic volume increases are assumed to occur due to overall region-wide ambient growth (assumed 0.5 percent per year) based on NCDOT/Town historic growth data and taking into consideration the on-going rebound to pre-COVID traffic levels caused by the pandemic.



Table ES-1. Weekday Vehicle Trip Generation Summary

Description	Density	Daily			AM Peak			Noon Peak*			PM Peak		
		Enter	Exit	Total	Enter	Exit	Total	Enter	Exit	Total	Enter	Exit	Total
Condominiums – Low-Rise	103 Units	369	369	738	11	38	49	25	31	56	38	23	61

* - No Noon Peak ITE Data Available – Used Average of AM and PM Peak Data

Impact Analysis

Peak Hour Intersection Level of Service

Existing traffic operations at all study area intersections are acceptable during all three peak hours analyzed. The projected ambient and background development traffic growth will increase impacts by 2026. Even with the addition of peak hour site-generated trips to the projected 2026 background traffic volumes, no study area intersection is expected to experience deficient traffic operations in any peak hour and projected maximum queues at all locations are not expected to be excessive. No additional mitigation improvements to any intersection were considered necessary. A summary of the traffic operations for each intersection, related to vehicular delays (intersection average as a whole if signalized, critical movement if stop-controlled) and the corresponding traffic simulation Level-of-Service (LOS_s) is shown in **Table ES-2**.

Table ES-2. Peak Hour Intersection Capacity Analysis Summary

Intersections	Peak Hour	2022 Existing		2026 No-Build		2026 Build		2026 Mitigated	
		LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay
Homestead Road & Seawell School Road	AM	C	21.2	C	22.1	C	22.0	N/A	N/A
	NOON	B	12.5	B	12.5	B	12.1	N/A	N/A
	PM	B	13.9	B	14.2	B	14.1	N/A	N/A
Homestead Road & Greenway Landing / Future Bridgepoint Site Driveway [#]	AM	A	7.6	C	15.5	C	15.9	N/A	N/A
	NOON	A	6.2	A	8.0	A	8.0	N/A	N/A
	PM	A	7.1	C	17.0	C	18.6	N/A	N/A
Homestead Road & Weaver Dairy Road Extension	AM	B	14.4	B	14.0	B	13.9	N/A	N/A
	NOON	B	14.0	B	13.4	B	12.9	N/A	N/A
	PM	B	18.7	B	19.0	B	18.8	N/A	N/A
Homestead Road & NC 86 (Martin Luther King, Jr. Boulevard)	AM	B	19.1	C	20.1	C	20.7	N/A	N/A
	NOON	C	20.1	C	21.8	C	22.1	N/A	N/A
	PM	B	17.4	B	19.3	C	20.1	N/A	N/A
Homestead Road & Proposed Site Driveway [#]	AM	N/A	N/A	N/A	N/A	A	9.5	N/A	N/A
	NOON	N/A	N/A	N/A	N/A	A	5.4	N/A	N/A
	PM	N/A	N/A	N/A	N/A	A	6.8	N/A	N/A

N/A – Not Applicable or No Improvements Necessary

- Worst-Case LOS/Delay for Unsignalized/Stop-Controlled Critical Movement

Access Analysis

Vehicular site access to the project is to be accommodated at a proposed full movement driveway access connecting to Homestead Road about 400 feet to the west of the Weaver Dairy Road Extension intersection with the Homestead Road. The proposed driveway has single inbound and outbound lanes.



A second internal local street access connection is also proposed to link with existing Kipling Lane within the Courtyards at Homestead subdivision. Driveway throat lengths, and intersection/driveway separation minimum criteria, as set forth in the 2003 *NCDOT Policy on Street and Driveway Access to North Carolina Highways* and the 2017 Town of Chapel Hill Design Manual are generally acceptable for the current site concept plans for the project.

Access for pedestrians is adequate in the project study area and will be improved with the construction of the Town's Homestead Road Improvements project. Crosswalk exists across the NC 86, Seawell School Road, and Weaver Dairy Extension intersections with some connectivity along Homestead Road. No specific bicycle amenities are present along Homestead Road, but bicycle lanes are present on the Weaver Dairy Road Extension and along NC 86 north of Homestead Road. Additional bicycle lanes/off-road paved paths along Homestead Road will be provided and provided the needed connectivity upon the completion of the Town's improvement project.

Signal Warrant Analysis

Based on projected 2026 traffic volumes and proposed access plans, no unsignalized study area intersection with Homestead Road would warrant the installation of a traffic signal, based on the Peak Hour warrant methodology found in the *2009 Manual on Uniform Traffic Control Devices (MUTCD)*.

Crash Analysis

Pre-COVID crash data from the NCDOT Traffic Safety Unit was used from a previous TIA study for the five-year period 2/1/2015 to 1/31/2020 for the segment of Homestead Road Extension in the vicinity of the proposed site. There were 36 crashes reported along Homestead Road study area corridor between Seawell School Road and NC 86 over the five year period. The primary crash type was rear end crashes and crashes were primarily clustered near the NC 86 intersection. Overall, the number and rate of crashes along Homestead Road in the project study area is lower than state-wide averages for similar facilities, with the rate and index of severe crashes being higher, due to a single fatal crash (with a pedestrian) that occurred during the five year crash collection period.

Other Transportation-Related Analyses

Other transportation-related analyses relevant to the 2001 Town of Chapel Hill Guidelines for the preparation of Traffic Impact Studies were completed as appropriate. The following topics listed in **Table ES-3** are germane to the scope of this study.

Table ES-3. Other Transportation-Related Analyses

Analysis	Comment
Turn Lane Storage Requirements	Storage bay lengths at study area intersections were analyzed using TransModeler maximum queue length estimates for the 2026 Build Scenario. At the intersection of Homestead Road and Weaver Dairy Road Extension, the southbound right-turn lane queue may exceed its existing storage regardless of site traffic impacts. Adjustments to signal timing may be necessary to mitigate this issue. No other intersection maximum queue results indicate potential queue spillback.
Appropriateness of Acceleration/Deceleration Lanes	With relatively light traffic turning volumes, no additional acceleration/deceleration lanes are necessary in the vicinity of the project site driveway along Homestead Road, other than the proposed westbound center left-turn lane included in the U-4726 Town project design for Homestead Road.
Pedestrian and Bicycle Analysis	Existing pedestrian access and connectivity is adequate along the Homestead Road corridor in the vicinity of the site, though some gaps exist on both sides of the road in certain areas. Bicycle lanes extend along NC 86 north of Homestead Road and along the Weaver Dairy Road Extension, but no bicycle facilities exist along Homestead Road within the project study area. The Town's Homestead Road Improvements project will



Analysis	Comment
	considerably improve pedestrian and bicycle facilities along Homestead Road within and to the west of the project study area by providing off-road paved paths that enhance bicycle and pedestrian connections.
Public Transportation Analysis	Public transportation service to the study area, and to the proposed site is adequate, with bus stops and multiple local and regional bus routes on both NC 86 and Homestead Road proximate to the site. In the immediate site vicinity, only one CHT Route (HS) directly runs adjacent to the site, with 30+ minute headways and service currently only in the peak AM and PM time periods.

Mitigation Measures/Recommendations

Planned Improvements

There are no North Carolina Department of Transportation improvement projects for study area roadway facilities within the analysis year time frame of 2022-2026. The Town of Chapel Hill has a transportation improvement project slated for construction prior to the 2026 site build-out year. The Homestead Road Improvements project (U-4726 IK) will create a consistent three-lane roadway cross-section west of the Weaver Dairy Road Extension intersection, as well as construct pedestrian and bicycle facility improvements between Seawell School Road and Weaver Dairy Road Extension. Improvements related to this project are shown schematically on **Figure ES-3**.

The Town also has the North-South Bus Rapid Transit Project, which will provide dedicated lanes for transit along the NC 86 corridor, along with other transit amenity improvements scheduled for construction in 2028. As final design details are not complete as of the submittal of this TIA, no specific lane usage changes along NC 86 were analyzed as part of this study.

Background Committed Improvements

Several traffic impact studies for development projects in and near the study area recommended signal timing reoptimization for signalized intersections along the NC 86 (Martin Luther King, Jr. Blvd) corridor by their respective build-out years. It is assumed that signal timing reoptimization will occur for the NC 86 corridor and for the Homestead Road / Weaver Dairy Road Extension intersection by the year 2026, whether or not specifically needed by any of the proposed background traffic generating developments included in this study. Improvements and access changes necessitated by the combined Bridgepoint and 2200 Homestead Road Residential projects are shown in **Figure ES-3** and are located primarily in the vicinity of the existing Greenway Landing intersection along Homestead Road.

Applicant Committed Improvements

Based on the preliminary site plans and supporting development information provided, there are several specific transportation-related improvements proposed for the 2217 Homestead Townhomes project. Internal and external improvements (shown schematically in **Figure ES-2 and ES-3**) include:

- Construction of a primary full movement access driveway connecting to Homestead Road with a proposed sidewalk along both sides of the driveway to connect to the new multi-use path provided by Town project U-4726.
- Construction of a full access minor street connection to existing Kipling Lane with an accompanying extension of sidewalk on both sides of the street connection.

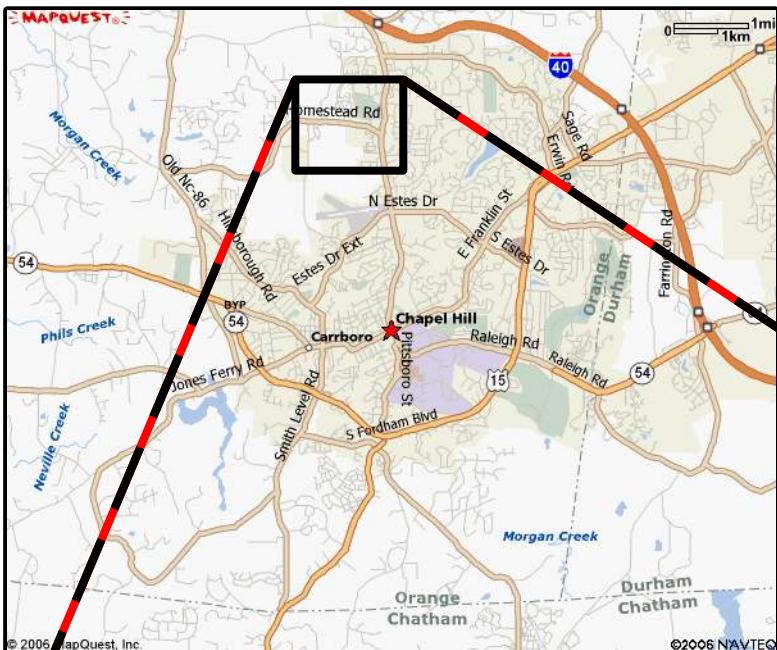
Necessary Improvements

Based on traffic capacity analyses for the 2026 design year for the 2217 Homestead Townhomes development and analyses of existing study area turning bay storage lengths and site access, the



following improvements are recommended as being necessary for adequate transportation network operations and safety (see **Figure ES-3**).

- Restripe Center Turn Lane Created as part of the Town Homestead Road Improvements project for a 100' Westbound Left-Turn and Taper at the proposed Site Driveway and Use Remaining Available Storage in the center lane For Eastbound Left-Turn storage and Taper at the Homestead Road / Weaver Dairy Road Extension intersection.
- Provide Crosswalk across the proposed Site Driveway at its intersection with Homestead Road.

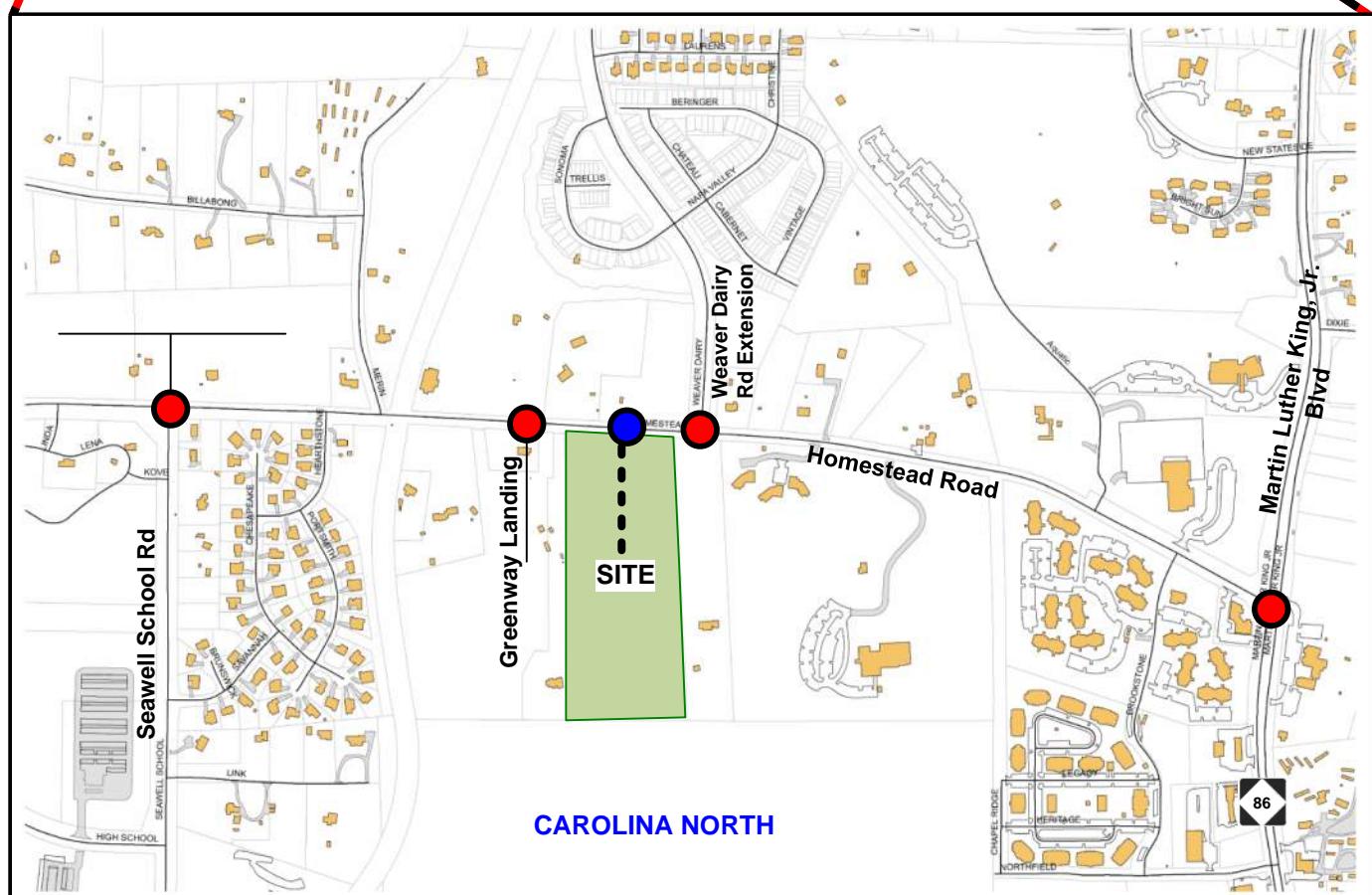


LEGEND

- = Existing Building Footprint
- = Existing Study Area Intersection
- = Proposed Site Driveway
- = Proposed 2217 Homestead Townhomes Site



NOT TO SCALE



Source: Town of Chapel Hill GIS Files

DRAFT

HNTB



2217 Homestead Townhomes Transportation Impact Analysis

PROJECT STUDY AREA

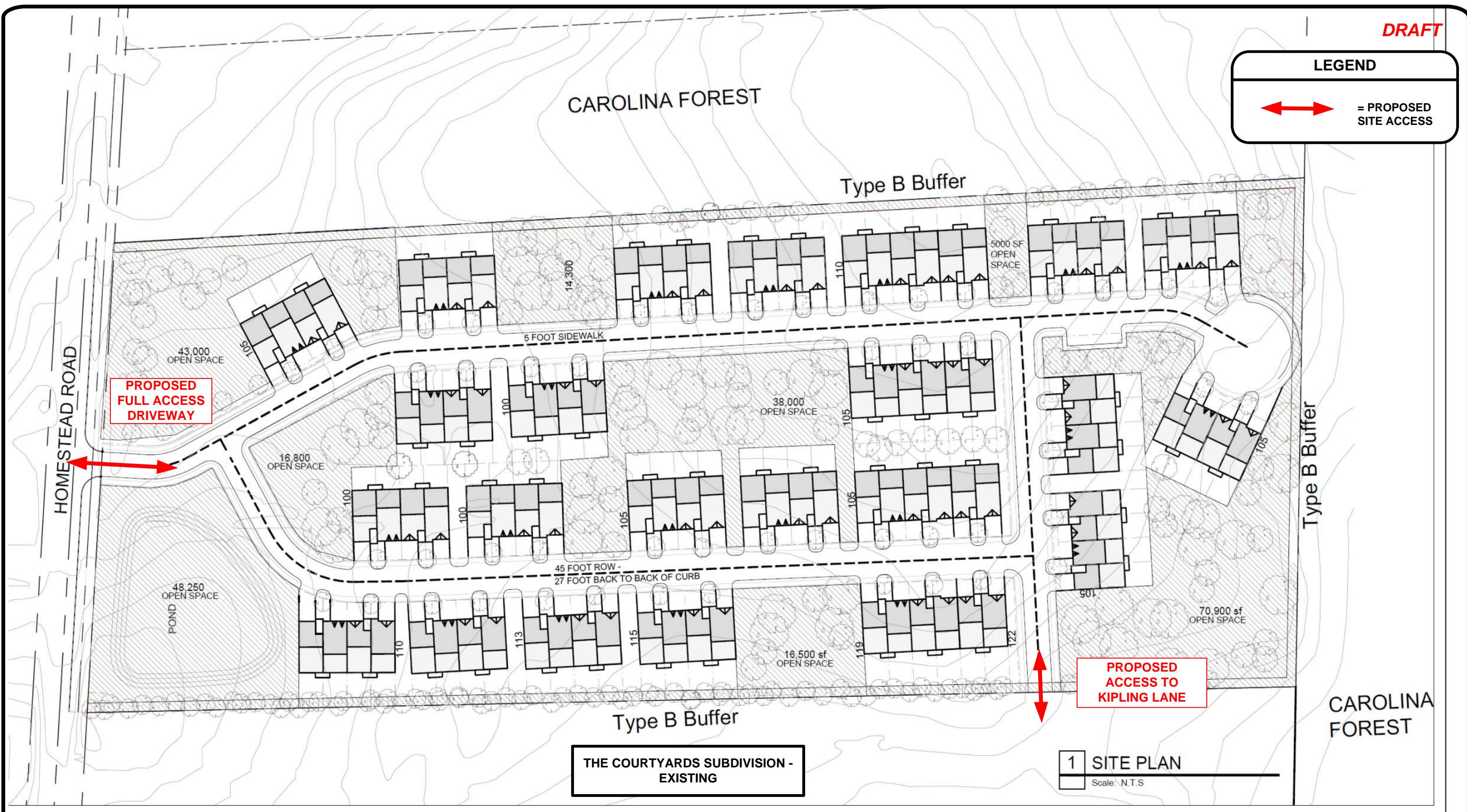
DATE: September 2022

FIGURE ES-1

DRAFT

LEGEND

= PROPOSED SITE ACCESS



HNTB



NOT TO SCALE

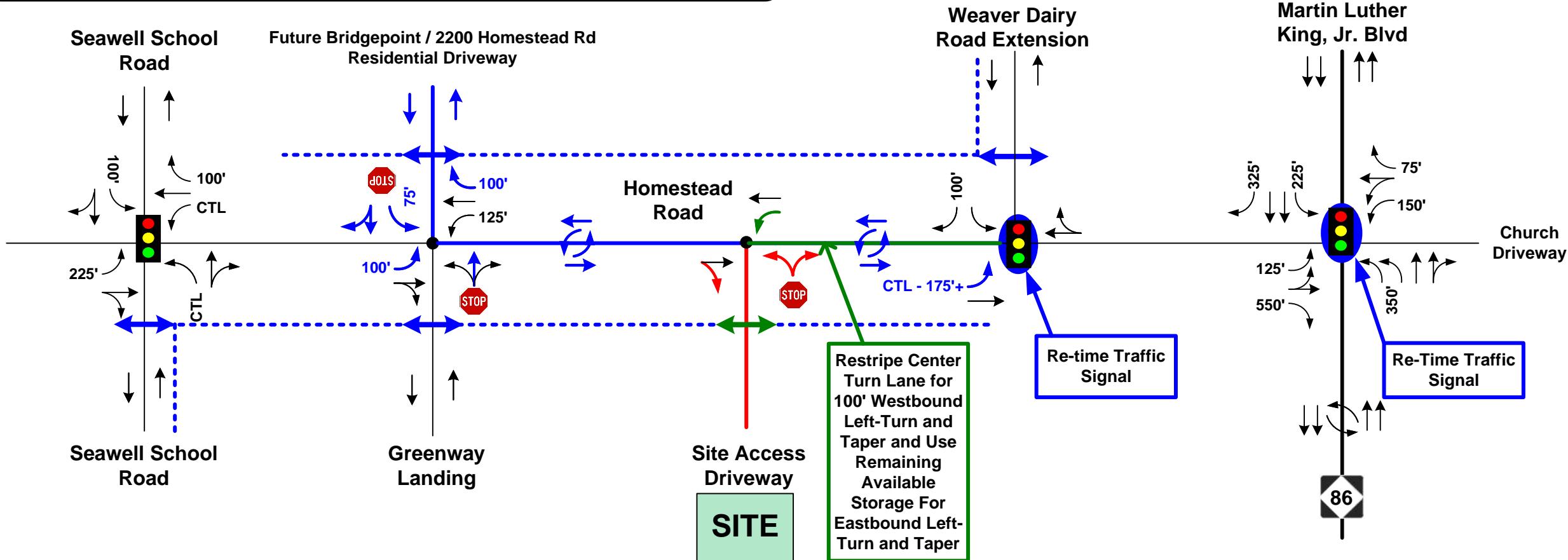
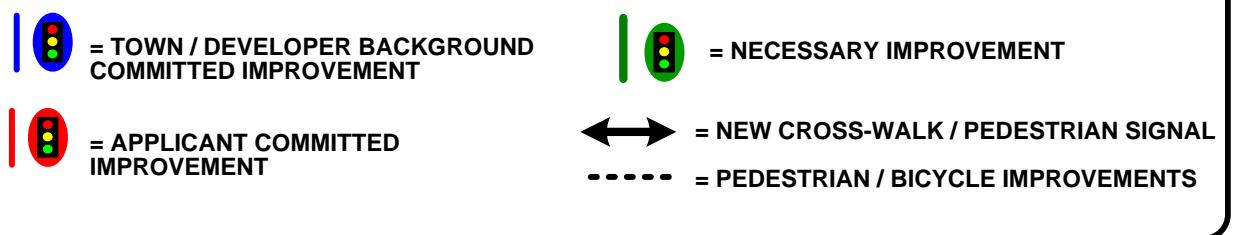
2217 Homestead Townhomes
Transportation Impact Analysis

SITE CONCEPT PLAN

DATE: September 2022

FIGURE ES-2

LEGEND



**NOT TO
SCALE**

2217 Homestead Townhomes Transportation Impact Analysis

COMMITTED AND RECOMMENDED IMPROVEMENTS

DATE: September 2022

FIGURE ES-3