

SITE LOCATION MAP SCALE: 1" = 1.000'

GENERAL NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH AND NCDOT STANDARDS AND SPECIFICATIONS IF APPLICABLE THE CONTRACTOR SHALL OBTAIN A RIGHT-OF-WAY PERMIT FOR ANY WORK WHICH
- REQUIRES THE CLOSURE OF A TRAVEL LANE(S), PARKING SPACE, OR SIDEWALK FROM RIGHT-OF-WAY SERVICES AT LEAST 48 HOURS IN ADVANCE. IF CONSTRUCTION PLANS FOR PUBLIC AND PRIVATE STREETS OR UTILITIES SHOWN ON THIS PLAN ARE REQUIRED, THEY MUST BE APPROVED BY THE PUBLIC WORKS
- DEPARTMENT AND PUBLIC UTILITIES DEPARTMENT PRIOR TO ISSUANCE OF PERMITS OR RECORDING OF ANY PLAT FOR THIS DEVELOPMENT. FIELD ADJUSTMENTS TO THIS PLAN MAY BE REQUIRED BY CITY OF RALEIGH INSPECTOR AS
- NEEDED DURING CONSTRUCTION. SITE BOUNDARY, TOPOGRAPHY, UTILITY, AND TREE SURVEY COMPLETED BY BOHLER ENGINEERING. SEALED BY THOMAS TEABO, DATED JANUARY 25, 2022, SITE BOUNDARY.
- TOPOGRAPHY, UTILITY, AND TREE SURVEY FOR PARCEL PIN# 1746-21-0963 COMPLETED BY BOHLER ENGINEERING, SEALED BY THOMAS TEABO, DATED JUNE 22, 2023. SUPPLEMENTAL INFORMATION WAS OBTAINED FROM WAKE COUNTY GIS.
- ALL PROPOSED CURB AND GUTTER WITHIN PUBLIC RIGHT OF WAY SHOWN ON PLANS TO BE 30" CITY OF RALEIGH STANDARD CONCRETE CURB AND GUTTER. AND ALL OTHER PROPOSED CURB AND GUTTER TO BE 24" CONCRETE CURB AND GUTTER UNLESS OTHERWISE STATED ON PLANS.
- ALL DIMENSIONS SHOWN ARE TO BACK OF CURB, UNLESS OTHERWISE STATED ON PLANS. WITHIN THE SIGHT TRIANGLES SHOWN ON THIS PLAN, NO OBSTRUCTION BETWEEN 2 FEET AND 8 FEET IN HEIGHT ABOVE THE CURB LINE ELEVATION SHALL BE LOCATED IN WHOLE OR PART. OBSTRUCTIONS INCLUDE BUT ARE NOT LIMITED TO ANY BERM, FOLIAGE, FENCE, WALL, SIGN, OR PARKED VEHICLE.
- UNLESS NOTED, ACCESS ROUTE FOR EMERGENCY VEHICLES SHALL PROVIDE AN INSIDE TURNING RADIUS OF 28' MINIMUM.
- ALL HVAC UNITS SHALL BE SCREENED FROM VIEW OF THE PUBLIC RIGHT OF WAY. CONTRACTOR TO FIELD LOCATE AND VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO LANDSCAPE ARCHITECT PRIOR TO ANY CONSTRUCTION ACTIVITIES. CONTACT NC ONE AT 811 FOR FIELD LOCATION OF UNDERGROUND UTILITIES.
- HANDICAP PARKING SPACE(S) AND HC ACCESS AISLE(S) SHALL BE NO GREATER THAN TWO PERCENT (2%) PITCH IN ANY DIRECTION(S) AS PER ADA STANDARDS.
- 13. PROVIDE SIGNAGE AND STRIPING OF HANDICAP SPACES AS PER ADA STANDARDS. ALL RETAINING WALLS GREATER THAN 30" IN HEIGHT TO INCLUDE SAFETY RAIL OR FENCE. 14 NO RETAINING WALLS ARE PERMITTED IN THE RIGHT-OF-WAY UNLESS APPROVED BY ENCROACHMENT.

COMPLIANT WITH THE PUBLIC RIGHTS OF WAY ACCESSIBILITY GUIDELINES (PPOWAG), 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). IF UNFORESEEN CONDITIONS DEVELOP DURING CONSTRUCTION, REFER TO "CITY OF RALEIGH STREET DESIGN MANUAL" AND CONTACT PUBLIC WORKS DEPARTMENT FOR FURTHER GUIDANCE.

ACCESS CURB RAMPS WILL BE PROVIDED IN ACCORDANCE WITH CITY OF RALEIGH PUBLIC

WORKS DEPARTMENT STANDARDS, PROWAG STANDARDS AND ADAAG SPECIFICATIONS

ALL ABOVE GROUND UTILITY DEVICES (TO INCLUDE BUT NOT LIMITED TO TELEPHONE AND

CABLE PEDESTALS, ELECTRICAL TRANSFORMERS, BACKFLOW DEVICE HOTBOX, ETC)

SHALL BE SCREENED FROM OFF-SITE VIEW BY EVERGREEN SHRUBS, FENCE, OR WALL

ALL SIDEWALKS MUST BE ACCESSIBLE TO PERSONS WHO ARE BLIND, HAVE LOW VISION

ALTERNATE PEDESTRIAN ROUTES DURING CONSTRUCTION WILL BE REQUIRED TO BE

AND PEOPLE WITH MOBILITY DISABILITIES. PEDESTRIAN EXISTING ROUTES AND

ALL RAMPS AND HANDRAILS SHALL BE CONFORM TO ANSI STANDARDS.

- PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE CITY OF RALEIGH PUBLIC WORKS DEPARTMENT / TRANSPORTATION FIELD SERVICES STAFF TO REVIEW THE SPECIFIC COMPONENTS OF THE PLAN AND OPERATION OF THESE FACILITIES DURING CONSTRUCTION. CONTACT ENGINEERING INSPECTIONS AT 919,996,2409 TO SET UP THE MEETING THE CONTRACTOR SHALL CONDUCT THE WORK IN A SAFE MANNER AND WITH MINIMAL
- IMPACT TO TRAFFIC.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SHALL ADHERE TO THE PROVISIONS OF THE MUTCD (MOST CURRENT EDITION).
- ANY TEMPORARY STREET CLOSURE MUST BE SUBMITTED A MINIMUM OF 2 WEEKS PRIOR 23. TO THE START OF WORK. SEE " RIGHT-OF-WAY CLOSURES" ON WWW.RALEIGHNC.GOV. COMPLETE AND SEND THE RIGHT-OF-WAY OBSTRUCTION PERMIT TO RIGHTOFWAYSERVICES@RALEIGHNC.GOV.
- 24. PRIOR TO CONSTRUCTION BEGINNING, ALL SIGNAGE AND TRAFFIC CONTROL SHALL BE IN PLACE.
- 25. RESIDENTIAL DRIVEWAY LOCATIONS AND WIDTHS WILL BE SUBJECT TO APPROVAL AT TIME OF SITE PERMITTING REVIEW. IF THE SUBDIVISION DOES NOT REQUIRE SITE PERMITTING REVIEW THEN REVIEW WILL TAKE PLACE AT THE TIME OF BUILDING PERMIT. WHEN DESIGNING THE SITE, THE DESIGNER SHOULD KEEP IN MIND THE CITY OF RALEIGH RESIDENTIAL DRIVEWAY STANDARD DETAILS AND REGULATIONS AS FOUND IN RALEIGH STREET DESIGN MANUAL ARTICLE 9.5 AND SECTION 4.6.1.

ZONING CONDITIONS PER Z-36-21 (ADOPTED 11/16/2022) NOTE: THE PINS ASSOCAITED WITH THESE ZONING CONDITIONS HAVE BEEN RECOMBINED INTO TWO PINS (1746208745 AND 1746210410)

0, 5136 (PORTION), 5228, 5237, 5305 NEEDHAM ROAD, LOCATED ON ITS EAST, WEST, AND NORTH SIDES; AND 0, 5226, 5228, 5232, 5264 FORESTVILLE ROAD, LOCATED ON ITS WEST SIDE; SOUTH OF BUFFALOE ROAD; BEING WAKE COUNTY PINS 1746109464, 1746204575, 1746208342, 1746208993, 1746302204, 1746302826, 1746303233, 1746204366, 1746201971, AND 1746026062 (PORTION). APPROXIMATELY 44.7 ACRES REZONED TO RESIDENTIAL-10-CONDITIONAL USE WITH SPECIAL HIGHWAY OVERLAY DISTRICT-1 (R-10-CU W/ SHOD-1). CONDITIONS DATED: OCTOBER 1, 2021

- PROHIBITED USES. THE FOLLOWING PRINCIPAL USES, IF OTHERWISE ALLOWED IN THE R-10 DISTRICT, SHALL BE PROHIBITED USES ON THE PROPERTY: BOARDINGHOUSE, OUTDOOR SPORTS OR ENTERTAINMENT FACILITY, BED AND BREAKFAST, HOSPITALITY HOUSE.
- RESPONSE: SUB-XXXX-XXXX IS IN COMPLIANCE WITH THE PROHIBITED USES. THE PROPOSED USE FOR THE SUBDIVISION IS RESIDENTIAL TOWNHOMES.
- THERE SHALL BE NO MORE THAN 315 RESIDENTIAL DWELLING UNITS ON THE PROPERTY.
- RESPONSE: THE PROPOSED UNIT COUNT FOR SUB-XXXX-XXXX IS 315.
- THE APARTMENT BUILDING TYPE SHALL BE PROHIBITED.
- RESPONSE: THE PROPOSED USE FOR SUB-XXXX-XXXX IS RESIDENTIAL TOWNHOMES, APARTMENT BUILDINGS ARE NOT PROPOSED FOR THE SUBDIVISION.
- NO INDIVIDUAL TOWNHOUSE BUILDING SHALL CONTAIN MORE THAN SEVEN (7) DWELLING UNITS
- RESPONSE: SUB-XXXX-XXXX IS IN COMPLIANCE SINCE NONE OF THE PROPOSED TOWNHOME BUILDINGS EXCEED SEVEN (7) DWELLING.

ZONING CONDITIONS PER Z-37-23 (ADOPTED 12/28/2023)

5116 NEEDHAM ROAD; BEING WAKE COUNTY PINS 1746210963. APPROXIMATELY 1.27 ACRES REZONED TO RESIDENTIAL-10-CONDITIONAL USE WITH SPECIAL HIGHWAY OVERLAY DISTRICT-1 (R-10-CU W/ SHOD-1). CONDITIONS DATED: DECEMBER 9, 2023

THE FOLLOWING PRINCIPAL USES AS LISTED IN UDO SECTION 6.1.4. THAT ARE PERMITTED, LIMITED, OR SPECIAL USES IN THE R-10 ZONING DISTRICT SHALL BE PROHIBITED: (I) BOARDINGHOUSE; (II) OUTDOOR SPORTS OR ENTERTAINMENT FACILITY; (III) BED & BREAKFAST; AND (IV) HOSPITALITY HOUSE. RESPONSE: SUB-XXXX-XXXX IS IN COMPLIANCE WITH THE PROHIBITED USES. THE PROPOSED USE FOR THE SUBDIVISION IS RESIDENTIAL TOWNHOMES.

- THE APARTMENT BUILDING TYPE SHALL BE PROHIBITED.
- RESPONSE: THE PROPOSED USE FOR SUB-XXXX-XXXX IS RESIDENTIAL TOWNHOMES, APARTMENT BUILDINGS ARE NOT PROPOSED FOR THE SUBDIVISION. NO INDIVIDUAL TOWNHOUSE BUILDING SHALL CONTAIN MORE THAN SEVEN (7) DWELLING UNITS.
- RESPONSE: FOR SUB-XXXX-XXXX, THE RESIDENTIAL TOWNHOMES DO NOT EXCEED MORE THAN SEVEN (7) DWELLING UNITS PER INDIVIDUAL BUILDING.
- ON OR BEFORE THE ISSUANCE OF THE FIRST BUILDING PERMIT, THE PROPERTY OWNER OR DEVELOPER SHALL MAKE A \$20,000.00 CONTRIBUTION TO THE CITY OF RALEIGH FIRE DEPARTMENT TO HELP FUND A NEW FIRE STATION AND/OR FIRE EQUIPMENT TO SERVE THE SURROUNDING COMMUNITY. RESPONSE: SUB-XXXX-XXXX IS UNDERSTANDING OF THE ABOVE STATED CONDITION.

PRELIMINARY SUBDIVISION PLANS **CHAPEL TOWNES SUBDIVISION** 5100, 5201, AND 5116 NEEDHAM ROAD ST MATTHEW'S TOWNSHIP, WAKE COUNTY, NC

Preliminary \$	Subdivisior	Application						DEVELOP	MENT TYPE + SITE DA	TE TABLE - ZO	ONING INF
Site Review						۱. Raleigh		Gross site acreage: 43.86 ac			
Planning and Development Cus	stomer Service Center • One	Exchange Plaza, Suite 400 Rale	eigh, NC 276	601 919-996-250	00			Zoning districts (if more than one	e, provide acreage of ea	ach): Residenti	ial-10-Co
		tting a Preliminary Subdivecklist document. Please						Overlay district(s): SHOD-1	Inside City Limits?	Yes X No	o Historio
ubdivision plans to SiteF	Review@raleighnc.gov							Conditional Use District (CUD) Case # Z- 36-21 and Z-37-23	Board of Adjustmer BOA-	nt Case #	Design DA-
	DEVELOP	MENT OPTIONS (UDO C	Chapter 2))					STOPMWATE		
X Conventional	Subdivision	Compact Development		Conserv	atior	n Development		mperious Area on Parcel(s):	STORWWATE	Impervious Are	
Cottage Co	ourt	Flag lot	F F	Frequent Trar	nsit l	Development Option		Existing (sf) 35,178 Propose	d total (sf) 427,699	Existing (sf)	
NOTE: Subdivisions ma	y require City Council a	pproval if located in a His	toric Ove	rlay District.					NUMBER OF L	OTS AND DENS	ытү
	G	ENERAL INFORMATION	I				Ŧ	# of Detached House Lots:	# of Attached Ho		# 0
Scoping/sketch plan cas	. ,	apel Townes Subdivisi	on				7	# of Tiny House Lots:	# of Open Lots: 9	# of Other Mixed Use	
Property Address(es):			011				-	Total # of Lots: 338	Total # Dwelling Units:	329	
	5110, 0100, and 020	i Necaliani Koau					7	# of bedroom units (if known): 1b	or 2br	3br_X	4br
Recorded Deed PIN(s):	1746210963, 17462	210410, 1746208745						Proposed density for each zonin	g district (UDO 1.5.2.F)	: 4,604 sf/unit	
Building type(s):	Detached House	Attached House	x Town			Apartment				GNATURE BLO	
General Building	Mixed Use Building	Civic Building	Open			Tiny House		Pursuant to state law (N.C. G by the landowner, a lessee or	en. Stat. § 160D-403(a)), applications fo	or developr
				LOI				agent of the landowner. An ea	sement holder may als	so apply for deve	elopment a
CUF	RRENT PROPERTY O	WNER/APPLICANT/DEV	ELOPER	INFORMAT	ION			as is authorized by the easem	ient.		
Current Property Owner	r(s) Names: Pablo F	Reiter						Acting as an authorized agent this development approval an	t requires written permit d/or permit application.	ssion from the pr Written permissi	roperty owr
Company: Buffaloe Roa	ad Investments, LLC	; Title: Manag	ger					authorized agent must be mad	de available to the City	of Raleigh upon	request.
Address: 6908 N. Ridg	e Drive, Raleigh, N	27615-7033						By submitting this application,	the undersigned applic	cant acknowledg	es that the
	6 En	nail: Pablo@prmsinv.c	om					or one of the persons authorized by state law (N.C.G.S. 160D-403(a)) to make the application. The undersigned also acknowledges that the information and s			
Applicant Name (If diffe		"who can apply" in inst		•				application are correct and the for false statements or misrep			
Relationship to owner:		ourchaser X Owner's a			aser	nent holder		Stat. § 160D-403(f).		g	
Company: BGE, inc.		dress: 5440 Wade Pa						The undersigned indicates the described in this application w			
Phone #: 984-300-052			-	Sulle 102,	Rd			submitted herewith, and in ac			
		nail: Twilson@bgeinc.						Development Ordinance.			
		contract, lease or easen	nent whe	n submittin	g th	is torm.		The undersigned hereby ackn application is placed on hold a			
Developer Contact Nam								the applicant fails to respond	to comments or provide	additional inform	mation req
Company: Buffaloe Roa			ger					required to proceed and the d			
Address: 6908 N. Ridge		27615-7033						apply to the new application.			
Phone #: 919-422-116	6 En	nail: Pablo@prmsinv.c	om					Signature:			0

Revision 03.01.24 raleighnc.gov

Printed Name: Tyler Wilson, PE

	DATA FO							
CHAPEL TOV	1							
EXISTING ADDRESSES:	15100, 52	aul, ANE	D 5116 NEEDHAMIRD, ST MATTHEV	<u>ws fownsh</u>	IP, NC			
PINS (S):	1746210	0410 17	46208745, 1746210963					
rina (3).	1740210	<u>, 410, 17-</u>	40206740, 1740210503					
ZONING(S):	R-10-CU	WITHS	SHOD-1					
OVERLAY DISTRICT:			VAY OVERLAY DISTRICT-1 (SHOD-1	.)				
EXISTING USE:	UNDEVE	ELOPED,	/ SINGLE FAMILY RESIDENTIAL	·				
PROPOSED USE:	TOWNH	HOMES						
PROPOSED BEDROOMS PER UNIT:	3							
OVERALL SITE								
OVERALL SITE GROSS AREA - BASED ON BOUNDARY SURVEY (TOTAL):	43.86	AC	1, 910, 653 61	SF				
ROADWAY FRONTAGE (RIGHT OF WAY DEDICATION):	0.75	AC	32, 899. 07	SF				
ONSITE PUBLIC ROADS (RIGHT OF WAY DEDICATION):	8.38	AC	364, 955, 49	SF				
OVERALL SITE NET AREA:	34.73	AC	1, 512, 799.05	SF				
PROPOSED LOTS FOR SUBDIVISION:	-		-					
HOA LOT:	9	/01E	TOWNLION & LINUTS ADD ASSOCIA		NIC 17460	00745.00	ID 1745010410 AND	
TOWNHOMES: TOTAL LOTS:	329 338		5 TOWNHOME UNITS ARE ASSOCIA OWNHOME UNITS ARE ASSOCIATI					
PROPOSED ONSITE IMPERVIOUS AREA:	16.69	AC	726,884.64	SF	17402103			лновај
PROPOSED ONSITE IMPERVIOUS (%):	38.04	%	120,004.04	- 31				
OVERALL - OUTDOOR AMENITY AREA: (10% MIN.)	3.47	AC	151, 279, 91	SF	3,78	AC	164,561.00	SF
PHASE 1								
PHASE 1- OVERALLAREA:	16.02	AC	697,951.40	SF				
(-) LAND DISTURBANCE WITHIN EXISTING RIGHT OF WAY (FORESTVILLE ROAD AND NEEDHAM ROAD):		AC	57, 566.05	SF				
PHASE 1- GROSS AREA:	14.70	AC	640, 385, 35	SF				
PHASE 1 - ROADWAY FRONTAGE (RIGHT OF WAY DEDICATION):	0.60	AC	26,151.07	SF				
PHASE 1 - ON SITE PUBLIC ROADS (RIGHT OF WAY DEDICATION):	3.44	AC	149,687.49	SF				
PHASE 1 - NET SITE AREA:	10.66	AC	464, 546. 79	SF				
PHASE 1 - PROPOSED ONSITE IMPERVIOUS AREA:	6.22	AC	270,881.50	SF				
PHASE 1 - PROPOSED ONSITE IMPERVIOUS (%):	42.30	%						
PHASE 1 - PROPOSED LOTS FOR SUBDIVISION:	+							
HOA LOT:	4							
TOWNHOMES:	109							
TOTAL LOTS:	113	_	De un luc d				Dura dala d	
	0.07		Required 3,000.00	SE (UNIT	0.10		Provided	
PHASE 1 - DENSITY (NET SITE AREA SF / NUMBER OF TOWNHOME UNITS): PHASE 1 - OUTDOOR AMENITY AREA: (10% MIN.)	0.07	AC AC	46, 454, 68	SF/UNIT SF	0.10	AC AC	4,261.90 48,882.00	SF/UNIT SF
PHASE 2	11.07	AC	40,404.08	31	1.12	AC	46, 882, 86	JI
PHASE 2 - OVERALL AREA:	14.68	AC	639, 263, 82	SF				
(-) LAND DISTURBANCE WITHIN EXISTING RIGHT OF WAY (NEEDHAM ROAD):	1.60	AC	69, 536, 09	SF				
PHASE 2 - GROSS AREA:	13.06	AC	569,727.73	SF SF				
PHASE 2 - ROA DWAY FRONTAGE (RIGHT OF WAY DEDICATION): PHASE 2 - ONSITE PUBLIC ROADS (RIGHT OF WAY DEDICATION):	0.10	AC	4,523.00	SF				
PHASE 2- NET SITE AREA:	10.43	AC	454, 536, 73	SF				
PHASE 2 - PROPOSED ONSITE IMPERVIOUS AREA:	5.09	AC	221,846.14	SF				
PHASE 2 - PROPOSED ONSITE IMPERVIOUS (%):	38.94	%						
PHASE 2 - PROPOSED LOTS FOR SUBDIVISION: HOA LOT:	3							
TOWNHOMES:	106							
TOTAL LOTS:	109				-	-		
			Required				Provided	
PHASE 2 - DENSITY (NET SITE AREA SF / NUMBER OF TOWNHOME UNITS):	0.07	AC	3,000.00	SF/UNIT	0.10	AC	4,288.08	SF/UNIT
PHASE 2 - OUTDOOR AMENITY AREA: (10% MIN.)	1.04	AC	45, 453. 67	SF	1.05	AC	45, 625. 00	SF
PHASE 3								
PHASE 3 - OVERALL A REA:	16.85	AC	733, 908, 43	SF				
(-) LAND DISTURBANCE WITHIN EXISTING RIGHT OF WAY (NEEDHAM ROAD):	0.77	AC	33, 367.90	SF				
PHASE 3 - GROSS AREA:	16.08	AC	700, 540, 53	SF				
PHASE 3 - ROADWAY FRONTAGE (RIGHT OF WAY DEDICATION):	0.05	AC	2,225.00	SF				
PHASE 3 - ON SITE PUBLIC ROADS (RIGHT OF WAY DEDICATION): PHASE 3 - NET SITE AREA:	2.40	AC		SF SF				
PHASE 3 - NET STEAKEA: PHASE 3 - PROPOSED ONSITE IMPERVIOUS AREA:	5.38	AC	234,157.00	SF				
PHASE 3 - PROPOSED ONSITE IMPERVIOUS AREA: PHASE 3 - PROPOSED ONSITE IMPERVIOUS (%):	5.38 33.43	- AC %	234,137.00	31				
PHASE 3 - PROPOSED LOTS FOR SUBDIVISION:	+							
HOALOT:	2							
TOWNHOMES:	114							
TOTAL LOTS:	116							
IOIRE LOIS:	1		Required				Provided	
			nequirea					
PHASE 3 - DENSITY (NET SITE AREA SF / NUMBER OF TOWNHOME UNITS):	0.07	AC	3,000.00	SF/UNIT	0.12	AC	5,208.03	SF/UNIT

	CITY OF RALEIGH UDO REQUIREMENTS CHAPEL TOWNES SUBDIVISION						
		REQUIRED	PROVIDED				
UDO	SECTION 2.2.3: ATTACHED TOWNHOUSE - CONVENTIONAL DEVELOP	PMENT OPTION					
А	SITE DIMENSIONS						
A1	NET SITE AREA/UNIT (MIN): NET SITE AREA EXCLUDING R/W						
AI	DIVIDED BY # OF TOWNHOUSE UNITS	3,000 SF	4,598 SF (OVERALL)				
A2	WIDTH (MIN)	45 FT	88 FT				
		10% (3.47 AC/34.73 AC)					
A3	OUTDOOR AMENITY AREA (MIN)	(151,279.91 SF/1,512,799.05 SF)	3.78 AC 164,561.00 SF				
в	LOT DIMENSIONS						
B1	AREA (MIN)	N/A SF	N/A SF				
В2	WIDTH (MIN)	16 FT	22 FT				
С	BUILDING/STRUCTURE SETBACKS						
C1	FROM PRIMARY STREET (MIN)	10 FT	10 FT				
C2	FROM SIDE STREET (MIN)	10 FT	21 FT				
C3	FROM SIDE SITE BOUNDARY LINE (MIN)	6 FT	22 FT				
C4	FROM REAR SITE BOUNDARY LINE (MIN)	20 FT	20 FT				
C5	FROM ALLEY (MIN)	4 or 20 FT	N/A FT				
C6	INTERNAL BUILDING SEPARATION	10 FT	10 FT				
D	PARKING SETBACKS						
D1	FROM PRIMARY STREET (MIN)	20 FT	20 FT				
D2	FROM SIDE STREET (MIN)	10 FT	N/A FT				
D3	FROM SIDE LOT LINE (MIN)	0 FT	N/A FT				
D4	FROM REAR LOT LINE (MIN)	3 FT	N/A FT				
D5	FROM ALLEY, GARAGE ONLY (MIN)	4 FT	N/A FT				
D6	RESIDENTIAL INFILL RULES MAY APPLY (SEE SEC. 2.2.7)	YES	N/A				
Е	HEIGHT						
E1	PRINCIPAL BUILDING (MAX)	45 FT	N/A				
E2	ACCESSORY STRUCTURES (MAX)	25 FT	N/A				
F	VEHICLE PARKING (TC-11-21 & UDO SECTION 7.1.2.C)						
F1	MULTI-UNIT LIVING: TOWNHOMES (MIN)	ΝΟ ΜΑΧΙΜυΜ	630				
G	BICYCLE PARKING (TC-11-21 & UDO SECTION 7.1.2.C)						
G1	SHORT TERM PARKING	NO MAXIMUM	NONE				
G2	LONG TERM PARKING	NO MAXIMUM	NONE				
UDO	SECTION 9.1.3 TREE CONSERVATION REQUIRED						
		34.73 × 10% = 3.47 AC	3.48 AC 10.1%				
<u> </u>		NET 1051 401/					

NET AREA X

CONSULTANT INFORMATION						
DEVELOPER:	ENGINEER:	SURVEYOR:				
DR HORTON 7208 FALLS OF NEUSE RD STE 201 RALEIGH, NC 27560 (919) 604-7929 CONTACT: REESE BRIDGES, PE	BGE, INC 5440 WADE PARK BOULEVARD STE 102 RALEIGH, NC 27607 (919) 276-0111 CONTACT: TYLER R. WILSON, PE	BOHLER ENGINEERING 4130 PARKLAKE AVENUE STE 130 RALEIGH, NC 27612 (919) 578-9000 CONTACT: THOMAS E. TEABO, PLS				

SUB-NO: SUB-XXXX-XXXX

TE TABLE – ZONING INFORMATION								
ch): Residential-10-Conditional Use with SHOD-1								
١	′es	х	No	His	storic District/Landmark:	N/A	х	
t Cas	Case # Design Alternate Case # DA-							
r inf	OR	IAI	ION					
Impervious Area for Compliance (includes right-of-way): Existing (sf)Proposed total (sf)99,186								
DTS A	AND	DEI	NSIT	Y				
use L	ots:				# of Townhouse Lots: 329			
# of Other Lots (Apartment, General, Mixed Use, Civic):								
329								
3br_X4br								
4,6	4,604 sf/unit							

)), applications for development approvals may be made on or contract to purchase or lease land, or an authorized o apply for development approval for such development

ssion from the property owner for the purposes of making Written permission from the property owner to act as an

ant acknowledges that they are either the property owner S. 160D-403(a)) to make this application, as specified in that the information and statements made in the ands that development approvals are subject to revocation securing the development approval, pursuant to N.C. Gen

) is aware of this application and that the proposed project respects in accordance with the plans and specifications visions and regulations of the City of Raleigh Unified

ant to state law (N.C.G.S. 143-755(b1), if this permit plicant for a period of six consecutive months or more, or if additional information requested by the City for a period tion review is discontinued, and a new application is in effect at the time permit processing is resumed shall

> Date: 3/22/24 Date: 3/25/24

SHEET NUMBER	R SHEET TITLE
C0-0	COVER SHEET
C0-1	GENERAL NOTES
C0-2	LOT TABLES
C0-3	RCMP-0099-2023 (1 OF 3)
C0-4	RCMP-0099-2023 (2 OF 3)
C0-5	RCMP-0099-2023 (3 OF 3)
C1-0	EXISTING CONDITIONS (1 OF 4)
C1-1	EXISTING CONDITIONS (2 OF 4)
C1-2	EXISTING CONDITIONS (3 OF 4)
C1-3	EXISTING CONDITIONS (4 OF 4)
C1-4	EXISTING TREE SURVEY (1 OF 8)
C1-5	EXISTING TREE SURVEY (2 OF 8)
C1-6	EXISTING TREE SURVEY (3 OF 8)
C1-7	EXISTING TREE SURVEY (4 OF 8)
C1-8	EXISTING TREE SURVEY (5 OF 8)
C1-9	EXISTING TREE SURVEY (6 OF 8)
C1-10	EXISTING TREE SURVEY (7 OF 8)
C1-11	EXISTING TREE SURVEY (8 OF 8)
C1-12	OVERALL DEMOLITION PLAN
C2-0	OVERALL SUBDIVISION PLAN
C2-1	SUBDIVISION PLAN (1 OF 5)
C2-2	SUBDIVISION PLAN (2 OF 5)
C2-3	SUBDIVISION PLAN (3 OF 5)
C2-4	SUBDIVISION PLAN (4 OF 5)
C2-5	SUBDIVISION PLAN (5 OF 5)
C2-6	SUBDIVISION PHASING PLAN
C3-0	OVERALL GRADING PLAN
C3-1	GRADING PLAN (1 OF 5)
C3-2	GRADING PLAN (2 OF 5)
C3-3	GRADING PLAN (3 OF 5)
C3-4	GRADING PLAN (4 OF 5)
	GRADING PLAN (5 OF 5)
C3-5	
C3-6	STORM DRAINAGE PIPE AND STRUCTURE TABLE
C3-7	RETAINING WALL PLAN (1 OF 3)
C3-8	RETAINING WALL PLAN (2 OF 3)
C3-9	RETAINING WALL PLAN (3 OF 3)
C5-0	
C5-1	UTILITY PLAN (1 OF 5)
C5-2	UTILITY PLAN (2 OF 5)
C5-3	UTILITY PLAN (3 OF 5)
C5-4	UTILITY PLAN (4 OF 5)
C5-5	UTILITY PLAN (5 OF 5)
C5-6	HOSE LENGTH PLAN
C7-0	SCM 1 PLAN AND PROFILE
C7-1	SCM 2 PLAN AND PROFILE (1 OF 2)
C7-2	SCM 2 PLAN AND PROFILE (2 OF 2)
C7-3	SCM 3 PLAN AND PROFILE
C7-4	SCM 4 PLAN AND PROFILE
C8-0	CONSTRUCTION DETAILS
C9-1	UTILITY DETAILS (1 OF 5)
C9-2	UTILITY DETAILS (2 OF 5)
C9-3	UTILITY DETAILS (3 OF 5)
C9-4	UTILITY DETAILS (4 OF 5)
C9-5	UTILITY DETAILS (5 OF 5)
C10-0	STREET LIGHTING PLAN
L1-0	OVERALL LANDSCAPE PLAN
L1-1	LANDSCAPE PLAN (1 OF 5)
L1-2	LANDSCAPE PLAN (2 OF 5)
L1-3	LANDSCAPE PLAN (3 OF 5)
L1-4	LANDSCAPE PLAN (4 OF 5)
L1-5	LANDSCAPE PLAN (5 OF 5)
L2-1	SCM PLANTING PLAN (1 OF 2)
L2-2	SCM PLANTING PLAN (2 OF 2)
L3-0	LANDSCAPE DETAILS
L101 - L104	TCA EXHIBIT
R1-0	FORESTVILLE ROAD TRANSPORTATION PLAN
R1-1	NEEDHAM RD TRANSPORTATION PLAN (1 OF 3)
	NEEDHAM RD TRANSPORTATION PLAN (2 OF 3)
R1-2	

PERMITS REQUIRED

401/404 PERMITS FOR WETLANDS IMPACT

- 2. NCDOT UTILITY ENCROACHMENT
- NCDOT DRIVEWAY PERMIT

SOLID WASTE INSPECTION STATEMENT	

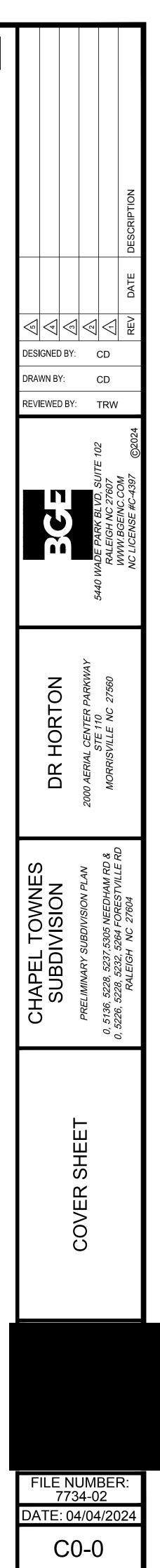
- SOLID WASTE SERVICES ARE TO BE PROVIDED BY CITY OF RALEIGH FOR ALL UNITS.
- DEVELOPERS HAVE REVIEWED AND ARE IN COMPLIANCE WITH THE WITH THE REQUIREMENTS SET FORTH IN THE SOLID WASTE MANUAL.

CARTS THAT ARE NOT STORED WITHIN THE GARAGE BEFORE AND AFTER SCHEDULED COLLECTION MAY BE ISSUED A NOTICE OF VIOLATION FOR THE FIRST OFFENSE AND A \$100 ADMINISTRATION FEE FOR SUBSEQUENT VIOLATIONS WITHIN A TWELVE MONTH PERIOD. ROLL OUT CARTS TO BE LOCATED ON DRIVEWAY APRON WHEN POSITIONED FOR THE COLLECTION.

FIRE COMPLIANCE STATEMENT

THE APPARATUS ROAD SURFACE IS REQUIRED TO BE WITHIN 150 FEET (NFPA 13R); NO SPRINKLING SYSTEM PROPOSED.

- FIRE HYDRANT SHALL BE LOCATED WITHIN 300 FEET OF ONE ANOTHER; AS MEASURED ALONG THE PATH OF APPARATUS ACCESS ROAD (NCFC 507.5.1). FIRE FLOW ANALYSIS MUST BE PROVIDED AT TIME OF BUILDING PERMITS PER THE 2012 NCFC, SECTION 507.3.
- ALL PROPOSED PUBLIC FIRE HYDRANTS WILL BE IN ACCORDANCE TO CITY OF RALEIGH STANDARD DETAIL W-5. DETAIL WILL BE PROVIDED IN SPR REVIEW PLANS.



GENERAL NOTES

ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY, COUNTY AND STATE REGULATIONS AND CODES AND O.S.H.A. STANDARDS.

NO WORK WITHIN NCDOT OR CITY OF RALEIGH RIGHT OF WAY SHALL TAKE PLACE WITHOUT ALL PERMITS.

EXISTING STRUCTURES WITHIN THE CONSTRUCTION LIMITS ARE TO BE ABANDONED, REMOVED OR RELOCATED AS NECESSARY. ALL COST SHALL BE INCLUDED IN BASE BID.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID. AREAS TO BE DISTURBED SHALL BE IMPROVED PER THE CIVIL PLANS OR RESTORED TO THEIR ORIGINAL OR BETTER CONDITION. CONTRACTOR SHALL REPAIR ANY EXISTING FEATURES THAT ARE DAMAGED DURING CONSTRUCTION TO THE EXISTING OR BETTER CONDITION.

SITE BOUNDARY, TOPOGRAPHY, TREE, UTILITY, AND ROAD INFORMATION TAKEN FROM A SURVEY BY BOHLER ENGINEERING COMPLETED JULY 9, 2020. ALL INFORMATION IS TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

THE CONTRACTOR SHALL EMPLOY ALL NECESSARY BARRICADES, SIGNS, FENCES, FLASHING LIGHTS, TRAFFIC MEN, ETC. FOR MAINTENANCE AND PROTECTION OF TRAFFIC AS REQUIRED BY THE NORTH CAROLINA DEPT. OF TRANSPORTATION NCDOT AS APPLICABLE.

THE CONTRACTOR SHALL PROTECT ALL MONUMENTS, IRON PINS, AND PROPERTY CORNERS DURING CONSTRUCTION.

APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. ANY GRADING BEYOND THE LIMITS OF CONSTRUCTION AS SHOWN ON THE GRADING AND DRAINAGE PLAN WITHOUT AUTHORIZATION IS SUBJECT TO A FINE. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS AND THE CITY OF RALEIGH.

CONTRACTOR AGREES TO REPAIR ANY DAMAGE TO THE PUBLIC RIGHT-OF-WAY IN ACCORDANCE WITH THE STANDARDS OF THE NCDOT AND THE CITY OF RALEIGH.

ALL STANDARD NUMBERS REFER TO THE NCDOT STANDARD DETAILS AND SPECIFICATIONS AND THE LATEST EDITION OF THE RALEIGH UNIFIED DEVELOPMENT ORDINANCE.

THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE OWNER ANY DISCREPANCIES FOUND BETWEEN THE ACTUAL FIELD CONDITIONS AND THE CONSTRUCTION DOCUMENTS AND SHALL WAIT FOR INSTRUCTION PRIOR TO PROCEEDING.

THE CONTRACTOR SHALL MAINTAIN EACH STREAM, CREEK, OR BACKWASH CHANNEL IN A UNOBSTRUCTED STATE AND SHALL REMOVE FROM THE CHANNEL AND BANKS OF THE STREAM ALL DEBRIS, LOGS, TIMBER, JUNK AND OTHER ACCUMULATIONS.

CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.

CONTRACTOR SHALL POST ASSIGNED BUILDING PERMIT NUMBER AND ADDRESS ON BUILDING.

IN ROLLING OR HILLY TERRAINS, SWEEPING OF THE STONE BASE AND/OR APPLICATION OF A TACK COAT MAY BE REQUIRED NEAR INTERSECTIONS. THESE REQUIREMENTS WILL BE ESTABLISHED BY THE INSPECTOR AND BASED ON FIELD CONDITIONS.

CONTACT APPROPRIATE UTILITY COMPANIES TO RELOCATE ANY EXISTING UTILITY AND/OR LIGHT POLES. ALL EXISTING FACILITIES WHICH CONFLICT WITH THE IMPROVEMENTS UNDER THE SCOPE OF THIS PROJECT MUST BE RELOCATED AT THE EXPENSE OF THE CONTRACTOR

ZONING CONDITIONS

CASE NUMBER Z-36-21 ORDINANCE (2021) 309 ZC 831

PROHIBITED USES - THE FOLLOWING PRINCIPAL USES, IF OTHERWISE ALLOWED IN THE R-10 DISTRICT SHALL BE PROHIBITED USES ON THE PROPERTY: BOARDINGHOUSE, OUTDOOR SPORTS OR ENTERTAINMENT FACILITY, BED AND BREAKFAST, HOSPITALITY HOUSE.

THERE SHALL BE NO MORE THAN 315 RESIDENTIAL DWELLING UNITS ON THE PROPERTY.

THE APARTMENT BUILDING TYPE SHALL BE PROHIBITED.

NO INDIVIDUAL TOWNHOUSE BUILDING SHALL CONTAIN MORE THAN SEVEN (7) DWELLING UNITS.

CITY OF RALEIGH STANDARD NOTES

COORDINATE ALL CURB AND STREET GRADES IN INTERSECTION WITH INSPECTOR.

ALL ROAD IMPROVEMENTS AT FORESTVILLE ROAD ARE TO BE COORDINATED WITH THE CITY OF RALEIGH ENGINEERING DEPARTMENT PRIOR TO CONSTRUCTION.

SIGHT TRIANGLES SHOWN ARE THE MINIMUM REQUIRED.

APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS.

IN ORDER TO ENSURE PROPER DRAINAGE, KEEP A MINIMUM OF 0.5% SLOPE ON THE CURB.

SUBSURFACE DRAINAGE FACILITIES MAY BE REQUIRED IN THE STREET RIGHT-OF-WAY IF DEEMED NECESSARY BY THE CITY INSPECTOR.

CURB AND GUTTER SHOWN ON THESE PLANS ALONG FORESTVILLE ROAD AND NEEDHAM ROAD MAY BE ADJUSTED BASED UPON FIELD STAKING BY CITY ENGINEERING. ASSOCIATE STORM DRAINAGE MAY ALSO REQUIRE MODIFICATION BASED UPON FIELD CONDITIONS.

THE PURPOSE OF THE STORM DRAINAGE EASEMENT (SDE) IS TO PROVIDE STORM WATER CONVEYANCE. BUILDINGS ARE NOT PERMITTED IN THE EASEMENT AREA. ANY OTHER OBJECTS WHICH IMPEDE STORM WATER FLOW OR SYSTEM MAINTENANCE ARE ALSO PROHIBITED.

HIGH-DENSITY POLYETHYLENE (HDPE) STORM DRAINAGE PIPE INSTALLED WITHIN EXISTING OR PROPOSED PUBLIC STREET RIGHT-OF-WAY MUST BE APPROVED BY THE CITY'S INSPECTOR PRIOR TO ANY BACKFILL BEING PLACED. BACKFILL MATERIAL MUST BE APPROVED BY THE CITY INSPECTOR PRIOR TO PLACEMENT OF THE MATERIAL WITHIN THE PUBLIC STREET RIGHT-OF-WAY.

THE DEVELOPER SHALL MAINTAIN EACH STREAM, CREEK, OR BACKWASH CHANNEL IN AN UNOBSTRUCTED STATE AND SHALL REMOVE FROM THE CHANNEL AND BANKS OF THE STREAM ALL DEBRIS, LOGS, TIMBER, JUNK AND OTHER ACCUMULATIONS.

ANY CONSTRUCTION OR USE WITHIN THE FUTURE CONDITIONS FLOOD FRINGE LINE IS SUBJECT TO THE RESTRICTIONS IMPOSED BY THE FLOODWAY REGULATIONS OF THE CITY OF RALEIGH.

SEALED SHOP DRAWINGS BY A PROFESSIONAL ENGINEER FOR RETAINING WALL (BY OTHERS) MUST BE SUBMITTED TO CITY ENGINEER PRIOR TO CONSTRUCTION.

"AS-BUILT" DRAWINGS AND PLANS OF THE STORM DRAINAGE SYSTEM, INCLUDING DESIGNED DITCHES, MUST BE SUBMITTED PRIOR TO SUBDIVISION FINAL INSPECTION TO THE CITY OF RALEIGH IN ACCORDANCE WITH THE UNIFIED DEVELOPMENT ORDINANCE SUBDIVISION ORDINANCE.

CERTIFICATION AND STREET CUT PERMITS ARE REQUIRED FOR UTILITY CUTS ON CITY STREETS. ALLOW 7 DAYS PROCESSING FOR PERMIT. FOR INFORMATION CONTACT RALEIGH DEPARTMENT OF TRANSPORTATION

NON-STANDARD ITEMS (IE: PAVERS, IRRIGATION SYSTEMS, ETC.) IN THE RIGHT-OF-WAY REQUIRE A RIGHT-OF-WAY ENCROACHMENT AGREEMENT WITH THE RALEIGH DEPARTMENT OF TRANSPORTATION BEFORE INSTALLATION.

SIDEWALK WITHIN THE CITY'S R/W THAT REQUIRE REPLACEMENT AS PART OF THE DEVELOPMENT AND/OR STREET IMPROVEMENTS SHOULD BE PHASED IN SUCH A WAY AS TO MINIMIZE THE DURATION OF THE SIDEWALK CLOSURE TO THE EXTENT FEASIBLE. THE DEVELOPER SHOULD MAKE EVERY ATTEMPT TO HAVE SIDEWALK REPAIRED AND REOPENED FOR PUBLIC USE WITHIN 30 DAYS OF REMOVAL.

ANY WORK WITHIN THE R/W THAT REQUIRES CLOSURE OF THE SIDEWALK OR TRAVEL LANE MUST BE APPROVED BY NCDOT AND WILL REQUIRE A R/W USE PERMIT OR R/W LEASE DEPENDING UPON THE PROPOSED DURATION OF CLOSURE. THE APPROVALS ARE IN ADDITION TO SITE APPROVALS AND SHOULD BE COORDINATED WITH NCDOT PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONTACT NCDOT AT (919) 707-6200 AT LEAST 5 BUSINESS DAYS PRIOR TO BEGINNING WORK FOR IMPACTS LESS THAN 30 DAYS. CONTRACTOR SHALL CONTACT NCDOT AT (919) 707-620 AS SOON AS POSSIBLE FOR IMPACTS GREATER THAN 30 DAYS. EVERY EFFORT SHALL BE MADE TO CONSTRUCT IMPROVEMENTS WITH MINIMAL IMPACT TO DRIVERS AND PEDESTRIANS.

RIGHT OF WAY CLOSURES LONGER THAN 30 DAYS REQUIRE A R/W LEASE AGREEMENT WHICH WILL INCLUDE THE SUBMITTAL OF A TRAFFIC CONTROL PLAN. TRAFFIC CONTROL PLANS REQUIRED THROUGH A LEASE AGREEMENT MAY BE DIFFERENT FROM THE ONE REQUIRED DURING THE LAND DEVELOPMENT PLAN REVIEW AND ARE SUBJECT TO REVISIONS. THE REVISED TRAFFIC CONTROL PLANS MUST BE SUBMITTED AS PART OF THE LEASE AGREEMENT PROCESS FOR APPROVAL PRIOR TO START OF R/W CLOSURES. CONTRACTOR SHALL CONTACT NCDOT AT (919) 707-620.

CONSTRUCTION STAGING WITHIN CITY R/W LASTING MORE THAN 30 DAYS REQUIRES A R/W LEASE AGREEMENT. CONTRACTOR SHALL CONTACT NCDOT AT (919) 707-620.

DEVELOPER TO CONTACT NCDOT DURING SITE PLAN PREPARATION TO DISCUSS STREET LIGHTING REQUIREMENTS, IF ANY, FOR THIS PROJECT. COORDINATE WITH DUKE ENERGY AND NCDOT AS NECESSARY TO DETERMINE LIGHTING LEVELS, LIGHTING LAYOUT AND REQUIREMENTS FOR INSTALLATION.

EROSION CONTROL NOTES

TOTAL AREA DISTURBED = ± 41.77 AC

LIMITS OF GRADING SHOWN ON THE PLAN ARE MAXIMUM LIMITS FOR EROSION CONTROL PURPOSES ONLY. SURVEYOR TO DETERMINE ACTUAL LIMIT.

PRIOR TO CLEARING AND EARTHWORK ACTIVITIES THE CONTRACTOR SHALL HAVE A PRE-CONSTRUCTION CONFERENCE WITH THE CITY OF RALEIGH INSPECTOR; INSTALL EROSION CONTROL DEVICES SPECIFIED AND AS INDICATED ON THE DRAWINGS, AND THEN OBTAIN AN APPROVED GRADING PERMIT. DURING EACH PHASE OF SITE CONSTRUCTION THE CONTRACTOR SHALL ADJUST, RELOCATE AND/OR REINSTALL AS APPLICABLE ALL EROSION CONTROL DEVICES AND SEDIMENT DISCHARGE FROM THE SITE.

ALL "STD." NUMBERS REFER TO THE CITY OF RALEIGH GUIDELINES FOR LAND DISTURBING ACTIVITIES AND THE NCDOT STANDARD DETAILS AND SPECIFICATIONS.

ON-SITE BURIAL PITS REQUIRE AN ON-SITE DEMOLITION LANDFILL PERMIT FROM THE ZONING ADMINISTRATOR.

ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE CITY/COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.

GRADING MORE THAN 12,000 SF WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF THE CITY/COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.

ALL AREAS MUST BE SEEDED AND MULCHED WITHIN 14 CALENDAR DAYS. REFER TO EROSION CONTROL ORDINANCE FOR ADDITIONAL REQUIREMENTS.

ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE CITY ENGINEERING DEPARTMENT.

SLOPES SHALL BE GRADED NO STEEPER THAN 3:1. FILL SLOPES GREATER THAN 10' REQUIRE ADEQUATE TERRACING (APPENDIX B - CHAPTER 21)

DRIVEWAY PERMIT FOR CONSTRUCTION ENTRANCES IN NCDOT RIGHT OF WAY MUST BE PRESENTED AT PRE-CONSTRUCTION MEETING.

DEVIATION FROM THESE PLANS AND NOTES WITHOUT THE PRIOR CONSENT OF THE OWNER, HIS REPRESENTATIVE, OR THE ENGINEER MAY BE CAUSE FOR THE WORK TO BE UNACCEPTABLE.

EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE NORTH CAROLINA SEDIMENTATION POLLUTION CONTROL ACT OF 1973, THE LOCAL JURISDICTIONAL AGENCY, THE APPROVED EROSION CONTROL PERMIT, AND THESE PLANS AND SPECIFICATIONS.

SUFFICIENT EROSION CONTROL PRACTICES MUST BE INSTALLED AND MAINTAINED TO RETAIN SEDIMENT WITHIN THE BOUNDARIES OF THE SITE. ALL DISTURBED AREAS SHALL BE NONEROSIVE AND SHALL BE GRASSED AS SOON AS CONSTRUCTION PHASES PERMIT AND ALL SLOPES SHALL BE STABILIZED AS SOON AS POSSIBLE. SLOPES SHALL BE STABILIZED WITHIN 14 CALENDAR DAYS.

THE SEDIMENT TRAPS AND DIVERSION DITCHES SHALL BE CLEANED OUT WHEN THE STORAGE CAPACITY HAS BEEN APPROXIMATELY 50% FILLED. GRAVEL SHALL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS PROPERLY.

ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSPECTED WEEKLY AND AFTER EVERY 0.5 INCH RAINFALL EVENT, BUT IN NO CASE LESS THAN ONCE EVERY WEEK. NEEDED REPAIRS SHALL BE MADE IMMEDIATELY. SUBMIT WRITTEN REPORT WITH EACH INSPECTION TO THE OWNER.

SEDIMENT WILL BE REMOVED FROM BEHIND THE SILT FENCING WHEN IT BECOMES 6-INCHES DEEP AT THE FENCE. THE FENCING WILL BE REPAIRED AS NECESSARY TO MAINTAIN SUFFICIENT BARRIER.

ALL SEEDED AREAS WILL BE FERTILIZED, RESEEDED AS NECESSARY, AND MULCHED ACCORDING TO THE PLANS AND SPECIFICATIONS TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.

ALL DRAINAGE SWALES MUST BE GRASSED AND RIP-RAP MUST BE REPLACED AS REQUIRED TO CONTROL EROSION. RIP-RAP WILL CONSIST OF 50 TO 125 POUND STONES PLACED AT ALL HEADWALLS, AND WHERE NOTED ON CONSTRUCTION DRAWINGS. (SEE DETAIL SHEET FOR OUTFALL PIPE SIZE CHART)

ADDITIONAL EROSION CONTROL MEASURES OR SILT BARRIERS TO BE PLACED AS DIRECTED BY THE CITY INSPECTOR.

- WHEN ANY CONSTRUCTION BORDERS A DRAINAGE COURSE: A. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY BUILDING OR OTHER EXCAVATION SPOIL DIRT, CONSTRUCTION TRASH OR DEBRIS, ETC., FROM THE DRAINAGE
- AREA SHOWN HEREON IN A EXPEDITIOUS MANNER AS CONSTRUCTION PROGRESSES.
- B. THE CONTRACTOR HEREBY AGREES TO STOP ALL WORK AND RESTORE THESE

IMMEDIATELY UPON NOTIFICATION BY THE CITY INSPECTOR AND/OR THE OWNER.

FOR ALL CONSTRUCTION ALONG AND/OR ACROSS WATERWAYS, BANK PROTECTION AND STABILIZATION SHALL BE REQUIRED AS PER LOCAL JURISDICTIONAL EROSION CONTROL LAWS.

ALL TREE PROTECTION AND EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING CONSTRUCTION AND SHALL BE MAINTAINED IN PROPER WORKING ORDER UNTIL ALL DISTURBED AREAS ARE STABILIZED AND GROUND COVER IS ESTABLISHED. CONSTRUCTION ENTRANCE PADS SHALL BE INSTALLED BY THE CONTRACTOR AT CONSTRUCTION ACCESS POINTS PRIOR TO LAND DISTURBANCE.

THE CONTRACTOR SHALL KEEP A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT ON SITE WHENEVER LAND DISTURBING ACTIVITY IS IN PROGRESS.

INSTALL SILT FENCE ALONG THE DOWNSTREAM SIDE OF ALL PROPOSED CUT AND FILL CONSTRUCTION AND AS INDICATED ON PLANS.

SILT FENCE SHALL BE MAINTAINED AROUND THE PERIMETER OF ALL EARTHWORK AREAS TO PREVENT SEDIMENT TRANSPORT ONTO ADJACENT PROPERTIES OR OFFSITE ROADWAYS, AS APPLICABLE.

A TEMPORARY DIVERSION SWALE MAY BE USED IN LIEU OF SILT FENCE WHERE RUNOFF CAN BE DIRECTED TO A TEMPORARY SEDIMENT TRAP.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM REQUIRED MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL DEVICES TO ENSURE THEIR FUNCTION AT ALL TIMES.

CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED.

WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.

WHEN A CRUSHED STONE CONSTRUCTION ENTRANCE HAS BEEN COVERED WITH SOIL OR OR HAS BEEN PUSHED INTO THE SOIL BY CONSTRUCTION TRAFFIC, IT SHALL BE REPLACED WITH A DEPTH OF STONE EQUAL TO THAT OF THE ORIGINAL APPLICATION.

CONTRACTOR TO PROTECT THE EXISTING EXPOSED SANITARY SEWER MANHOLES AT ALL TIMES DURING THE CONSTRUCTION.

PERFORM A FINAL DEMUCKING OF ALL SEDIMENT CONTROL DEVICES AND RESTABILIZATION OF ANY DISTURBED AREAS BEFORE DEMOBILIZATION.

DEMOLITION NOTES:

- 1. ALL WORK SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH
- STANDARDS AND SPECIFICATIONS. 2. THE CONTRACTOR SHALL COORDINATE ALL REMOVAL EFFORTS WITH THE OWNER PRIOR TO COMMENCING WORK.
- SPECIAL CARE SHALL BE TAKEN TO PROTECT AND MAINTAIN ALL 3. EXISTING FEATURES, INCLUDING BELOW GROUND, NOT MARKED FOR REMOVAL. IN THE EVENT OF ANY IMPACT TO SUCH FEATURES, THE CONTRACTOR SHALL PERFORM REPAIR AND/OR RESTORE TO ORIGINAL CONDITION AS OF START OF WORK.
- 4. NO DEMOLITION DEBRIS IS TO BE STORED ON SITE. ALL DEMOLITION MATERIAL TO BE PROMPTLY REMOVED FROM THE SITE OR PLACED IN APPROPRIATE CONTAINERS.
- TRAFFIC CONTROL IS CONTRACTOR'S RESPONSIBILITY. SAWCUT EXISTING ASPHALT AT LOCATION SHOWN ON PLANS.
- SITE DEMOLITION SEQUENCE TO BE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL OBTAIN A RIGHT-OF-WAY PERMIT FOR ANY 8 WORK WHICH REQUIRES THE CLOSURE OF A TRAVEL LANE(S) AND/OR
- SIDEWALK FROM THE TRANSPORTATION OPERATION DIVISION/PUBLIC WORKS DEPARTMENT ALL SIDEWALKS MUST BE ACCESSIBLE TO PERSONS WHO ARE BLIND, 9
- HAVE LOW VISION AND PEOPLE WITH MOBILITY DISABILITIES. PEDESTRIAN EXISTING ROUTES AND ALTERNATE PEDESTRIAN ROUTES DURING CONSTRUCTION WILL BE REQUIRED TO BE COMPLIANT WITH THE PUBLIC RIGHTS OF WAY ACCESSIBILITY GUIDELINES (PPOWAG), 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 10. IF UNFORESEEN CONDITIONS DEVELOP DURING CONSTRUCTION. REFER TO "CITY OF RALEIGH STREET DESIGN MANUAL" AND CONTACT PUBLIC WORKS DEPARTMENT FOR FURTHER GUIDANCE.
- 11. PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE CITY OF RALEIGH PUBLIC WORKS DEPARTMENT / TRANSPORTATION FIELD SERVICES STAFF TO REVIEW THE SPECIFIC COMPONENTS OF THE PLAN AND OPERATION OF THESE FACILITIES DURING CONSTRUCTION. CONTACT ENGINEERING INSPECTIONS AT 919.996.2409 TO SET UP THE MEETING.
- 12. THE CONTRACTOR SHALL CONDUCT THE WORK IN A SAFE MANNER AND WITH A MINIMUM AMOUNT OF INCONVENIENCE TO TRAFFIC.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SHALL ADHERE TO THE PROVISIONS OF THE MUTCD (MOST CURRENT EDITION).
- 14. ANY TEMPORARY STREET CLOSURE MUST BE SUBMITTED A MINIMUM OF 2 WEEKS PRIOR TO THE START OF WORK. SEE " RIGHT-OF-WAY CLOSURES" ON WWW.RALEIGHNC.GOV. COMPLETE AND SEND THE RIGHT-OF-WAY OBSTRUCTION PERMIT TO RIGHTOFWAYSERVICES@RALEIGHNC.GOV.
- 15. PRIOR TO CONSTRUCTION BEGINNING, ALL SIGNAGE AND TRAFFIC CONTROL SHALL BE IN PLACE.
- 16. CONTRACTOR IS EXPLICITLY ADVISED TO FIELD LOCATE AND VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. LOCATION OF EXISTING UNDERGROUND UTILITIES SHOWN ON PLANS IS APPROXIMATE BASED ON BEST AVAILABLE INFORMATION AND SHOULD BE CONSIDERED APPROXIMATE.
- 17. CONTRACTOR TO REPORT ANY DISCREPANCIES TO LANDSCAPE ARCHITECT/CIVIL ENGINEER PRIOR TO ANY CONSTRUCTION ACTIVITIES. CONTACT NC ONE AT 811 FOR FIELD LOCATION OF UNDERGROUND UTILITIES.

UTILITY NOTES

THE CONTRACTOR IS RESPONSIBLE FOR HORIZONTALLY AND VERTICALLY LOCATING AND PROTECTING ALL PUBLIC OR PRIVATE UTILITIES (SHOWN OR NOT SHOWN) WHICH LIE IN OR ADJACENT TO THE CONSTRUCTION SITE. AT LEAST 48 HOURS PRIOR TO ANY DEMOLITION, GRADING, OR CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL CONTACT NORTH CAROLINA 811 (NC811) AT 811 OR (800)632-4949 TO COORDINATE FOR THE IDENTIFICATION OF EXISTING UTILITIES WITHIN THE SITE.

SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED UTILITIES BE ENCOUNTERED, THE CONTRACTOR SHALL CONTACT THE OWNER IMMEDIATELY FOR DIRECTIONS.

CONTRACTOR SHALL COORDINATE ANY INTERRUPTION OF UTILITY SERVICE WITH OWNER AND RESPECTIVE UTILITY COMPANY REPRESENTATIVE.

THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. AT LEAST 48 HOURS PRIOR TO ANY DEMOLITION, GRADING, OR CONSTRUCTION ACTIVITY THE CONTRACTOR SHALL NOTIFY THE UTILITY PROVIDER FOR PROPER IDENTIFICATION OF EXISTING UTILITIES WITHIN THE PROJECT SITE

ANY PLANNED INTERRUPTION OF UTILITY SERVICE SHALL BE GIVEN A 48 HOUR NOTICE TO THE UTILITY COMPANY AND THE OWNER.

CONTRACTOR SHALL SAW CUT, REMOVE, AND REPLACE ASPHALT PAVEMENT AS NECESSARY TO INSTALL UNDERGROUND ELECTRIC, TELEPHONE, SEWER, WATER, AND COMMUNICATION CONDUITS.

ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE PER DUKE ENERGY STANDARDS.

ALL UTILITIES ARE TO BE UNDERGROUND.

GRADING NOTES

THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND MOISTURE CONDITION ALL FILL PER THE GEOTECHNICAL ENGINEERS SPECIFICATIONS AND IN ACCORDANCE WITH THE GEOTECHNICAL EVALUATION REPORT PREPARED BY COMPANY NAME ON MONTH, DAY YEAR. FILL MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.

THE CONTRACTOR SHALL COORDINATE WITH THE GEOTECHNICAL ENGINEER FOR APPROPRIATE SLOPE STABILIZATION ON ALL SLOPES STEEPER THAN 3:1.

THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR BLASTING ROCK IF BLAST ROCK IS ENCOUNTERED. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL BLASTING AND SAFETY REQUIREMENTS

ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.

EXISTING AND PROPOSED GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT.

CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.

ALL PROPOSED CONTOURS AND SPOT ELEVATIONS REFLECT FINISHED GRADES, UNLESS OTHERWISE NOTED.

ALL ELEVATIONS ARE IN REFERENCE TO THE BENCHMARK, AND THIS MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO GROUND BREAKING.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UTILITIES, AND SHALL REPAIR ALL DAMAGE TO EXISTING UTILITIES THAT OCCUR DURING CONSTRUCTION.

CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING GRADE.

LIMITS OF CLEARING SHOWN ON GRADING AND DRAINAGE PLAN ARE BASED UPON THE APPROXIMATE CUT AND FILL SLOPE LIMITS, OR OTHER GRADING REQUIREMENTS.

THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL SHEETING, SHORING, BRACING AND SPECIAL EXCAVATION MEASURES REQUIRED TO MEET OSHA, FEDERAL, STATE AND LOCAL REGULATIONS PURSUANT TO THE INSTALLATION OF THE WORK INDICATED ON THESE DRAWINGS. THE DESIGN ENGINEER ACCEPTS NO RESPONSIBILITY FOR THE DESIGN(S) TO INSTALL SAID ITEMS.

THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE ANY DEWATERING AND MOISTURE CONDITIONING NECESSARY TO CONSTRUCT THE PROJECT AS SHOWN ON THE PLANS.

GRADES, ELEVATIONS AND LOCATIONS SHOWN ARE APPROXIMATE. AS DIRECTED BY THE ENGINEER, THEY MAY BE ADJUSTED TO ACCOMMODATE UNFORESEEN CONDITIONS. STATIONS, OFFSETS AND ELEVATIONS REFER TO THE CENTER OF DROP INLETS, MANHOLES AND JUNCTION BOXES, AND THE MIDPOINT OF THE LIP FOR CATCH BASINS.

ANY CONSTRUCTION OR USE WITHIN THE AREAS DELINEATED AS FLOODWAY DISTRICT FRINGE BOUNDARY LINE OR FLOODWAY DISTRICT ENCROACHMENT BOUNDARY LINE IS SUBJECT TO THE RESTRICTIONS IMPOSED BY THE FLOODWAY REGULATIONS OF THE CITY OF RALEIGH.

PAVING, GRADING AND DRAINAGE NOTES

- ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN JURISDICTIONAL RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL OR COUNTY SPECIFICATIONS AND STANDARDS (LATEST EDITION) OR NCDOT SPECIFICATIONS AND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR COUNTY REGULATIONS.
- ALL UNPAVED AREAS IN EXISTING RIGHTS-OF-WAY DISTURBED BY CONSTRUCTION SHALL BE REGRADED AND SODDED.
- TRAFFIC CONTROL ON ALL NCDOT, LOCAL AND COUNTY RIGHTS-OF-WAY SHALL MEET THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE REQUIREMENTS OF THE STATE AND ANY LOCAL AGENCY HAVING JURISDICTION. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL REGRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS.
- ALL OPEN AREAS WITHIN THE PROJECT SITE SHALL BE SEEDED UNLESS INDICATED OTHERWISE ON THE LANDSCAPE PLAN.
- ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE DRAWINGS.
- WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW CUT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED.
- WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL SAW CUT THE EXISTING PAVEMENT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT UNLESS OTHERWISE INDICATED.
- IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND THE DESIGN ENGINEER PRIOR TO ANY EXCAVATION.
- STRIP TOPSOIL AND ORGANIC MATTER FROM ALL AREAS OF THE SITE AS REQUIRED. 10. IN SOME CASES TOPSOIL MAY BE STOCKPILED ON SITE FOR PLACEMENT WITHIN LANDSCAPED AREAS BUT ONLY AS DIRECTED BY THE OWNER.
- 11. FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE LOCAL JURISDICTIONAL AGENCY OR TO NCDOT STANDARDS. IN THE EVENT THAT THI CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NO IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- 12. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AS PER

PLANS. THE AREAS SHALL THEN BE SEEDED AS SPECIFIED IN THE PLANS, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ALL EARTHEN AREAS WILL BE SEEDED AND MULCHED AS SHOWN ON THE LANDSCAPING PLAN.

13. ALL CUT OR FILL SLOPES SHALL BE 3 (HORIZONTAL) :1 (VERTICAL) OR FLATTER UNLESS OTHERWISE SHOWN.

- 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
- 15. THE CONTRACTOR SHALL TAKE ALL REQUIRED MEASURES TO CONTROL TURBIDITY INCLUDING BUT NOT LIMITED TO THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST BE MAINTAINED IN EFFECTIVE CONDITION AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THEREAFTER, THE CONTRACTOR MUST REMOVE THE BARRIERS. AT NO TIME SHALL THERE BE ANY OFF-SITE DISCHARGE.
- 16. SEED, WHERE CALLED FOR, MUST BE INSTALLED AND MAINTAINED ON EXPOSED SLOPES WITHIN 48 HOURS OF COMPLETING FINAL GRADING, AND AT ANY OTHER TIME AS NECESSARY, TO PREVENT EROSION, SEDIMENTATION OR TURBID DISCHARGES.
- 17. THE CONTRACTOR SHALL ENSURE THAT ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER.
- 18. THE CONTRACTOR SHALL INSTALL ALL UNDERGROUND STORM WATER PIPING PER MANUFACTURER'S RECOMMENDATIONS.

SEEDBED PREPARATION NOTES

GRADE SLOPES AND FILLS - THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE WHICH CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION CONTROL DEVICES OR STRUCTURES. IN ANY EVENT, SLOPES LEFT EXPOSED SHALL, WITHIN 14 WORKING DAYS OF COMPLETION OF ANY PHASE OF GRADING, B PLANTED OR OTHERWISE PROVIDED WITH GROUND COVER, DEVICES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION.

GROUND COVER - WHENEVER LAND DISTURBING ACTIVITY IS UNDERTAKEN ON A TRACT COMPRISING MORE THAN ONE (1) ACRE, IF MORE THAN ONE CONTIGUOUS ACRE IS UNCOVERED, A GROUND COVER SUFFICIENT TO RESTRAIN EROSION MUST BE PLANTED OR OTHERWISE PROVIDED WITHIN 15 WORKING DAYS ON THAT PORTION OF THE TRACT UPON WHICH FURTHER ACTIVE CONSTRUCTION IS NOT BEING UNDERTAKEN.

SURFACE WATER CONTROL MEASURES TO BE INSTALLED ACCORDING TO PLAN.

LOOSE ROCKS, ROOTS, AND OTHER OBSTRUCTION SHALL BE REMOVED FROM THE SURFAC SO THAT THEY WILL NOT INTERFERE WITH ESTABLISHMENT AND MAINTENANCE OF VEGETATION. SURFACE FOR FINAL SEEDBED PREPARATION. AT FINISH GRADES SHOWN. SHALL BE REASONABLY SMOOTH AND UNIFORM.

IF NO SOIL TEST IS TAKEN, FERTILIZER AND LIME ACCORDING TO SEEDING SPECIFICATIONS

IF SOIL TEST IS TAKEN, PROVIDE LIME AND FERTILIZER ACCORDING TO SOIL TEST REPORT.

LIME AND FERTILIZER SHALL BE APPLIED UNIFORMLY AND MIXED WITH THE SOIL DURING SEEDBED PREPARATION.

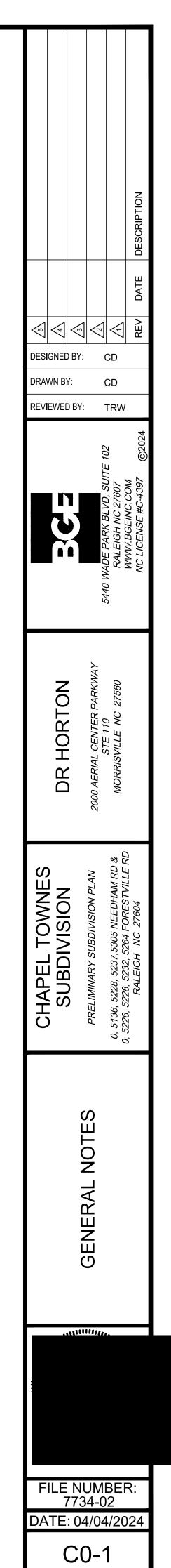
RETAINING WALL NOTES

- CONTRACTOR SHALL PROVIDE DETAILED RETAINING WALL DESIGN DRAWINGS, SEALED BY A NC LICENSED STRUCTURAL ENGINEER. AND SHALL SUBMIT TO THE LOCAL AUTHORITY FOR APPROVAL PRIOR TO CONSTRUCTION.
- A NC LICENSED STRUCTURAL ENGINEER MUST PERFORM CONSTRUCTION OBSERVATION, VERIFYING IN A SEALED LETTER TO THE LOCAL AUTHORITY, ENGINEER AND OWNER THAT RETAINING WALLS ARE CONSTRUCTED PER THE ENGINEERING DRAWINGS IN COMPLIANCE WITH INTERNATIONAL BUILDING CODE.
- PROPOSED RETAINING WALLS WILL REQUIRE BUILDING PERMIT APPROVAL BEFORE CONSTRUCTION CAN BEGIN.

ATTENTION CONTRACTORS

The Construction Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the **Public Works Department** at (919) 996-2409, and the **Public Utilities Department** at (919) 996-4540 at least twenty four hours prior to beginning any of their construction.

Failure to notify both *City Departments* in advance of beginning construction, will result in the issuance of monetary fines, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.





	PARCEL TABL	E	
Parcel #	DESCRIPTION	Area (SF)	Area (AC)
1	PH 3 - TOWNHOME LOT	2,880.00	0.07
2	PH 3 - TOWNHOME LOT	2,112.00	0.05
3	PH 3 - TOWNHOME LOT	2,112.00	0.05
4	PH 3 - TOWNHOME LOT	2,112.00	0.05
5	PH 3 - TOWNHOME LOT	2,112.00	0.05
6	PH 3 - TOWNHOME LOT	3,120.00	0.07
7	PH 3 - TOWNHOME LOT	3,120.00	0.07
8	PH 3 - TOWNHOME LOT	2,112.00	0.05
9	PH 3 - TOWNHOME LOT	2,112.00	0.05
10	PH 3 - TOWNHOME LOT	2,112.00	0.05
11	PH 3 - TOWNHOME LOT	2,880.00	0.07
12	PH 3 - TOWNHOME LOT	2,820.00	0.06
13	PH 3 - TOWNHOME LOT	2,068.00	0.05
14	PH 3 - TOWNHOME LOT	2,068.00	0.05
15	PH 3 - TOWNHOME LOT	2,068.00	0.05
16	PH 3 - TOWNHOME LOT	2,068.00	0.05
17	PH 3 - TOWNHOME LOT	2,068.00	0.05
18	PH 3 - TOWNHOME LOT	3,200.15	0.07
19	PH 3 - TOWNHOME LOT	3,058.23	0.07
20	PH 3 - TOWNHOME LOT	2,068.00	0.05

	PARCEL TABL	E	
Parcel #	DESCRIPTION	Area (SF)	Area (AC)
21	PH 3 - TOWNHOME LOT	2,068.00	0.05
22	PH 3 - TOWNHOME LOT	3,055.00	0.07
23	PH 3 - TOWNHOME LOT	3,055.00	0.07
24	PH 3 - TOWNHOME LOT	2,068.00	0.05
25	PH 3 - TOWNHOME LOT	2,068.00	0.05
26	PH 3 - TOWNHOME LOT	2,068.00	0.05
27	PH 3 - TOWNHOME LOT	3,055.00	0.07
28	PH 3 - TOWNHOME LOT	3,239.16	0.07
29	PH 3 - TOWNHOME LOT	2,094.18	0.05
30	PH 3 - TOWNHOME LOT	2,122.93	0.05
31	PH 3 - TOWNHOME LOT	2,116.81	0.05
32	PH 3 - TOWNHOME LOT	3,301.33	0.08
33	PH 3 - TOWNHOME LOT	3,055.43	0.07
34	PH 3 - TOWNHOME LOT	2,068.00	0.05
35	PH 3 - TOWNHOME LOT	2,068.00	0.05
36	PH 3 - TOWNHOME LOT	3,055.16	0.07
37	PH 3 - TOWNHOME LOT	3,054.84	0.07
38	PH 3 - TOWNHOME LOT	2,068.00	0.05
39	PH 3 - TOWNHOME LOT	2,068.00	0.05
40	PH 3 - TOWNHOME LOT	2,068.00	0.05

PARCEL TABLE						
Parcel #	DESCRIPTION	Area (SF)	Area (AC)			
61	PH 3 - TOWNHOME LOT	3,055.00	0.07			
62	PH 3 - TOWNHOME LOT	3,055.00	0.07			
63	PH 3 - TOWNHOME LOT	2,068.00	0.05			
64	PH 3 - TOWNHOME LOT	2,068.00	0.05			
65	PH 3 - TOWNHOME LOT	2,820.00	0.06			
66	PH 3 - TOWNHOME LOT	2,880.00	0.07			
67	PH 3 - TOWNHOME LOT	2,112.00	0.05			
68	PH 3 - TOWNHOME LOT	2,112.00	0.05			
69	PH 3 - TOWNHOME LOT	2,112.00	0.05			
70	PH 3 - TOWNHOME LOT	2,112.00	0.05			
71	PH 3 - TOWNHOME LOT	2,112.00	0.05			
72	PH 3 - TOWNHOME LOT	3,120.00	0.07			
73	PH 3 - TOWNHOME LOT	3,120.00	0.07			
74	PH 3 - TOWNHOME LOT	2,112.00	0.05			
75	PH 3 - TOWNHOME LOT	2,112.00	0.05			
76	PH 3 - TOWNHOME LOT	2,112.00	0.05			
77	PH 3 - TOWNHOME LOT	3,120.00	0.07			
78	PH 3 - TOWNHOME LOT	3,120.00	0.07			
79	PH 3 - TOWNHOME LOT	2,112.00	0.05			
80	PH 3 - TOWNHOME LOT	2,112.00	0.05			

PARCEL TABLE						
Parcel #	DESCRIPTION	Area (SF)	Area (AC)			
81	PH 3 - TOWNHOME LOT	2,112.00	0.05			
82	PH 3 - TOWNHOME LOT	3,120.00	0.07			
83	PH 3 - TOWNHOME LOT	3,120.00	0.07			
84	PH 3 - TOWNHOME LOT	2,112.00	0.05			
85	PH 3 - TOWNHOME LOT	2,112.00	0.05			
86	PH 3 - TOWNHOME LOT	2,112.00	0.05			
87	PH 3 - TOWNHOME LOT	3,120.00	0.07			
88	PH 3 - TOWNHOME LOT	3,120.00	0.07			
89	PH 3 - TOWNHOME LOT	2,112.00	0.05			
90	PH 3 - TOWNHOME LOT	2,112.00	0.05			
91	PH 3 - TOWNHOME LOT	2,112.00	0.05			
92	PH 3 - TOWNHOME LOT	2,880.00	0.07			
93	PH 3 - TOWNHOME LOT	3,017.87	0.07			
94	PH 3 - TOWNHOME LOT	2,142.05	0.05			
95	PH 3 - TOWNHOME LOT	2,159.17	0.05			
96	PH 3 - TOWNHOME LOT	2,162.51	0.05			
97	PH 3 - TOWNHOME LOT	3,171.42	0.07			
98	PH 3 - TOWNHOME LOT	3,344.96	0.08			
99	PH 3 - TOWNHOME LOT	2,112.00	0.05			
100	PH 3 - TOWNHOME LOT	2,112.00	0.05			

	PARCEL TABL	E	
Parcel #	DESCRIPTION	Area (SF)	Area (AC)
121	PH 2 - TOWNHOME LOT	2,090.00	0.05
122	PH 2 - TOWNHOME LOT	2,090.00	0.05
123	PH 2 - TOWNHOME LOT	2,090.00	0.05
124	PH 2 - TOWNHOME LOT	3,087.50	0.07
125	PH 2 - TOWNHOME LOT	3,087.50	0.07
126	PH 2 - TOWNHOME LOT	2,090.00	0.05
127	PH 2 - TOWNHOME LOT	2,090.00	0.05
128	PH 2 - TOWNHOME LOT	2,090.00	0.05
129	PH 2 - TOWNHOME LOT	3,087.50	0.07
130	PH 1 - TOWNHOME LOT	3,054.97	0.07
131	PH 1 - TOWNHOME LOT	2,067.94	0.05
132	PH 1 - TOWNHOME LOT	2,067.91	0.05
133	PH 1 - TOWNHOME LOT	2,067.88	0.05
134	PH 1 - TOWNHOME LOT	3,054.77	0.07
135	PH 1 - TOWNHOME LOT	3,054.77	0.07
136	PH 1 - TOWNHOME LOT	2,067.88	0.05
137	PH 1 - TOWNHOME LOT	2,067.91	0.05
138	PH 1 - TOWNHOME LOT	2,067.94	0.05
139	PH 1 - TOWNHOME LOT	2,819.97	0.06
140	PH 1 - TOWNHOME LOT	2,819.94	0.06

	PARCEL TABLE			
Parcel #	DESCRIPTION	Area (SF)	Area (AC)	
141	PH 1 - TOWNHOME LOT	2,067.91	0.05	
142	PH 1 - TOWNHOME LOT	2,067.87	0.05	
143	PH 1 - TOWNHOME LOT	2,067.84	0.05	
144	PH 1 - TOWNHOME LOT	3,054.58	0.07	
145	PH 1 - TOWNHOME LOT	3,054.47	0.07	
146	PH 1 - TOWNHOME LOT	2,067.64	0.05	
147	PH 1 - TOWNHOME LOT	2,067.57	0.05	
148	PH 1 - TOWNHOME LOT	2,067.51	0.05	
149	PH 1 - TOWNHOME LOT	2,819.23	0.06	
150	PH 1 - TOWNHOME LOT	2,824.44	0.06	
151	PH 1 - TOWNHOME LOT	2,068.00	0.05	
152	PH 1 - TOWNHOME LOT	2,068.00	0.05	
153	PH 1 - TOWNHOME LOT	2,077.39	0.05	
154	PH 1 - TOWNHOME LOT	2,136.30	0.05	
155	PH 1 - TOWNHOME LOT	3,100.69	0.07	
156	PH 1 - TOWNHOME LOT	2,823.40	0.06	
157	PH 1 - TOWNHOME LOT	2,068.01	0.05	
158	PH 1 - TOWNHOME LOT	2,068.02	0.05	
159	PH 1 - TOWNHOME LOT	2,068.03	0.05	
160	PH 1 - TOWNHOME LOT	2,820.05	0.06	

	PARCEL TABLE			
Parcel #	DESCRIPTION	Area (SF)	Area (AC)	
41	PH 3 - TOWNHOME LOT	3,055.00	0.07	
42	PH 3 - TOWNHOME LOT	3,055.00	0.07	
43	PH 3 - TOWNHOME LOT	2,068.00	0.05	
44	PH 3 - TOWNHOME LOT	2,068.00	0.05	
45	PH 3 - TOWNHOME LOT	2,068.00	0.05	
46	PH 3 - TOWNHOME LOT	3,055.16	0.07	
47	PH 3 - TOWNHOME LOT	3,054.84	0.07	
48	PH 3 - TOWNHOME LOT	2,068.00	0.05	
49	PH 3 - TOWNHOME LOT	2,068.00	0.05	
50	PH 3 - TOWNHOME LOT	2,068.00	0.05	
51	PH 3 - TOWNHOME LOT	3,055.00	0.07	
52	PH 3 - TOWNHOME LOT	3,055.00	0.07	
53	PH 3 - TOWNHOME LOT	2,068.00	0.05	
54	PH 3 - TOWNHOME LOT	2,068.00	0.05	
55	PH 3 - TOWNHOME LOT	2,068.00	0.05	
56	PH 3 - TOWNHOME LOT	3,055.30	0.07	
57	PH 3 - TOWNHOME LOT	3,055.00	0.07	
58	PH 3 - TOWNHOME LOT	2,068.00	0.05	
59	PH 3 - TOWNHOME LOT	2,068.00	0.05	
60	PH 3 - TOWNHOME LOT	2,068.00	0.05	

	PARCEL TABLE			
Parcel #	DESCRIPTION	Area (SF)	Area (AC)	
101	PH 3 - TOWNHOME LOT	2,112.00	0.05	
102	PH 3 - TOWNHOME LOT	3,120.00	0.07	
103	PH 3 - TOWNHOME LOT	3,120.00	0.07	
104	PH 3 - TOWNHOME LOT	2,112.00	0.05	
105	PH 3 - TOWNHOME LOT	2,112.00	0.05	
106	PH 3 - TOWNHOME LOT	2,112.00	0.05	
107	PH 3 - TOWNHOME LOT	3,265.92	0.07	
108	PH 3 - TOWNHOME LOT	3,154.62	0.07	
109	PH 3 - TOWNHOME LOT	2,112.00	0.05	
110	PH 3 - TOWNHOME LOT	2,112.00	0.05	
111	PH 3 - TOWNHOME LOT	2,112.00	0.05	
112	PH 3 - TOWNHOME LOT	2,112.00	0.05	
113	PH 3 - TOWNHOME LOT	2,112.00	0.05	
114	PH 3 - TOWNHOME LOT	2,880.00	0.07	
115	PH 2 - TOWNHOME LOT	4,778.45	0.11	
116	PH 2 - TOWNHOME LOT	2,090.00	0.05	
117	PH 2 - TOWNHOME LOT	2,090.00	0.05	
118	PH 2 - TOWNHOME LOT	2,090.00	0.05	
119	PH 2 - TOWNHOME LOT	3,087.50	0.07	
120	PH 2 - TOWNHOME LOT	3,087.49	0.07	

	PARCEL TABLE			
Parcel #	DESCRIPTION	Area (SF)	Area (AC)	
161	PH 1 - TOWNHOME LOT	2,820.00	0.06	
162	PH 1 - TOWNHOME LOT	2,068.01	0.05	
163	PH 1 - TOWNHOME LOT	2,068.01	0.05	
164	PH 1 - TOWNHOME LOT	2,068.01	0.05	
165	PH 1 - TOWNHOME LOT	2,819.99	0.06	
166	PH 1 - TOWNHOME LOT	2,820.02	0.06	
167	PH 1 - TOWNHOME LOT	2,068.02	0.05	
168	PH 1 - TOWNHOME LOT	2,068.02	0.05	
169	PH 1 - TOWNHOME LOT	2,820.03	0.06	
170	PH 2 - TOWNHOME LOT	2,895.38	0.07	
171	PH 2 - TOWNHOME LOT	2,070.86	0.05	
172	PH 2 - TOWNHOME LOT	2,867.88	0.07	
173	PH 2 - TOWNHOME LOT	2,883.21	0.07	
174	PH 2 - TOWNHOME LOT	2,070.39	0.05	
175	PH 2 - TOWNHOME LOT	2,883.08	0.07	
176	PH 2 - TOWNHOME LOT	2,981.89	0.07	
177	PH 2 - TOWNHOME LOT	2,102.67	0.05	
178	PH 2 - TOWNHOME LOT	2,099.19	0.05	
179	PH 2 - TOWNHOME LOT	2,965.60	0.07	
180	PH 2 - TOWNHOME LOT	2,827.02	0.06	

PARCEL TABLE			
Parcel #	DESCRIPTION	Area (SF)	Area (AC)
181	PH 2 - TOWNHOME LOT	2,068.00	0.05
182	PH 2 - TOWNHOME LOT	2,820.00	0.06
183	PH 2 - TOWNHOME LOT	2,820.00	0.06
184	PH 2 - TOWNHOME LOT	2,068.00	0.05
185	PH 2 - TOWNHOME LOT	3,055.00	0.07
186	PH 2 - TOWNHOME LOT	3,055.00	0.07
187	PH 2 - TOWNHOME LOT	2,068.00	0.05
188	PH 2 - TOWNHOME LOT	2,068.00	0.05
189	PH 2 - TOWNHOME LOT	2,820.00	0.06
190	PH 2 - TOWNHOME LOT	2,820.00	0.06
191	PH 2 - TOWNHOME LOT	2,068.00	0.05
192	PH 2 - TOWNHOME LOT	2,068.00	0.05
193	PH 2 - TOWNHOME LOT	3,055.00	0.07
194	PH 2 - TOWNHOME LOT	3,055.00	0.07
195	PH 2 - TOWNHOME LOT	2,068.00	0.05
196	PH 2 - TOWNHOME LOT	2,068.00	0.05
197	PH 2 - TOWNHOME LOT	2,820.00	0.06
198	PH 2 - TOWNHOME LOT	2,820.00	0.06
199	PH 2 - TOWNHOME LOT	2,068.00	0.05
200	PH 2 - TOWNHOME LOT	2,068.00	0.05

	PARCEL TABLE			
Parcel #	DESCRIPTION	Area (SF)	Area (AC)	
201	PH 2 - TOWNHOME LOT	3,055.00	0.07	
202	PH 2 - TOWNHOME LOT	3,055.00	0.07	
203	PH 2 - TOWNHOME LOT	2,068.00	0.05	
204	PH 2 - TOWNHOME LOT	2,068.00	0.05	
205	PH 2 - TOWNHOME LOT	2,068.00	0.05	
206	PH 2 - TOWNHOME LOT	2,820.00	0.06	
207	PH 2 - TOWNHOME LOT	2,820.00	0.06	
208	PH 2 - TOWNHOME LOT	2,068.00	0.05	
209	PH 2 - TOWNHOME LOT	2,068.00	0.05	
210	PH 2 - TOWNHOME LOT	2,068.00	0.05	
211	PH 2 - TOWNHOME LOT	2,068.00	0.05	
212	PH 2 - TOWNHOME LOT	3,055.00	0.07	
213	PH 2 - TOWNHOME LOT	3,055.00	0.07	
214	PH 2 - TOWNHOME LOT	2,068.00	0.05	
215	PH 2 - TOWNHOME LOT	2,068.00	0.05	
216	PH 2 - TOWNHOME LOT	2,068.00	0.05	
217	PH 2 - TOWNHOME LOT	3,064.66	0.07	
218	PH 2 - TOWNHOME LOT	3,064.66	0.07	
219	PH 2 - TOWNHOME LOT	2,068.00	0.05	
220	PH 2 - TOWNHOME LOT	2,068.00	0.05	

PARCEL TABLE			
Parcel #	DESCRIPTION	Area (SF)	Area (AC)
241	PH 2 - TOWNHOME LOT	3,087.48	0.07
242	PH 2 - TOWNHOME LOT	3,087.48	0.07
243	PH 2 - TOWNHOME LOT	2,089.99	0.05
244	PH 2 - TOWNHOME LOT	2,089.99	0.05
245	PH 2 - TOWNHOME LOT	2,089.99	0.05
246	PH 2 - TOWNHOME LOT	4,778.42	0.11
247	PH 2 - TOWNHOME LOT	4,803.30	0.11
248	PH 2 - TOWNHOME LOT	2,090.94	0.05
249	PH 2 - TOWNHOME LOT	2,088.99	0.05
250	PH 2 - TOWNHOME LOT	2,089.95	0.05
251	PH 2 - TOWNHOME LOT	3,087.43	0.07
252	PH 2 - TOWNHOME LOT	3,087.63	0.07
253	PH 2 - TOWNHOME LOT	2,089.81	0.05
254	PH 2 - TOWNHOME LOT	2,089.97	0.05
255	PH 2 - TOWNHOME LOT	2,089.99	0.05
256	PH 2 - TOWNHOME LOT	3,087.45	0.07
257	PH 2 - TOWNHOME LOT	3,087.46	0.07
258	PH 2 - TOWNHOME LOT	2,090.01	0.05
259	PH 2 - TOWNHOME LOT	2,090.01	0.05
260	PH 2 - TOWNHOME LOT	2,090.01	0.05

PARCEL TABLE			
Parcel #	DESCRIPTION	Area (SF)	Area (AC)
301	PH 1 - TOWNHOME LOT	2,068.01	0.05
302	PH 1 - TOWNHOME LOT	2,068.02	0.05
303	PH 1 - TOWNHOME LOT	3,055.04	0.07
304	PH 1 - TOWNHOME LOT	3,055.07	0.07
305	PH 1 - TOWNHOME LOT	2,068.05	0.05
306	PH 1 - TOWNHOME LOT	2,068.05	0.05
307	PH 1 - TOWNHOME LOT	2,068.06	0.05
308	PH 1 - TOWNHOME LOT	2,820.09	0.06
309	PH 1 - TOWNHOME LOT	2,880.04	0.07
310	PH 1 - TOWNHOME LOT	2,112.02	0.05
311	PH 1 - TOWNHOME LOT	2,112.02	0.05
312	PH 1 - TOWNHOME LOT	3,120.06	0.07
313	PH 1 - TOWNHOME LOT	3,120.04	0.07
314	PH 1 - TOWNHOME LOT	2,112.00	0.05
315	PH 1 - TOWNHOME LOT	2,880.01	0.07
316	PH 2 - HOA LOT	130,697.92	3.00
317	PH 2 - HOA LOT	46,166.33	1.06
318	PH 1 - HOA LOT	13,048.19	0.30
319	PH 2 - HOA LOT	8,177.79	0.19
320	PH 1 - HOA LOT	34,642.02	0.80

PARCEL TABLE			
Parcel #	DESCRIPTION	Area (SF)	Area (AC)
261	PH 2 - TOWNHOME LOT	2,842.88	0.07
262	PH 1 - TOWNHOME LOT	2,850.11	0.07
263	PH 1 - TOWNHOME LOT	2,090.08	0.05
264	PH 1 - TOWNHOME LOT	2,090.08	0.05
265	PH 1 - TOWNHOME LOT	3,087.22	0.07
266	PH 1 - TOWNHOME LOT	3,088.49	0.07
267	PH 1 - TOWNHOME LOT	2,090.08	0.05
268	PH 1 - TOWNHOME LOT	2,090.07	0.05
269	PH 1 - TOWNHOME LOT	3,087.25	0.07
270	PH 1 - TOWNHOME LOT	3,087.55	0.07
271	PH 1 - TOWNHOME LOT	2,090.07	0.05
272	PH 1 - TOWNHOME LOT	2,090.08	0.05
273	PH 1 - TOWNHOME LOT	2,089.94	0.05
274	PH 1 - TOWNHOME LOT	3,087.83	0.07
275	PH 1 - TOWNHOME LOT	3,087.70	0.07
276	PH 1 - TOWNHOME LOT	2,090.07	0.05
277	PH 1 - TOWNHOME LOT	2,089.09	0.05
278	PH 1 - TOWNHOME LOT	2,091.01	0.05
279	PH 1 - TOWNHOME LOT	4,803.14	0.11
280	PH 1 - TOWNHOME LOT	2,880.29	0.07

PARCEL TABLE			
Parcel #	DESCRIPTION	Area (SF)	Area (AC)
321	PH 1 - HOA LOT	75,181.91	1.73
521		75,101.91	1.75
322	PH 1 - HOA LOT	60,844.15	1.40
323	PH 2 - TOWNHOME LOT	3,055.00	0.07
324	PH 2 - TOWNHOME LOT	3,055.00	0.07
325	PH 2 - TOWNHOME LOT	2,068.00	0.05
326	PH 2 - TOWNHOME LOT	2,068.00	0.05
327	PH 2 - TOWNHOME LOT	2,820.00	0.06
328	PH 2 - TOWNHOME LOT	2,820.00	0.06
329	PH 2 - TOWNHOME LOT	2,068.00	0.05
330	PH 2 - TOWNHOME LOT	2,068.00	0.05
331	PH 2 - TOWNHOME LOT	3,055.00	0.07
332	PH 2 - TOWNHOME LOT	3,055.00	0.07
333	PH 2 - TOWNHOME LOT	2,068.00	0.05
334	PH 2 - TOWNHOME LOT	2,068.00	0.05
335	PH 2 - TOWNHOME LOT	2,068.00	0.05
336	PH 2 - TOWNHOME LOT	3,055.00	0.07
337	PH 3 - HOA LOT	41,367.37	0.95
338	PH 3 - HOA LOT	270,562.30	6.21

PARCEL TABLE			
Parcel #	DESCRIPTION	Area (SF)	Area (AC)
221	PH 2 - TOWNHOME LOT	2,068.00	0.05
222	PH 1 - TOWNHOME LOT	3,087.50	0.07
223	PH 1 - TOWNHOME LOT	2,090.00	0.05
224	PH 1 - TOWNHOME LOT	2,090.00	0.05
225	PH 1 - TOWNHOME LOT	2,090.00	0.05
226	PH 1 - TOWNHOME LOT	4,778.52	0.11
227	PH 1 - TOWNHOME LOT	4,778.75	0.11
228	PH 1 - TOWNHOME LOT	2,090.00	0.05
229	PH 1 - TOWNHOME LOT	2,090.00	0.05
230	PH 1 - TOWNHOME LOT	2,090.00	0.05
231	PH 1 - TOWNHOME LOT	3,087.50	0.07
232	PH 1 - TOWNHOME LOT	3,087.49	0.07
233	PH 1 - TOWNHOME LOT	2,089.99	0.05
234	PH 1 - TOWNHOME LOT	2,089.99	0.05
235	PH 1 - TOWNHOME LOT	2,089.99	0.05
236	PH 1 - TOWNHOME LOT	3,087.49	0.07
237	PH 2 - TOWNHOME LOT	3,087.49	0.07
238	PH 2 - TOWNHOME LOT	2,089.99	0.05
239	PH 2 - TOWNHOME LOT	2,089.99	0.05
240	PH 2 - TOWNHOME LOT	2,089.99	0.05

PARCEL TABLE					
Parcel #	DESCRIPTION	Area (SF)	Area (AC)		
281	PH 1 - TOWNHOME LOT	2,111.99	0.05		
282	PH 1 - TOWNHOME LOT	2,112.01	0.05		
283	PH 1 - TOWNHOME LOT	2,112.00	0.05		
284	PH 1 - TOWNHOME LOT	3,118.27	0.07		
285	PH 1 - TOWNHOME LOT	3,118.31	0.07		
286	PH 1 - TOWNHOME LOT	2,111.99	0.05		
287	PH 1 - TOWNHOME LOT	2,111.98	0.05		
288	PH 1 - TOWNHOME LOT	2,111.96	0.05		
289	PH 1 - TOWNHOME LOT	3,119.73	0.07		
290	PH 1 - TOWNHOME LOT	3,119.84	0.07		
291	PH 1 - TOWNHOME LOT	2,111.96	0.05		
292	PH 1 - TOWNHOME LOT	2,111.98	0.05		
293	PH 1 - TOWNHOME LOT	3,120.09	0.07		
294	PH 1 - TOWNHOME LOT	3,120.12	0.07		
295	PH 1 - TOWNHOME LOT	2,112.01	0.05		
296	PH 1 - TOWNHOME LOT	2,112.00	0.05		
297	PH 1 - TOWNHOME LOT	2,880.00	0.07		
298	PH 1 - TOWNHOME LOT	2,820.40	0.06		
299	PH 1 - TOWNHOME LOT	2,068.00	0.05		
300	PH 1 - TOWNHOME LOT	2,068.01	0.05		

DESIGNED BY: CD DRAWN BY: CD REVIEWED BY: TRW DR HORTON PARKI L CENTER I STE 110 SVILLE NC ΑE ~~ G CHAPEL TOWNES SUBDIVISION AM RD Š Д 52 0, 5136, 5228, 0, 5226, 5228, 5 đ TABLES LOT 7734-02 DATE: 04/04/2024

C0-2

ATTENTION CONTRACTORS

The Construction Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the **Public Works Department** at (919) 996-2409, and the **Public Utilities Department** at (919) 996-4540 at least twenty four hours prior to beginning any of their construction.

Failure to notify both *City Departments* in advance of beginning construction, will result in the issuance of *monetary fines*, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.



NOTES:

6

- THE FIRM HAS NEITHER REVIEWED, NOR RELIED UPON A TITLE COMMITMENT OR ANY TITLE REPORT IN AND WHILE PREPARING THIS SURVEY AND THE CLIENT SHOULD NOT RELY UPON THIS SURVEY AS ASSURANCE OF OWNERSHIP, AS A GUARANTEE OF MARKETABLE TITLE OR FOR DISCLOSURE OF TITLE EXCEPTIONS THAT MAY, COULD OR DO ENCUMBER THE PROPERTY. THE CLIENT MUST ENGAGE A TITLE AGENT / TITLE INSURANCE COMPANY FOR REVIEW AND CONFIRMATION OF, AND INSURANCE REGARDING MARKETABLE TITLE.
- 2. AREAS COMPUTED BY COORDINATE METHOD.
- PROPERTY SHOWN HEREON IS SUBJECT TO ALL **RIGHTS-OF-WAY, EASEMENTS AND RESTRICTIONS OF** RECORD.
- 4. ALL DISTANCES SHOWN ON SURVEY ARE HORIZONTAL GROUND DISTANCES UNLESS OTHERWISE NOTED.
- 5. RIGHTS-OF-WAY INFORMATION IS BASED ON DEEDS AND MAPS OF RECORD.
- NC GRID COORDINATES (NAD83) OBTAINED BY USING GPS. PER THE NCVRS NETWORK.
- 7. BASIS OF BEARING SHOWN HEREON IS NC GRID (NAD 83 NSRS 2011).
 - THE PROPERTY SHOWN HEREON IS LOCATED IN FLOODZONE "ZONE X", AREA OF MINIMAL FLOODING, PER FLOOD INSURANCE RATE MAP 3720174600K, PANEL 1746 EFFECTIVE DATE JULY 19, 2022.

9. PARCELS SHOWN ON THE SURVEY ARE WITHIN THE SPECIAL HIGHWAY OVERLAY DISTRICT-1 (SHOD-1)

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SITE AREA TABLE

	CTCD01 (A. 0.00	100 -00 EX.0				
PIN	1746-	-11-95	586			
PIN	1746	20-19	971		8	
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PIN	1746-	10-94	164	e Receive receive	1121121	0
PIN	1746-	20-45	575		*****	
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NEW TRACT 1 AREA.. NEW TRACT 2 AREA.

TOTAL SITE AREA.

PROPERTY OWNERS CERTIFICATE FOR NON- DEDICATION THIS CERTIFIES AND WARRANTS THAT THE UNDERSIGNED IS (ARE) THE SOLE OWNER(S) OF THE PROPERTY SHOWN ON THE MAP OR PLAT AND ANY ACCOMPANYING SHEETS HAVING ACQUIRED THE PROPERTY IN FEE SIMPLE BY DEED(S) RECORDED IN THE COUNTY REGISTER OF DEEDS OFFICE WHERE THE PROPERTY IS LOCATED AND AS SUCH HAS (HAVE) THE RIGHT TO CONVEY THE PROPERTY IN FEE SIMPLE. BOOK NO .: 19301 PAGE NO.: 2235, 2244, 2252, 2262 & 2229 **BUFFALOE ROAD INVESTMENTS, LLC** SIGNATURE(S) & TITLE/POSITION OF PROPERTY OWNER(S) 1× Ceilei MANAGER NOTARY STATEMENT STATE OF North Carolina COUNTY OF WAKE I CERTIFY THAT THE FOLLOWING PERSON(S) PERSONALLY APPEARED BEFORE ME THIS DAY, EACH ACKNOWLEDGING TO ME THAT HE OR SHE VOLUNTARILY SIGNED THE FOREGOING DOCUMENT FOR THE PURPOSE STATED THEREIN AND IN THE CAPACITY INDICATED. Pablo Boiter - Manager DATE: Aug. 319 2023 Anne & Vakler PRINTED NAME Anre B. Oaklay MY COMMISSION EXPIRES: 11/14/2024 FLOOD PLAIN ORDINANCE "THIS PLAT OR MAP IS NOT A SUBDIVISION, BUT A RECOMBINATION OF PREVIOUSLY PLATTED PROPERTY, AND MEETS STATUTORY REQUIREMENTS FOR RECORDING.] FIRM PANEI PLANNING AND DEVELOPMENT OFFICER/WAKE COUNTY REVIEW OFFICER [X] OTHER FLOOD HAZARD SOILS APPROVED BY 8/9/2023

	SITE OWNER TABLE
14 14 14 14 14 14 14 14 14 14 14 14 14 1	OWNERS: BUFFALOE ROAD INVESTMENTS, LLC
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	OWNER ADDRESSES: 6908 N RIDGE DRIVE, RALEIGH, NC 27615
10 10 10 10 10 10 10 10 10 10 10 10 10 1	
	SITE ADDRESSES: 5136, 5228, 5305, 5246 5237 NEEDHAM RD;
	5226, 5264, 5268, 5228 & 5232 FORESTVILLE RI
A set of a set of a set of a	
12	

WAKE COUNTY, NC 42 TAMMY L. BRUNNER REGISTER OF DEEDS PRESENTED & RECORDED ON 08/10/2023 14:08:51

BOOK: BM2023 PAGE: 01409

REFERENCES DB 3441, PG 723 DB 14732, PG 904 DB 17584, PG 1805 DB 17319, PG 2049 DB 17710, PG 2658 DB 15172, PG 811 DB 10662, PG 1283 DB 13819, PG 2099 DB 19074, PG 2164 DB 19301, PG 2235 DB 19301, PG 2244 DB 19301, PG 2252 DB 19301, PG 2229 BM 1990, PG 320 BM 2018, PG 274 BM 2017, PG 258 BM 2022, PG 2073 WILL BOOK 16-E, PG 2005 WILL BOOK 12-E, PG 18 WILL BOOK 9-E, PG 2736

THIS PLAT IS NOT TO BE RECORDED AFTER 23 4 DAY OF HUGUST 2023 ONE (1) COPY TO BE RETAINED FOR THE CITY.

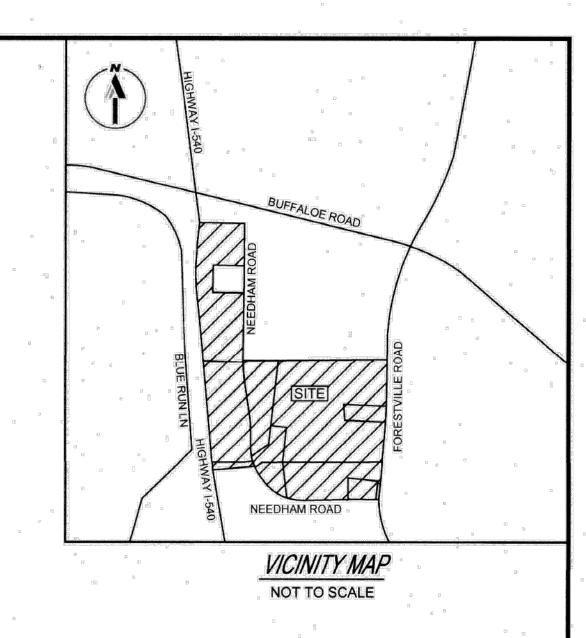
THIS PLAT IS ____IN ____OUT OF THE CITY LIMITS

.354,611 SF / 8,141 AC (TO NEW TRACT 2)

EDHAM RD...266,241 SF / 6.112 AC (TO NEW TRACT 2 .153,172 SF / 3.516 AC (TO NEW TRACT 1 .16,273 SF / 0.374 AC (TO NEW TRACT 2 ..51,465 SF / 1.182 AC (TO NEW TRACT 1 .679,934 SF / 15.609 AC (TO NEW TRACT 1 .44,968 SF / 1.032 AC (TO NEW TRACT 1 .194,212 SF / 4,459 AC (TO NEW TRACT 1) .37,367 SF / 0.858 AC (TO NEW TRACT 1 ...3,012 SF / 0.069 AC (TO NEW TRACT 1 .43,861 SF / 1.007 AC (TO NEW TRACT 1

> 1,207,991 SF / 27,732 AC ..637,125 SF / 14.627 AC

.1,845,116 SF / 42.359 AC



SURVEYOR CERTIFICATION

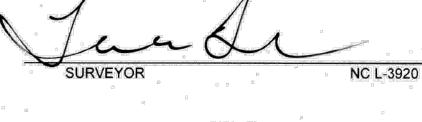
I, THOMAS E. TEABO, PLS, HEREBY CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION, FROM DEED AND MAP REFERENCES AS NOTED ON SAID MAP: THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION FROM DEED AND MAP REFERENCES AS NOTED ON SAID MAP. THAT THE RATIO OF PRECISION OR POSITIONAL ACCURACY OF THE SURVEY AS CALCULATED IS 1: 10,000+, THAT THE BOUNDARIES NOT SURVEYED ARE SHOWN AS BROKEN LINES PLOTTED FROM INFORMATION OF RECORD; THAT THIS MAP WAS PREPARED IN ACCORDANCE WITH G.S. 47-30, AS AMENDED.

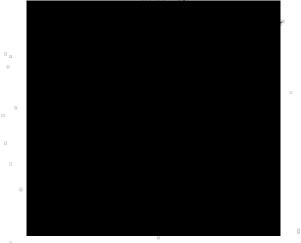
I HEREBY CERTIFY THAT THIS MAP WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL GPS SURVEY MADE UNDER MY SUPERVISION AND THE FOLLOWING INFORMATION WAS USED TO PERFORM THE SURVEY:

- CLASS OF SURVEY: "CLASS A" (1)
- POSITIONAL ACCURACY: 0.04' (2)TYPE OF GPS FIELD PROCEDURE: REAL-TIME KINEMATIC (3)
- NETWORKS-NCVRS DATES OF SURVEY: 06/24/2020 - 04/12/2023
- DATUM/EPOCH: NAD 83 (2011) EPOCH 2010.00
- PUBLISHED/FIXED-CONTROL USE: NCVRS (6)
- GEOID MODEL: 2012 (CONUS) (7)
- (8) COMBINED GRID FACTOR(S): 0.999917980
- UNITS: US SURVEY FEET (9)

THIS SURVEY IS OF ANOTHER CATEGORY, SUCH AS THE RECOMBINATION OF EXISTING PARCELS. A COURT-ORDERED SURVEY, OR OTHER EXEMPTION OR EXCEPTION TO THE DEFINITION OF SUBDIVISION.

WITNESS MY ORIGINAL SIGNATURE, LICENSE NUMBER AND SEAL THIS 31ST DAY OF JULY A.D., 2073.

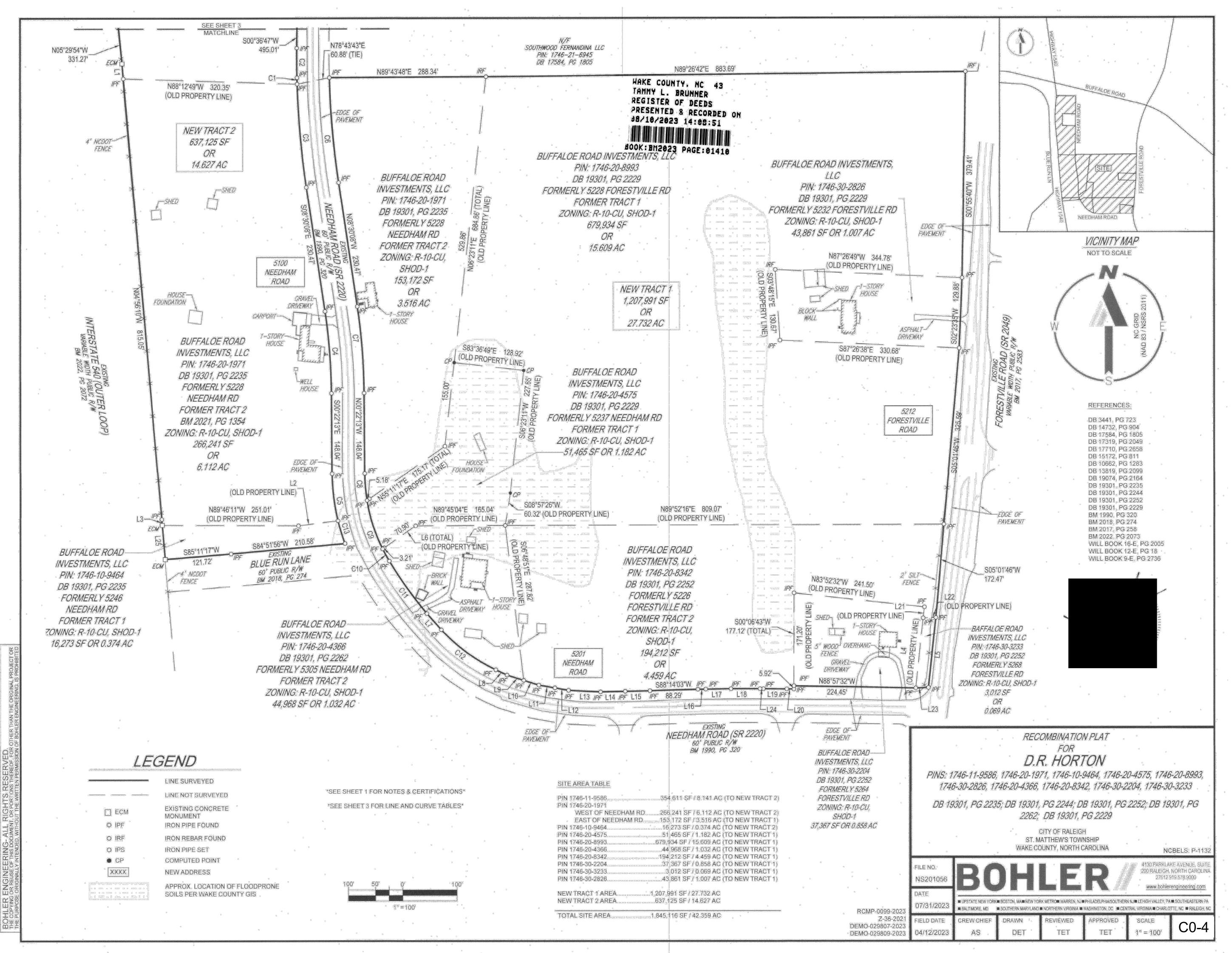


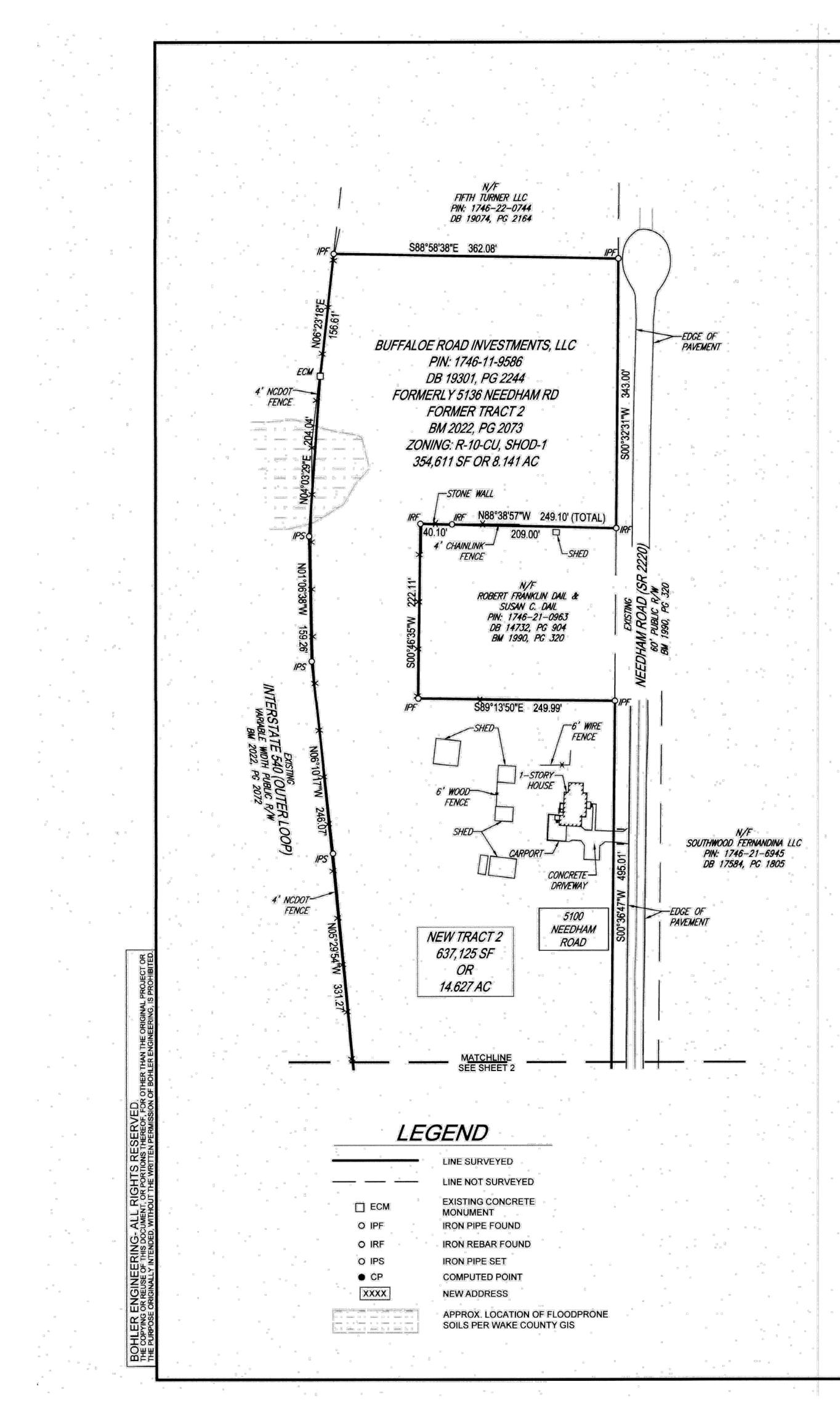


RECOMBINATION PLAT FOR D.R. HORTON PINS: 1746-11-9586, 1746-20-1971, 1746-10-9464, 1746-20-4575, 1746-20-8993, 1746-30-2826, 1746-20-4366, 1746-20-8342, 1746-30-2204, 1746-30-3233 DB 19301, PG 2235; DB 19301, PG 2244; DB 19301, PG 2252; DB 19301, PG 2262; DB 19301, PG 2229 CITY OF RALEIGH ST. MATTHEW'S TOWNSHIP

WAKE COUNTY, NORTH CAROLINA **NCBELS: P-1132** 4130 PARKLAKE AVENUE, SUIT FILE NO 200 RALEIGH, NORTH CAROLINA 27612 919.578.9000 NS20 www.bohlerengineering.com DATE UPSTATE NEW YORK BOSTON, MAD NEW YORK METROD WARREN, NJ PHILADELPHIA/SOUTHERN NJ LEHIGH VALLEY, PAU SOUTHEASTERN P/ 07/31/202 BALTIMORE, MD SOUTHERN MARYLAND IN NORTHERN VIRGINIA WASHINGTON, DC CENTRAL VIRGINIA CHARLOTTE, NC RALEIGH, NC FIELD DATE **CREW CHIEF** DRAWN REVIEWED APPROVED SCALE C0-3 DET TET 04/12/2023 AS TET 1" = 100'

RCMP-0099-2023 Z-36-2021 DEMO-029807-2023 DEMO-029809-2023







7	LINE TABLE	
LINE	BEARING	DISTANCE
Ľ1	N04° 56' 10"W	27.81'
L2	S82° 44' 02''W	73.15'
L3	N04° 56' 10''W	10.86'
L4	N06° 07' 28"E	130.00
L5	S06° 07' 28''W	130.00'
L6	N54° 55' 32"E	74.10'
L7	N42° 09' 00''W	40.00'
L8	, N64° 36' 41''W	22,67'
L9	N72° 43' 48''W	32.53'
L10	N72° 43' 48"W	29.13'
L11	N79° 57' 35"W	2 9.94
L12	N79° 57' 35''W	25.56
L13	N87° 15' 55"W	59.33'
L14	S88° 46' 37"W	· 45.77 [']
L15	S88° 46' 37"W	45.54'
L16	S89° 05' 38''W	14.59'
L17 .	S89° 05' 38''W	46.59'
L18	N89° 58' 25''W	53.44
L19	S89° 32' 34"E	43.00
L20	N89° 32' 34"W	13.01
Ļ21	N06° 07' 28"E	20.37'
Ĺ22	S88° 17' 28''W	23.39'
L23	S88° 17' 28''W	23.39'
L24	N89° 58' 25''W	6.23"
L25	N04° 56' 10''W	63.33

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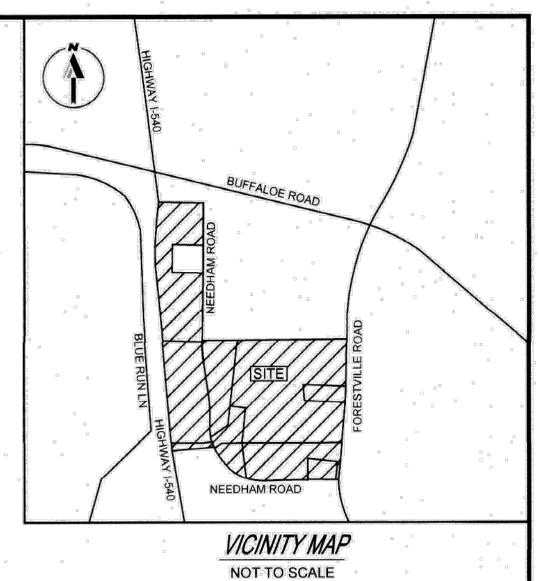
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SITE AREA TABLE	a c	а а в а	0) ©	a a	5 0 0 0 9 0 0 9 0 8
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WEST OF NEEDHAM RD266,241 SF / 6.112 AC (TO EAST OF NEEDHAM RD153,172 SF / 3.516 AC (TO I					
PIN 1746-10-9464			REC	OMBINATION PLAT	a "p" "
PIN 1746-20-4575	NEW TRACT 1)	역 전 전		FOR	
PIN 1746-20-8993				R. HORTON	ũ -
PIN 1746-20-4366			D.I		C C 10
PIN 1746-20-8342		PINS 1	746-11-9586 1746-20-19	71, 1746-10-9464, 1746-2	0-4575 1746-20-8993
PIN 1746-30-2204	NEW TRACT 1)				
PIN 1746-30-3233	NEW TRACT 1)	1740	-30-2826, 1746-20-4366,	1746-20-8342, 1746-30-2	204, 1746-30-3233
PIN 1746-30-2826		• DB 19		PG 2244; DB 19301, PG DB 19301, PG 2229	2252; DB 19301, PG
TOTAL SITE AREA			* ST. N	CITY OF RALEIGH IATTHEW'S TOWNSHIP DUNTY, NORTH CAROLINA	NCBELS: P-1132
9 - 6 8 8 8 5 - 1 8 8 8 8 -		FILE NO.			4130 PARKLAKE AVENUE, SUITE 200 RALEIGH, NORTH CAROLINA
8. ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		NOODADEE			200 RALEIGH, NORTH CAROLINA 27612 919.578.9000
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<u>00' 50' 0' 100'</u>			UPSTATE NEW YORKE BOSTON, MAIL NEW YO	RK METRO WARREN, NJ PHILADELPHIA/SOUTHER	N NJII LEHIGH VALLEY, PA I SOUTHEASTERN PA
		07/31/2023			
		0099-2023 Z-36-2021 FIELD DATE			
·	DEMO-02		CREW CHIEF DRAWN	REVIEWED APPROVED	
	DEMO-02		AS DET	TET°. "TET"	1" = 100' CO-5
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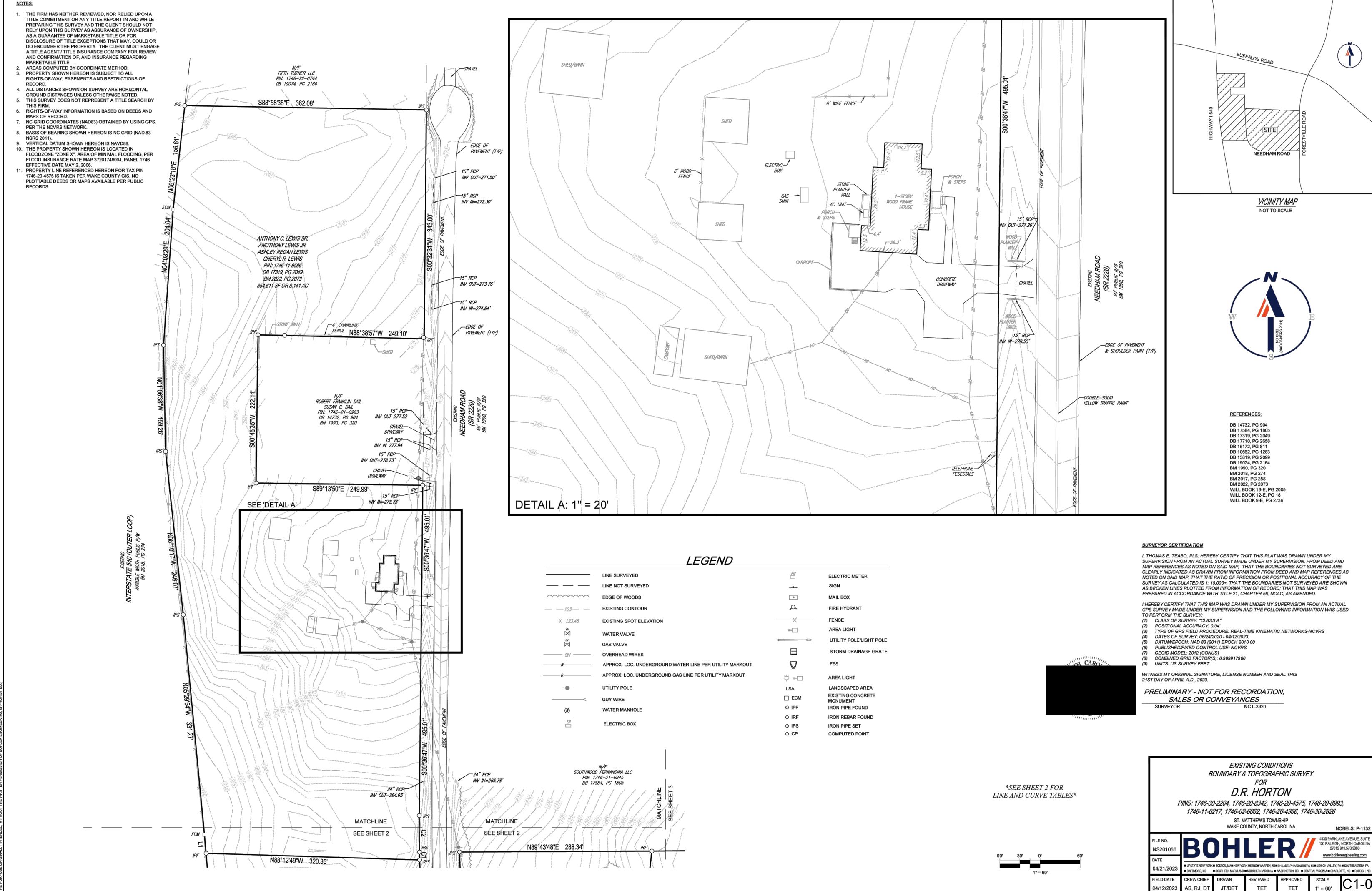
RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
1610.00'	11.62'	S01°29'37"E	11.62'	000°24'49"	5.81
1610.00'	54.88'	S00°18'38"E	54.87'	001°57'11"	27.44'
1610.00'	191.13'	S05°06'05''E	191.02	006°48'06"	95.68'
1070.00'	151.87'	S04°26'10"E	151.74	008°07'55"	76.06
380.00'	87.95'	S07°00'02"E	87.75'	013°15'38"	44.17'
1550.00'	194.13'	N04°54'52''W	194.00'	007°10'33"	97.19'
1130.00'	160.38'	N04°26'10''W	160.25'	008°07'55"	80.33
320.00	50.45'	N04°53'13''W	50.40'	009°02'01"	25.28'
320.00 [.]	94.27'	N17°50'37''W	93.93'	[°] 016°52'47"	47.48
320.00'	25.54	N28°34'12"W	25.53	004°34'22"	12.78'
720.00'	119.03'	N35°35'32''W	118.89'	009°28'18"	59.65'
320.00'	125.45'	N53°22'51"W	124.65'	022°27'41" .	63.54
380.00'	44.24'	S16°57'57''E	44.21	006°40'11"	22.14

SI	8	
REFERENCES		
	21	ф.
DB 3441, PG 723	2	
DB 14732, PG 904		
DB 17584, PG 1805		
DB 17319, PG 2049		8
DB 17710, PG 2658		
DB 15172, PG 811		
DB 10662, PG 1283		
DB 13819, PG 2099		
DB 19074, PG 2164	20	
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	W.	•			NC GRID (NAD 83 / NSRS 2011)	È.	3	8 57 17	83
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CURVE TABLE

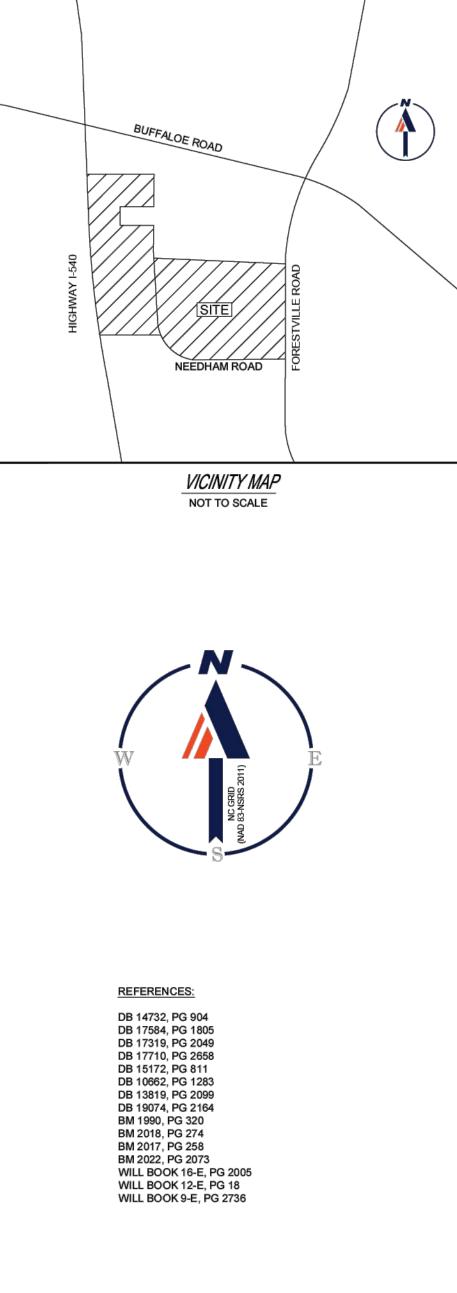


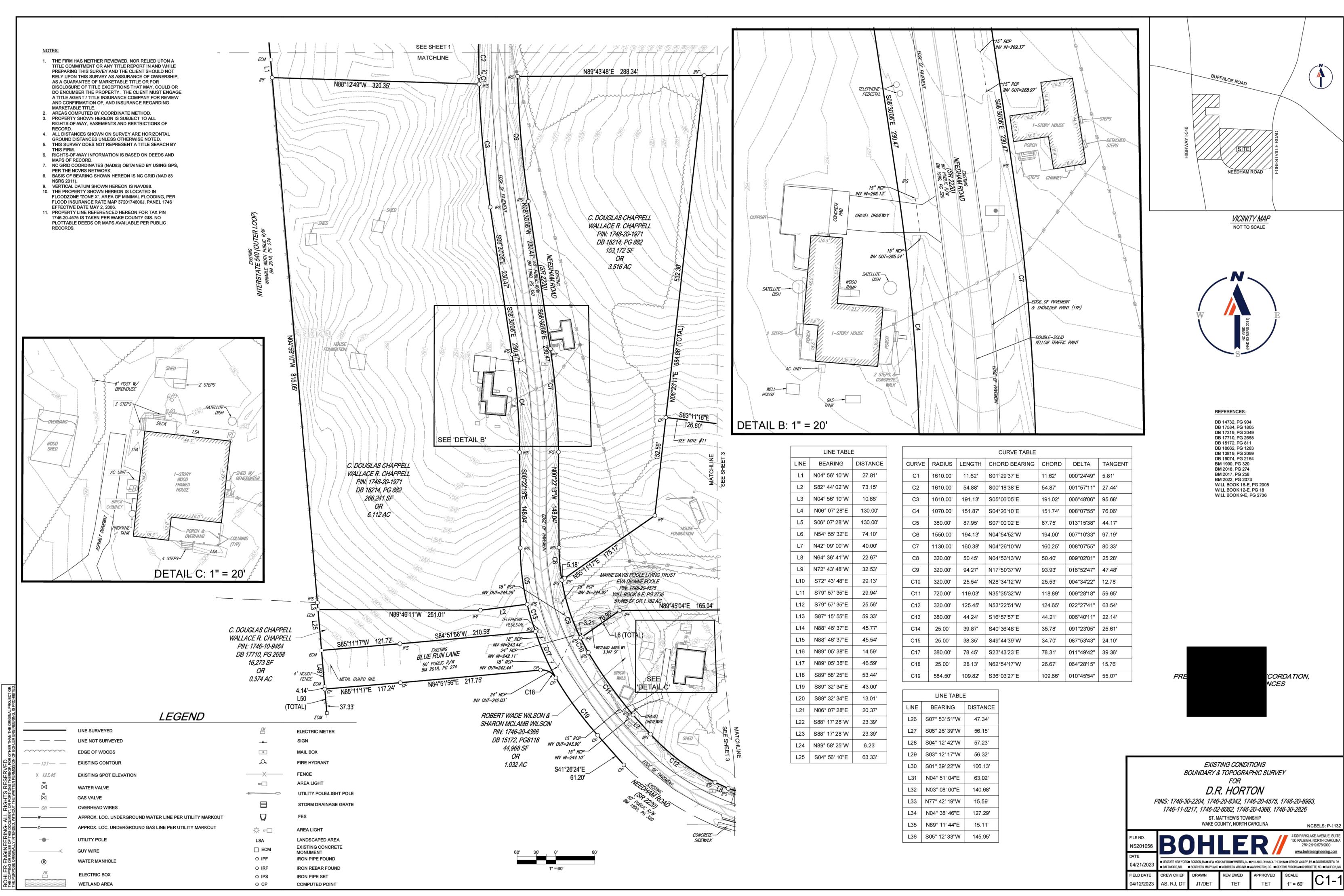


	LINE SURVEYED	ĒM	ELECTRIC METER
	LINE NOT SURVEYED	_ _	SIGN
	EDGE OF WOODS	۲	MAIL BOX
— — 123— —	EXISTING CONTOUR	2	FIRE HYDRANT
X <i>123.45</i>	EXISTING SPOT ELEVATION	X	FENCE
\mathbb{X}	WATER VALVE	=	AREA LIGHT
gv	GAS VALVE	-	UTILITY POLE/LIGHT POLE
OH	OVERHEAD WIRES		STORM DRAINAGE GRATE
<i>W</i>	APPROX. LOC. UNDERGROUND WATER LINE PER UTILITY MARKOUT	Q	FES
<i>G</i>	APPROX. LOC. UNDERGROUND GAS LINE PER UTILITY MARKOUT	☆ =□	AREA LIGHT
	UTILITY POLE	LSA	LANDSCAPED AREA
<	GUY WIRE		EXISTING CONCRETE MONUMENT
Ø	WATER MANHOLE	O IPF	IRON PIPE FOUND
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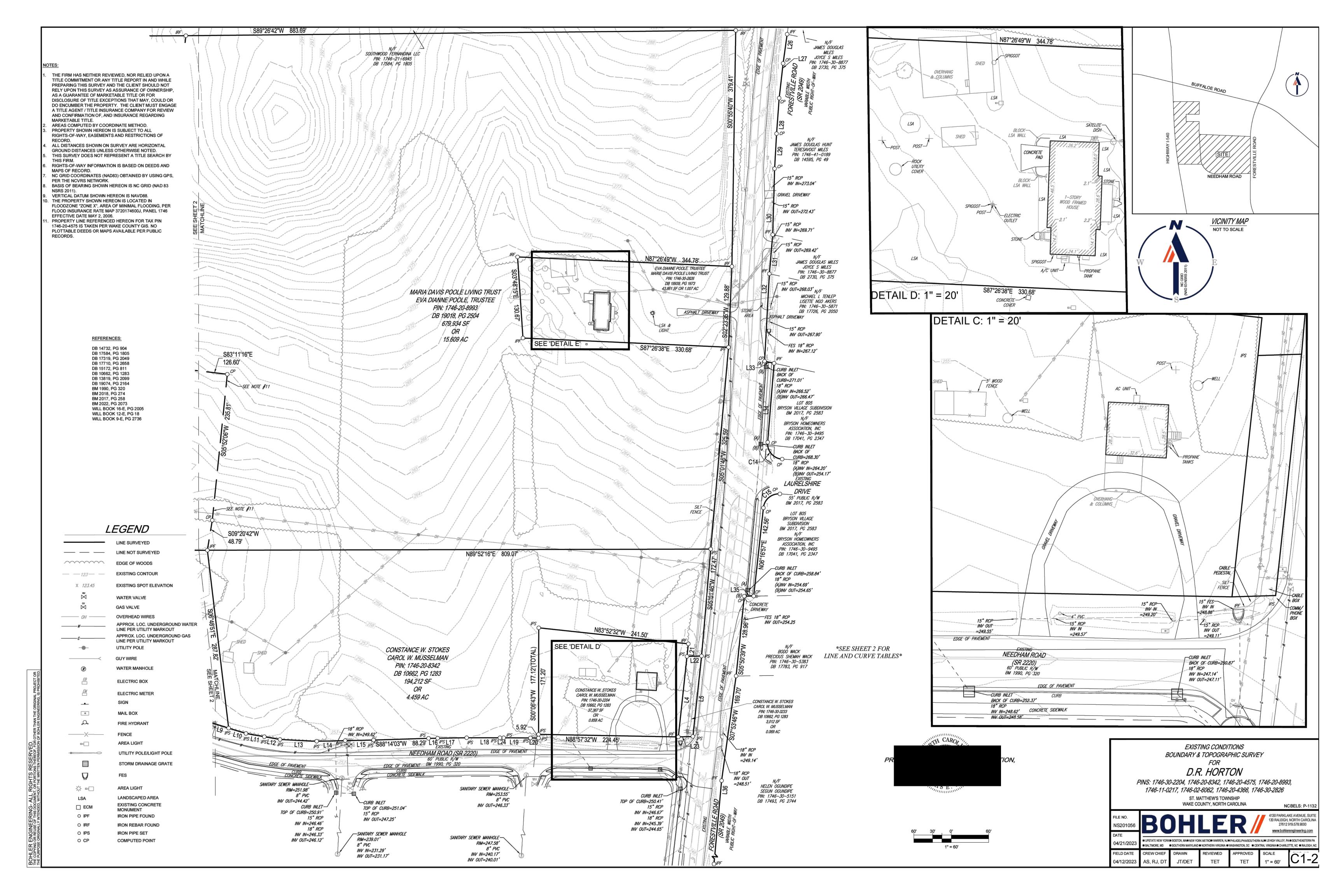
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	LINE TABLE	Ξ
LINE	BEARING	DISTANCE
L1	N04° 56' 10"W	27.81'
L2	S82° 44' 02''W	73.15'
L3	N04° 56' 10"W	10.86'
L4	N06° 07' 28"E	130.00'
L5	S06° 07' 28''W	130.00'
L6	N54° 55' 32"E	74.10'
L7	N42° 09' 00''W	40.00'
L8	N64° 36' 41"W	22.67'
L9	N72° 43' 48"W	32.53'
L10	S72° 43' 48"E	29.13'
L11	S79° 57' 35"E	29.94'
L12	S79° 57' 35"E	25.56'
L13	S87° 15' 55"E	59.33'
L14	N88° 46' 37"E	45.77'
L15	N88° 46' 37"E	45.54'
L16	N89° 05' 38"E	14.59'
L17	N89° 05' 38"E	46.59'
L18	S89° 58' 25"E	53.44'
L19	S89° 32' 34"E	43.00'
L20	S89° 32' 34"E	13.01'
L21	N06° 07' 28"E	20.37'
L22	S88° 17' 28''W	23.39'
L23	S88° 17' 28''W	23.39'
L24	N89° 58' 25''W	6.23'
L25	S04° 56' 10"E	63.33'

				CURVE TABLE	~ /		
CURVE	RADIUS	LENGTH	СН	ORD BEARING	CHORD	DELTA	TANGENT
C1 1610.00' 11.62' SC		S01	°29'37"E	11.62'	000°24'49"	5.81'	
C2	1610.00'	54.88'	SOC)°18'38''E	54.87'	001°57'11"	27.44'
C3	1610.00'	191.13'	S05	5°06'05"E	191.02'	006°48'06"	95.68'
C4	1070.00'	151.87'	S04	°26'10"E	151.74'	008°07'55''	76.06'
C5	380.00'	87.95'	S07	°00'02''E	87.75'	013°15'38"	44.17'
C6	1550.00'	194.13'	N04	°54'52''W	194.00'	007°10'33"	97.19'
C7	1130.00'	160.38'	N04	°26'10"W	160.25'	008°07'55"	80.33'
C8	320.00'	50.45'	N04	°53'13"W	50.40'	009°02'01"	25.28'
C9	320.00'	94.27'	N17	°50'37''W	93.93'	016°52'47"	47.48'
C10	320.00'	25.54'	N28	3°34'12"W	25.53'	004°34'22"	12.78'
C11	720.00'	119.03'	N35	5°35'32''W	118.89'	009°28'18"	59.65'
C12	320.00'	125.45'	N53	3°22'51''W	124.65'	022°27'41"	63.54'
C13	380.00'	44.24'	S16	°57'57"E	44.21'	006°40'11"	22.14'
C14	25.00'	39.87'	S40)°36'48''E	35.78'	091°23'05"	25.61'
C15	25.00'	38.35'	S49)°44'39''W	34.70'	087°53'43"	24.10'
C17	380.00'	78.45'	S23	3°43'23"E	78.31'	011°49'42"	39.36'
C18	25.00'	28.13'	N62	2°54'17''W	26.67'	064°28'15"	15.76'
C19	584.50'	109.82'	S36	6°03'27"E	109.66'	010°45'54"	55.07'
				1			
	LINE TA			-			
LINE	BEARING			-			
L26	S07° 53' 51''			-			
L27	S06° 26' 39''		1.54290	-			
L28	S04° 12' 42''			-			
L29	S03° 12' 17''		anne a	-			Г
L30	S01° 39' 22''			-			
L31	N04° 51' 04"		02'	-			
L32	N03° 08' 00"		220-220	-			
L33	N77° 42' 19"			-			
L34	N04° 38' 46"		29'	-			
L35	N89° 11' 44"		11'	-			F
L36	S05° 12' 33''	W 145.	95'				FI



NOTES:

- 1. THE FIRM HAS RELIED UPON TITLE REPORT FURNISH BY AMERICAN LAND TITLE ASSOCIATION TITLE COMMITMENT: 167-233101897C DATED MAY 8, 2023 AT 9:00 AM, WHILE AND IN PREPARING THIS SURVEY. THE SURVEYOR IS NOT RESPONSIBLE FOR ANY TITLE EXCEPTIONS NOT DISCLOSED BY THE REFERENCED TITLE COMMITMENT.
- 2. AREAS COMPUTED BY COORDINATE METHOD.
- 3. PROPERTY SHOWN HEREON IS SUBJECT TO ALL RIGHTS-OF-WAY, EASEMENTS AND RESTRICTIONS OF RECORD.
- 4. ALL DISTANCES SHOWN ON SURVEY ARE HORIZONTAL GROUND DISTANCES UNLESS OTHERWISE NOTED.
- 5. RIGHTS-OF-WAY INFORMATION IS BASED ON DEEDS AND MAPS OF RECORD.
- 6. NC GRID COORDINATES (NAD83) OBTAINED BY USING GPS, PER THE NCVRS NETWORK.
- 7. BASIS OF BEARING SHOWN HEREON IS NC GRID (NAD 83
- NSRS 2011). 8. VERTICAL DATUM SHOWN HEREON IS NAVD88.
- 9. THE PROPERTY SHOWN HEREON IS LOCATED IN FLOODZONE "ZONE X", AREA OF MINIMAL FLOODING, PER FLOOD INSURANCE RATE MAP 3720174600J, PANEL 1746 EFFECTIVE DATE MAY 2, 2006.
- 10. NO OBSERVED EVIDENCE OF RECENT EARTHWORK OR CONSTRUCTION AT TIME OF SURVEY.
- 11. NO OBSERVED EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS AT THE TIME OF THE SURVEY.

AMERICAN LAND TITLE ASSOCIATION FILE NO: 167-233101897C DATED: MAY 8, 2023 AT 09:00 AM SCHEDULE B, PART II EXCEPTIONS

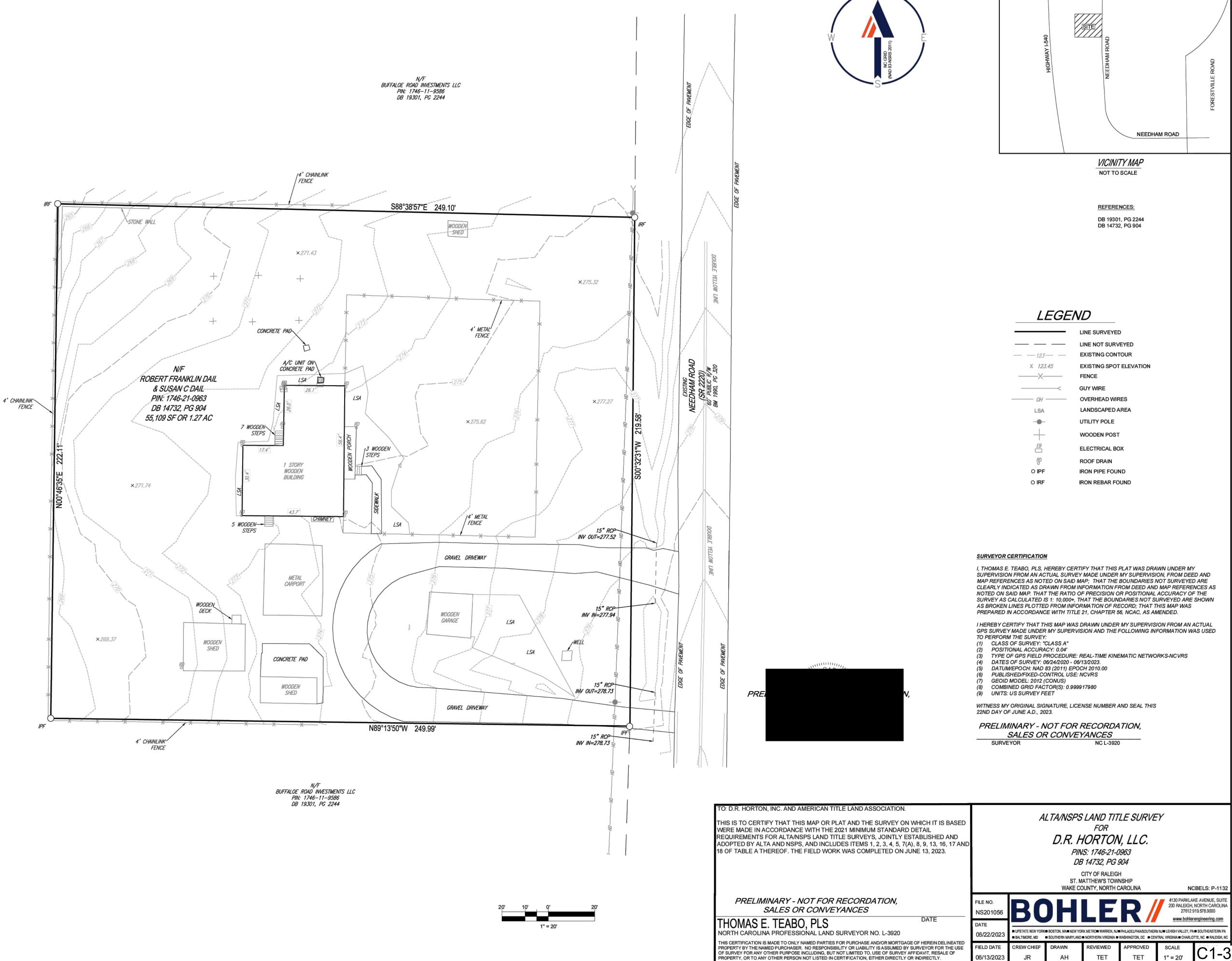
- ANY DEFECT, LIEN, ENCUMBRANCE, ADVERSE CLAIM, OR OTHER MATTER THAT APPEARS FOR THE FIRST TIME IN THE PUBLIC RECORDS OR IS CREATED, ATTACHES, OR IS DISCLOSED BETWEEN THE COMMITMENT DATE AND THE DATE ON WHICH ALL OF THE SCHEDULE B, PART I -REQUIREMENTS ARE MET. NOT A SURVEY MATTER.
- TAXES AND ASSESSMENTS FOR THE YEAR 2023, A LIEN NOW DUE AND PAYABLE AND SUBSEQUENT YEARS, A LIEN NOT YET DUE AND PAYABLE. NOT A SURVEY MATTER.
- TITLE TO ANY AREAS WITHIN STREET, HIGHWAY OR RAILROAD RIGHTS OF WAY, IF ANY. NOT A SURVEY MATTER.
- THE CREATION OR LOSS OF LAND BY NATURAL OR ARTIFICIAL CHANGES ALONG WATER FORMING PART OF THE BOUNDARY OF THE LAND; AND/OR TITLE TO LAND LYING BELOW THE HIGHER OF THE MEAN HIGH WATER MARK AND/OR THE NORMAL BOUNDS OF ANY BODY OF WATER; AND/OR RIPARIAN RIGHTS INCIDENT TO ANY BRANCHES, CREEKS, STREAMS, LAKES OR OTHER WATERS COURSING OR ABUTTING THE LAND. DOES NOT AFFECT SUBJECT PROPERTY
- 5. ANY DISCREPANCY, CONFLICT, ACCESS, SHORTAGE IN AREA OR BOUNDARY LINES, ENCROACHMENT, ENCUMBRANCE, VIOLATION, OVERLAP, SETBACK, EASEMENT OR CLAIMS OF EASEMENT, RIPARIAN RIGHT AND TITLE TO LAND WITHIN ROADS, WAYS, RAILROADS, WATERCOURSES, BURIAL GROUNDS, MARSHES, DREDGED OR FILLED AREAS OR LAND BELOW THE MEAN HIGHWATER MARK OR WITHIN THE BOUNDS OF ANY ADJOINING BODY OF WATER, OR OTHER ADVERSE CIRCUMSTANCE AFFECTING THE TITLE THAT WOULD BE DISCLOSED BY A CURRENT INSPECTION AND ACCURATE AND COMPLETE LAND SURVEY OF THE LAND. THE ABOVE AS APPLICABLE AND PLOTTABLE ARE
- PLOTTED AND SHOWN ON THE SURVEY. ANY RIGHT, EASEMENT, SETBACK, INTEREST, CLAIM, ENCROACHMENT, ENCUMBRANCE, VIOLATION, VARIATION, OR OTHER ADVERSE CIRCUMSTANCE AFFECTING THE TITLE DISCLOSED BY PLAT(S) RECORDED IN BOOK OF MAPS 1990,

PAGE 320. AFFECTS SUBJECT PROPERTY. NO PLOTTABLE MATTERS.

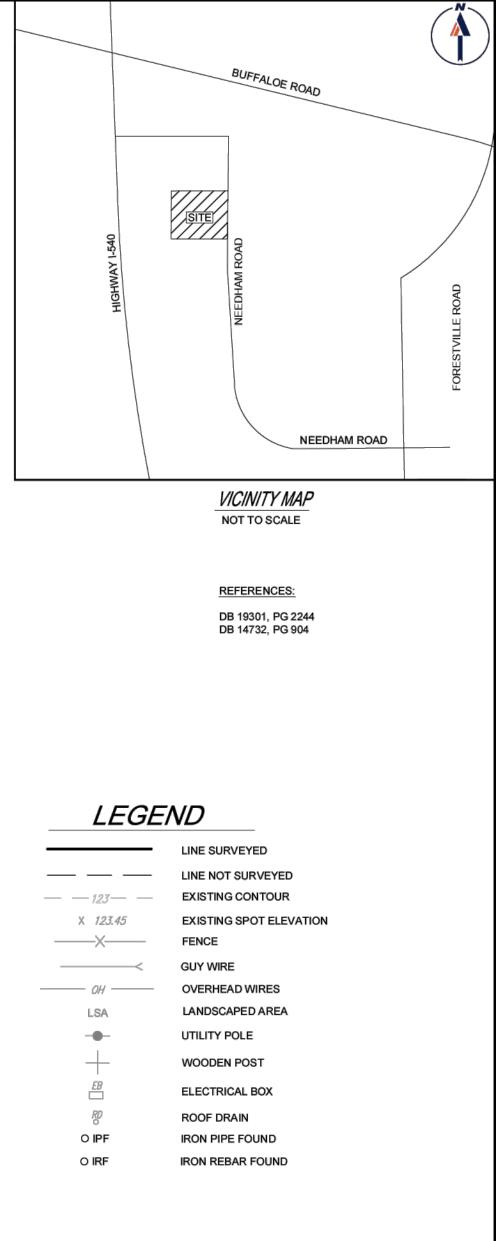
- RIGHT OF WAY AGREEMENT TO THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION, RECORDED 3/11/2011 IN BOOK 14293, PAGE 1997. AFFECTS SUBJECT PROPERTY, RIGHTS-OF-WAY OF NEEDHAM ROAD, ALONG SUBJECT PROPERTY, ARE PLOTTED AND SHOWN ON THE SURVEY.
- 8. EQUITY LINE DEED OF TRUST TO STATE EMPLOYEES' CREDIT UNION DATED 3/12/2019, OF RECORD IN BOOK 17386, PAGE 972. AFFECTS SUBJECT PROPERTY. NO PLOTTABLE

MATTERS.

NO CLOSING SERVICES INSURANCE: AS TO THE TRANSACTION FOR WHICH THIS COMMITMENT IS ISSUED, THE COMPANY DOES NOT AFFORD INSURED CLOSING PROTECTION/CLOSING SERVICES INSURANCE ABSENT REVISION OF THIS COMMITMENT TO INCLUDE A STATEMENT THAT COVERAGE IS AFFORDED TO THOSE PARTIES IDENTIFIED IN A SEPARATE CLOSING PROTECTION LETTER ISSUED SIMULTANEOUSLY WITH REVISION OF THE COMMITMENT. ANY CLOSING PROTECTION COVERAGE OR LETTER WHICH HERETOFORE MAY HAVE BEEN ISSUED IS HEREBY RESCINDED AND SHALL NOT BE EFFECTIVE AS TO THIS TRANSACTION. ANY CLOSING PROTECTION LETTER SUBSEQUENTLY ISSUED SHALL NOT BE EFFECTIVE AS TO THIS TRANSACTION ABSENT THE ACCOMPANYING REQUISITE REVISION OF THIS COMMITMENT. NOT A SURVEY MATTER.



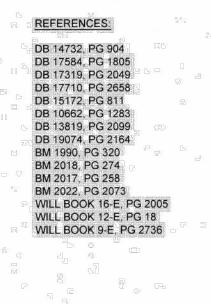




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13	THE FIRM HAS NEITHER REVIEWED, NOR RELIED UPON A
5	TITLE COMMITMENT OR ANY TITLE REPORT IN AND WHILE
	PREPARING THIS SURVEY AND THE CLIENT SHOULD NOT
8 5 0	RELY UPON THIS SURVEY AS ASSURANCE OF OWNERSHIP,
	AS A GUARANTEE OF MARKETABLE TITLE OR FOR
1 0	DISCLOSURE OF TITLE EXCEPTIONS THAT MAY, COULD OR
	DO ENCUMBER THE PROPERTY. THE CLIENT MUST ENGAGE
	A TITLE AGENT / TITLE INSURANCE COMPANY FOR REVIEW
Pi	AND CONFIRMATION OF, AND INSURANCE REGARDING
0	MARKETABLE TITLE.
2.	AREAS COMPUTED BY COORDINATE METHOD.
3.	PROPERTY SHOWN HEREON IS SUBJECT TO ALL
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4.	ALL DISTANCES SHOWN ON SURVEY ARE HORIZONTAL
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0 00	PER THE NCVRS NETWORK
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8.	THE PROPERTY SHOWN HEREON IS LOCATED IN
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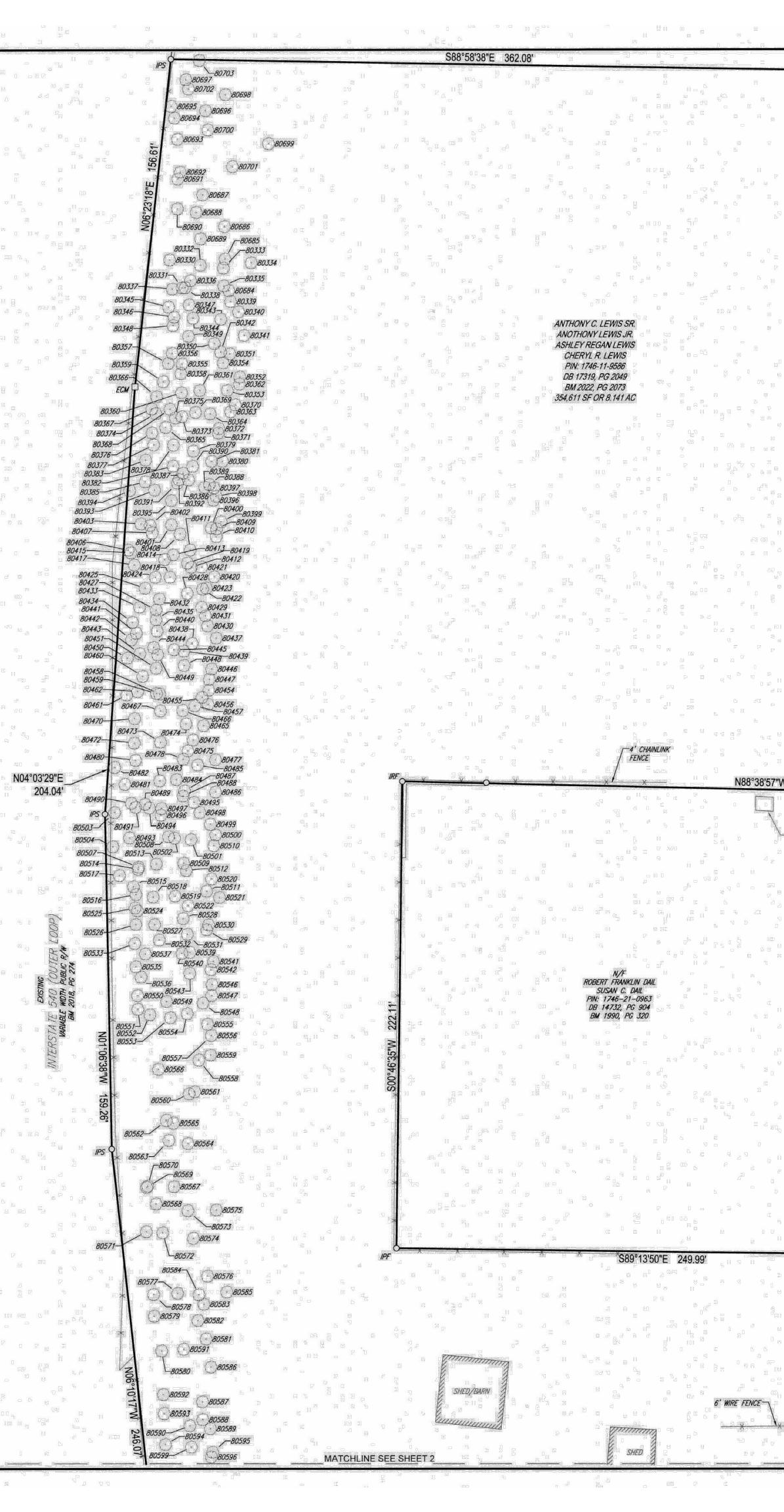


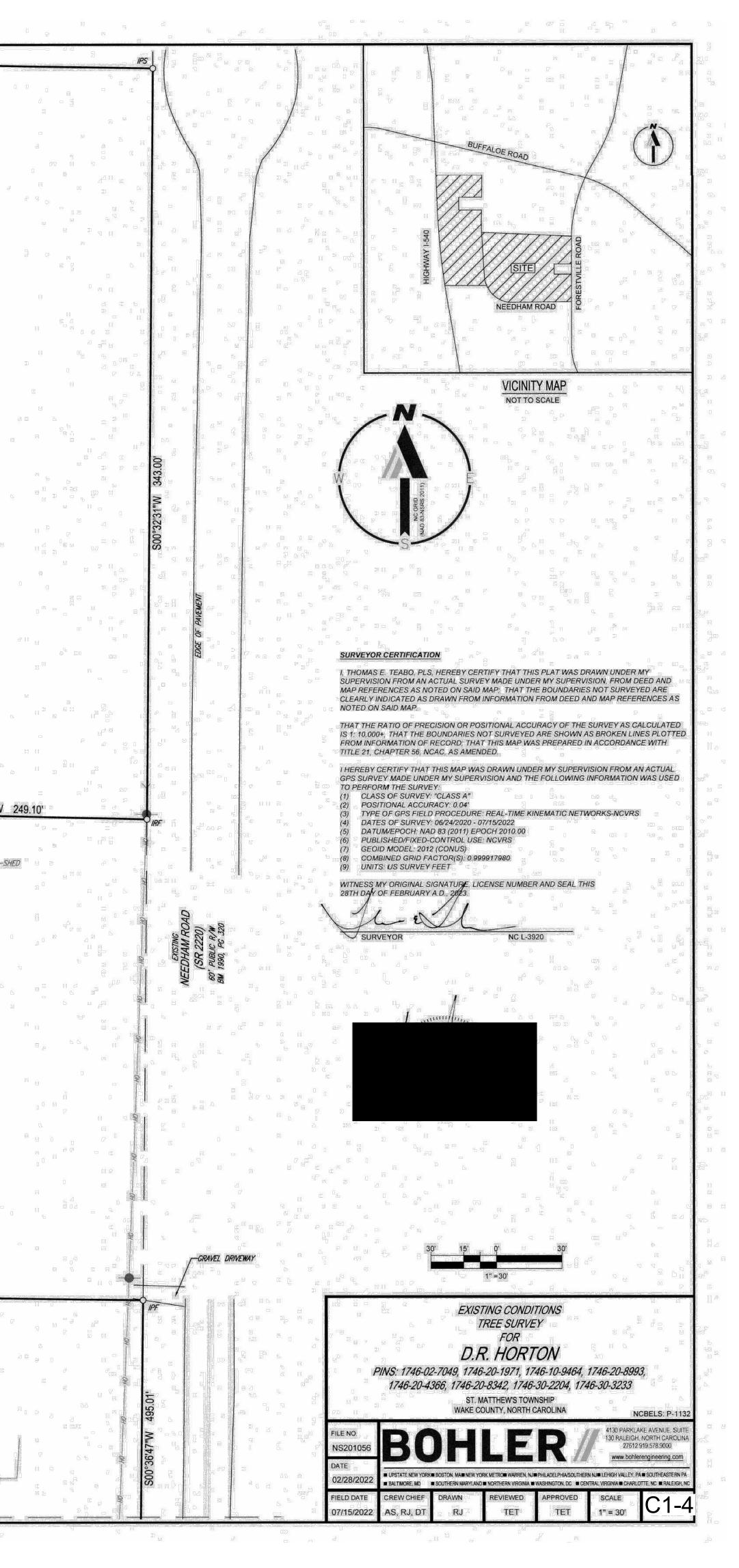
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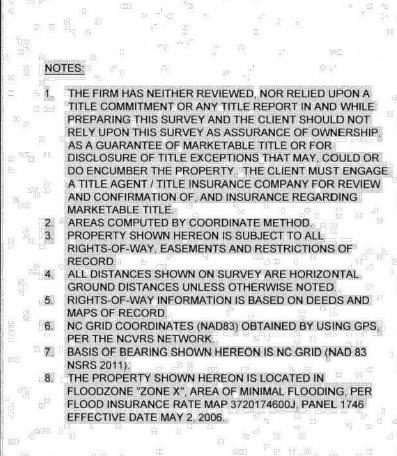
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0 90109 <u>6</u> m	761290.614	2142285.131		5
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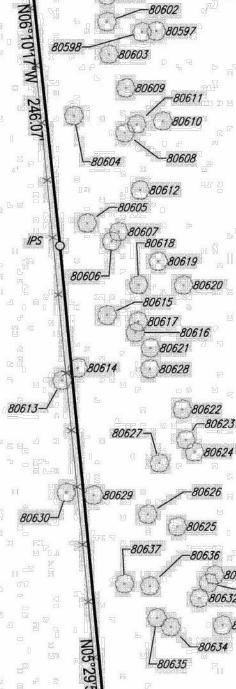
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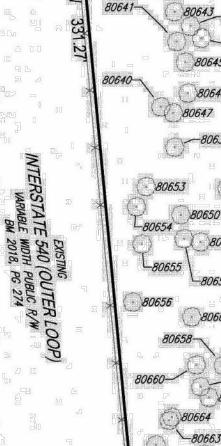
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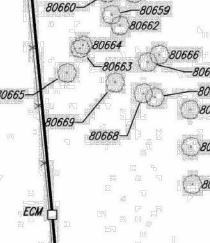
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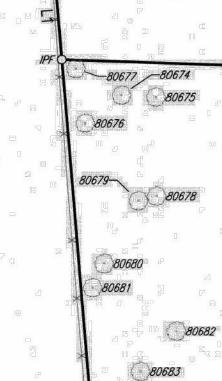


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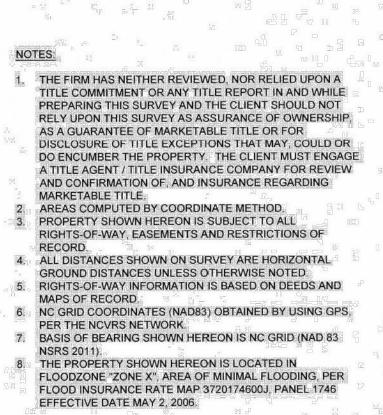
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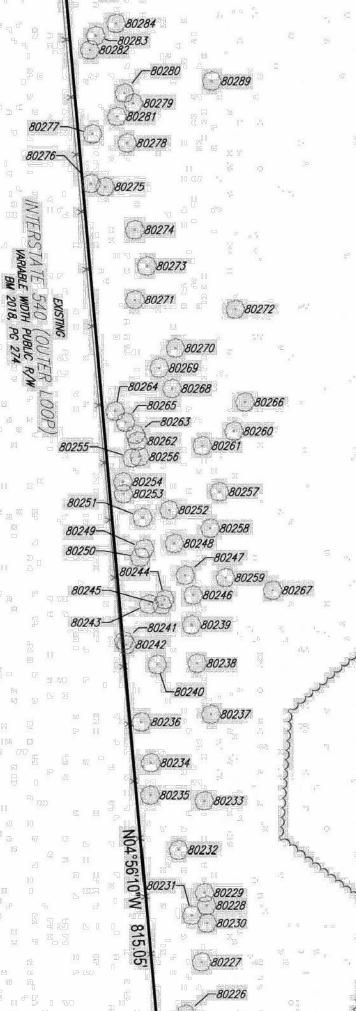
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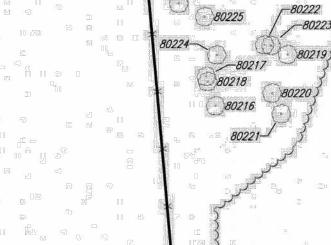
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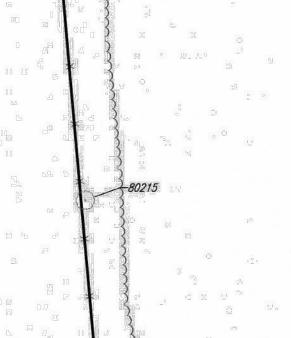
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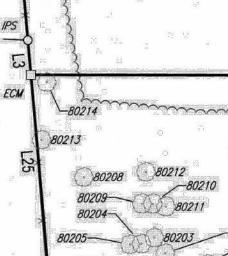
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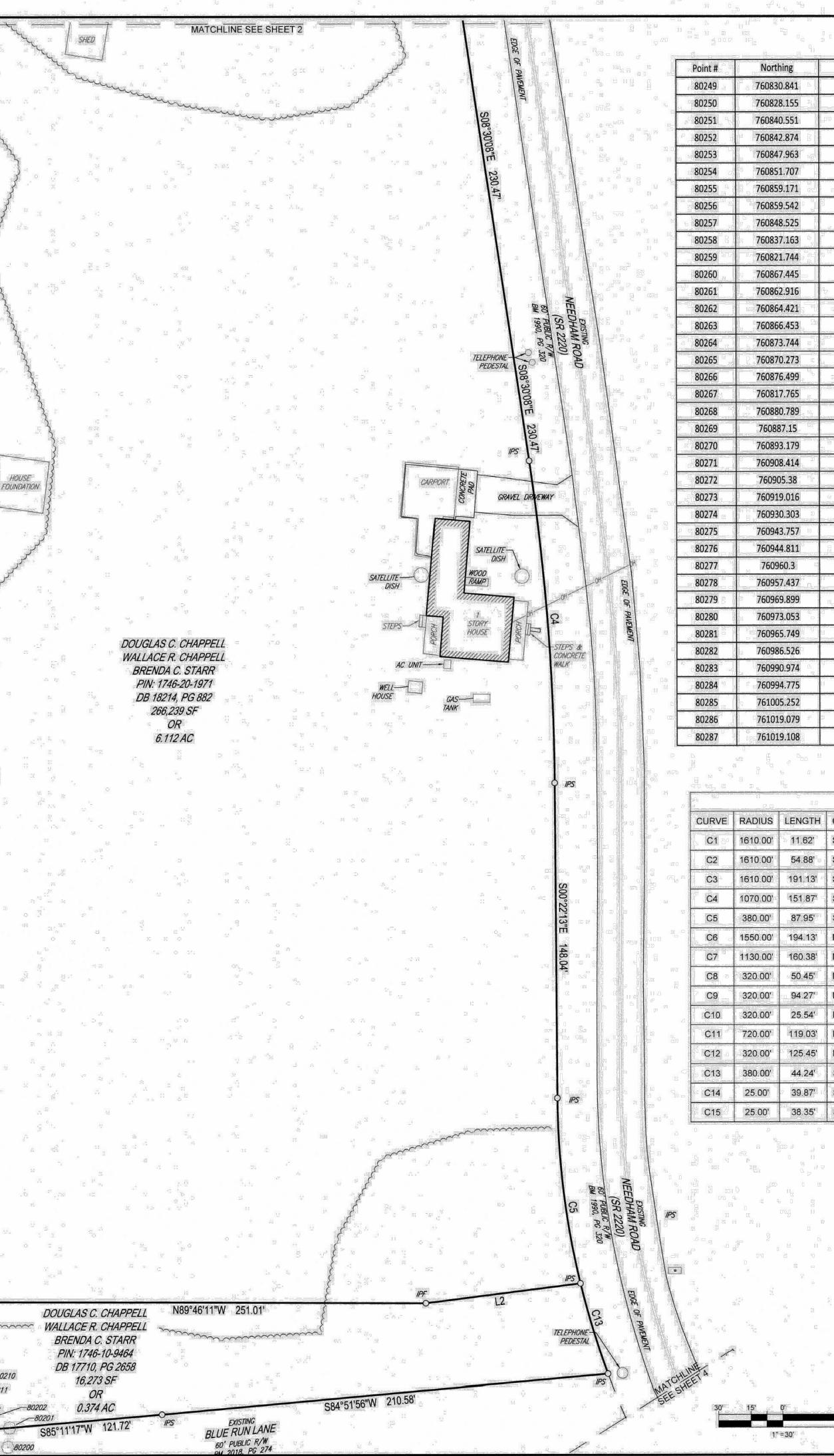




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	LINE	BEARING	DISTANCE	17 17 17 17 17 17 17 17 17 17 17 17 17 1	LINE	BEARING	DISTANC
0.000		N04° 56' 10''W	27.81 ⁴		L20	S89° 32' 34"E	∺ 13.01'
Ele	L2	S82° 44' 02''W	· 73.15'		L21 🕤	N06° 07' 28"E	20.37'
त देल्ली	L3	N04° 56' 10"W	10.86'		L22	S88° 17' 28''W	23.39'
	L4	N06° 07' 28"E	af 130.001		L23	S88° 17' 28''W	23.39'
21 4	L5	S06° 07' 28''W	130.00'		L24	N89° 58' 25''W	6.23'
	L7-	N42° 09' 00''W	40.00'		L25	S04° 56' 10"E	63.33'
-1-9	L8	N64° 36' 41"W	22.67 ⁴		L26	S07° 53' 51"W	47.34'
1023	L9	N72° 43' 48"W	32.53' _		L27	S06° 26' 39''W	56.15'
0	L10	S72° 43' 48"E	29.13'	× 1	L28	S04° 12' 42"W	57.23'
	L11	S79° 57' 35"E	29.94	514	L29 -	S03° 12' 17"W	56.32'
	L12	S79° 57' 35"E	25.56'	a 2	L30	S01° 39' 22"W	106.13'
	L13	S87° 15' 55"E	59.33'		L31	N04° 51' 04"E	63.02'
1170 51	L14	N88° 46' 37"E	≤ .45.77'		L32	N03° 08' 00"E	140.68'
.57	L15	N88° 46' 37"E	45.54'		L33	N77° 42' 19''W	15.59'
	L16	N89° 05' 38"E	د 14.59'	۵۵ <mark>م</mark>	L34	N04° 38' 46"E	127.29'
ں م	L17	N89° 05' 38"E	46.59		L35	N89° 11' 44"E	15,11'
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*SEE SHEET 3 FOR

LINE AND CURVE TABLES*

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CHORD	DELTA	TANGENT
11.62'	000°24'49"	⊻5.81' ್ಷ್
54.87	001°57'11"	27.44'
191.02'	006°48'06"	95.68'
151.74'	008°07'55"	76.06'
87.75	013°15'38"	44.17° 60
194.00'	007°10'33"	97.19'n p
160.25'	008°07'55"	80.33
50.40'	009°02'01"	25.28'
93.93' 🖇	016°52'47"	47.48'
25.53'	004°34'22"	12.78'
118.89'	009°28'18"	59.65'
124.65'	022°27'41"	63.54
44.21'	006°40'11"	22.14'
35.78	091°23'05"	25.61'
34.70'	087°53'43"	24.10°
	CHORD 11.62' 54.87' 191.02' 151.74' 87.75' 194.00' 160.25' 50.40' 93.93' 25.53' 118.89' 124.65' 118.89' 124.65'	CHORD DELTA 11.62' 000°24'49" 54.87' 001°57'11" 191.02' 006°48'06" 151.74' 008°07'55" 87.75' 013°15'38" 194.00' 007°10'33" 160.25' 008°07'55" 50.40' 009°02'01" 93.93' 016°52'47" 25.53' 004°34'22" 118.89' 009°28'18" 124.65' 022°27'41" 44.21' 006°40'11"

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L18 S89° 58' 25"E

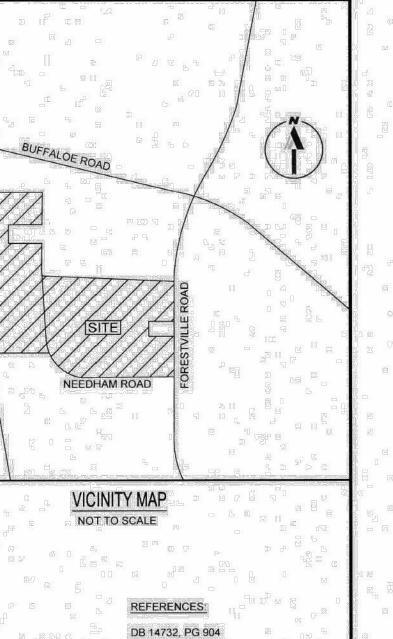
L19 S89° 32' 34"E

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L36 S05° 12' 33''W 145.95'



DB 17584, PG 1805

DB 17319, PG 2049

DB 17710, PG 2658

DB 10662, PG 1283

DB 13819, PG 2099

DB 19074, PG 2164

BM 1990, PG 320

BM 2018, PG 274

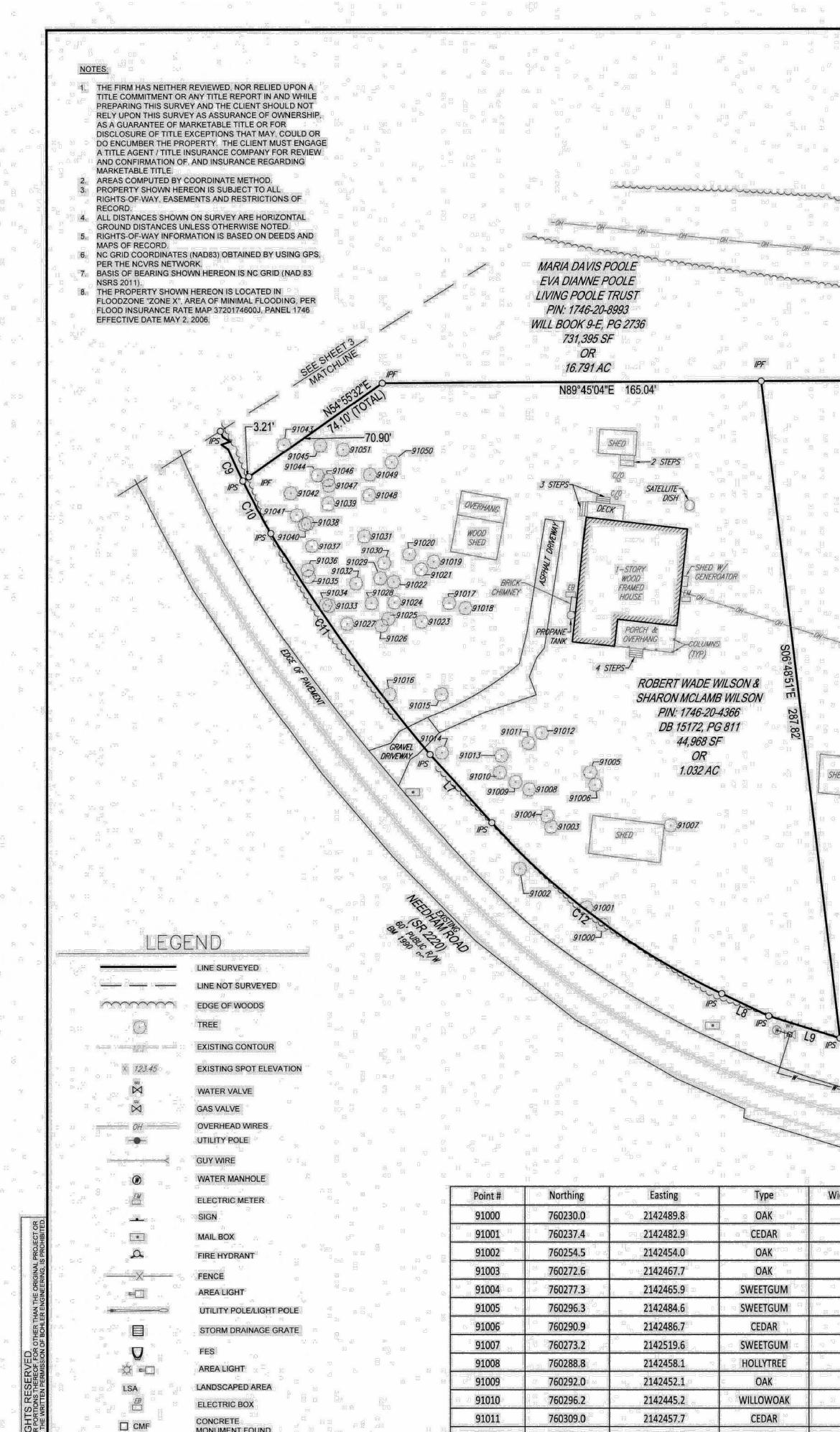
BM 2017, PG 258

BM 2022, PG 2073

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WILL BOOK 9-E, PG 2736

DB 15172, PG 811



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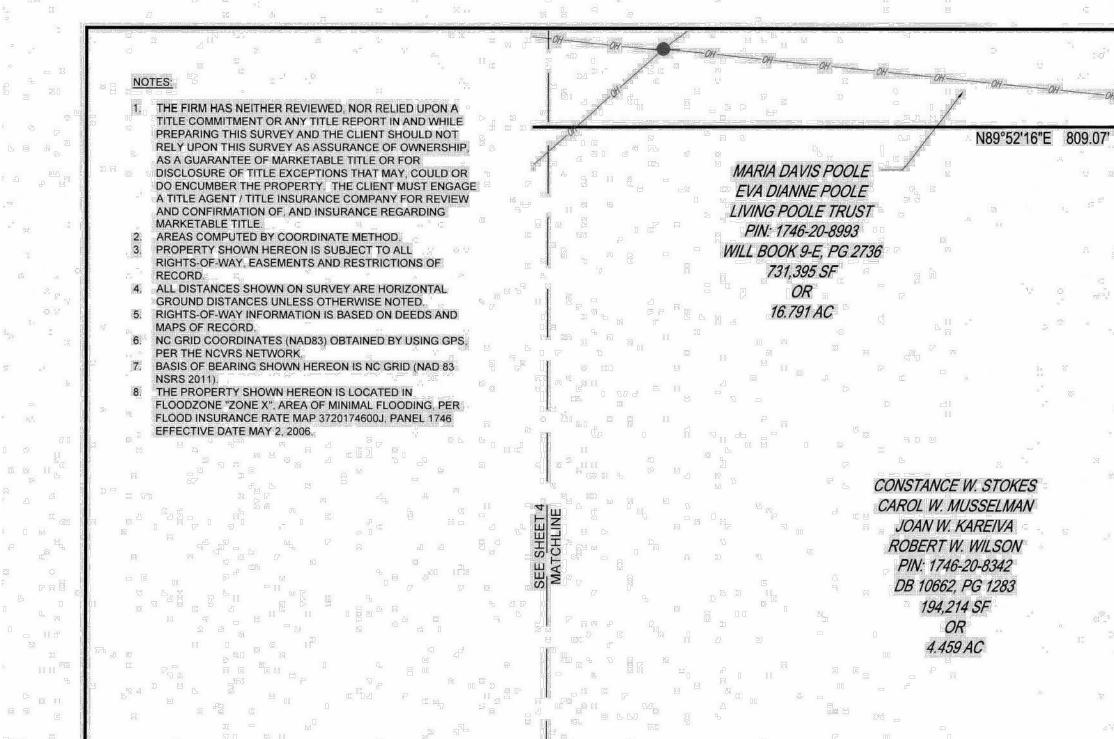
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91119	760986.2	2143358.0	HOLLYTREE	L8
91120	760971.0	2143361.0	PINOAK	14
91121	760960.7	2143355.2	PINE	<u>.</u>
91122	760955.5	2143334.2	OAK	, , , , , , , , , , , , , , , , , , ,
° 91123	760963.1	2143320.0	HOLLYTREE	
91124	760953.2	2143296.3	PINOAK	¹² 12 24
° 91125	760946.4	2143311.7	OAK	
91126	760938.0	2143335.9	WILLOWOAK	
91127	760941.2	2143341.3		

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	762149.951	2141838.991 2141838.991 2141838.991	PINE PINE		
	762145.735	2141840.825	PINE S		
	_ 762153.909	ے ۔ اس _ 2 141818.843	PINE I	г 1 <mark>6</mark> г 7 Х	ス
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	762142.553	2141806.003		5	コージョン DB 19074, PG 2164 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
20-5-1	762143.863	2141817.257			BM 2018, PG 274 비 원
12781	762135.105 762132.518	2141845.973 Br	PINE ST B	7 -	「「「「「」」 「」」 WILL BOOK 16-E, PG 2005」 「「」」 「」 」 」 WILL BOOK 12-E, PG 18 『 「」
	762128.884	2141830.518		6. C	
2	5 7 62138.467	2141817.763			
6	762137.413	[□] 2141807.854			
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<u>ене</u> П	762130.666		PINE S	a 6 0 /2	LINE AND CURVE TABLES*
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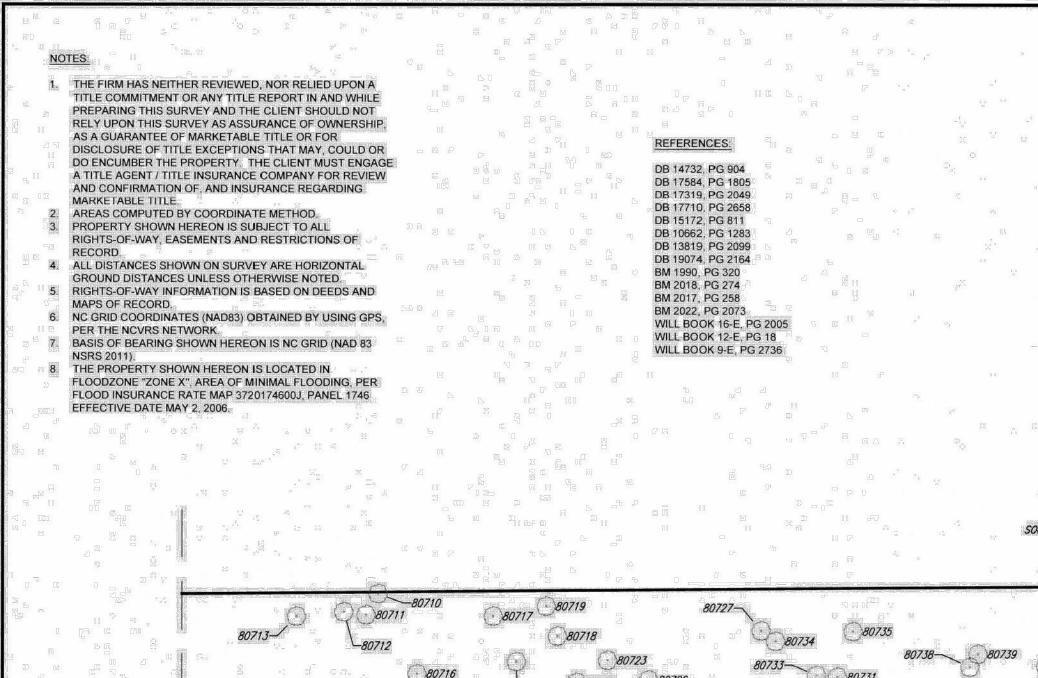
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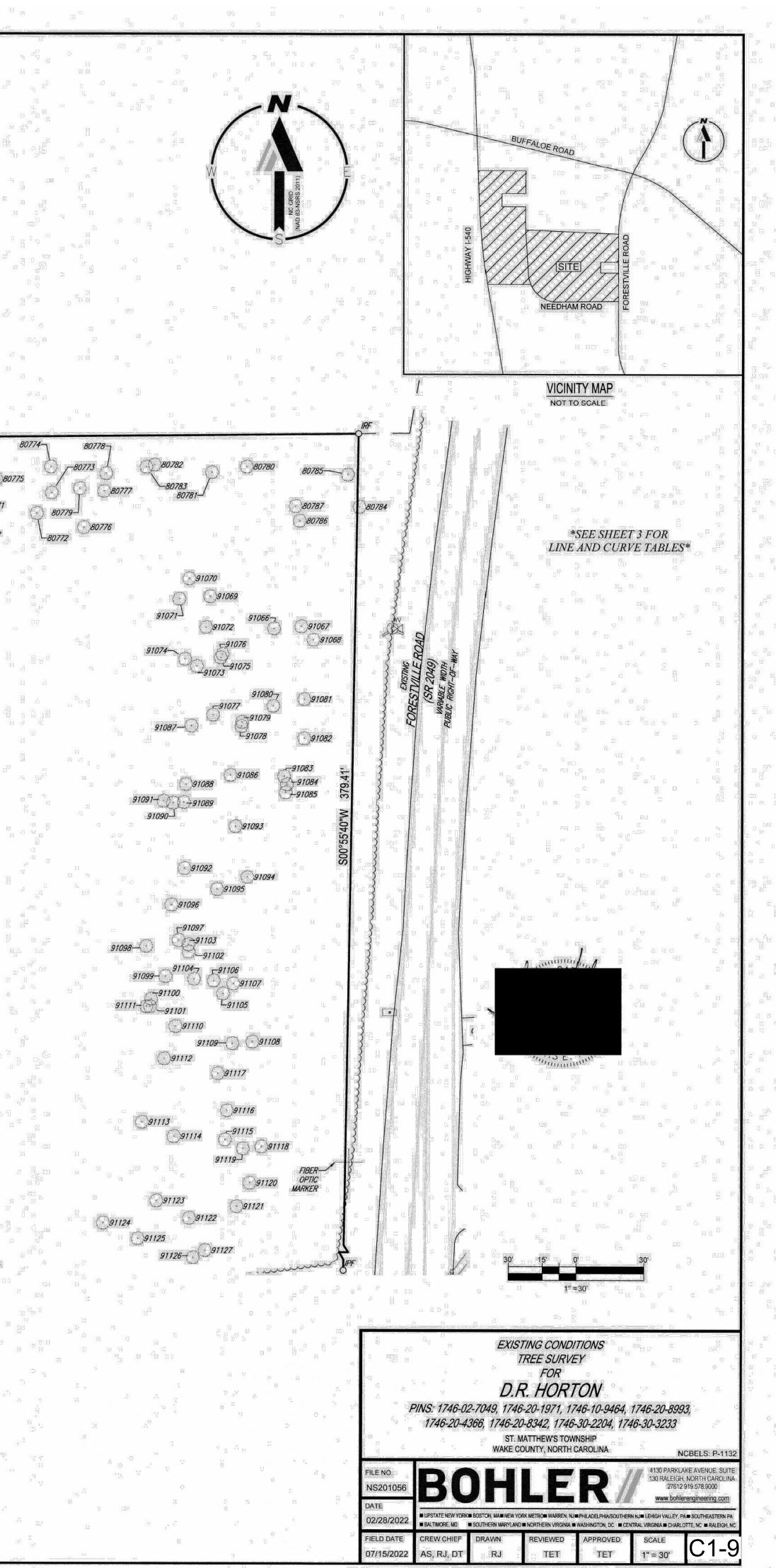
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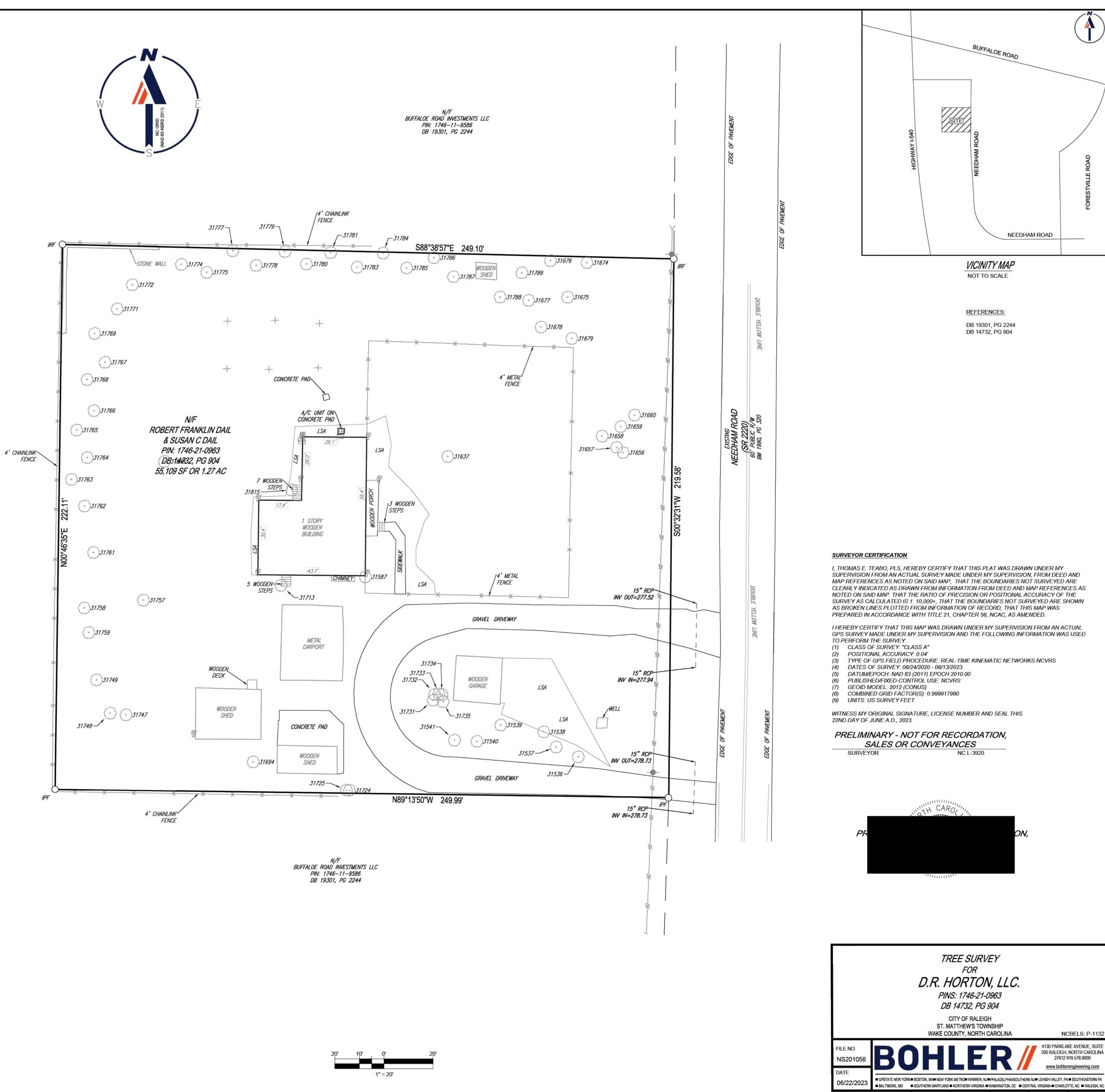
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80485	762074.671	2141837.05	PINE C	[™] .4 5 2	80577	761823.181	2141827.26	PINE	6	80661	761401.942	ະ 2141869.724	PINE	6 .	80745)	761252.907	2142928.408	white oak	<u> </u>	BUFFALOE ROAD
80486	762061.794	2141845.591			■ 80578 [™]	761822.601	2141815.773		6	80662	761376.787	P ■ 2141875.215 0			80746	761230.972	2142941.136		13	
80487	762062.322	2141830.82			80579 [®] 80580 [®] 80580 [®]	761812.334 a	2141816.085			80663	761369.486 761370.501	2141862.712 S			80747	761254.553 761265.58	2143000.916 ····································		₽ <u> </u>	
80489	762059.931	2141830.052 2141811.882 ·a			_ 80581	761/95.777°	2141819.609	n son Pine		80665	761370.501 [™] 761361.74∞	2141853.611 2 2141858.607			80748	761205.58	2142991.031 ⊥2142976.17⊐ ⊂		<u> </u>	
80490	762056.49	2141805.342			80582	761810.222	2141836.971	PINE	н <mark>б</mark> ал и	ين ه 80666 ه	761367.525	2141887.528 •			80750	761267.45	2142970.051	WHITE OAK		
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80495	762056.859	2141813.968			80586 📼 📩	761788.061	2141850.751	L PINE L		80670	761354.433	2141875.699	PINE PINE		80753	761252.112	2143057.944		14 n	
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80509	762027.961	2141830.371		95°	80597	761714.781	2141852.334		6	80681	761218.702	2141866.324	PINE	flan 12	80765	761267.388	2143164.101		13	
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80513	²² ²⁵ 762027,552	2141817.28			80601	761725.875	2141836.95			80685	762315.592	R2141850.37	PINE	6	80769	761270.696	2143225.97	PINE		
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80519		2141826.223	PINE PINE	L 2 5	80607	761651.889	2141840.645			80691	762353.427	2141827.92	PINE		80775	761281.591	2143248.35	PINE		Image: Construction of the client should not in the client should not interval should not in the client should not interval s
80520 80521	762020.467 _{∈□}	2141843.563 2141847.401			>80609 ⁹ ~ 80610 ¹ − ∑ [€]	761696.957° 761686.564°	2141842.829 2141854.39 -			80692	_762356.756 ²³	2141829.06 2141827.748			80776	761260.403	2143287.207	PINE 7 C		DISCLOSURE OF TITLE EXCEPTIONS THAT MAY, COULD OR DO ENCUMBER THE PROPERTY. THE CLIENT MUST ENGAGE
80522 ×	<a>762011.65<a>762007.741	⊴ 2141847.401 _{ີ -} [∞] 2141832.409ີ -	Reference PINE PINE		80611 AL	761686.564 · · · · · · · · · · · · · · · · · · ·	2141854.39 [™] → 2141846.254			80694	762372.437	2141827.748			80777 a	761276.324 761284.163	2143296.074			A TITLE AGENT / TITLE INSURANCE COMPANY FOR REVIEW AND CONFIRMATION OF, AND INSURANCE REGARDING MARKETABLE TITLE.
80524	762005.289	_№ 5 2141808.209		6	80612 🖂	761664.934	2141847.351	RINE F	2.0 6	80695	762388.072	2141824.817 ⁹	PINE 0 0.53		80779	761277.492	2143285.29		10	AREAS COMPUTED BY COORDINATE METHOD. T M A S A PROPERTY SHOWN HEREON IS SUBJECT TO ALL
80525	762006.616	2141807.058			80613	<u>,</u> 761605.6660 ∰	2141823.098			80696	762386.01	∑ _R 2141841.163		Ft	80780	761287.159	2143359.02		· 10 ¹	RIGHTS-OF-WAY, EASEMENTS AND RESTRICTIONS OF RECORD.
80526 ⊐ 80527	761998.822 761998.8 ···	2141807.428 2 2141816.423	PINE Su PINE		80614 80615	761609.463	 ✓ 2141827.991 ✓ 2141837.114 			80697	762400.761	2141831.852	© PINE ∑ ∠ PINE ½ 11		80781 80782	761284.683 761287.976	□ 2143343.622 □ □ □ □ □ □ □ □		s 10 7 10	GROUND DISTANCES UNLESS OTHERWISE NOTED
80528	762001.601	2141816.423 2141830.041			80615 80616	761625.794 761620.544	[∞] 2141837.114 [∞] 2141845.925 _		1 7 16 IN	80699	762393.606 ≅ 762370.342	2141850.683		a 6 .	80783	761287.976 761286.988	2143318.467			MAPS OF RECORD. 전 A 장 경 문 관 · · · · · · · · · · · · · · · · · ·
80529	761996.311	2141841.272			80617	761623.855	2141846.846			80700	762376.871	2141842.317			80784	761269.52	2143408.834		18 18	7. BASIS OF BEARING SHOWN HEREON IS NC GRID (NAD 83 NSRS 2011).
80530	761998.591				80618	761635.301	2141846.932	PINE <u>14. 11.</u> © DINE 4.1		80701	762359.458	2141853.987		6 II	80785	761283.661	2143403.72 - 2 2143382 <i>44</i> 9		3 19	Image: Second state of the second s
80532	761994.105	2141832.052			80619 6 80620 • •	761642.642	2141853.066	Sin 2 22 PINE		80702 80703 ···	762396.36 762409.861	2141833.03 2141838.279	BLACK BIRCH		80786 80787 ±	761263.351	2143382.449			
80533	761991.44	2141818.024			80621	761615.727	2141861.005 III	PINE		80705	761286.65		S WHITE OAK 2	ਹ ਦ - 12 ਦ	90000	761370.144	2143380.005			
80535	761978.721	2141807.422	PINE v S		80622	761596.583	2141860.662	မိ ရမ် Pine ာ		80706	761277.717 e	2142572.674	PINE	12	90001	761376.63	2142246.502	OAK		
80536	761973.816 • 761984.781 •	2141809.91 2141811.963	PINE C		80623 80624	761587.035	2141861.819	PINE -		80707	761289.096 761245.757	2142585.514 2	₩HITE OAK		90002	761384.645	2142249.193		4	
80539	·• 761984.781 ₽ 761985.491 ··· ₽	2141811.963 2141833.24	PINE PINE		80624	761583.206	2141864.546	PINE 77	<u>Р</u> Н	R 2 ∌√80708 N	761245.757	2142599.48			90003	761381.781	2142249.354			REFERENCES: The second
80540	761985.028	2141829.448	PINE 2		80626	761563.617	2141849.93		יישנע 10 אין 1 0	80711	761287.506	≥ 2142665.324	file PINE	10 ⁺	90006	761359.059	2142246.218	ASH & O		DB 17584, PG 1805 DB 17319, PG 2049 *SEE SHEET 3 FOR
80541	761981.158	<u>∞</u> 2141844.433 ₁₂ _→	Na p PINE	<u>117</u> 75	80627	761579.665	2141853.578	PINE	ت من 6 ع الم	80712	761288.469	2142658.378		10 - x	90007	761362.287	2142245.223 =			
80542	761977.347 Not 761975.567	Line 2141843.261 Single 2141833.187 ^{III}	PINE PINE		80628 5 c	761609.157	2141850.535		5.5 0 6	80713	761287.046 P	2142643.545	PINE RED OAK		90008	761354.335 761341.701	2142240.485			a ビ ジ DB 13819, PG 2099 ¹ いいち ロ ロ ロ ビ ロ E ロ ロ ロ ロ ロ ロ ロ ロ ロ ロ ロ ロ ロ ロ
80546	761975.567	2141853.187 ··· 2141843.8 ··· 3		6 F	80630	761570.406	2141832.394	e Pine 2		80715	761253.354	2142699.585	WHITE OAK		90010	761337.948	2142248.378			BM 2018, PG 274 A S S S S S S S S S S S S S S S S S S
80547	761964.984	2141843.642	PINE	6 × 7 + 1	80631	761544.685	2141870.901	PINE	. f. 6 ⊻	80716	761269.114	2142681.304	PINE	10 H	90012	761339.288	2142248.449	OAK	9	■ BM 2022, PG 2073。 ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■
80548	□ 761961.44	2141839.481	PINE	Б Б н 1	80632	5761537.455 G	2141866.157			80717 ×	761287.177	2142705.13	B WHITE OAK	13 ¹²⁰	90013	761338.319	2142246.693		······································	WILL BOOK 9-E, PG 2736
80549 80550	761962.155 761964.972	2141822.089	PINE □	6	80633	761528.988	2141873.47 2141857.247	PINE PINE		80718	761280.974	2142725.234	RED OAK WHITE OAK ⊂		90014	761332.08	2142247.346	I <u> </u>		
80551	761958.44	2141808.339	a PINE a		80635	761531.243	2141852.853			80720 H	761272.985	2142712.431			90017	761327.202	2142246.953	OAK CAK	8 7	
80552	761955.811	2141814.124	PINE -	5	80636	761541.215	2141850.664	r PINE 75		_ Ľ 80721	761253.28	2142729.239			90019	761326.889	2142260.036			
80553	761954.427	면 2141823.964 ····································			80637	761541.898	2141842.677 2141868.988			80722	761261.065	2142732.584 · · · · · · · · · · · · · · · · · · ·	WHITE OAK	6 6 1	90020	761338.021 761347.537	2142263.286 2142258.288 □			
80554 = 1	761956.312	2141831.958 2141841.644		- 9 6	80638 ° c 80639 ~	761542.146 Gr	2141868.988	PINE - E	°° (6) "	80723	7612/3.365	2142731.201		<u>■</u> <u>1</u>	90021	761347.406	2142258.288 2142259.761		Z ³	
80556	761945.925	^ຫ ຸສີ 2141843.415 ຄື	z II SI PINE C L		80640	761467.568	2141859.874		о Гр б і дол	² 280725	761254.876	[™] 2142755.253		S 6	90023	≤ 761351.093	2142258.856 ⊓	e HOLLY		
80557	761945.925	2141843.415	2 12 PINE 2 6		80641	761488.094	2141864.807			80726 B	761267.265	2142753.76			90024	761354.642	2142262.241		, s. . .	
80558	761934.153	2141837.486 ····································			80642 · · · · · · · · · · · · · · · · · · ·	761492.843	2141869.134 2141864.071				761282.705	2142788.83 M	WHITE OAK		90025	 761367.644 ₀₀ 761394.05 	2142262.855 2142254.574 2			
80559 _	761936.513	^{2141843.102} 2141832.84			80644	761497.213 761489.13	2141864.071	EPINE	s S S S R	80728 80729	761259.212 10 761245.608	2142775.169			90027	761370.536	2142254.574 a c			
80562	761905.476	2141821.914			80645 ag	761481.698	2141867.542 [°]			80730	761235.294	2142822.643	BLACK BIRCH	н II исб.	90031 2	761350.554	2142278.888		s 4	
80563	761896.098	- 2141823.18			80647	761465.68	2141863.805	PINE	4 6 7	≂ 80731 ⊂	761268.32	☐ 2142812.775 ∰ ≊	୍କ WHITE OAK ୍ରକ୍ର		90032	761359.531	[™] [™] 2142272.02 [™] [™] [™]	₩ ²² ÖAK 7, 7, ²²		D.R. HORTON
80564	761894.6	2141832.306			80648	761447.283	2141885.636			80732 80733	761257.57	2142807 2142806 205			90033	761380.734	2142284.709	a a March		PINS: 1746-02-7049, 1746-20-1971, 1746-10-9464, 1746-20-8993,
80565	761904.237 761929.752	2141825.258	PINE COR		80649 80650	761442.182	2141880.713	PINE PINE		80733 > 1	761268.843 761279.466	2142806.205	WHITE OAK		90034	761382.586	2142282.354	CAK		1746-20-4366, 1746-20-8342, 1746-30-2204, 1746-30-3233 ST. MATTHEW'S TOWNSHIP
80567	761874.106	2141815.645		6	80651	761426.37	2141867.244		R	80735	761282.586	2142817.662	RED OAK		90037 3 90037	761358.634	2142286.851			
80568	761865.924	2141817.029			80652	761425.323	2141872.391			80736	761262.142	∽ ∞ 2142827.531			90038	761347.019	2142289.138			FILE NO. DO LUI CONTRACE DO 130 PARKLAKE
80569	761873.794	2141812.477	PINE PINE	anda William Constantina and a second Managara Abdu Managara - Sana and a second bar da second	80653	761442.591	2141855.36			80737	761247.447	2142833.422	WHITE OAK	1 1 X . 11	90039	761346.77	2142295.584			
80570 80571	761874.378	 2141813.023 2141812.32 	PINE PINE		80654	761436.314 761424.619	2141852.37	PINE PINE		80738 80739	761271.508	2142854.219	WHITE OAK	8 14	90040 90041	761354.478 761329.555	2142296.578			02/28/2022 UPSTATE NEW YORK BOSTON, MAIL NEW YORK METRO WARREN, NJI PHILADELPHIA/SOUTHERN NJI LEHIGH VALLEY, PAIL BALTIMORE, MD SOUTHERN MARYLAND NORTHERN VIRGINIA WASHINGTON, DC CENTRAL VIRGINIA CHARLOTTE
80571	761852.16	2141812.32			80656	761406.534	2141851.276			= = 80733 = = 80740	761271.828	2142877.938	WHITE OAK	3 K - K - J K - Z , K - 10 K	90041	761330.67	2142282.677			Field Date CREW CHIEF DRAWN REVIEWED APPROVED Scale 07/15/2022 AS, RJ, DT RJ TET TET 1" = 30"
		Souther States in the second s		- marine and the second se						- Alexandra Pilana.										

NOTES:

- 1. THE FIRM HAS RELIED UPON TITLE REPORT FURNISH BY AMERICAN LAND TITLE ASSOCIATION TITLE COMMITMENT: 167-233101897C DATED MAY 8, 2023 AT 9:00 AM, WHILE AND IN PREPARING THIS SURVEY. THE SURVEYOR IS NOT RESPONSIBLE FOR ANY TITLE EXCEPTIONS NOT DISCLOSED BY THE REFERENCED TITLE COMMITMENT.
- 2. AREAS COMPUTED BY COORDINATE METHOD.
- 3. PROPERTY SHOWN HEREON IS SUBJECT TO ALL RIGHTS-OF-WAY, EASEMENTS AND RESTRICTIONS OF RECORD.
- 4. ALL DISTANCES SHOWN ON SURVEY ARE HORIZONTAL GROUND DISTANCES UNLESS OTHERWISE NOTED.
- 5. RIGHTS-OF-WAY INFORMATION IS BASED ON DEEDS AND MAPS OF RECORD.
- 6. NC GRID COORDINATES (NAD83) OBTAINED BY USING GPS, PER THE NCVRS NETWORK.
- 7. BASIS OF BEARING SHOWN HEREON IS NC GRID (NAD 83
- NSRS 2011). 8. VERTICAL DATUM SHOWN HEREON IS NAVD88.
- 9. THE PROPERTY SHOWN HEREON IS LOCATED IN FLOODZONE "ZONE X", AREA OF MINIMAL FLOODING, PER FLOOD INSURANCE RATE MAP 3720174600J, PANEL 1746 EFFECTIVE DATE MAY 2, 2006.
- 10. NO OBSERVED EVIDENCE OF RECENT EARTHWORK OR CONSTRUCTION AT TIME OF SURVEY.
- 11. NO OBSERVED EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS AT THE TIME OF THE SURVEY.

Point #	Northing	Easting	Туре	Width(Inches)
70629	177003.1	2339472.8	Burch	24
70630	176989.1	2339474.1	Burch	23
70631	176983.3	2339461.2	Burch	26
70635	177074.3	2339113.7	Oak	10
70636	177070.4	2339123.3	Oak	8
70637	177061.5	2339157.7	Oak	6
70638	177059.1	2339188.6	Magnolia	6
70639	177063.0	2339183.4	Pine	21
70640	177054.1	2339196.5	Pine	20
70641	177041.0	2339222.8	Oak	19
70642	177036.1	2339232.7	Pine	15
70643	177030.8	2339241.8	Pine	12
70644	177026.4	2339254.3	Magnolia	10
70647	177124.6	2339113.9	Pine	19
70648	177085.2	2339164.4	Oak	19
70649	177085.3	2339170.5	Oak	12
70650	177086.6	2339172.1	Oak	13
70651	177083.4	2339179.4	Oak	11
70652	177128.7	2339061.9	Oak	13
70653	177129.1	2339062.9	Oak	5
70654	177125.1	2339063.3	Cedar	5
70655	177125.0	2339061.2	Oak	11
70656	177139.7	2339068.9	Oak	13
70657	177141.1	2339067.6	Oak	8
70658	177139.8	233907.8	Oak	15
70659	177148.9	2339070.8	Oak	12
70660	177150.4	2339073.4	Oak	8
70661	177184.6	2339068.9	Oak	13
70662	177184.0	2339009.7	Oak	6
70663	177192.3	2339075.8	Oak	12
				12
70664	177203.7	2339077.0	Oak	
70665	177203.6	2339076.3	Pine	17
70666	177245.9	2339089.5	Oak	6
70667	177248.3	2339089.8	Oak	4
70668	177254.1	2339088.8	Pine	16
70669	177260.3	2339094.1	Pine	14
70670	177268.3	2339098.0	Oak	6
70671	177287.7	2339107.5	Oak	10
70672	177297.6	2339113.2	Oak	6
70673	177302.8	2339107.8	Oak	16
70674	177305.3	2339116.6	Oak	8
70675	177305.9	2339124.5	Oak	4
70676	177315.5	2339122.3	Oak	7
70677	177304.1	2339182.9	Pine	20

Point #	Northing	Easting	Туре	Width(Inches)
70678	177306.6	2339175.6	Pine	14
70679	177308.7	2339173.2	Pine	7
70680	177312.5	2339173.5	Pine	9
70681	177309.4	2339164.0	Pine	16
70682	177319.8	2339177.8	Pine	9
70683	177315.7	2339182.3	Pine	14
70684	177316.5	2339187.6	Pine	12
70685	177320.2	2339185.7	Pine	10
70686	177326.4	2339178.2	Oak	9
70687	177324.3	2339178.0	Oak	8
70688	177338.3	2339149.4	Oak	9
70689	177339.7	2339153.4	Oak	7
70690	177333.7	2339135.7	Oak	18
70691	177327.7	2339147.2	Pine	14
70692	177327.4	2339149.0	Oak	4
70693	177326.9	2339137.8	Oak	5
70694	177317.6	2339143.7	Oak	9
70695	177321.2	2339128.3	Oak	8
70696	177319.8	2339124.3	Oak	6
80000	177114.8	2339119.1	Oak	12
80001	177345.9	2339130.8	Pine	21
80002	177349.7	2339125.5	Pine	12
80003	177340.8	2339123.9	Oak	12
80004	177325.5	2339106.2	Oak	21
80005	177329.7	2339180.6	Holly	5
80006	177325.2	2339182.9	Holly	3
80007	177328.3	2339191.1	Holly	3
80008	177322.7	2339204.7	Holly	4
80009	177317.7	2339212.5	Holly	4
80010	177289.4	2339248.4	Holly	5
80011	177302.2	2339228.6	Holly	5
80012	177296.9	2339238.0	Holly	5
80013	177279.9	2339268.3	Holly	7
80014	177286.0	2339256.4	Holly	6
80015	177273.2	2339282.2	Holly	6
80016	177266.6	2339293.5	Holly	6
80017	177260.3	2339303.6	Holly	10
80018	177242.4	2339335.5	Holly	5
80019	177251.5	2339320.1	Holly	8
80020	177233.3	2339353.7	Holly	6
80021	177226.8	2339363.5	Holly	12
80022	177219.8	2339375.5	Holly	11
80023	177213.4	2339389.2	Holly	7



FIELD DATE

06/13/202

CREW CHIEF

JR

DRAWN

AH

APPROVED

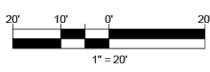
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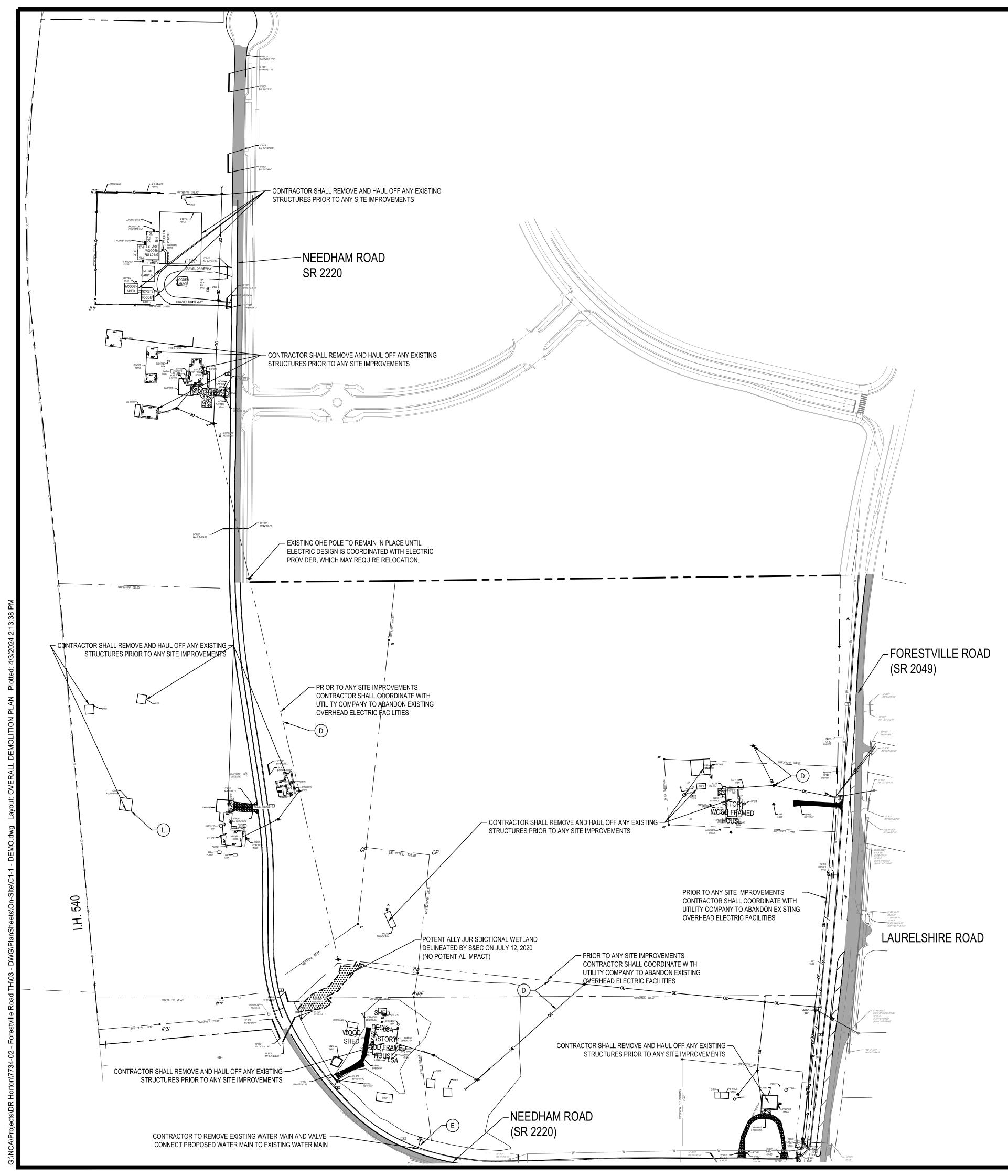
SCALE

1" = 20'

REVIEWED

TET





DEMOLITION & SITE PREPARATION NOTES

- REMOVED OFF SITE AT NO ADDITIONAL COST.
- ADDITIONAL COST.
- REQUIRED FOR THE INSTALLATION OF THE REMAINDER OF THE CONTRACT WORK.
- REQUIREMENTS OF THE SPECIFICATIONS FOR GRAVEL BORROW.
- APPURTENANCES, EXCEPT AS SPECIFICALLY NOTED OTHERWISE.
- COMMENCEMENT OF CONSTRUCTION.
- SEDIMENT CONTROLS.

DEMOLITION KEYNOTE LEGEND

- (A) EXISTING CURB AND GUTTER TO BE REMOVED
- (B) EXISTING RETAINING WALL TO BE REMOVED
- (C) EXISTING STORM TO RE REMOVED
- D EXISTING LIGHTING / ELECTRIC TO BE REMOVED (CONTRACTOR TO COORDINATE WITH UTILITY COMPANY)
- EXISTING WATER TO BE REMOVED (CONTRACTOR TO COORDINATE WITH COUNTY / MUNICIPALITY)
- EXISTING SEWER TO BE REMOVED (CONTRACTOR TO COORDINATE WITH COUNTY / MUNICIPALITY)
- G EXISTING GAS TO BE REMOVED (CONTRACTOR TO COORDINATE WITH UTILITY COMPANY)
- (H) EXISTING TREES / SHRUBS TO BE REMOVED
- (I) EXISTING FENCE TO BE REMOVED
- (J) EXISTING STRUCTURE TO BE REMOVED
- (K) EXISTING PAVEMENT TO BE REMOVED
- EXISTING CONCRETE TO BE REMOVED

1. THE CONTRACTOR SHALL INCLUDE IN THE BID THE COST OF REMOVING ANY EXISTING SITE FEATURES AND APPURTENANCES NECESSARY TO ACCOMPLISH THE CONSTRUCTION OF THE PROPOSED SITE IMPROVEMENTS. THE CONTRACTOR SHALL ALSO INCLUDE IN THE BID THE COST NECESSARY TO RESTORE SUCH ITEMS IF THEY ARE SCHEDULED TO REMAIN AS PART OF THE FINAL SITE IMPROVEMENTS. REFER TO PLANS TO DETERMINE EXCAVATION, DEMOLITION AND TO DETERMINE THE LOCATION OF THE PROPOSED SITE IMPROVEMENTS.

2. THE OWNER RESERVES THE RIGHT TO REVIEW ALL MATERIALS DESIGNATED FOR REMOVAL AND TO RETAIN OWNERSHIP OF SUCH MATERIALS. IF THE OWNER RETAINS ANY MATERIAL THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE OWNER TO HAVE THOSE MATERIALS

UNLESS SPECIFICALLY NOTED TO BE SAVED / STOCKPILED (R&S) OR REUSED / RELOCATED (R&R), ALL SITE FEATURES CALLED FOR REMOVAL (REM) SHALL BE REMOVED WITH THEIR FOOTINGS, ATTACHMENTS, BASE MATERIAL, ETC, TRANSPORTED FROM THE SITE TO BE DISPOSED OF IN A LAWFUL MANNER AT AN ACCEPTABLE DISPOSAL SITE AND AT NO COST TO THE OWNER.

4. ALL EXISTING SITE FEATURES TO REMAIN SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION PERIOD. ANY FEATURES DAMAGED DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT NO

5. DURING EARTHWORK OPERATIONS, CONTRACTOR SHALL TAKE CARE TO NOT DISTURB EXISTING MATERIALS TO REMAIN, OUTSIDE THE LIMITS OF EXCAVATION AND BACKFILL AND SHALL TAKE WHATEVER MEASURES NECESSARY, AT THE CONTRACTOR'S EXPENSE, TO PREVENT ANY EXCAVATED MATERIAL FROM COLLAPSING. ALL BACKFILL MATERIALS SHALL BE PLACED AND COMPACTED AS SPECIFIED TO THE SUBGRADE

6. IT SHALL BE THE CONTRACTOR'S OPTION, WITH CONCURRENCE OF THE OWNER, TO REUSE EXISTING GRAVEL IF IT MEETS THE

7. ALL ITEMS CALLED FOR REMOVAL SHALL BE REMOVED TO FULL DEPTH INCLUDING ALL FOOTINGS, FOUNDATIONS, AND OTHER

8. 'CLEAR AND GRUB VEGETATION' SHALL INCLUDE REMOVAL OF GRASS, SHRUBS, AND UNDERBRUSH, REMOVAL OF ROOTS, ROUGH GRADING, INSTALLATION OF LOAM (IF APPLICABLE), FINE GRADING, SEEDING AND TURF ESTABLISHMENT BY THE CONTRACTOR.

9. TREES DESIGNATED FOR REMOVAL SHALL BE TAGGED BY CONTRACTOR AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO

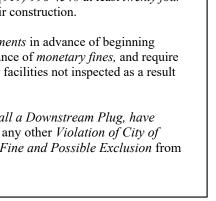
10. THE STORAGE OF MATERIALS AND EQUIPMENT WILL BE PERMITTED AT LOCATIONS DESIGNATED BY OWNER OR OWNER'S REPRESENTATIVE. PROTECTION OF STORED MATERIALS AND EQUIPMENT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

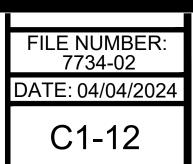
11. STRIP & STORE EXISTING TOPSOIL FOR LATER REUSE WHERE APPROPRIATE, AND AS NOTED ON PLAN, WITH APPROPRIATE EROSION AND

12. LOAM / TOP SOIL DESIGNATED FOR REUSE AS GENERAL FILL SHALL BE BLENDED WITH SUITABLE BORROW MATERIAL AS SPECIFIED.

13. THE CONTRACTOR SHALL PROTECT EXISTING TREES TO REMAIN, CONTRACTOR SHALL INSTALL TREE PROTECTION BARRIER AFTER CLEARING UNDERBRUSH AND TAKE DUE CARE TO PREVENT INJURY TO TREES DURING CLEARING OPERATIONS.

DES		BY:	J J		
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					WWW.BGEINC.COM
	DR HORTON		2000 AERIAL CENTER PARKWAY STE 110	MORRISVILLE NC 27560	
CHAPFI TOWNES	SLIBDIVISION		PRELIMINARY SUBDIVISION PLAN	0, 5136, 5228, 5237,5305 NEEDHAM RD &	U, 3220, 3220, 3232, 3204 FURESTVILLE RU RAI FIGH NC 27604
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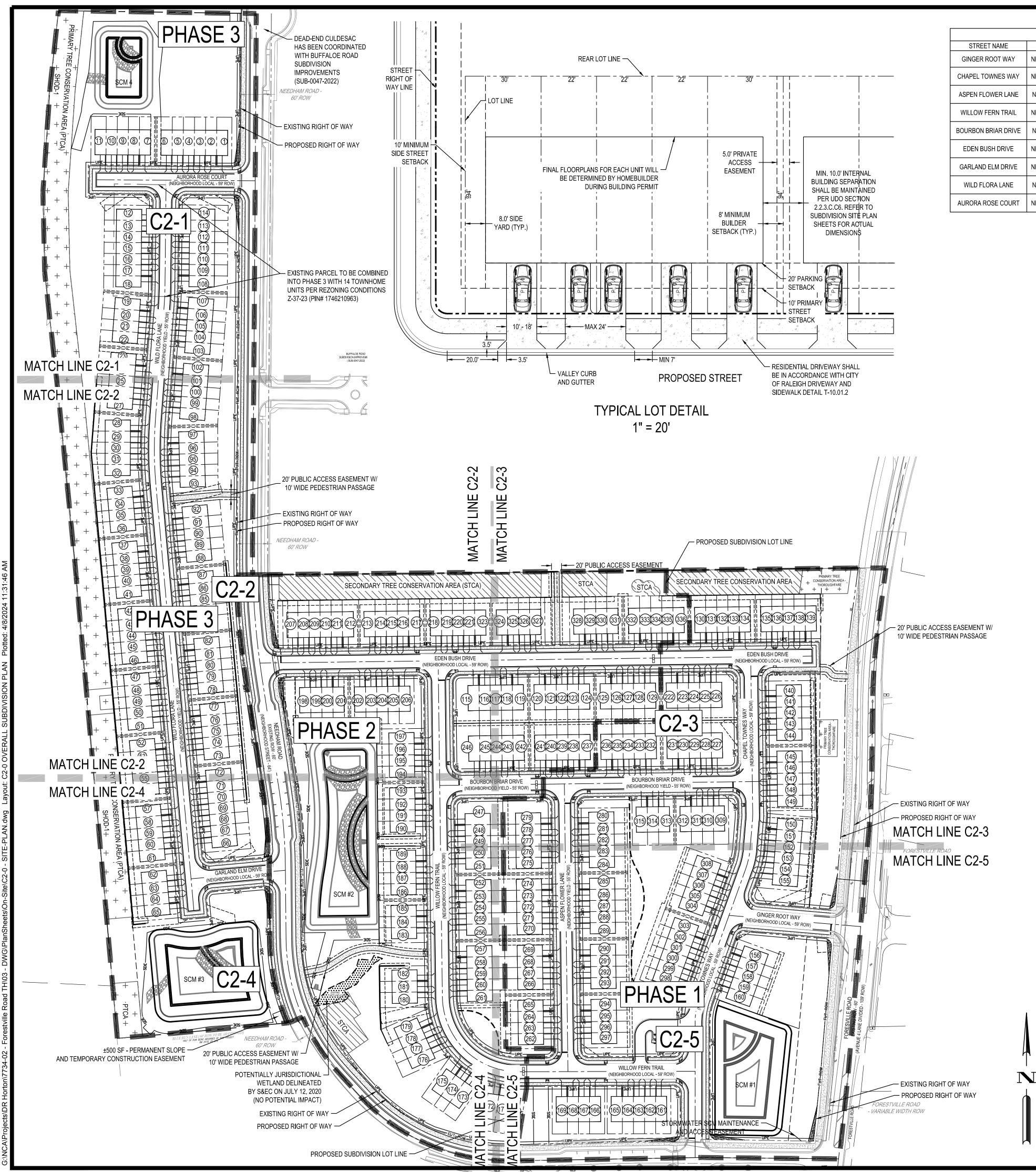


50' 100 200' SCALE: 1" = 100' Know what's below. Call before you dig.

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	STREET 1	ΓABLE	
STREET NAME	TYPE	ROW WIDTH	BOC-BOC
GINGER ROOT WAY	NEIGHBORHOOD LOCAL	59'-0"	31'-
CHAPEL TOWNES WAY	NEIGHBORHOOD LOCAL	59'-0"	31'-
ASPEN FLOWER LANE	NEIGHBORHOOD YIELD	55'-0"	27'-
WILLOW FERN TRAIL	NEIGHBORHOOD LOCAL	59'-0"	31'-
BOURBON BRIAR DRIVE	NEIGHBORHOOD YIELD	55'-0"	27'-
EDEN BUSH DRIVE	NEIGHBORHOOD LOCAL	59'-0"	31'-
GARLAND ELM DRIVE	NEIGHBORHOOD LOCAL	59'-0"	31'-
WILD FLORA LANE	NEIGHBORHOOD YIELD	55'-0"	27'-
AURORA ROSE COURT	NEIGHBORHOOD LOCAL	59'-0"	31'-

SCALE: 1" = 100'

				31'-0"	OC-BOC WIDTH 31'-0" 31'-0" 27'-0" 31'-0" 31'-0" 31'-0" 31'-0" 27'-0"
 WETLAND DELINEATION BY SOIL & ENVIRONMENTAL CONSULTANTS, POTENTIALLY JURISDICTIONAL WETLAND DELINEATED BY S&EC ON JULY 2, 2022 (NO POTENTIAL IMPACTS) PA (S&EC) DATED 07/07/2020. RESIDENTIAL DRIVEWAY LOCATIONS AND WIDTHS WILL BE SUBJECTED TO APPROVAL AT TIME OF PERMITTING 	 IF UNFORESEEN CONDITIONS DEVELOP DURING CONSTRUCTION, REFER TO "CITY OF RALEIGH STREET DESIGN MANUAL" AND CONTACT PUBLIC WORKS DEPARTMENT FOR FURTHER GUIDANCE. PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE CITY OF RALEIGH PUBLIC WORKS DEPARTMENT / TRANSPORTATION FIELD SERVICES STAFF TO REVIEW THE SPECIFIC COMPONENTS OF THE PLAN AND OPERATION OF THESE FACILITIES DURING CONSTRUCTION. CONTACT ENGINEERING INSPECTIONS AT 919.996.2409 TO SET UP THE MEETING. THE CONTRACTOR SHALL CONDUCT THE WORK IN A SAFE MANNER AND WITH MINIMAL IMPACT TO TRAFFIC. 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	RALEIGH NC 27604		CENS	REV DATE	DESCRIPTION

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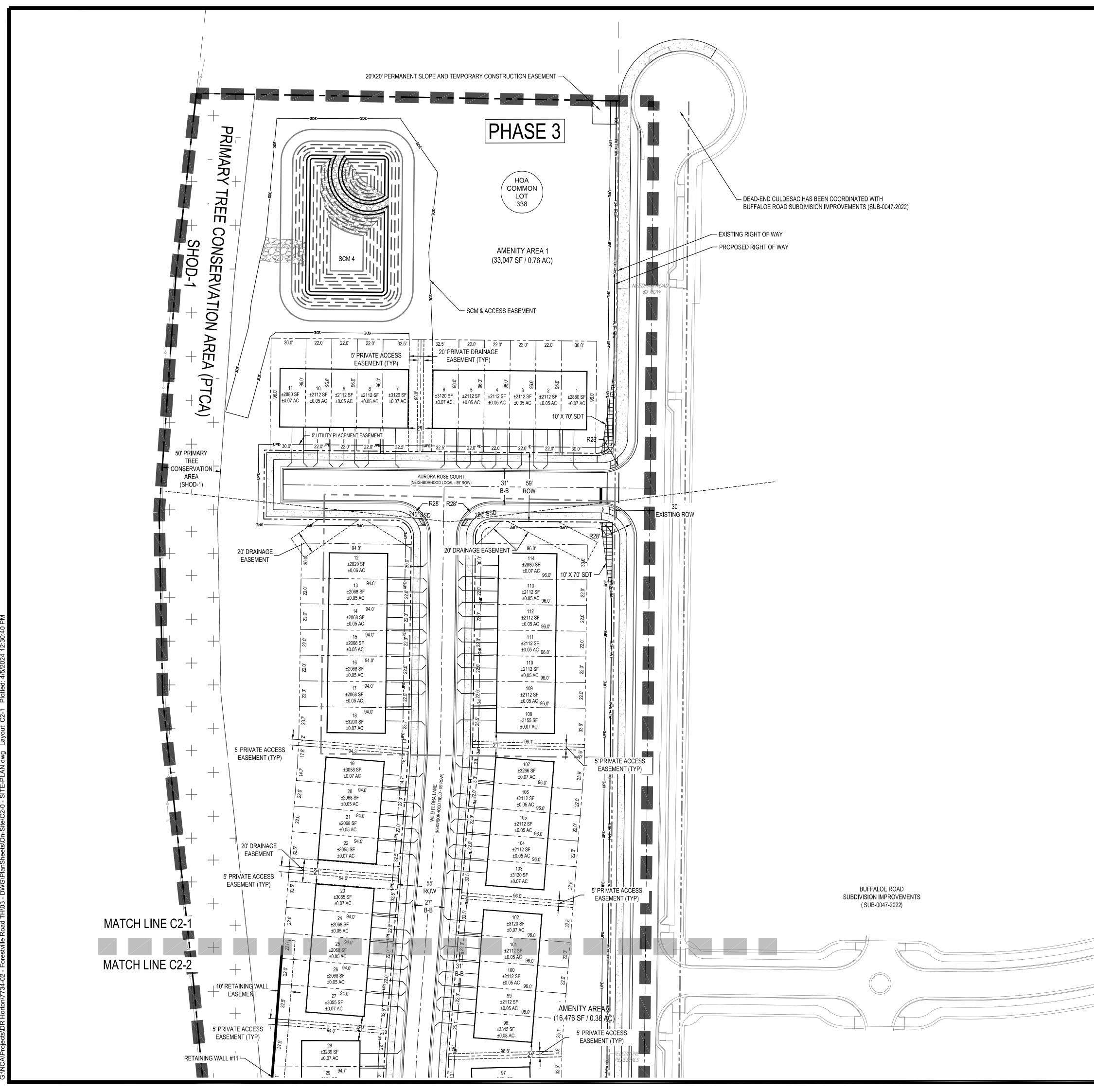


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WETLAND PRIMARY TREE CONSERVATION AREA SECONDARY TREE CONSERVATION AREA EXISTING RIGHT OF WAY PROPOSED RIGHT OF WAY 5' UTILITY PLACEMENT EASEMENT PHASE LINE

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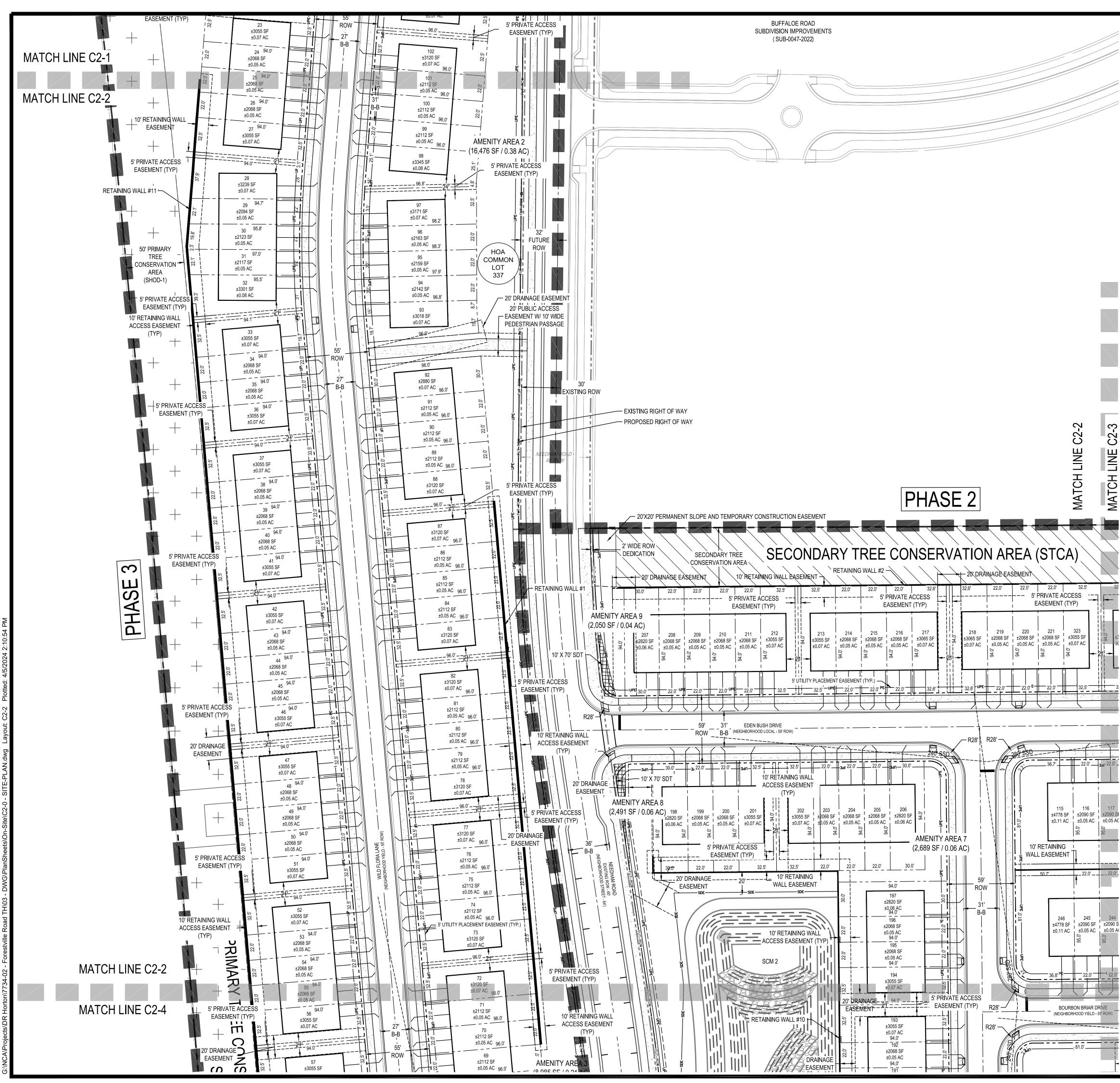
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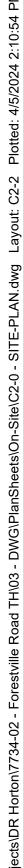
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				RALEIGH NC 27607	WWW.BGEINC.COM NC LICENSE #C-4397 ©2024
	DR HORTON		2000 AERIAL CENTER PARKWAY	MORRISVILLE NC 27560	
CHAPFI TOWNES			PRELIMINARY SUBDIVISION PLAN	0, 5136, 5228, 5237,5305 NEEDHAM RD &	0, 2220, 2220, 2222, 2207 1 UNLO 1 VILLE ND RALEIGH NC 27604

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DATE: 04/04/202
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20'







SITE LEGEND

WETLAND

PRIMARY TREE CONSERVATION AREA + + +SECONDARY TREE CONSERVATION AREA ---- EXISTING RIGHT OF WAY PROPOSED RIGHT OF WAY PHASE LINE

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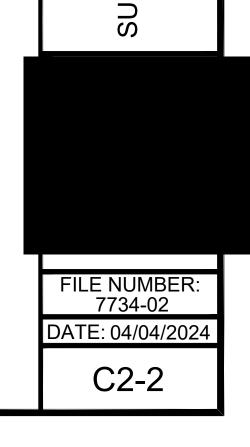
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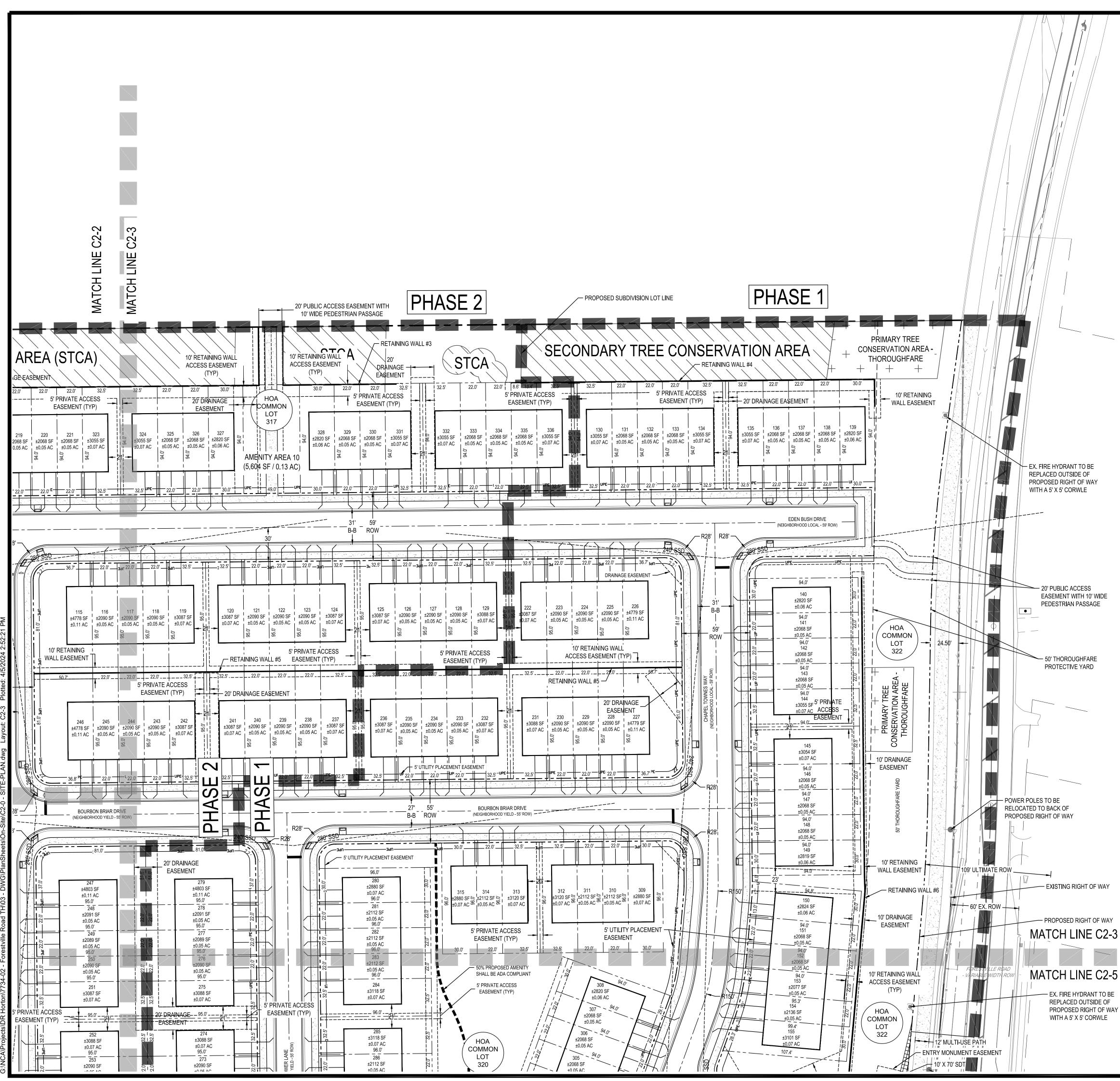
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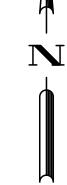
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	WETLAND
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	SECONDARY
	EXISTING RIG
	PROPOSED F
	5' UTILITY PL
	PHASE LINE

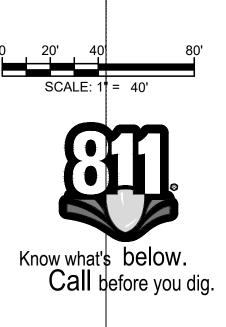
PRIMARY TREE CONSERVATION AREA
SECONDARY TREE CONSERVATION AREA
EXISTING RIGHT OF WAY
PROPOSED RIGHT OF WAY
5' UTILITY PLACEMENT EASEMENT



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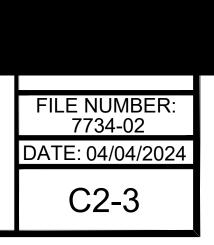


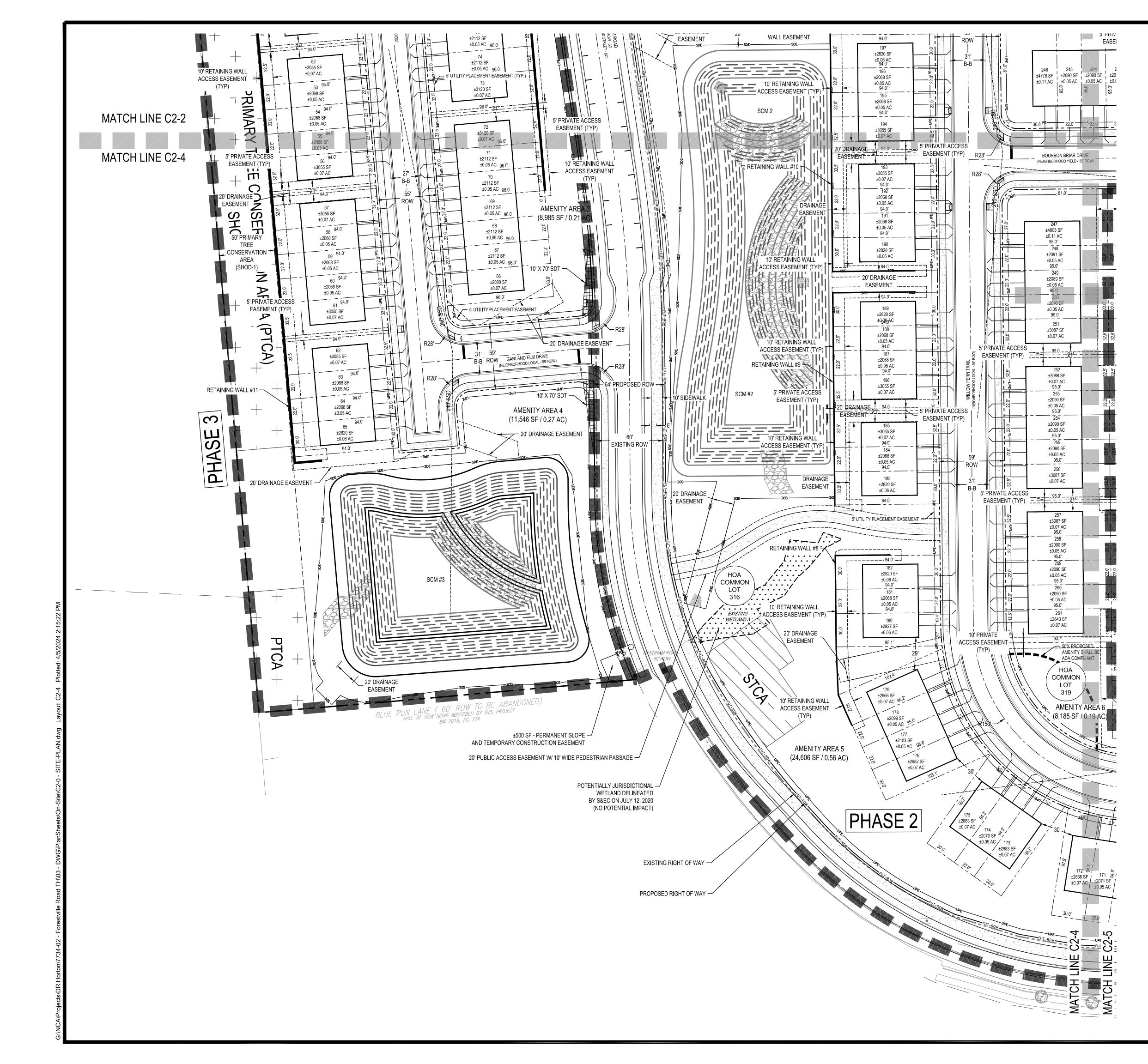
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CHAPFI TOWNES	SUBDIVISION		PRELIMINARY SUBDIVISION PLAN	0, 5136, 5228, 5237,5305 NEEDHAM RD &	20, 2220, 2222, 2204 FUNESTVILLE NU RALEIGH NC 27604
	DR HORTON		2000 AERIAL CENTER PARKWAY STE 110	MORRISVILLE NC 27560	
				J	WWW.BGEINC.COM NC LICENSE #C-4397 (c)2024
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					DESCRIPTION





SITE LEGEND

	WETLAND
- + + ·	PRIMARY TREE CONSERVATION AREA

SECONDARY TREE CONSERVATION AREA
 EXISTING RIGHT OF WAY
 PROPOSED RIGHT OF WAY
 5' UTILITY PLACEMENT EASEMENT



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REVIEWED BY: TRW

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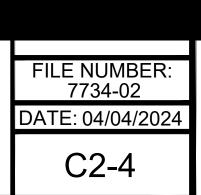
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SCALE: 1" = 40'

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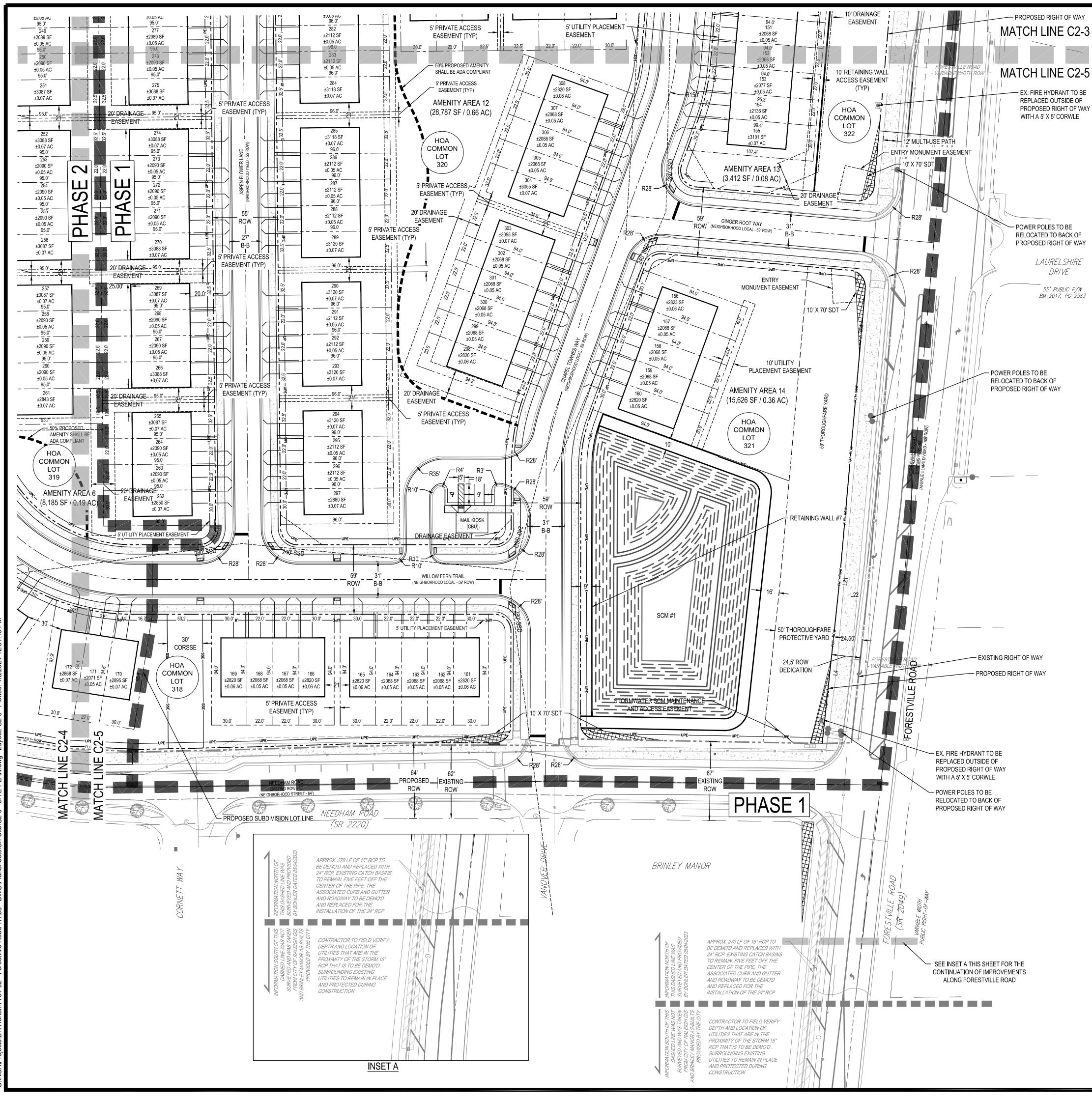
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80'

Call before you dig.



SITE LEGEND

	WETLAND
+ + + + + + + + + + + + + + + + + + +	PRIMARY TREE CONSERVATION AREA
	SECONDARY TREE CONSERVATION AF
	EXISTING RIGHT OF WAY
	PROPOSED RIGHT OF WAY
	5' UTILITY PLACEMENT EASEMENT
	PHASE LINE

ARY TREE CONSERVATION AREA RIGHT OF WAY D RIGHT OF WAY PLACEMENT EASEMENT

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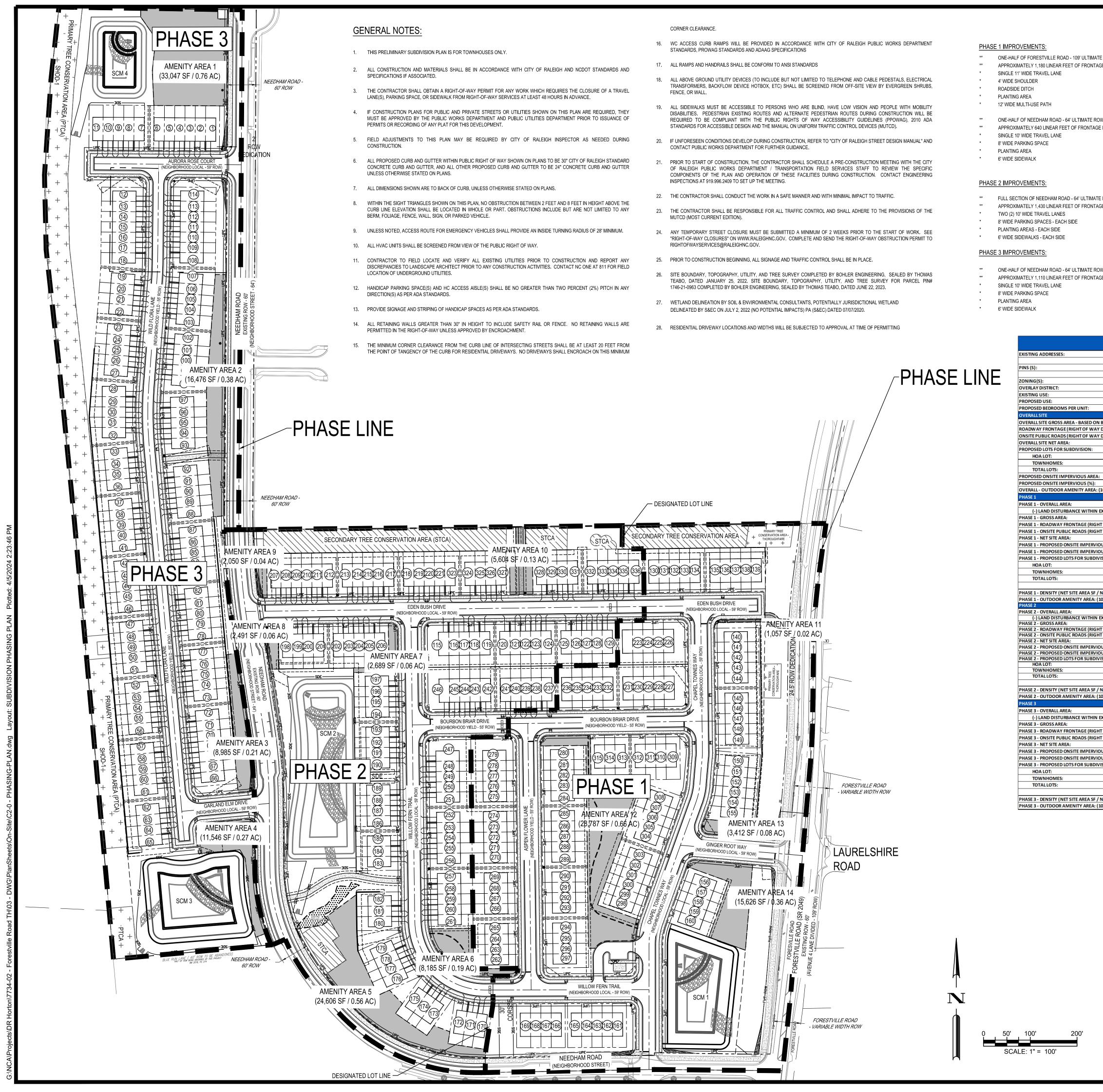
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C2-5



- ONE-HALF OF FORESTVILLE ROAD 109' ULTIMATE APPROXIMATELY 1,180 LINEAR FEET OF FRONTAGE

- ONE-HALF OF NEEDHAM ROAD 64' ULTIMATE ROW

- ** FULL SECTION OF NEEDHAM ROAD 64' ULTIMATE APPROXIMATELY 1,430 LINEAR FEET OF FRONTAGE

- ** ONE-HALF OF NEEDHAM ROAD 64' ULTIMATE ROW APPROXIMATELY 1,110 LINEAR FEET OF FRONTAGE

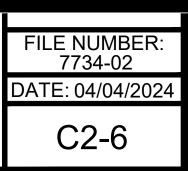
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: (10% MIN.)	3.47	AC		151,279.91	SF	3.78 AC	164,561	.00 SF			DR HORTON	ENTE	MORRISVILLE NC	
N EXISTING RIGHT OF WAY (FORESTVILLE ROAD AND NEEDHAM ROA	16.02 D: 1.32 14.70	AC AC AC		597,951.40 57,566.05 540,385.35	SF SF SF				_		H	U IVI	STIVIL ST	
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	16.85	AC		733,908.43	SF	105 7.6	45,025						0, 5 	0, 52
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	2 114 116								_		r	N V		
/ NUMBER OF TOWNHOME UNITS):	0.07	AC	Required	3,000.00	SF/UNIT	0.12 AC	Provided 5,208	.03 SF/UNIT			•	L L	-	
(10% MIN.)	1.36	AC		59,371.55	SF	1.61 AC	70,054	.00 SF			•		A A	
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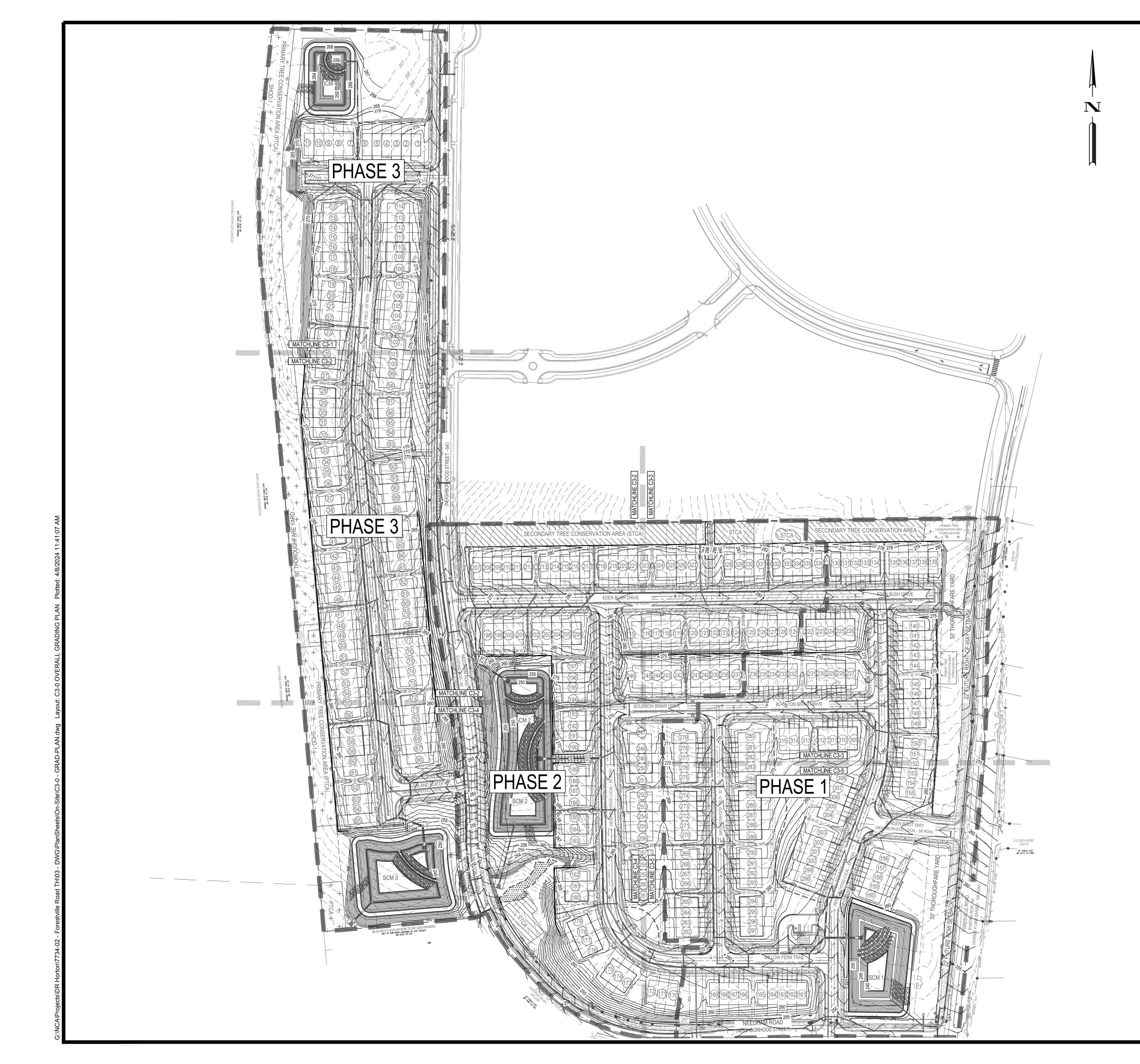
ATTENTION CONTRACTORS

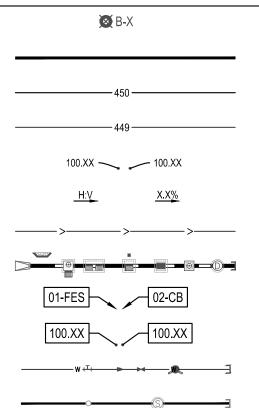
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STRUCTURES ABBREVIATIONS:

- AD AREA DRAIN (NYOPLAST 12X12 DRAIN) BE BUILDING ENTRY
- CO CLEANOUT CB CATCH BASIN
- DIDROP INLETEX-CBEXISTING CATCH BASIN TO REMAINEX-JBEXISTING JUNCTION BOX TO REMAINFESFLARED END SECTION
- HW HEADWALL MH MANHOLE

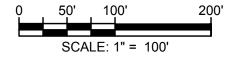
- PROPOSED BORING PROPOSED DETENTION PROPOSED MAJOR CONTOUR PROPOSED MINOR CONTOUR PROPOSED SPOT PROPOSED GRADING ARROW PROPOSED SWALE PROPOSED STORM
- PROPOSED STORM SYMBOL
- PROPOSED BUILDING SPOT
- PROPOSED WATER
- PROPOSED SANITARY

GRADING ABBREVIATIONS:

- HP HIGH POINT
- LP LOW POINT ME MATCH EXISTING
- BL BOTTOM OF LANDING
- TL TOP OF LANDING BS BOTTOM OF STAIRS
- TS TOP OF STAIRS
- TW TOP OF RETAINING WALL
- BW BOTTOM OF RETAINING WALL FPE FINISH PAD ELEVATION

GRADING NOTES

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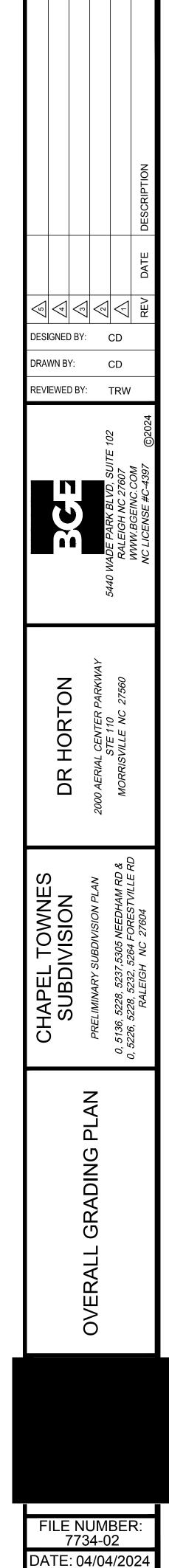
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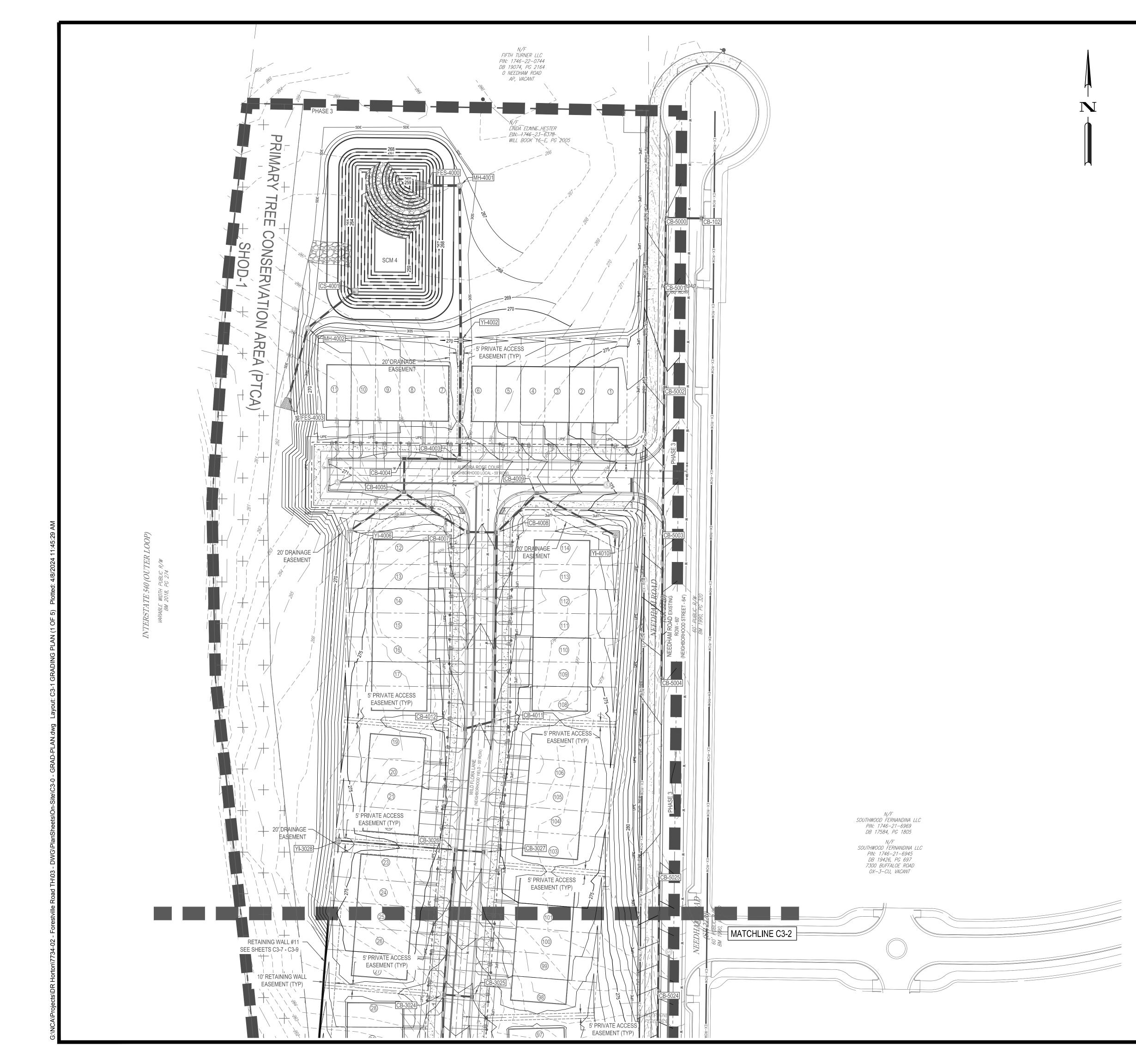
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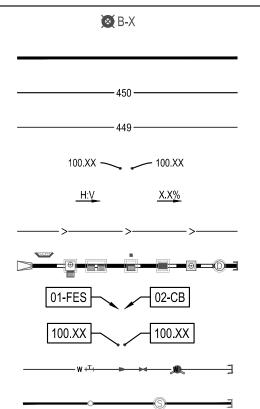
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C3-0





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- TS TOP OF STAIRS
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- FPE FINISH PAD ELEVATION



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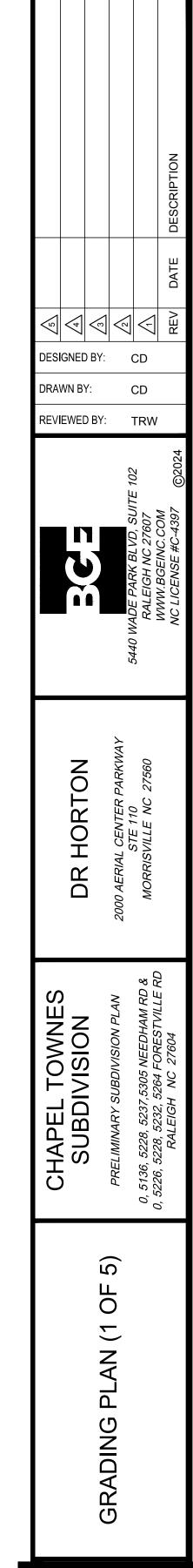
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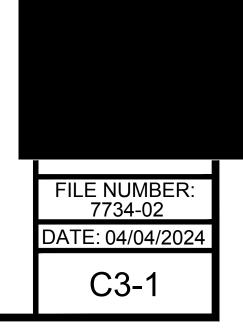
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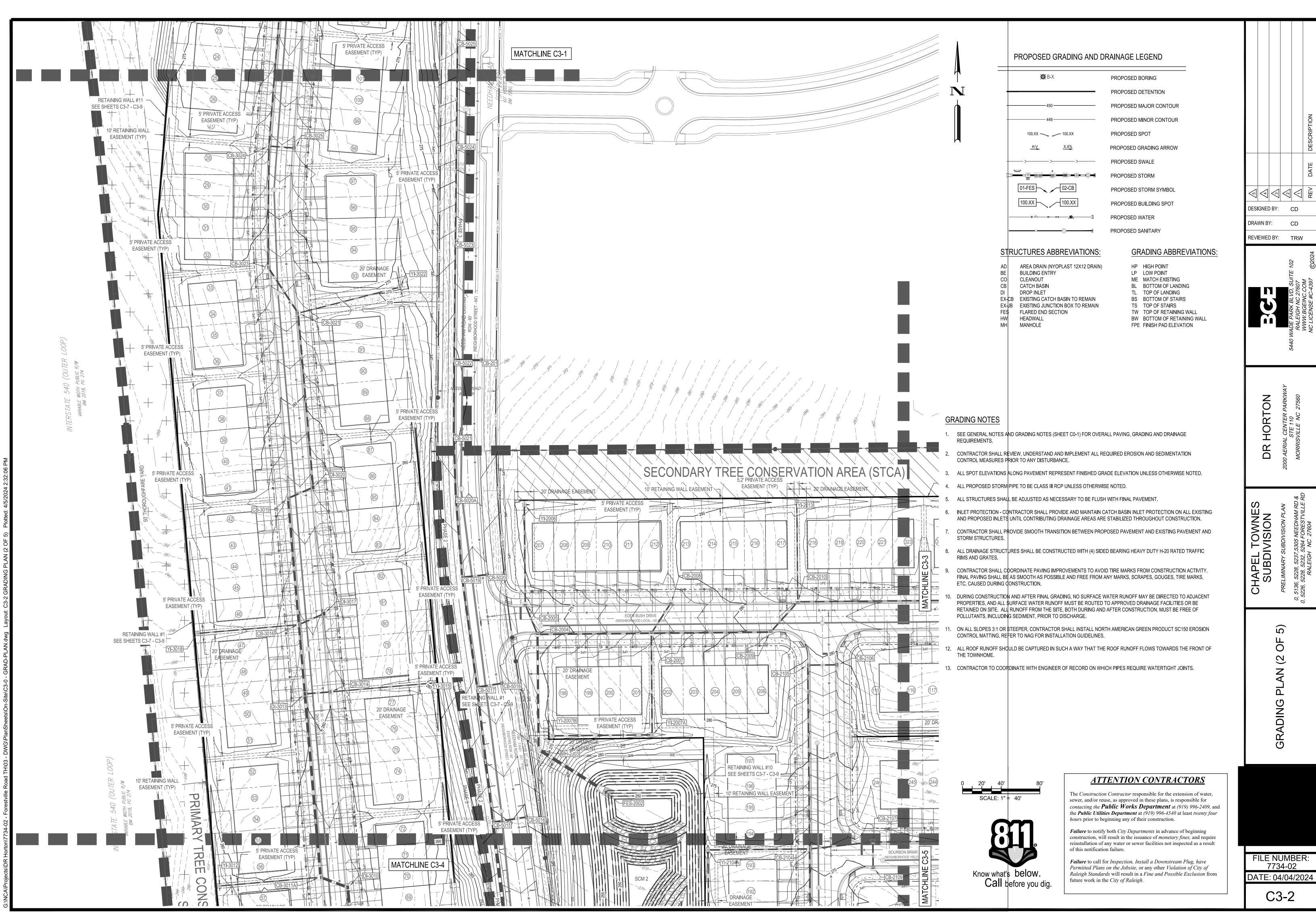
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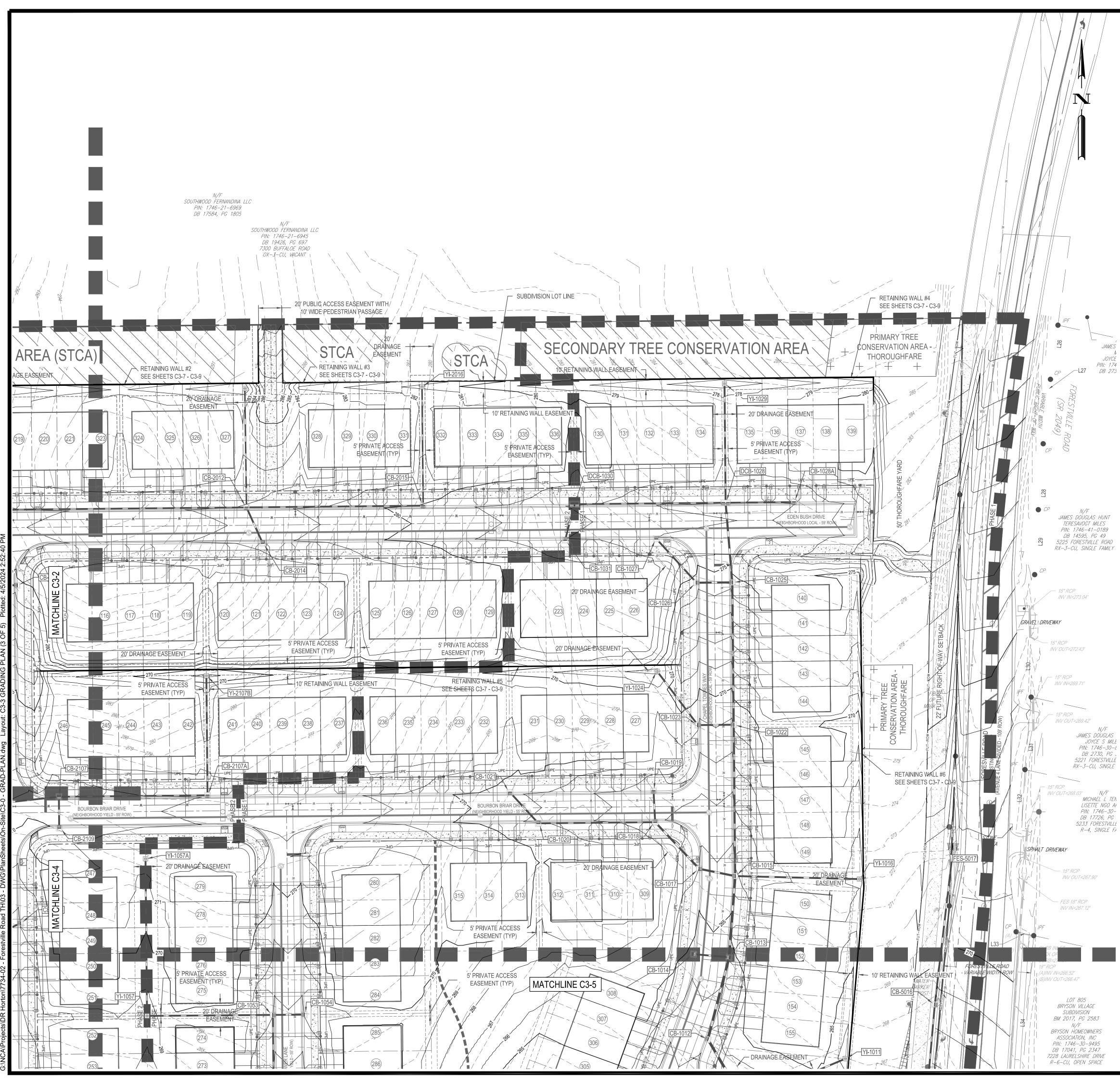
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BUILDING ENTRY

EX-CB EXISTING CATCH BASIN TO REMAIN

FLARED END SECTION

EX-JB EXISTING JUNCTION BOX TO REMAIN

CLEANOUT

DROP INLET

HEADWALL

MANHOLE

CATCH BASIN

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PIN: 174

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AREA DRAIN (NYOPLAST 12X12 DRAIN)

PROPOSED DETENTION — PROPOSED MAJOR CONTOUR PROPOSED MINOR CONTOUR PROPOSED SPOT PROPOSED GRADING ARROW PROPOSED SWALE

PROPOSED BORING

PROPOSED STORM

PROPOSED STORM SYMBOL

PROPOSED BUILDING SPOT

PROPOSED WATER

PROPOSED SANITARY

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FILE NUMBER: 7734-02 DATE: 04/04/2024 C3-3



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	B	o r	construction, will result	It in the issuar ater or sewer	<i>tents</i> in advance of beginning nee of <i>monetary fines</i> , and req facilities not inspected as a re					
	Know what's	below.	Permitted Plans on th	<i>e Jobsite</i> , or ll result in a <i>l</i>	Ill a Downstream Plug, have any other Violation of City oj Fine and Possible Exclusion s			NUM 7734-(: 04/0	02	

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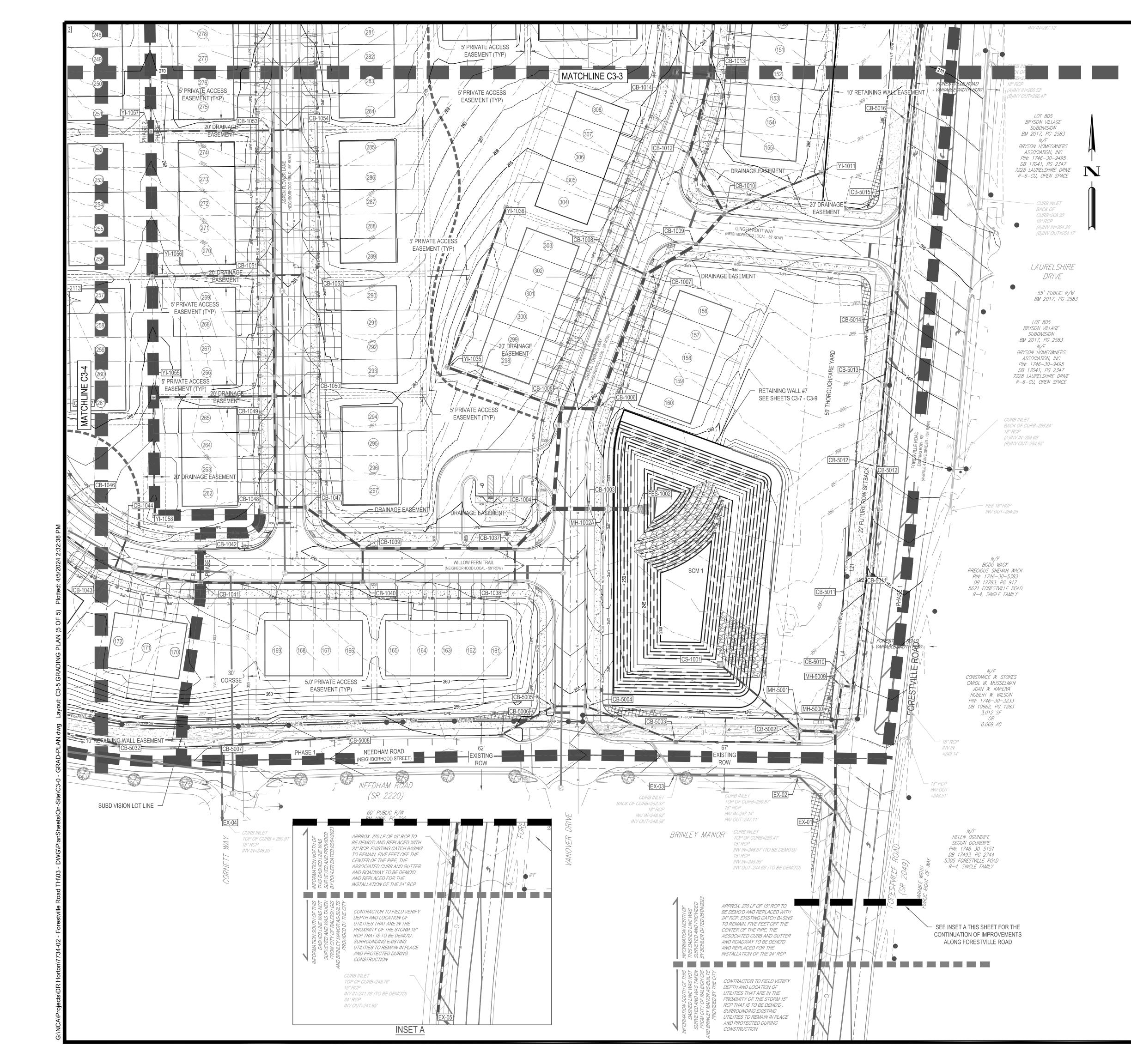
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Raleigh Standards will result in a Fine and Possible Exclusion from future work in the City of Raleigh.

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PROPOSED STORM

PROPOSED STORM SYMBOL

PROPOSED BUILDING SPOT

PROPOSED WATER

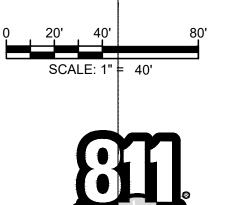
PROPOSED SANITARY

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Know what's below. Call before you dig.

ATTENTION CONTRACTORS

The *Construction Contractor* responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for *contacting the* **Public Works Department** at (919) 996-2409, and the **Public Utilities Department** at (919) 996-4540 at least *twenty four hours* prior to beginning any of their construction.

Failure to notify both *City Departments* in advance of beginning construction, will result in the issuance of *monetary fines*, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.



	FILE NUMBER: 7734-02
Γ	DATE: 04/04/2024
	C3-5

SCM #1 STRUCTURE NETWORK

			STRUC	CTURE DATA	TABLE			
STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT LENGTH (LF)	PIPE OUT SLOPE	PIPE OU TO NOD
CB-1003	258.93	42"	252.39 (W)	252.29 (E)	42"	18.49	0.50%	MH-1002
CB-1004	258.93	36" 30"	252.65 (N) 252.65 (SW)	252.55 (E)	42"	31.01	0.50%	CB-100
CB-1005	260.04	30" 24"	254.09 (E) 254.09 (W)	254.06 (S)	36"	91.33	1.54%	CB-100
CB-1006	260.14	30"	254.35 (N)	254.25 (W)	30"	32.32	0.50%	CB-100
CB-1007	261.71	30" 15"	255.70 (NE) 256.69 (NW)	255.60 (S)	30"	128.94	0.97%	CB-100
CB-1008	261.74			257.00 (SE)	15"	31.12	1.00%	CB-100
CB-1009	262.57	30"	256.50 (NE)	256.40 (SW)	30"	52.51	1.33%	CB-100
CB-1010	262.84	15" 24"	258.00 (NE) 257.25 (NW)	257.15 (SW)	30"	38.72	1.68%	CB-100
CB-1012	263.59	24"	258.00 (N)	257.90 (SE)	24"	62.22	1.04%	CB-101
CB-1013	264.74	24" 15"	259.64 (N) 259.64 (W)	259.10 (S)	24"	73.36	1.50%	CB-101
CB-1014	264.74			259.95 (E)	15"	31.00	1.00%	CB-101
CB-1015	265.88	15" 18" 18"	261.30 (E) 260.80 (N) 260.69 (W)	260.59 (S)	24"	70.52	1.35%	CB-101
CB-1017	265.98	18"	260.95 (NW)	260.85 (E)	18"	31.69	0.50%	CB-101
CB-1018	267.50	15" 15"	262.15 (W) 261.98 (N)	262.13 (SE)	18"	55.62	2.12%	CB-101
CB-1019	267.52			262.25 (S)	15"	27.03	1.00%	CB-101
CB-1020	269.16	15"	263.85 (NW)	263.75 (E)	15"	101.16	1.58%	CB-101
CB-1021	269.56			264.25 (SE)	15"	36.30	1.10%	CB-102
CB-1022	269.16	18" 15"	263.65 (N) 263.61 (W)	263.51 (S)	18"	131.05	2.07%	CB-101
CB-1023	269.16	15"	263.82 (NW)	263.82 (E)	15"	31.00	0.68%	CB-102
CB-1025	274.63	18" 18"	268.60 (N) 268.79 (W)	266.09 (S)	18"	123.31	1.98%	CB-102

STRUCTURE DATA TABLE												
STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT LENGTH (LF)	PIPE OUT SLOPE	PIPE OUT TO NODE				
CB-1026	274.63	15"	269.35 (NW)	269.10 (E)	18"	31.00	1.00%	CB-1025				
CB-1027	277.28			271.95 (SE)	15"	51.58	5.04%	CB-1026				
CB-1028A	277.33			271.65 (W)	15"	59.22	0.56%	DCB-1028				
CB-1031	278.38			273.75 (N)	15"	32.10	2.49%	DCB-1030				
CB-1037	258.17	24" 15"	253.00 (W) 253.59 (S)	252.90 (NE)	30"	49.61	0.50%	CB-1004				
CB-1038	258.17			253.75 (N)	15"	31.00	0.50%	CB-1037				
CB-1039	259.71	18" 24"	254.65 (S) 254.40 (NW)	254.30 (E)	24"	137.40	0.95%	CB-1037				
CB-1040	259.71	18"	254.90 (W)	254.80 (N)	18"	31.00	0.50%	CB-1039				
CB-1041	261.39	18" 15"	256.71 (W) 256.50 (N)	256.40 (E)	18"	146.41	1.02%	CB-1040				
CB-1042	261.39			256.65 (S)	15"	31.00	0.50%	CB-1041				
CB-1043	262.13	15" 15"	257.20 (N) 257.31 (NW)	257.10 (E)	18"	78.47	0.50%	CB-1041				
CB-1044	262.13			257.35 (S)	15"	31.00	0.50%	CB-1043				
CB-1045	262.73	15"	257.80 (NE)	257.70 (SE)	15"	77.28	0.50%	CB-1043				
CB-1046	262.70			257.95 (SW)	15"	30.00	0.50%	CB-1045				
CB-1047	261.04	24"	255.50 (W)	255.40 (SE)	24"	63.25	1.58%	CB-1039				
CB-1048	261.03	18"	256.15 (N)	255.70 (E)	24"	27.43	0.73%	CB-1047				
CB-1049	263.09	15" 18" 18"	257.63 (E) 257.63 (N) 257.64 (W)	257.53 (S)	18"	100.19	1.38%	CB-1048				
CB-1050	263.09			258.40 (W)	15"	27.00	2.85%	CB-1049				
CB-1051	265.33	15" 15" 15"	260.51 (E) 260.50 (N) 260.50 (W)	260.40 (S)	18"	109.01	2.54%	CB-1049				
CB-1052	265.33			260.65 (W)	15"	27.00	0.50%	CB-1051				

SCM #3 STRUCTURE NETWORK

	STRUCTURE DATA TABLE										
STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT LENGTH (LF)	PIPE OUT SLOPE	PIPE OUT TO NODE			
CB-3006A	257.82	30"	248.34 (N)	248.24 (SW)	36"	56.56	0.55%	DCB-3002			
CB-3007A	257.82	12" 30"	249.80 (NE) 248.61 (NW)	248.51 (S)	30"	31.00	0.55%	CB-3006A			
CB-3009A	257.57	30"	249.01 (N)	248.91 (SE)	30"	50.50	0.60%	CB-3007A			
CB-3011A	258.61	30" 12"	249.97 (N) 251.70 (W)	249.87 (E)	30"	29.91	0.60%	DI-3010			
CB-3014	260.51	12"	253.30 (E)	253.56 (W)	15"	27.00	2.07%	DI-3013			
CB-3016	261.23	15" 24" 12"	253.34 (NE) 253.34 (N) 254.34 (W)	253.24 (S)	24"	71.84	0.60%	DI-3013			
CB-3019	262.90	18"	254.63 (NE)	254.13 (S)	24"	131.00	0.60%	CB-3016			
CB-3021	267.57	12" 18"	260.00 (E) 256.08 (NW)	255.98 (S)	18"	180.67	0.60%	DI-3020			
CB-3023	268.87	15"	264.00 (N)	256.42 (SE)	18"	56.82	0.60%	CB-3021			
CB-3024	272.05	15" 15"	264.75 (E) 264.95 (N)	264.75 (S)	15"	125.24	0.60%	CB-3023			
CB-3025	272.05			268.80 (W)	15"	27.00	15.00%	CB-3024			
CB-3026	274.50	15" 12"	265.74 (E) 265.94 (W)	265.74 (S)	15"	131.00	0.60%	CB-3024			
CB-3027	274.50			268.13 (W)	15"	27.00	8.87%	CB-3026			
CS-3001	244.50			244.00 (SW)	36"	62.69	1.60%	FES-3000			
DCB-3002	256.39	36" 18"	247.93 (NE) 248.76 (W)	247.75 (E)	42"	61.63	0.60%	MH-3001			
DCB-3003	256.65	12"	250.83 (SW)	249.03 (E)	18"	21.73	1.24%	DCB-3002			
DI-3010	258.48	30"	249.69 (W)	249.59 (S)	30"	97.23	0.60%	CB-3009A			
DI-3013	260.51	15" 24"	253.00 (E) 252.81 (N)	252.31 (S)	30"	190.16	1.23%	CB-3011A			
DI-3017	261.32			253.60 (SW)	15"	28.50	0.91%	CB-3016			
DI-3020	263.08	18"	254.90 (N)	254.80 (SW)	18"	28.50	0.60%	CB-3019			

STRUCTURE DATA TABLE

STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT LENGTH (LF)	PIPE OUT SLOPE	PIPE OUT TO NODE
CB-1053	268.02	15" 15"	263.11 (E) 265.06 (W)	263.01 (S)	15"	130.80	1.92%	CB-1051
CB-1054	268.02			263.25 (W)	15"	27.00	0.50%	CB-1053
CS-1001	253.00			246.00 (SE)	15"	93.23	0.50%	MH-5001
DCB-1028 277.02 15" 15"		271.32 (N) 271.54 (W) 271.32 (E)	269.29 (S)	18"	69.17	1.00%	CB-1025	
DCB-1030	278.27	15"	272.95 (S)	272.85 (E)	15"	130.95	1.00%	DCB-1028
FES-1002	250.09	42"	246.00 (W)					
FES-5001A	252.09			252.09 (S)	18"	28.69	13.25%	MH-5001
MH-1002A	258.84	42"	252.20 (W)	246.27 (E)	42"	26.54	1.00%	FES-1002
MH-5001	251.79	15" 18"	245.53 (NW) 248.29 (N)					
YI-1011	263.40			261.15 (SW)	15"	95.05	3.31%	CB-1010
YI-1016	266.21			263.95 (W)	15"	107.72	2.46%	CB-1015
YI-1024	267.55			264.20 (SE)	15"	58.28	0.65%	CB-1023
YI-1029	276.34			272.35 (S)	15"	103.00	1.00%	DCB-102
YI-1035	260.92	18"	258.40 (N)	257.90 (E)	24"	108.31	3.52%	CB-1005
YI-1036	263.29			260.70 (S)	18"	153.45	1.50%	YI-1035
YI-1055	263.73	15"	258.28 (S)	258.18 (E)	18"	109.00	0.50%	CB-1049
YI-1056	265.91			263.25 (E)	15"	109.00	2.52%	CB-1051
YI-1057	268.53	15"	266.07 (N)	265.97 (E)	15"	109.00	0.83%	CB-1053
YI-1057A	271.22			266.75 (S)	15"	136.01	0.50%	Yl-1057
YI-1058	261.60			259.35 (N)	15"	106.50	1.00%	YI-1055

			STRU	CTURE DATA	TABLE			
STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT LENGTH (LF)	PIPE OUT SLOPE	PIPE OUT TO NODE
CB-2004	274.26	15" 18"	267.47 (N) 262.68 (E)	262.18 (S)	24"	119.00	3.50%	MH-2003
CB-2005	273.69	15"	267.77 (N)	267.67 (S)	15"	33.40	0.60%	CB-2004
CB-2007	277.68	18" 15" 15"	263.59 (E) 263.84 (NE) 263.84 (S)	263.39 (W)	18"	117.61	0.60%	CB-2004
CB-2008	278.28			264.06 (SW)	15"	37.20	0.60%	CB-2007
CB-2009	280.90	15"	264.50 (NE)	264.30 (W)	18"	123.28	0.58%	CB-2007
CB-2010	281.41	15" 12"	271.59 (E) 271.39 (N)	264.75 (SW)	15"	42.04	0.60%	CB-2009
CB-2012	281.88	15" 15" 12"	273.23 (SE) 273.23 (E) 273.23 (N)	273.03 (W)	15"	240.10	0.60%	CB-2010
CB-2014	281.71			273.87 (NW)	15"	33.88	1.89%	CB-2012
CB-2015	279.94	12"	274.50 (N)	274.30 (W)	15"	153.00	0.70%	CB-2012
CB-2102	267.79	18" 15" 30"	261.20 (N) 261.35 (NE) 254.46 (S)	254.36 (W)	36"	97.12	0.50%	MH-2101
CB-2103	268.06			261.85 (SW)	15"	33.87	1.46%	CB-2102
CB-2104	271.08	15" 15" 15"	262.66 (N) 262.66 (W) 262.66 (E)	262.41 (S)	18"	116.50	1.04%	CB-2102
CB-2105	279.67	15"	264.31 (E)	264.16 (S)	15"	190.00	0.79%	CB-2104
CB-2106	279.67			264.50 (W)	15"	30.99	0.60%	CB-2105
CB-2107	270.45	15" 15"	265.34 (E) 264.78 (S)	264.68 (W)	15"	65.83	3.07%	CB-2104
CB-2107A	271 <u>.</u> 41	15"	266.88 (N)	266.05 (W)	15"	128.74	0.55%	CB-2107
CB-2109	270.45			265.05 (N)	15"	27.00	1.00%	CB-2107
CB-2110	266.20	30" 15" 15"	255.14 (S) 259.04 (E) 259.04 (W)	255.04 (N)	30"	116.52	0.50%	CB-2102
CB-2111	266.32			259.35 (W)	15"	30.51	1.00%	CB-2110
CB-2116	263.97	15" 15"	256.40 (W) 256.40 (E)	256.30 (N)	24"	130.30	0.50%	DCB-2112
CB-2117	263.90			256.56 (W)	15"	31.30	0.50%	CB-2116

STRUCTURE DATA TABLE											
STRUCTURE NAME	RIM ELEV.	Pipe in Size	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT LENGTH (LF)	PIPE OUT SLOPE	PIPE OUT TO NODE			
FES-3000	242.97	36"	243.00 (NE)								
FES-3002	244.50	48"	244.50 (N)								
MH-3001	253.10	42"	247.38 (W)	245.91 (S)	48"	44.14	3.20%	FES-3002			
MH-3004	257.22	12"	251.01 (W)	251.11 (NE)	12"	27.53	1.00%	DCB-3003			
YI-3005	255.17			251.77 (E)	12"	86.00	0.88%	MH-3004			
YI-3008A	255.99			253.00 (SW)	12"	78.85	4.06%	CB-3007A			
YI-3012	257.90			254.90 (E)	12"	105.00	3.05%	CB-3011A			
YI-3015	259.00			256.50 (W)	12"	107.00	2.99%	CB-3014			
YI-3018	260.08			257.08 (E)	12"	105.00	2.61%	CB-3016			
YI-3022	268.57			265.50 (W)	12"	108.45	5.07%	CB-3021			
YI-3028	272.87			266.57 (E)	12"	105.00	0.60%	CB-3026			

STRUCTL NAME CB-400 CB-400 CB-400 CB-400 CB-400 CB-4009 CB-4012 CS-4001 FES-4000 FES-4000 MH-4002 YI-4002 YI-4002 YI-4006 YI-4010

SCM #2 STRUCTURE NETWORK

	STRUCTURE DATA TABLE										
STRUCTURE NAME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT LENGTH (LF)	PIPE OUT SLOPE	PIPE OUT TO NODE			
CS-2001	252.50			247.00 (S)	24"	140.10	0.71%	FES-2000			
DCB-2112	265.41	15" 24"	257.74 (E) 255.65 (S)	255.55 (N)	30"	81.98	0.50%	CB-2110			
DCB-2113	265.41			258.05 (W)	15"	31.00	1.00%	DCB-2112			
FES-2000	246.97	24"	246.00 (N)								
FES-2002	252.50	36"	252.50 (NW)								
FES-2100	252.50	36"	252.50 (E)								
MH-2003	271.30	24"	258.01 (N)	257.01 (SE)	36"	79.34	5.68%	FES-2002			
MH-2101	259.69	36"	253.87 (E)	253.77 (W)	36"	32.88	3.86%	FES-2100			
YI-2006	274.89			268.77 (S)	15"	102.97	0.97%	CB-2005			
YI-2007A	276.28	15"	264.67 (W)	264.47 (N)	15"	105.00	0.60%	CB-2007			
YI-2007B	274.56			265.29 (E)	15"	102.90	0.60%	YI-2007A			
YI-2012A	280.97			273.85 (S)	12"	103.00	0.60%	CB-2012			
YI-2013	280.52			275.00 (S)	12"	103.00	3.50%	CB-2010			
YI-2016	280.65			277.35 (S)	12"	103.00	2.77%	CB-2015			
YI-2104A	269.62	15"	263.49 (S)	263.29 (E)	15"	105.00	0.60%	CB-2104			
YI-2104B	268.32			264.08 (N)	15"	98.50	0.60%	YI-2104A			
YI-2107B	268.74			267.40 (S)	15"	103.51	0.50%	CB-2107A			
YI-2110A	266.59	15"	259.87 (S)	259.67 (E)	15"	105.50	0.60%	CB-2110			
YI-2110B	265.55			260.35 (N)	15"	80.50	0.60%	YI-2110A			
YI-2116A	262.17			257.05 (E)	15"	107.63	0.60%	CB-2116			

FILE NUMBER: 7734-02

DATE: 04/04/2024

C3-6

SCM #4 STRUCTURE NETWORK

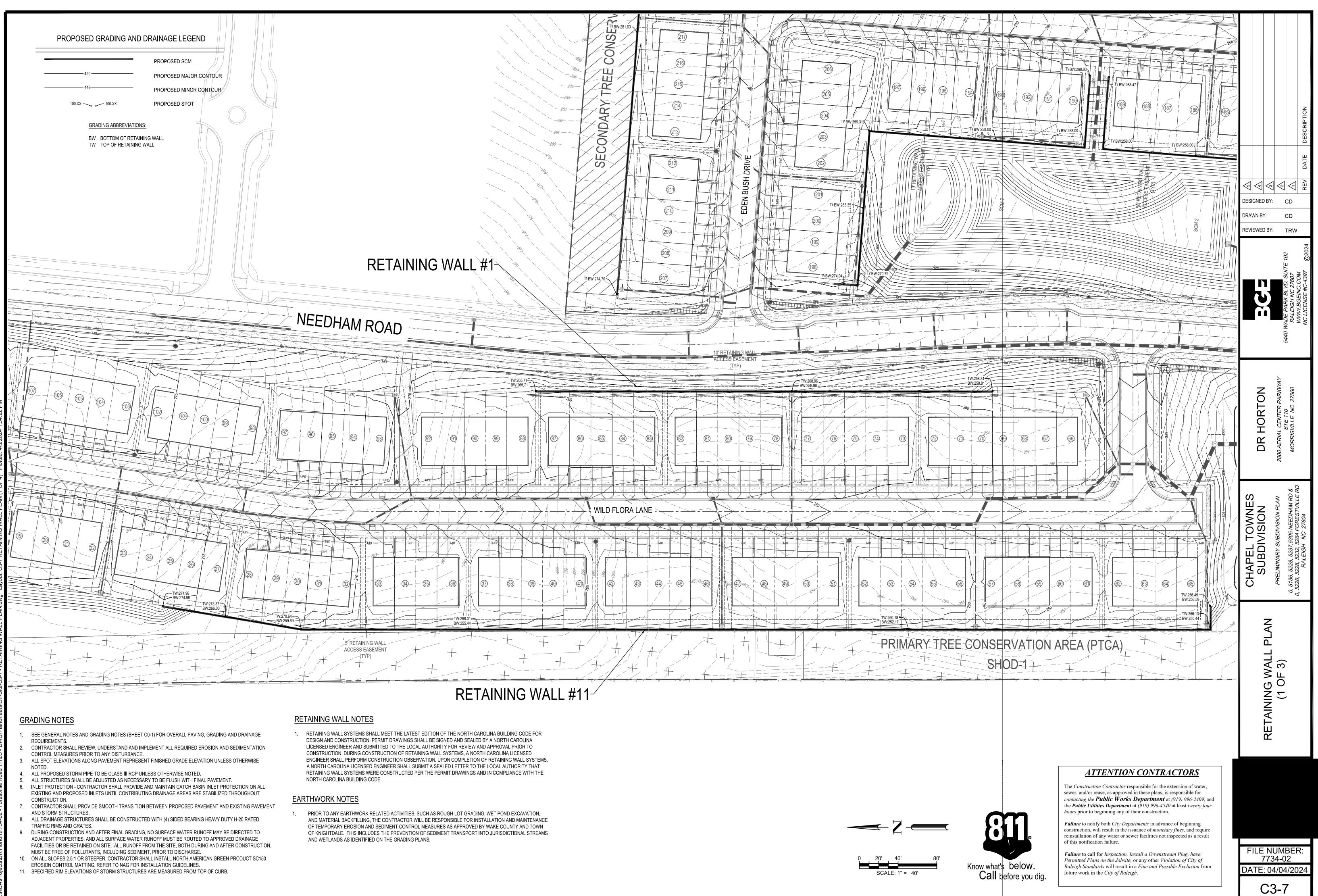
	STRUCTURE DATA TABLE											
CTURE ME	RIM ELEV.	PIPE IN SIZE	INV. IN	INV. OUT	PIPE OUT SIZE	PIPE OUT LENGTH (LF)	PIPE OUT SLOPE	PIPE OUT TO NODE				
4003	271.17	18"	265.56 (W)	265.46 (N)	24"	107.00	0.60%	YI-4002				
4004	270.75	18"	265.96 (S)	265.86 (E)	18"	49.83	0.60%	CB-4003				
4005	270.75	15" 18"	266.25 (SW) 266.15 (SE)	266.15 (N)	18"	31.00	0.60%	CB-4004				
4007	272.20	18"	266.92 (E)	266.82 (NW)	18"	66.80	1.00%	CB-4005				
4008	272.20	18" 18"	267.26 (S) 267.26 (NE)	267.16 (W)	18"	27.00	0.90%	CB-4007				
4009	273.07	15"	267.63 (SE)	267.53 (SW)	18"	49.88	0.55%	CB-4008				
4011	274.09	18"	269.49 (W)	269.39 (N)	18"	170.27	1.25%	CB-4008				
4012	274.18			269.88 (E)	18"	28.11	1.40%	CB-4011				
4001	263.50			262.80 (SW)	18"	54.34	0.68%	MH-4002				
4000	263.50	24"	263.50 (E)									
4003	262.08	18"	262.00 (N)									
4001	268.00	24"	264.00 (S)	263.90 (W)	24"	30.02	1.33%	FES-4000				
4002	268.08	18"	262.43 (NE)	262.34 (S)	18"	65.37	0.52%	FES-4003				
002	269.63	24"	264.82 (S)	264.72 (N)	24"	139.76	0.52%	MH-4001				
006	271.53			268.25 (NE)	15"	58.95	3.39%	CB-4005				
010	270.80			268.05 (NW)	15"	80.10	0.52%	CB-4009				

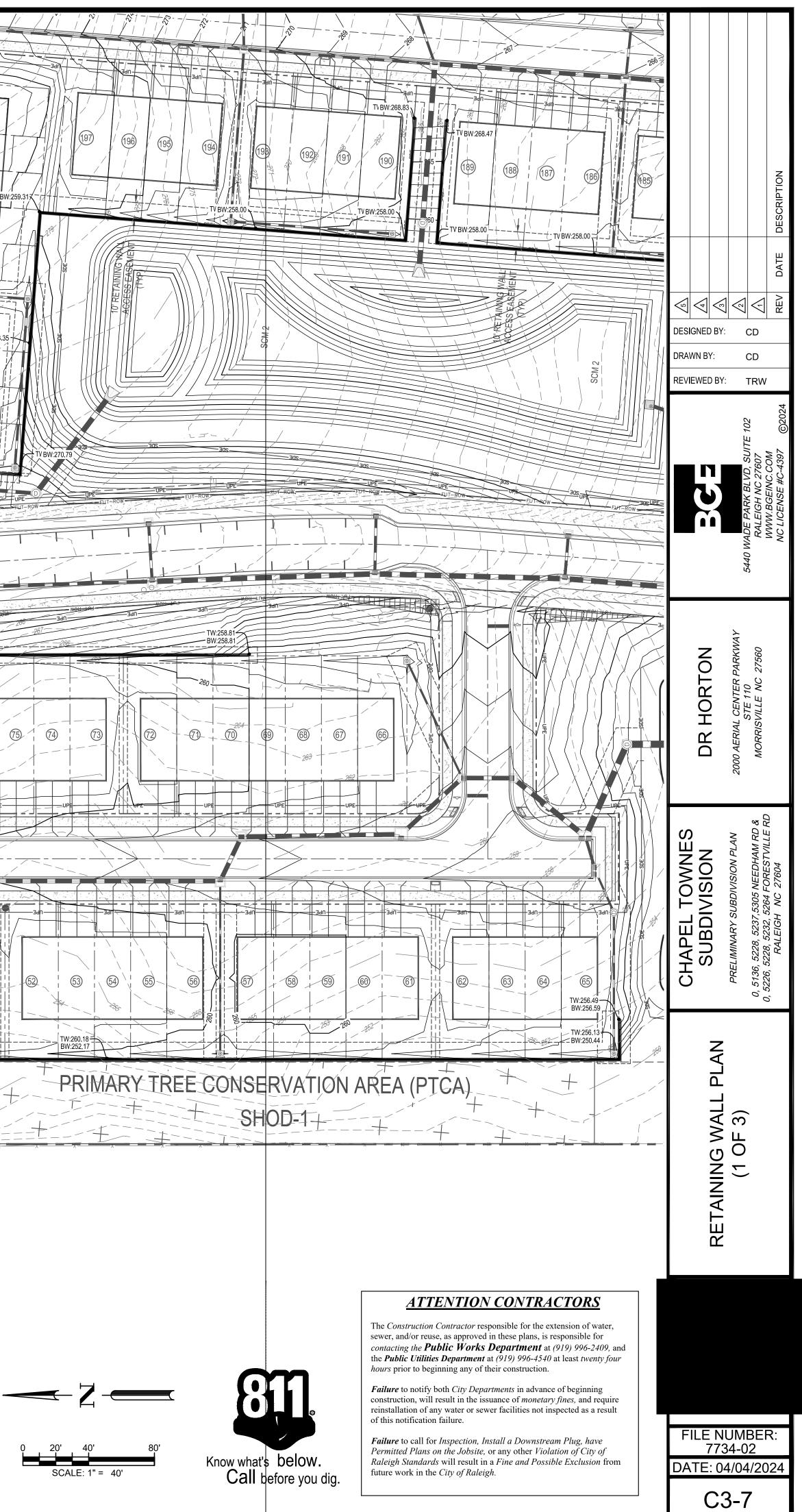
ATTENTION CONTRACTORS

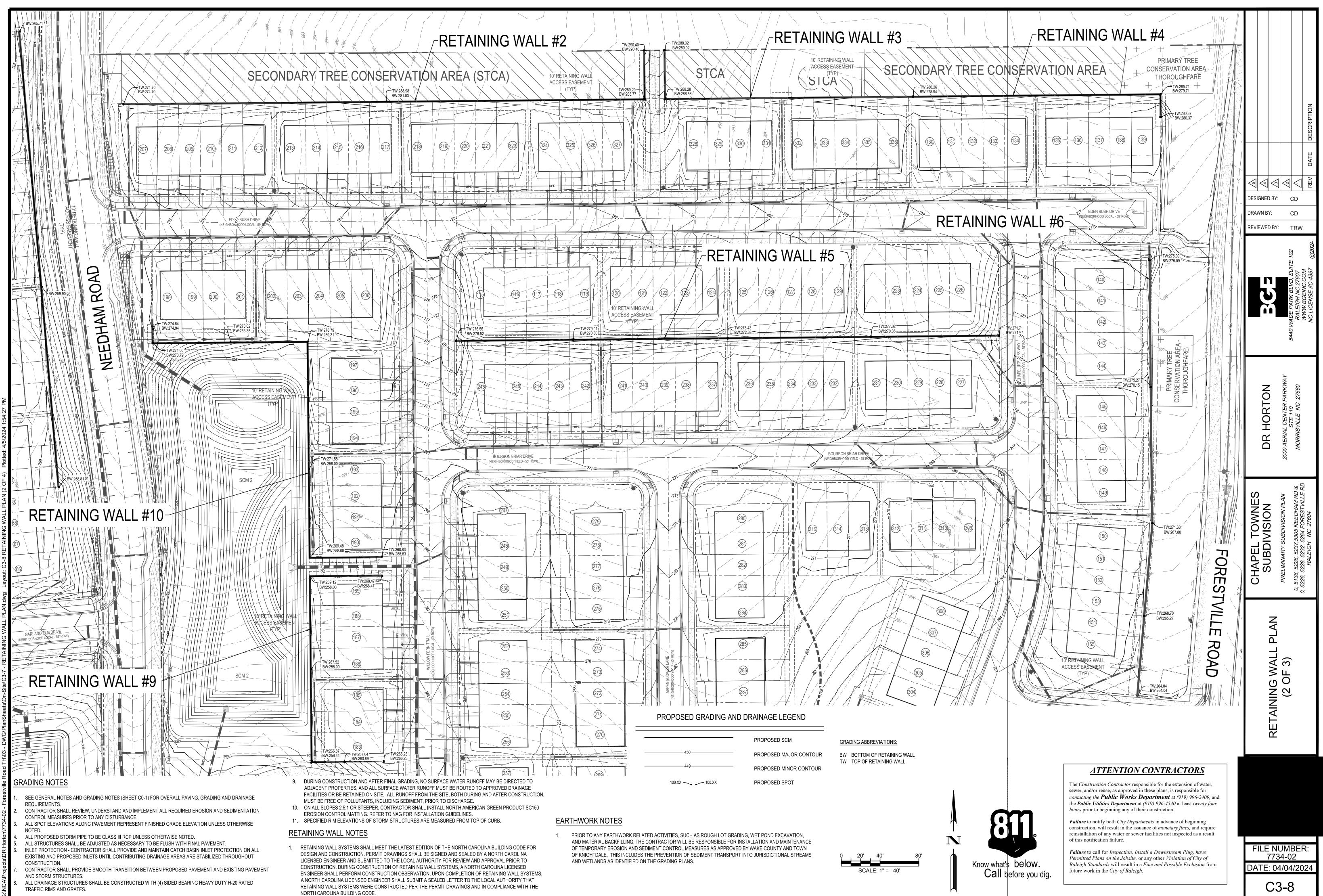
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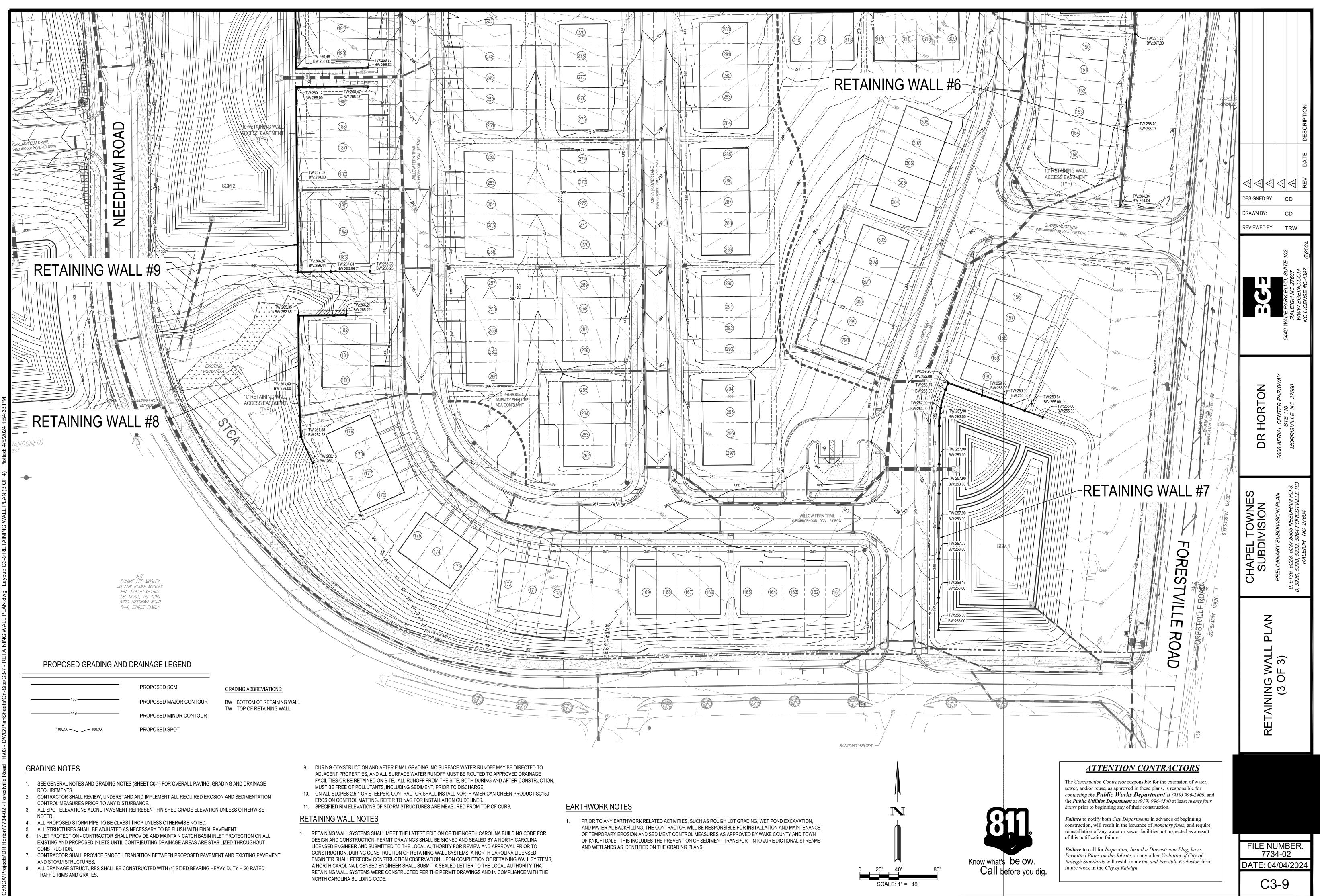
Failure to notify both *City Departments* in advance of beginning construction, will result in the issuance of *monetary fines*, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.

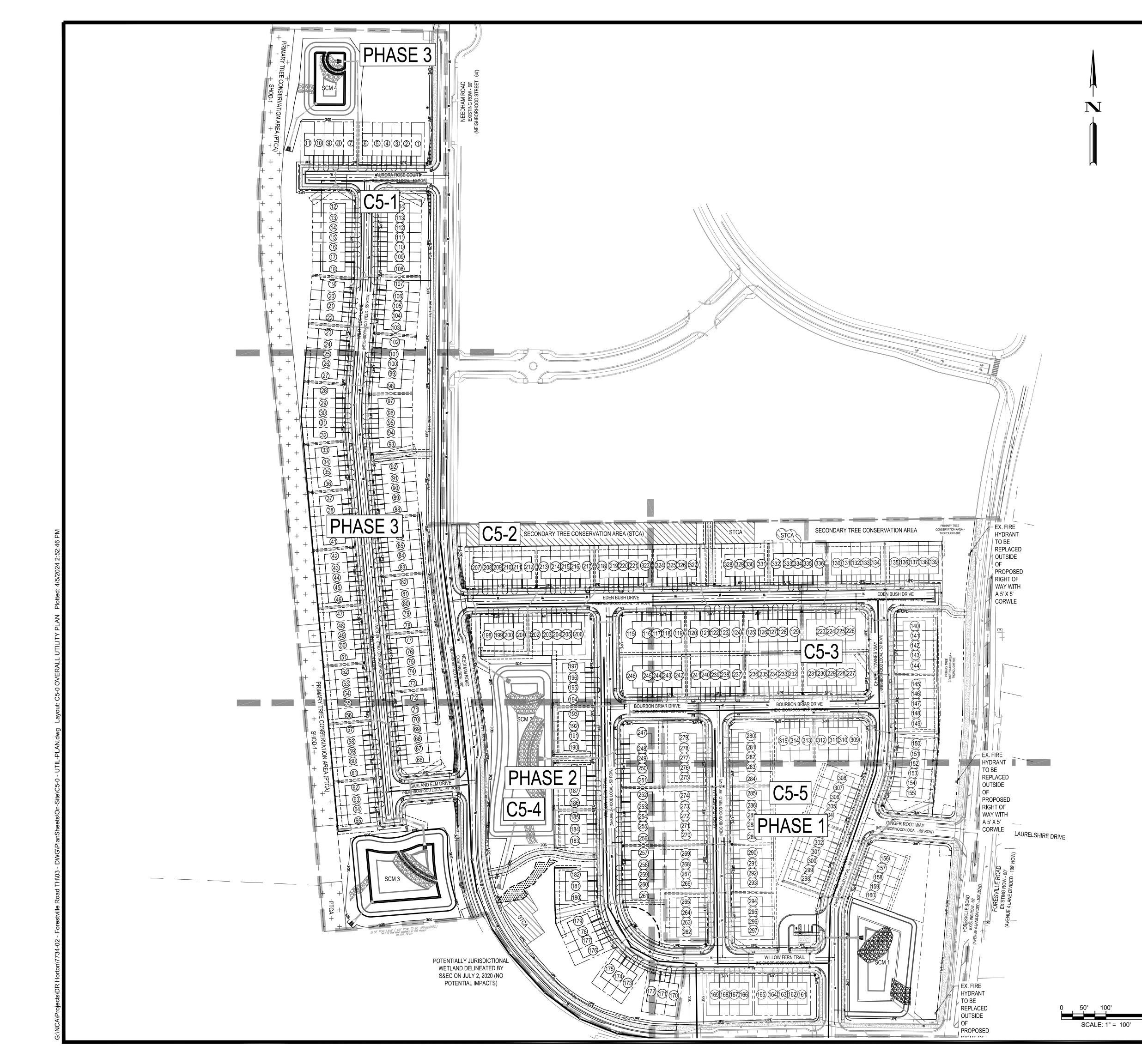


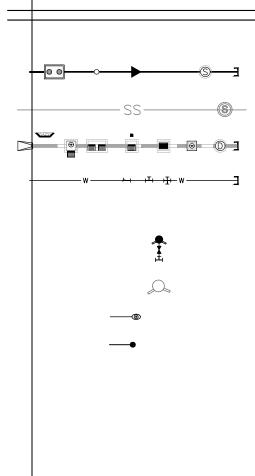












- PROPOSED 8" SANITARY SEWER MAIN
- EXISTING SANITARY SEWER MAIN
- PROPOSED STORM
- PROPOSED 8" DIP WATER MAIN
- EXISTING WATER MAIN
- PROPOSED FIRE HYDRANT ASSEMBLY (FHA)
- EXISTING FIRE HYDRANT
- PROPOSED WATER LATERAL
- PROPOSED SEWER LATERAL
- WATER DISTRIBUTION NOTES
- 1. FIRE DEPARTMENT APPARATUS ACCESS SHALL MEET THE NORTH CAROLINA FIRE PREVENTION CODE
- (ADOPTED LATEST EDITION)
- ALL PROPOSED WATER MAINS SHOWN ON THESE PLANS SHALL BE 8" DUCTILE IRON PIPE (AWWA C-150) PER CITY OF RALEIGH STANDARDS UNLESS OTHERWISE NOTED.
 2 DOTABLE WATER MAINS MAXIMUM ALLOWARDE LIGHT DEELECTION IS 5" MINIMUM PADIUS OF DEELECTION.
- 3. POTABLE WATER MAINS MAXIMUM ALLOWABLE JOINT DEFLECTION IS 5". MINIMUM RADIUS OF DEFLECTION FOR 8" DUCT LE IRON PIPE IS 230 DEGREES. RADII ARE PRODUCED BY A SUCCESSION OF NOMINAL LENGTH OF PIPE FULLY DEFLECTED.
- 8" DIP POTABLE WATER MAIN SHOWED HERE IN TO BE INSTALLED AT MINIMUM 3" DEPTH PER CITY OF RALEIGH STANDARDS.
 MAINTAIN 24' MINIMUM VERTICAL SEPARATION AT ALL SANITARY SEWER AND RCP STORM DRAIN
- CROSSINGS WHERE ADEQUATE SEPARATION CANNOT BE ACHIEVED. SPECIFY DIP MATERIALS AND A CONCRETE GRADLE HAVING 6" MINIMUM CLEARANCE (PER CORPUD DETAIL S-49)
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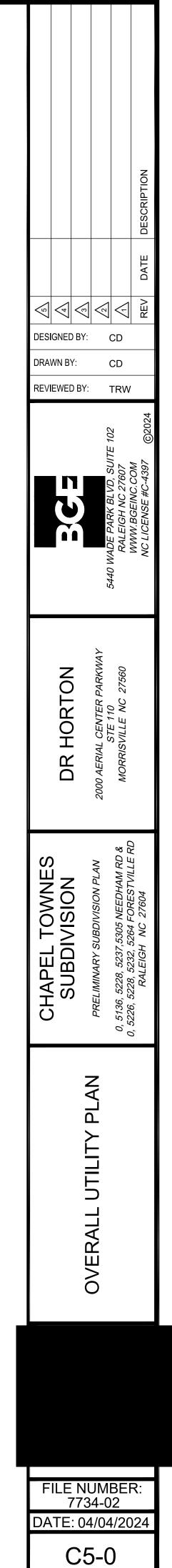
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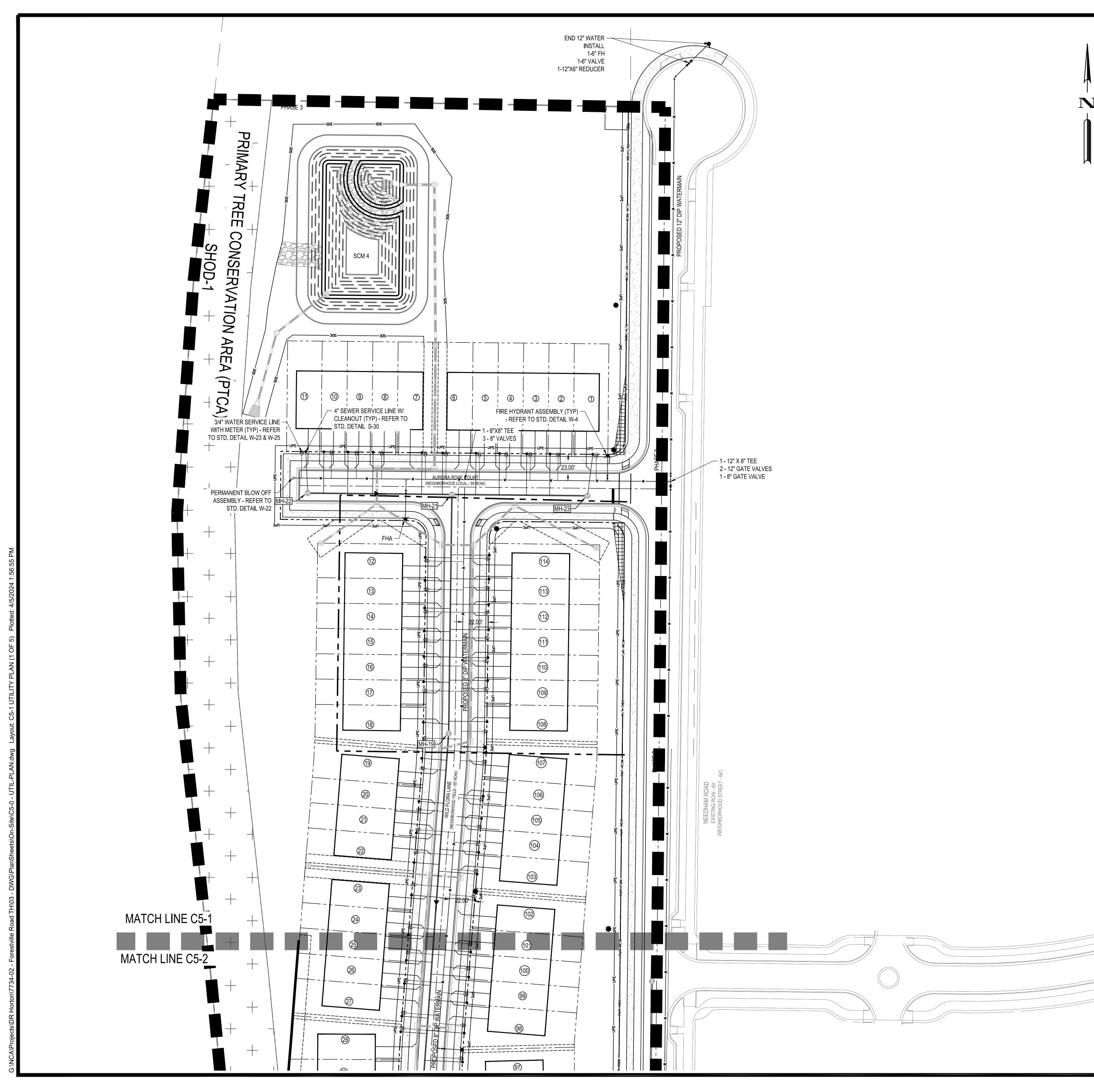
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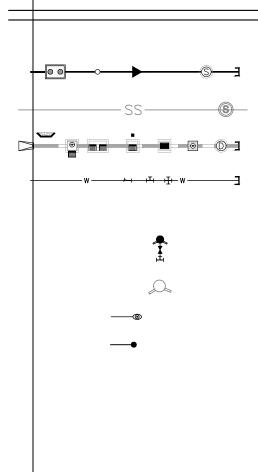
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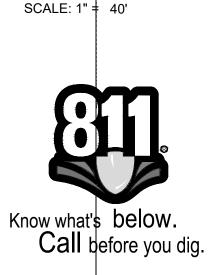
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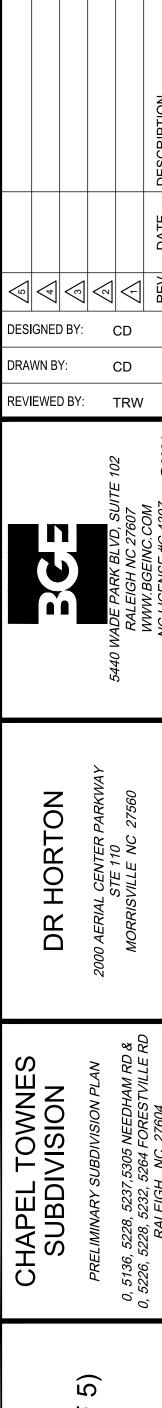


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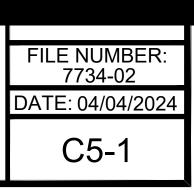
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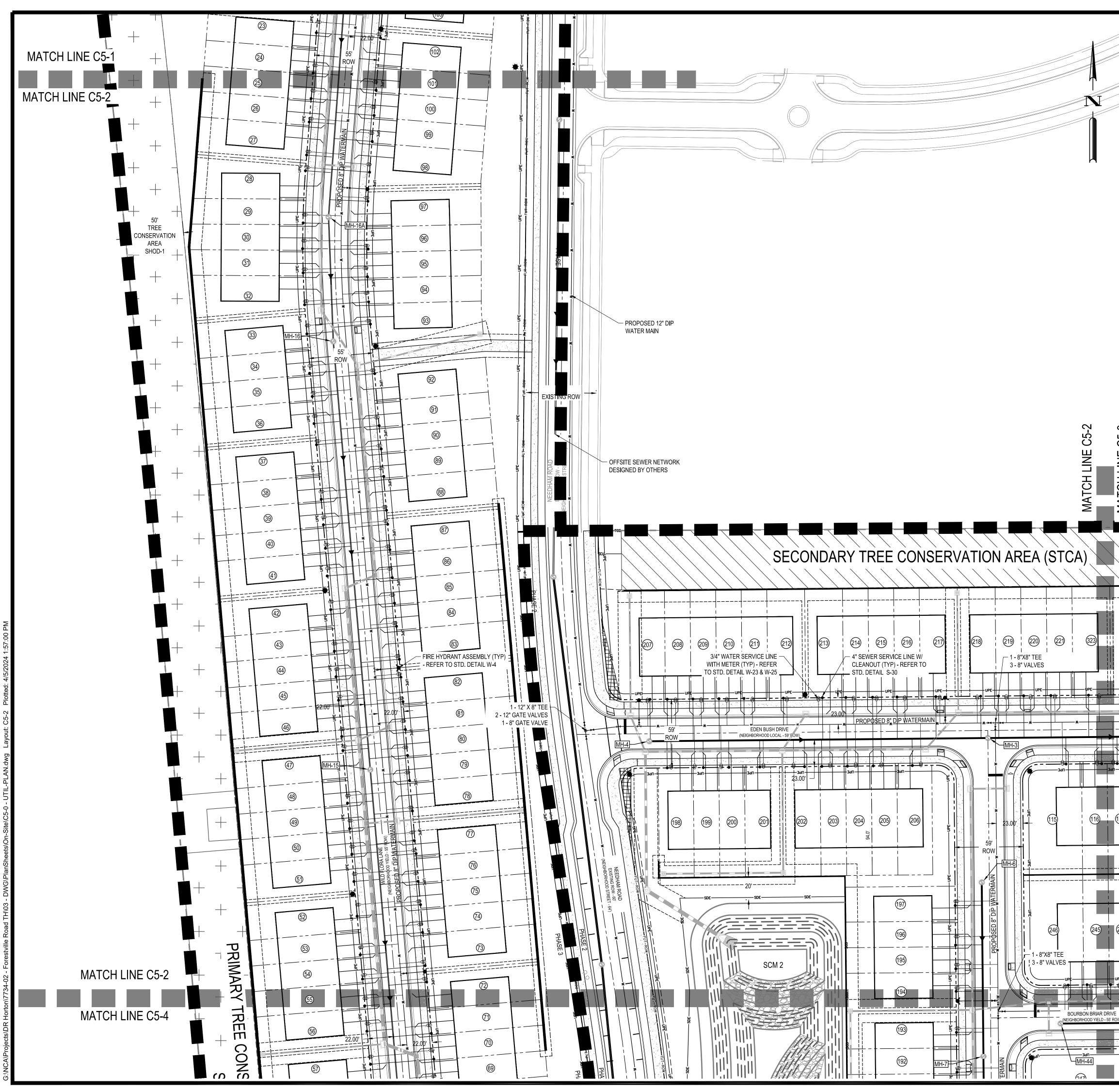
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UTILITY PLAN (1 OF 5





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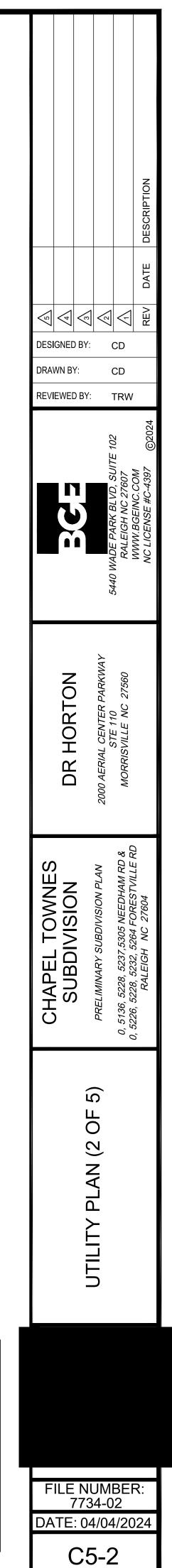
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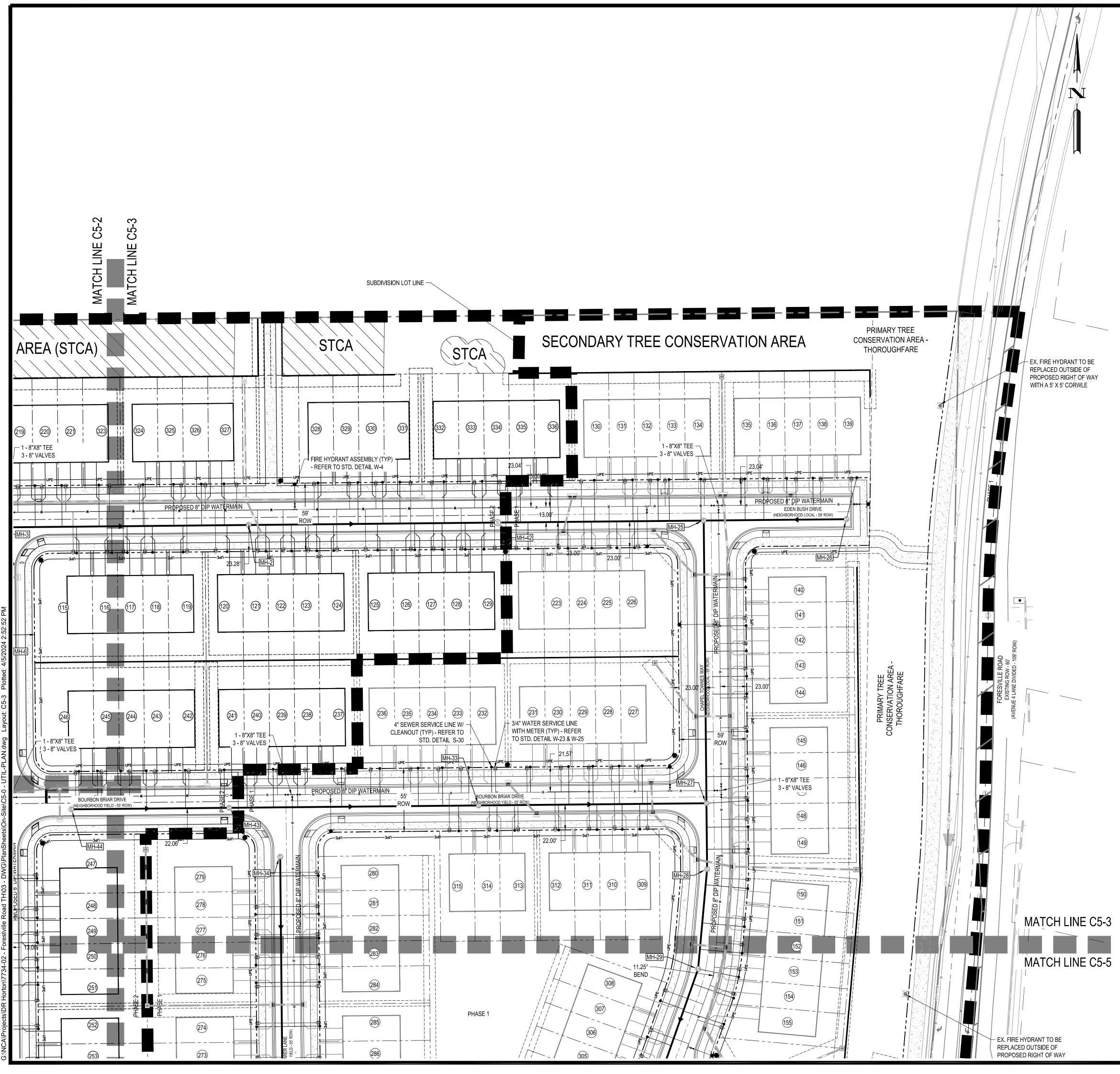
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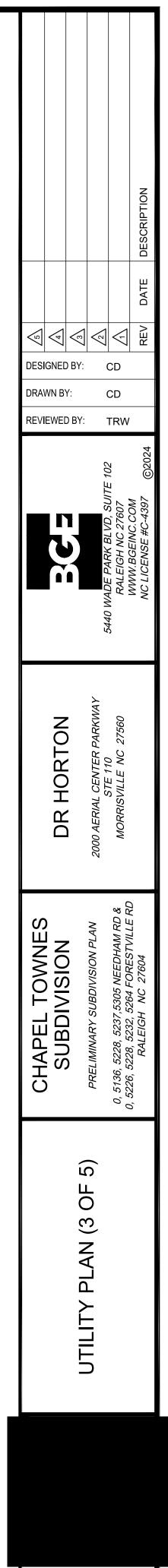
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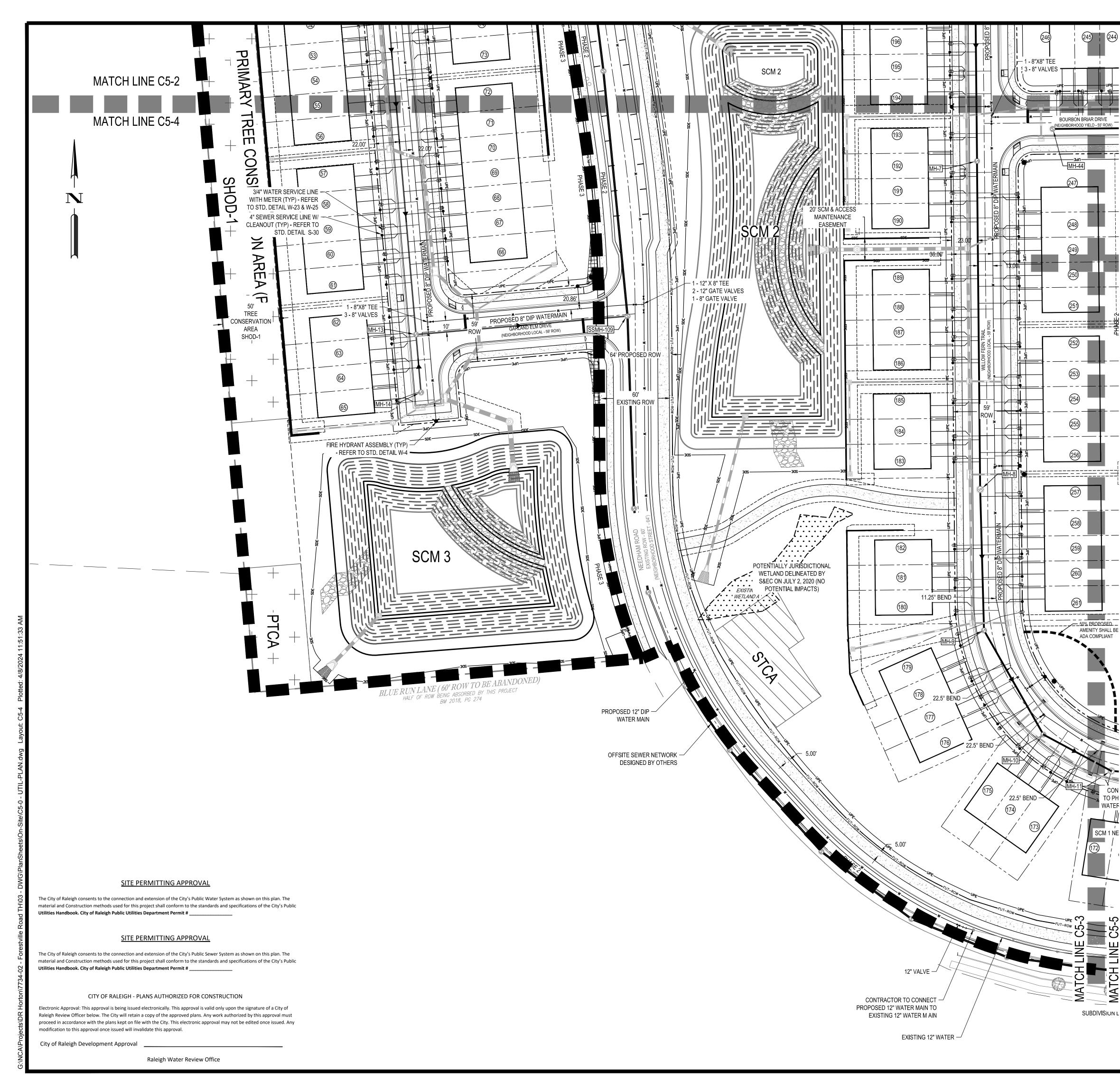


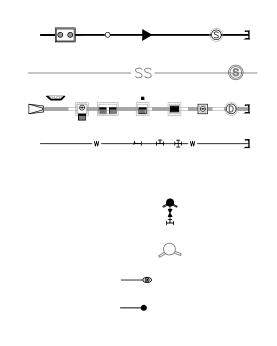
FILE NUMBER:

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DATE: 04/04/2024

C5-3





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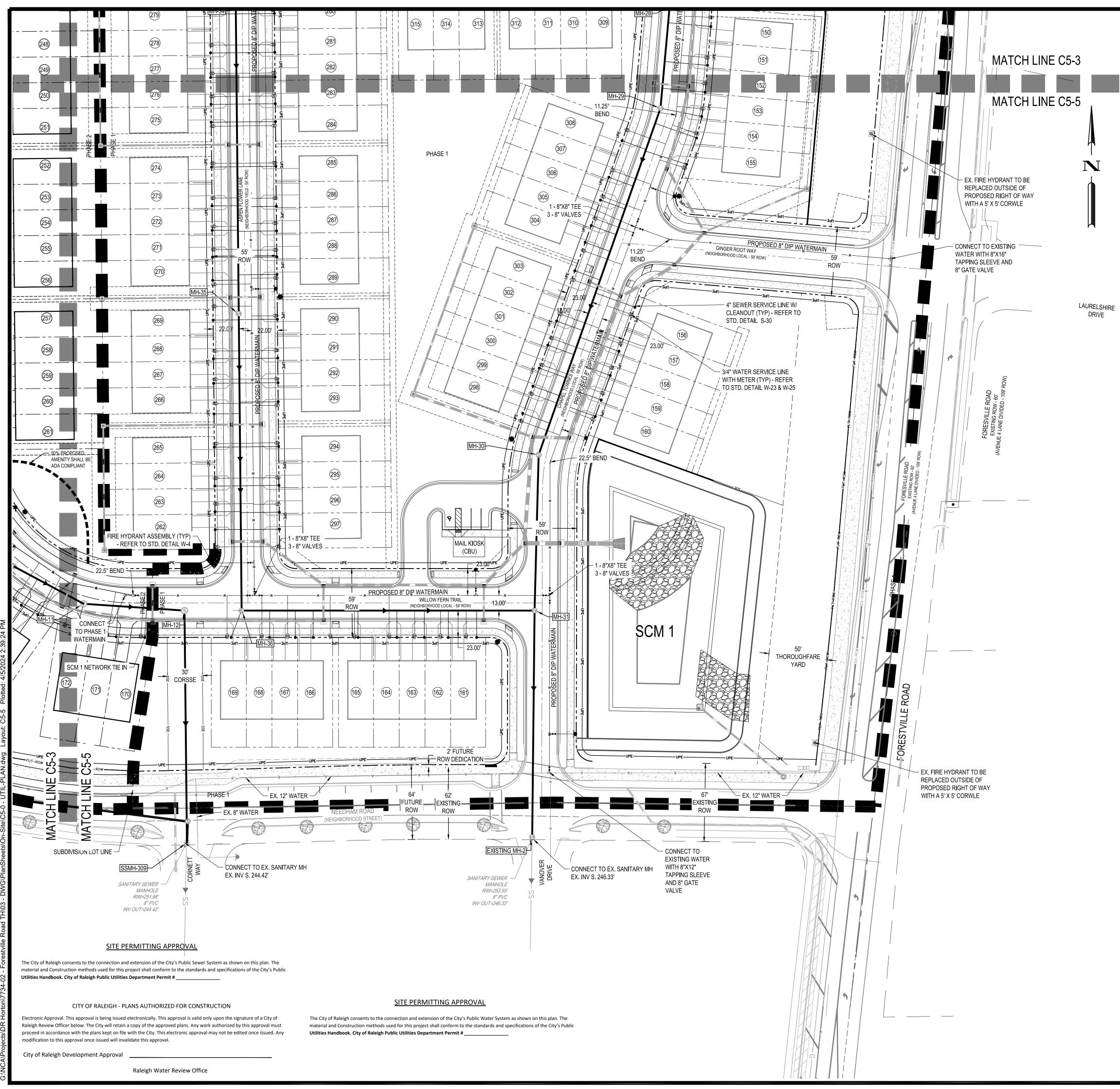


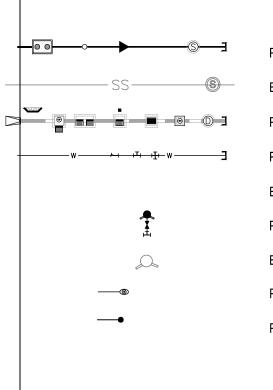
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- CITY OF RALEIGH STANDARDS UNLESS OTHERWISE NOTED. POTABLE WATER MAINS MAXIMUM ALLOWABLE JOINT DEFLECTION IS 5". MINIMUM RADIUS OF DEFLECTION 3. FOR 8" DUCTILE IRON PIPE IS 230 DEGREES. RADII ARE PRODUCED BY A SUCCESSION OF NOMINAL LENGTH
- OF PIPE FULLY DEFLECTED. 4. 8" DIP POTABLE WATER MAIN SHOWED HERE IN TO BE INSTALLED AT MINIMUM 3" DEPTH PER CITY OF RALEIGH STANDARDS.
- MAINTAIN 24' MINIMUM VERTICAL SEPARATION AT ALL SANITARY SEWER AND RCP STORM DRAIN 5. CROSSINGS WHERE ADEQUATE SEPARATION CANNOT BE ACHIEVED. SPECIFY DIP MATERIALS AND A
- CONCRETE CRADLE HAVING 6" MINIMUM CLEARANCE (PER CORPUD DETAIL S-49) 6. CONTRACTOR IS RESPONSIBLE FOR FOLLOWING CITY OF RALEIGH DETAILS W-7 THRU W-11 FOR STANDARD CONCRETE THRUST BLOCKING.
- 7. FOR WATER PIPE INSTALLATION ON A CURVE, JOINTS SHALL BE ASSEMBLED FIRST IN A STRAIGHT LINE. AFTER JOINT ASSEMBLY, PIPE MAY BE DEFLECTED UP TO THE MAXIMUM DEFLECTION ANGLE PER THE 2016 AMERICAN PIPE MANUEL, 20^{1 H} EDITION.

RESIDENTIAL

SCALE: 1" = 40'

Know what's below.

Call before you dig.

- a. FIRE HYDRANT SHALL BE SPACED NOT MORE THAT 600' ALONG NAMED ROADS. ALTERNATE SIDES ON DIVIDED ROADS.
- b. FIRE HYDRANTS SHALL BE AT EVERY NAMED STREET INTERSECTION.
- c. FIRE DEPARTMENT VEHICLE ACCESS SHALL BE WITHIN 90' HOSE LAY OF FDC.
- d. ADDITIONAL FIRE HYDRANTS MAY BE REQUIRED BY FIRE DEPARTMENT.

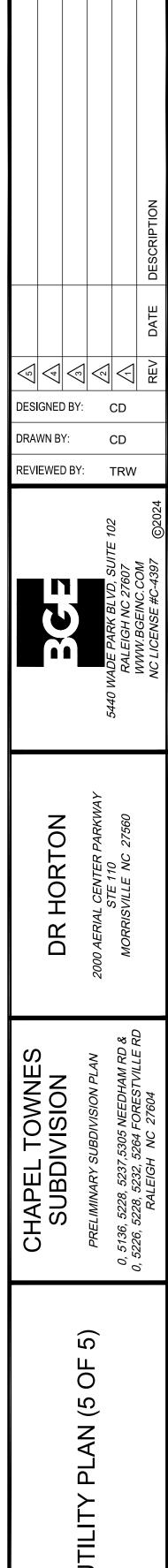
FIRE DEPARTMENT VEHICLE ACCESS

- 1. ALL BUILDINGS AND FACILITIES SHALL REQUIRE FIRE DEPARTMENT VEHICLE ACCESS COMPLYING WITH NORTH CAROLINA FIRE PREVENTION CODE (NCFPC), CHAPTER 5, AND ALL COR GUIDES AND HANDBOOKS. SOME EXAMPLES ARE SHOWN IN APPENDIX D OF NCFPC.
- MINIMUM UNOBSTRUCTED STREET WIDTH OF 20 FEET (BACK TO BACK CURB) MUST BE MAINTAINED THE ENTIRE TRAVEL ROUTS OF THE FIRE TRUCK. ENTRANCES, GATED ENTRANCES ISLANDS, AND TRAFIC CIRCLE\$ ARE OF SPECIAL CONCERN. SEE ALTERNATIVE ACCESS FOR ENTRIES WITH GUARD SHACKS (FP-29)
- MINIMU∯ INSIDE TURNING RADIUS OF 28 FEET MUST BE MAINTAINED THROUGHOUT THE SITE PLAN FOR ANY ACCESS LANES THAT WOULD COMMONLY BE USED BY FIRE APPARATUS.
- 4. FIRE DEPARTMENT ACCESS LANES MUST ALLOW FIRE APPARATUS TO DRIVE WITHIN 150 FEET OF ALL PORTIONS OF THE FIRST FLOOR. BUILDINGS THAT DO NOT COMPLY SHALL BE REQUIRED TO INSTALL FIRE SPRINKLERS (SEE TECHNICAL BULLETIN 12).

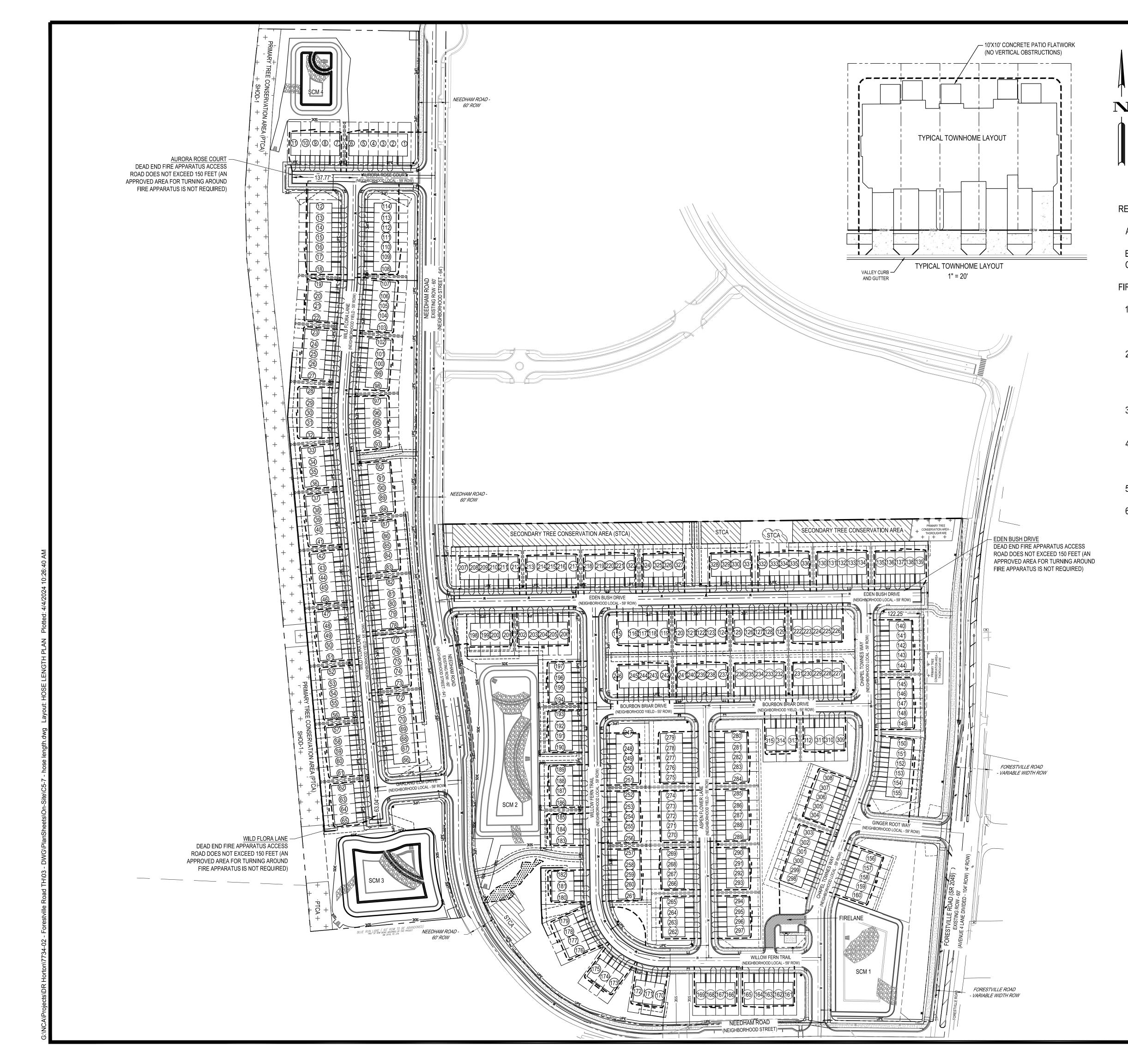


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FILE NUMBER: 7734-02	
DATE: 04/04/2024	
C5-5	



LEGEND

RESIDENTIAL

- A. FIRE HYDRANT SHALL BE SPACED NOT MORE THAN 600' ALONG NAMED ROADS. ALTERNATE SIDES ON DIVIDED ROADS.
- B. FIRE HYDRANTS SHALL BE AT EVERY NAMED STREET.
- C. ADDITIONAL FIRE HYDRANTS MAY BE REQUIRED BY FIRE DEPARTMENT.

FIRE DEPARTMENT VEHICLE ACCESS

- 1. ALL BUILDINGS AND FACILITIES SHALL REQUIRE FIRE DEPARTMENT VEHICLE ACCESS COMPLYING WITH NORTH CAROLINA FIRE PREVENTION (NCFPC), CHAPTER 5, AND ALL COR GUIDES AND HANDBOOKS. SOME EXAMPLES ARE SHOWN IN APPENDIX D OF NCFPC.
- 2. MINIMUM UNOBSTRUCTED STREET WIDTH OF 20 FEET (BACK TO BACK CURB) MUST BE MAINTAINED THE ENTIRE TRAVEL ROUTS OF THE FIRE TRUCK. ENTRANCES, GATED ENTRANCES, ISLANDS AND TRAFFIC CIRCLES ARE OF SPECIAL CONCERN. SEE ALTERNATIVE ACCESS FOR ENTRIES WITH GUARD SHACKS (FP-29).
- 3. MINIMUM INSIDE TURNING RADIUS OF 28 FEET MUST BE MAINTAINED THROUGHOUT THE SITE PLAN FOR ANY ACCESS LANES THAT WOULD COMMONLY BE SUED BY FIRE APPARATUS.
- 4. FIRE DEPARTMENT ACCESS LANES MUST ALLOW FIRE APPARATUS TO DRIVE 150 FEET OF ALL PORTIONS OF THE FIRST FLOOR. BUILDINGS THAT DO NOT COMPLY SHALL BE REQUIRED TO INSTALL FIRE SPRINKLERS (SEE TECH BULLETIN 12).
- 5. DEAD END STREETS AND ACCESS LANES 150 FEET OR MORE SHALL HAVE AN APPROVED FIRE APPARATUS TURN-A-ROUND PROVIDED.
- 6. APPARATUS ACCESS ROAD GRADE SHALL NOT EXCEED 12 PERCENT IN GRADE, EXCEPT AS APPROVED BY THE FIRE CHIEF (PROHIBIT USE OF DRIVING ON GRAVEL)

ATTENTION CONTRACTORS

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Š	5440 WADE PARK BLVD, SU RALEIGH NC 27607 WWW.BGEINC.COM NC LICENSE #C-4397
	MORRISVILLE NC 27560
CHAPEL TOWNES SUBDIVISION PRELIMINARY SUBDIVISION PLAN	0, 5136, 5228, 5237,5305 NEEDHAM RD & 0, 5226, 5228, 5232, 5264 FORESTVILLE RD RALEIGH NC 27604
HOSE LENGTH PLAN	
FILE NUI	MBER:

DATE: 04/04/2024

C5-6

DESIGNED BY: CD

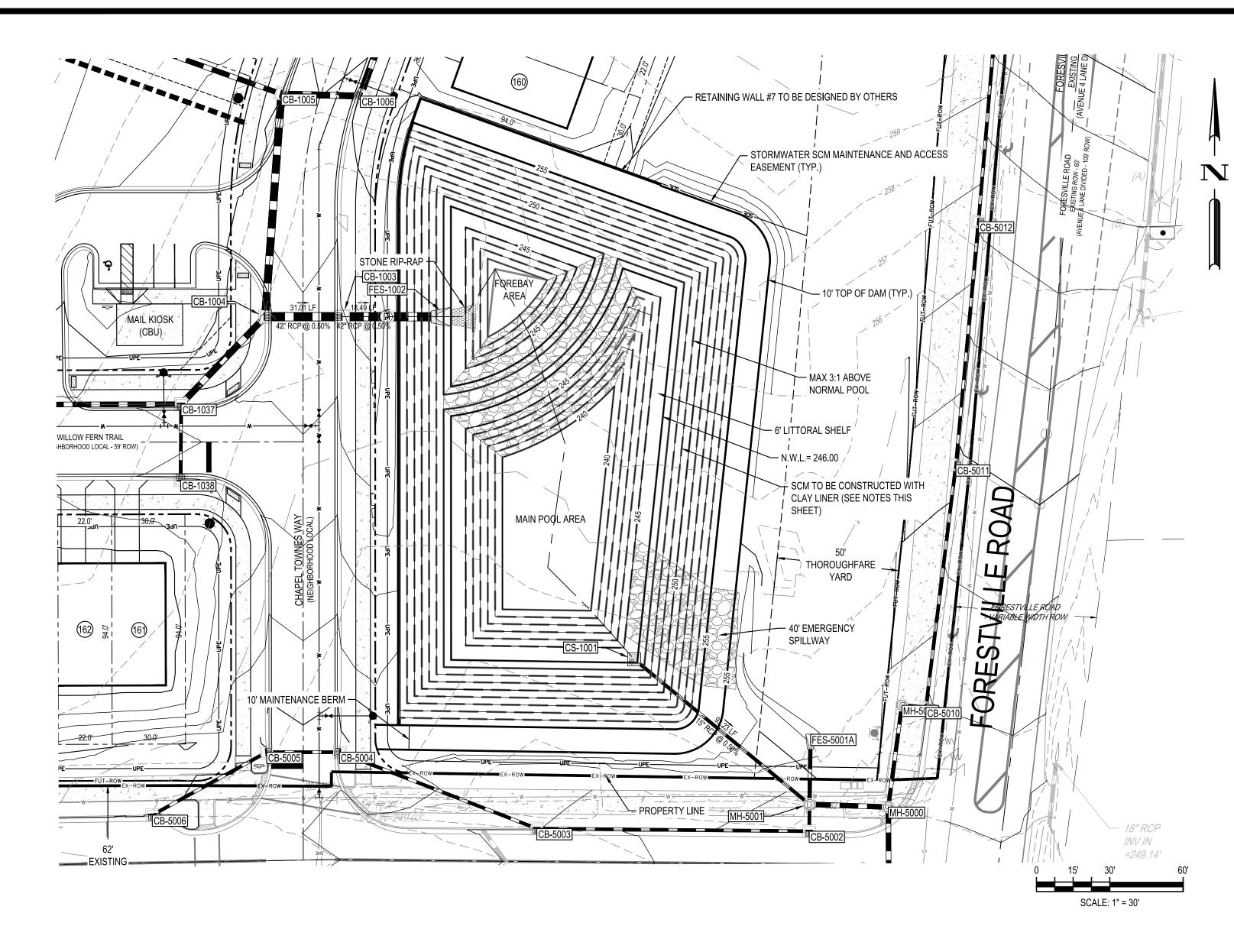
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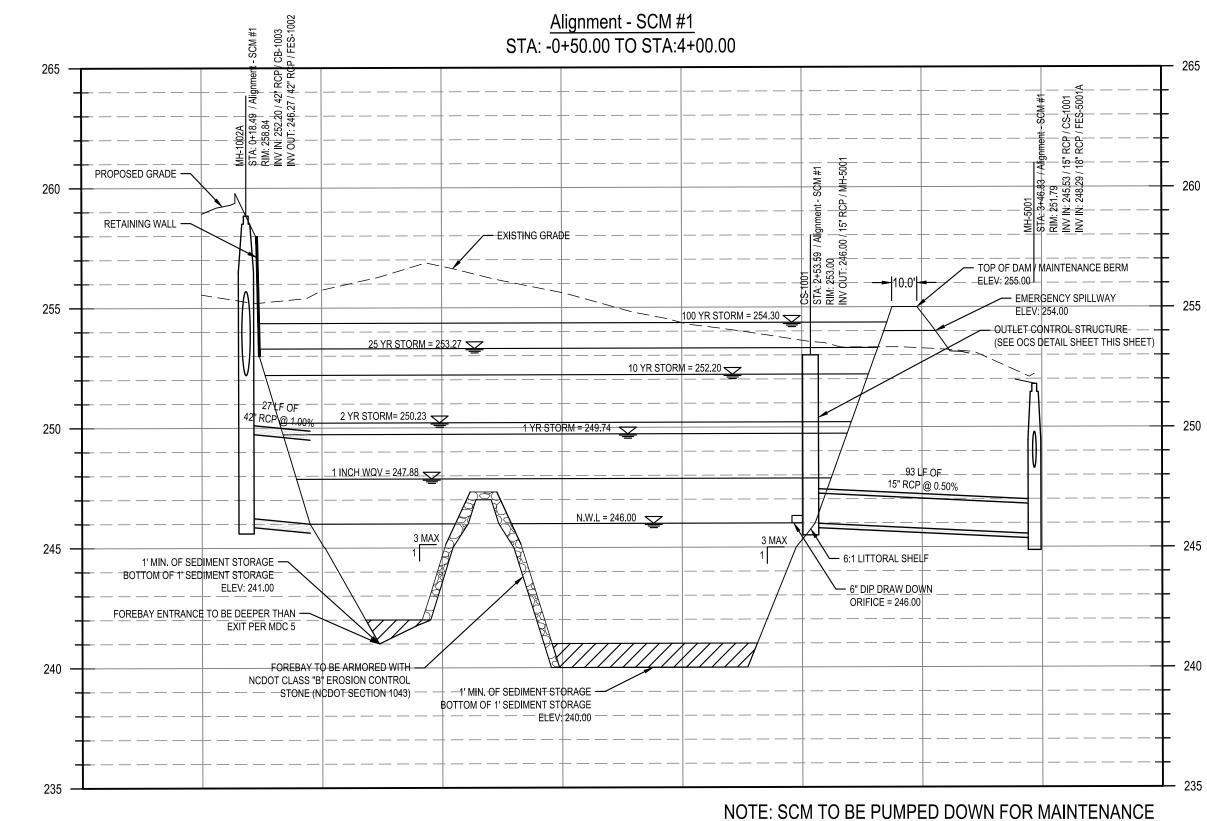
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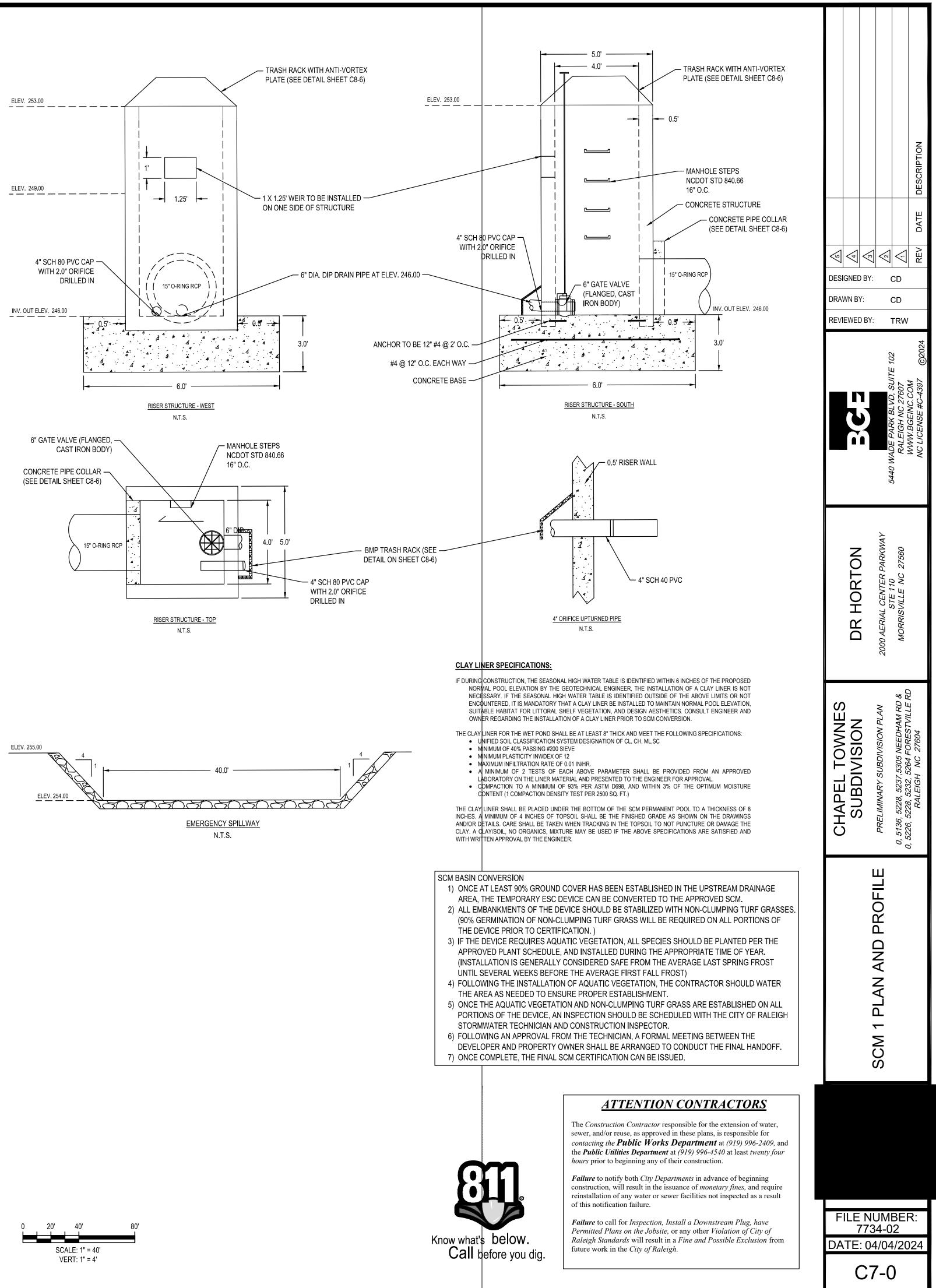
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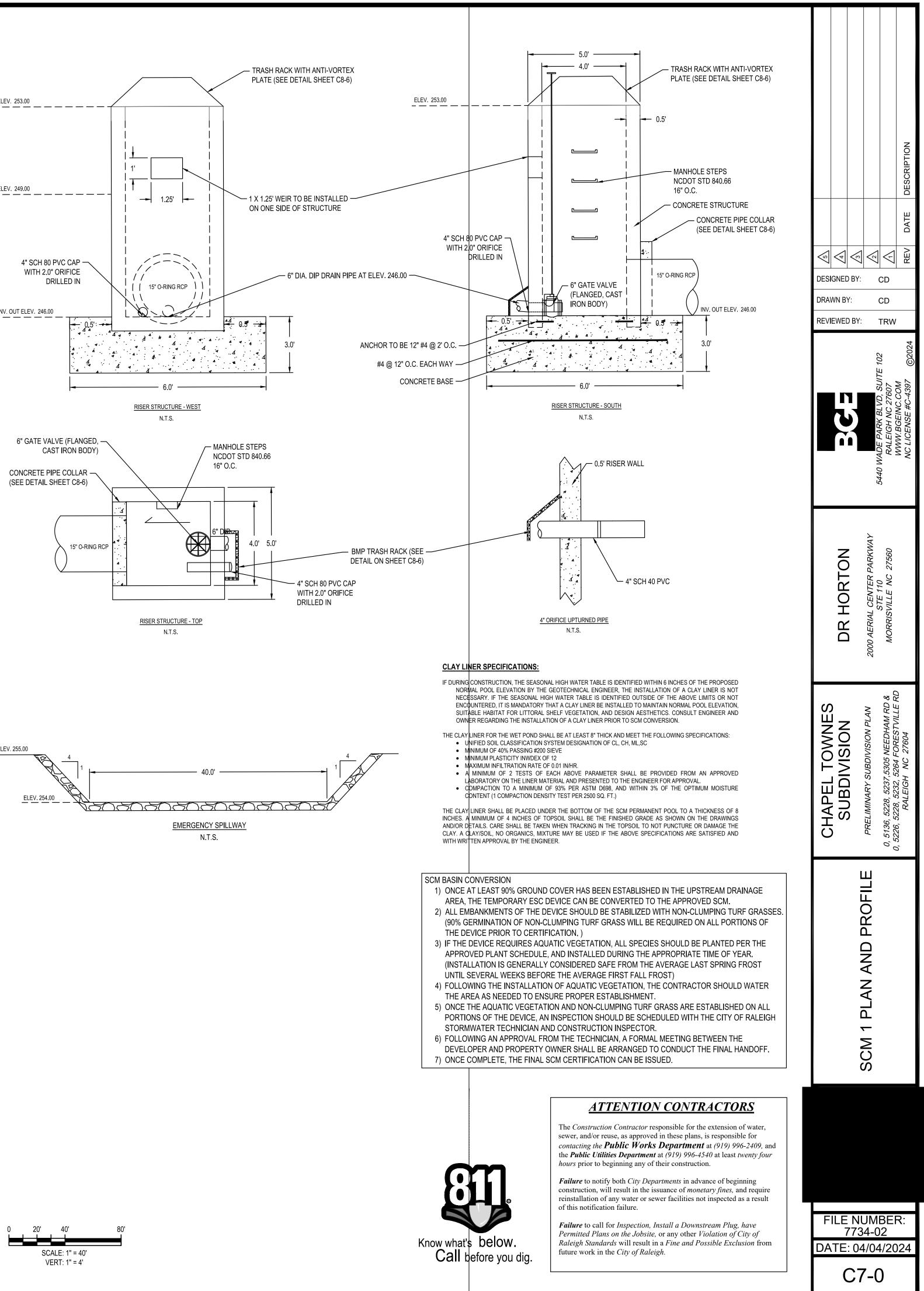


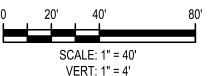
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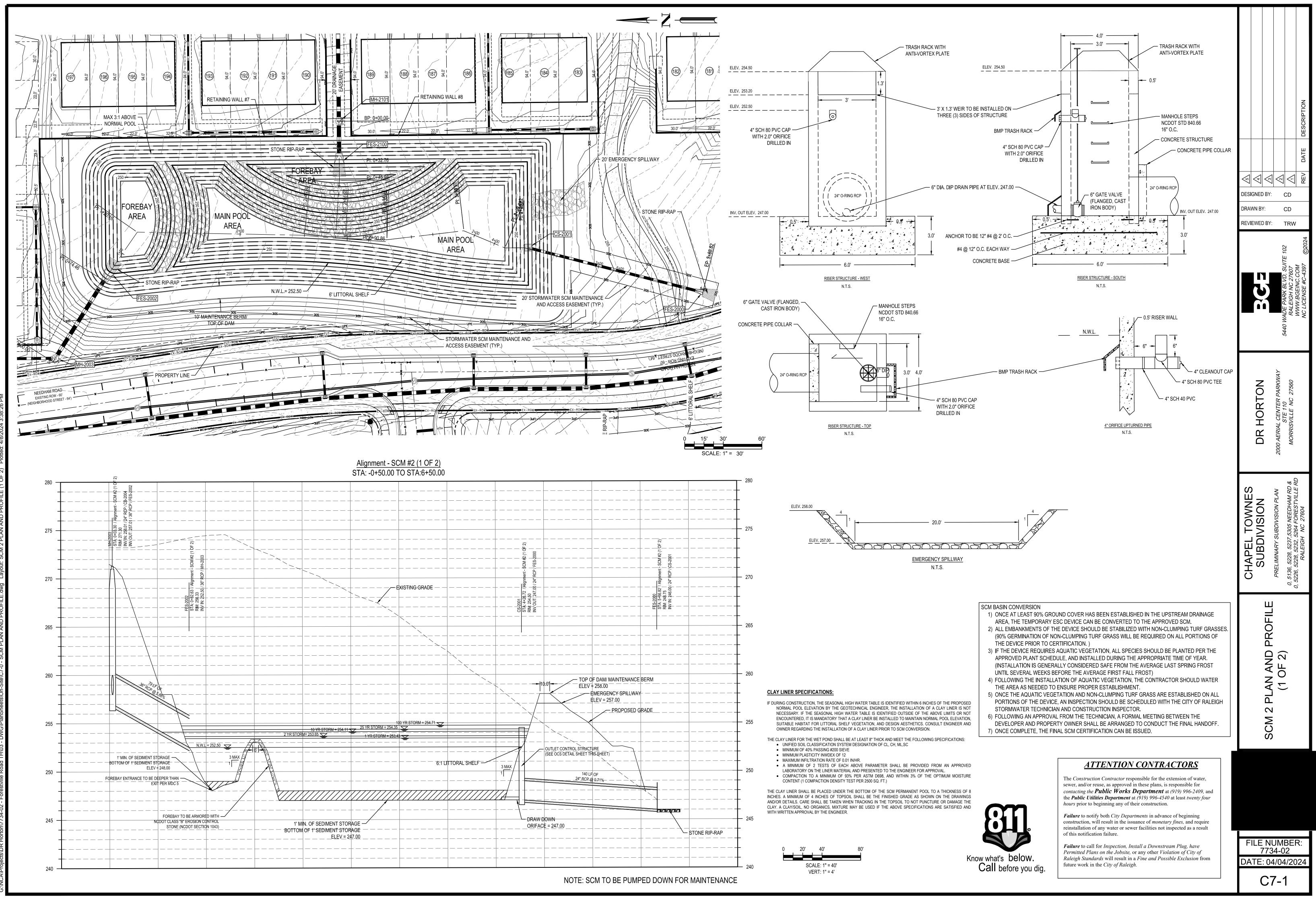


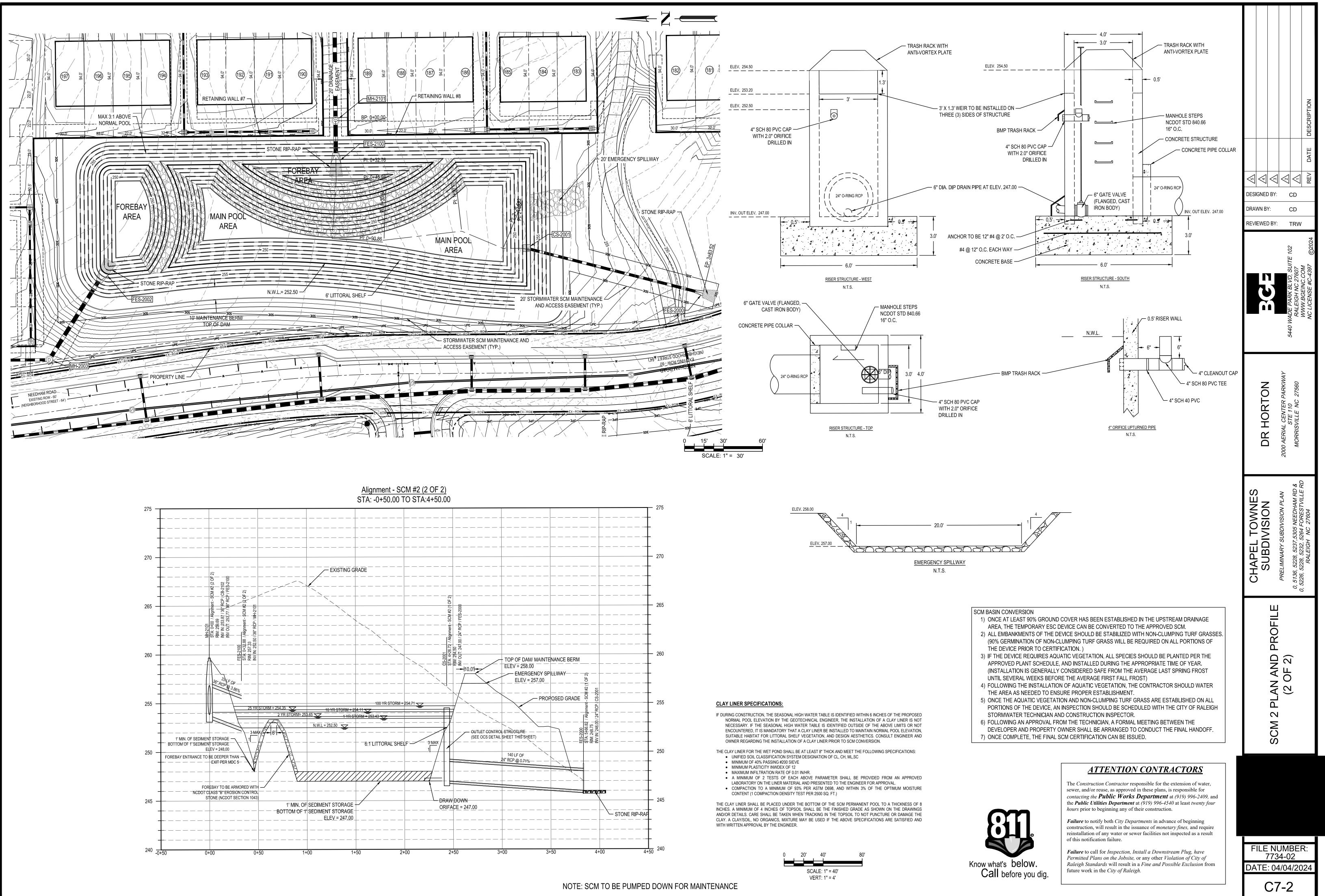


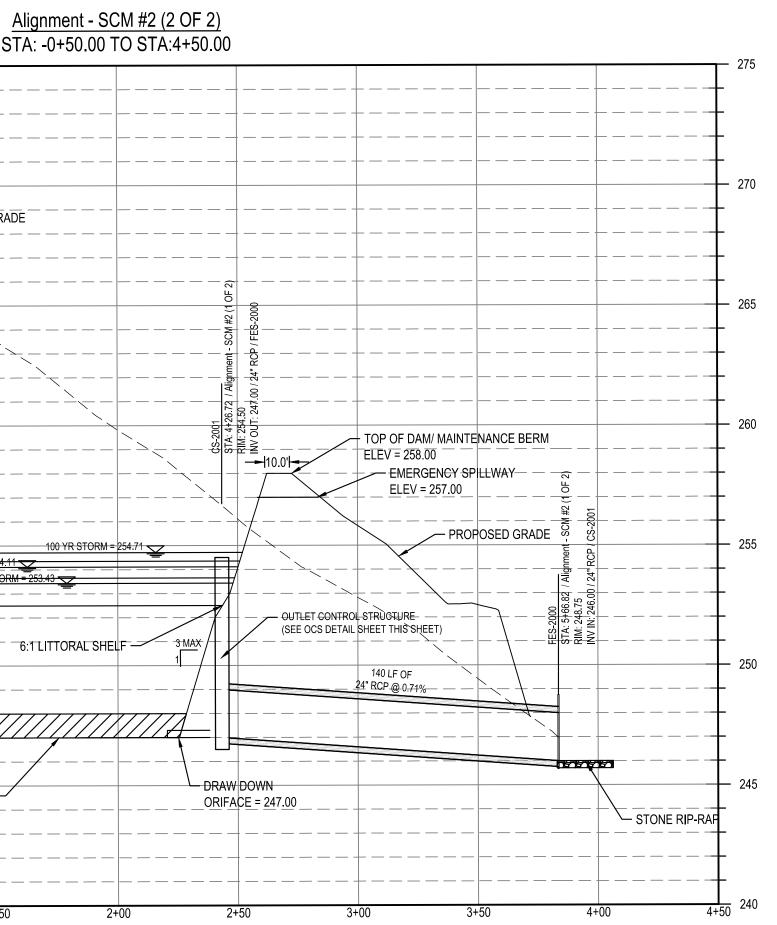


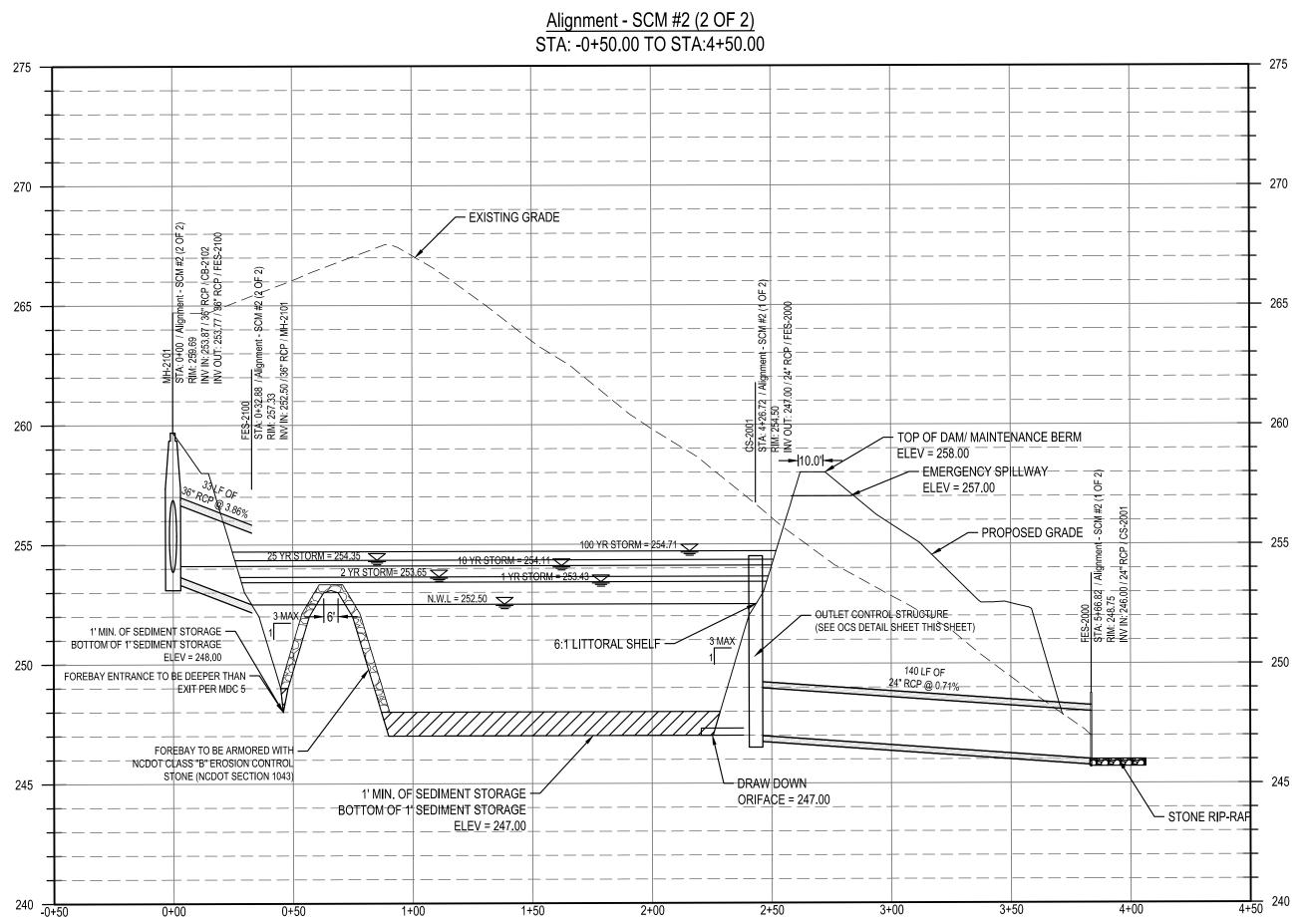


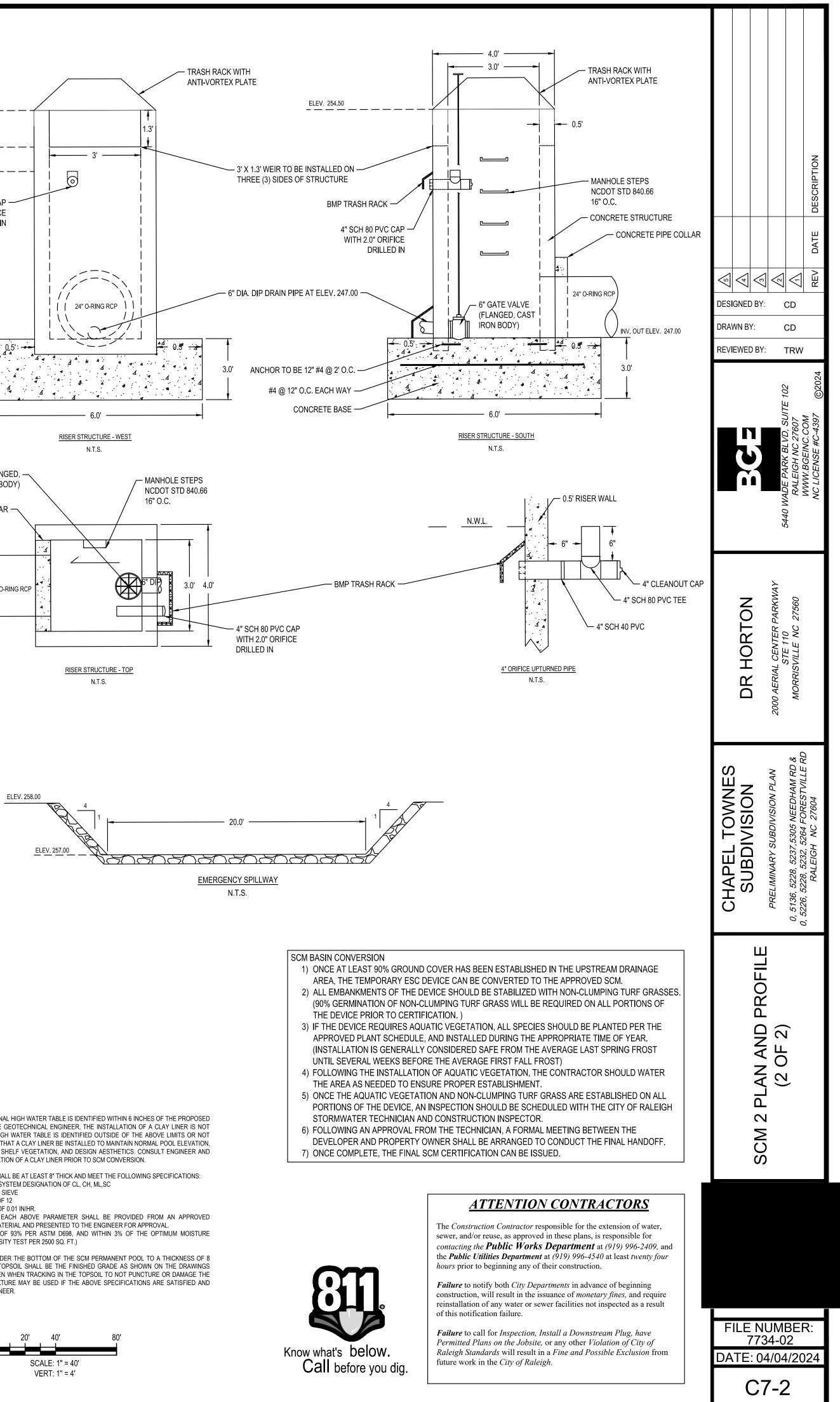


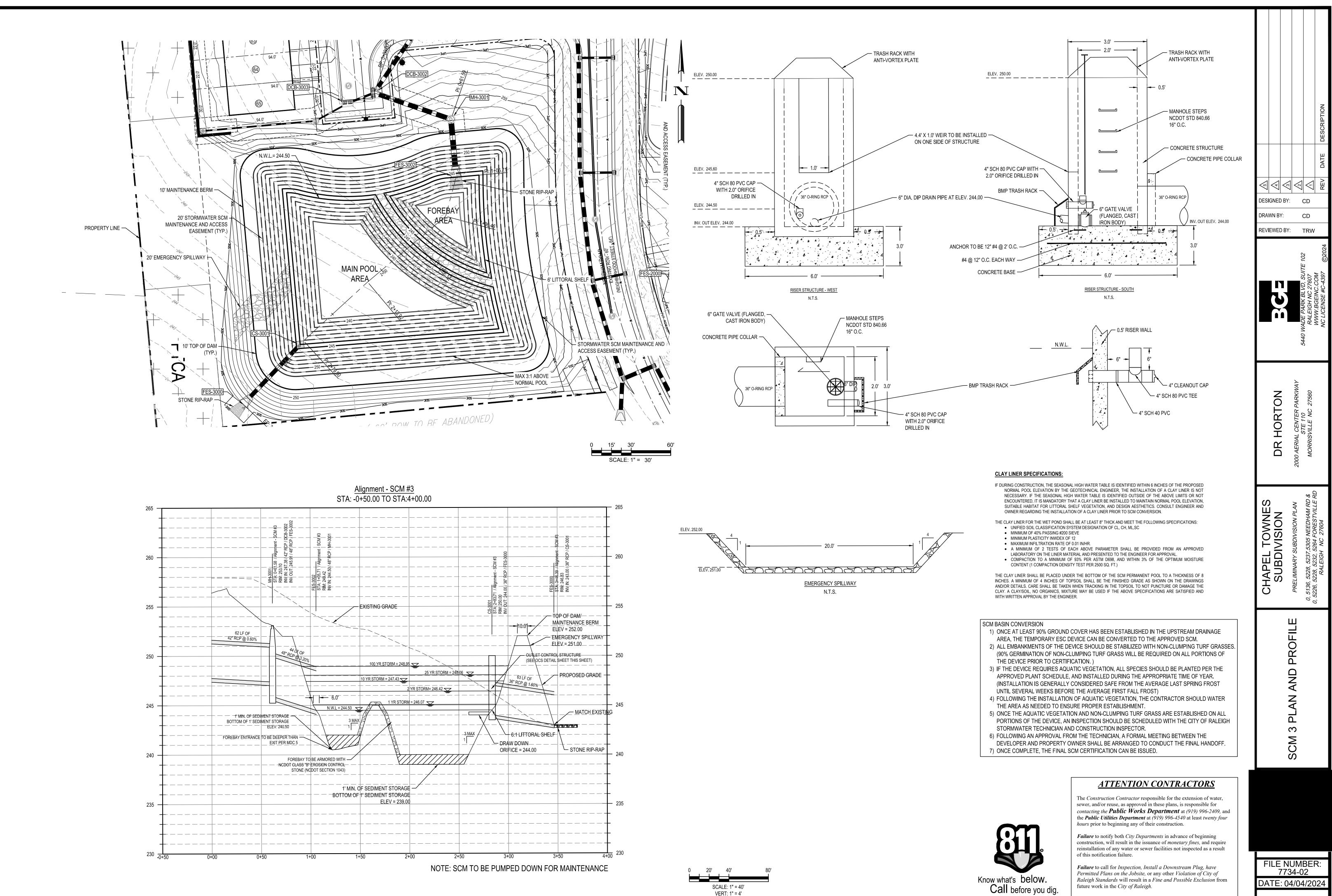


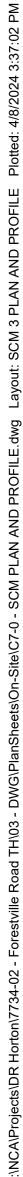


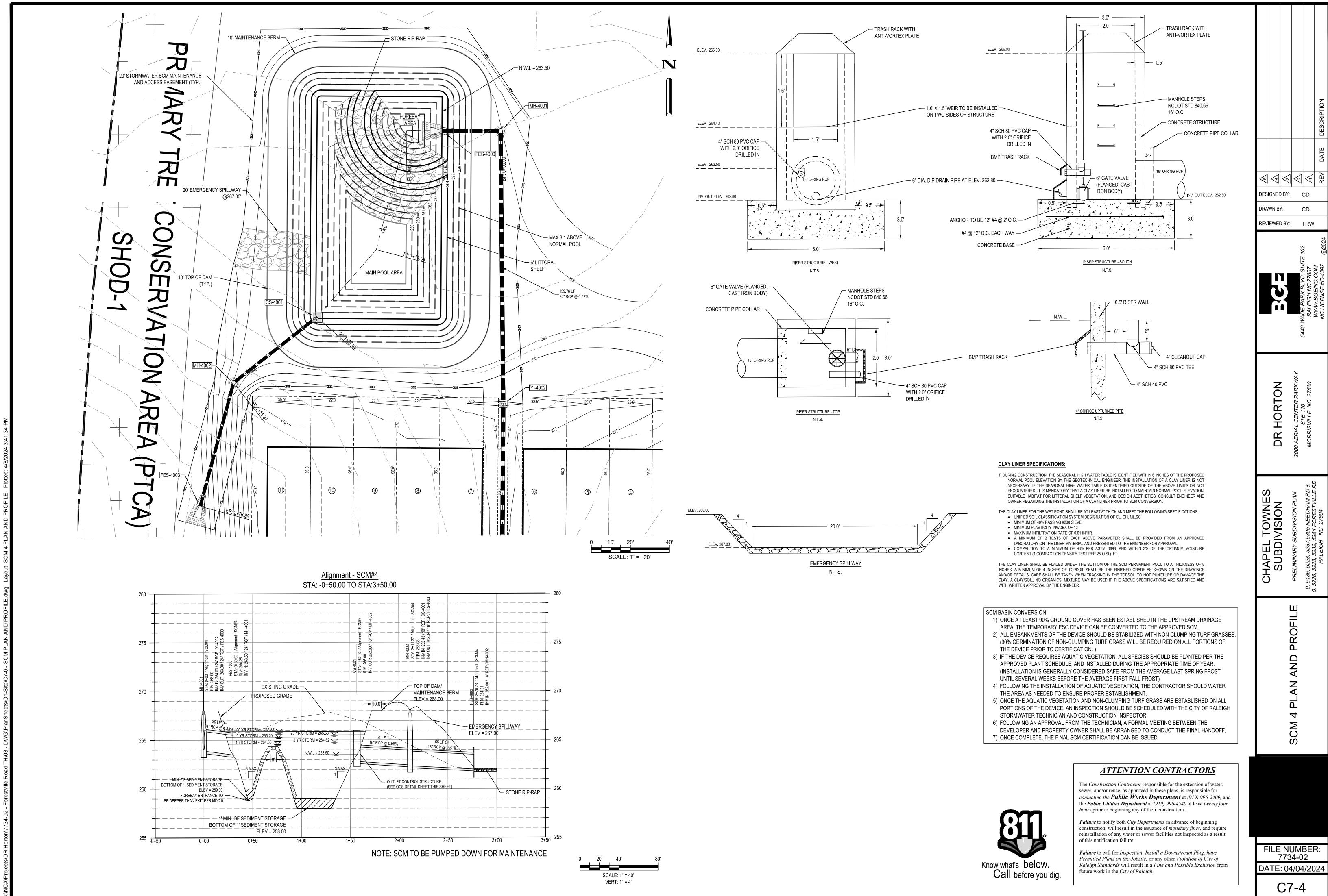


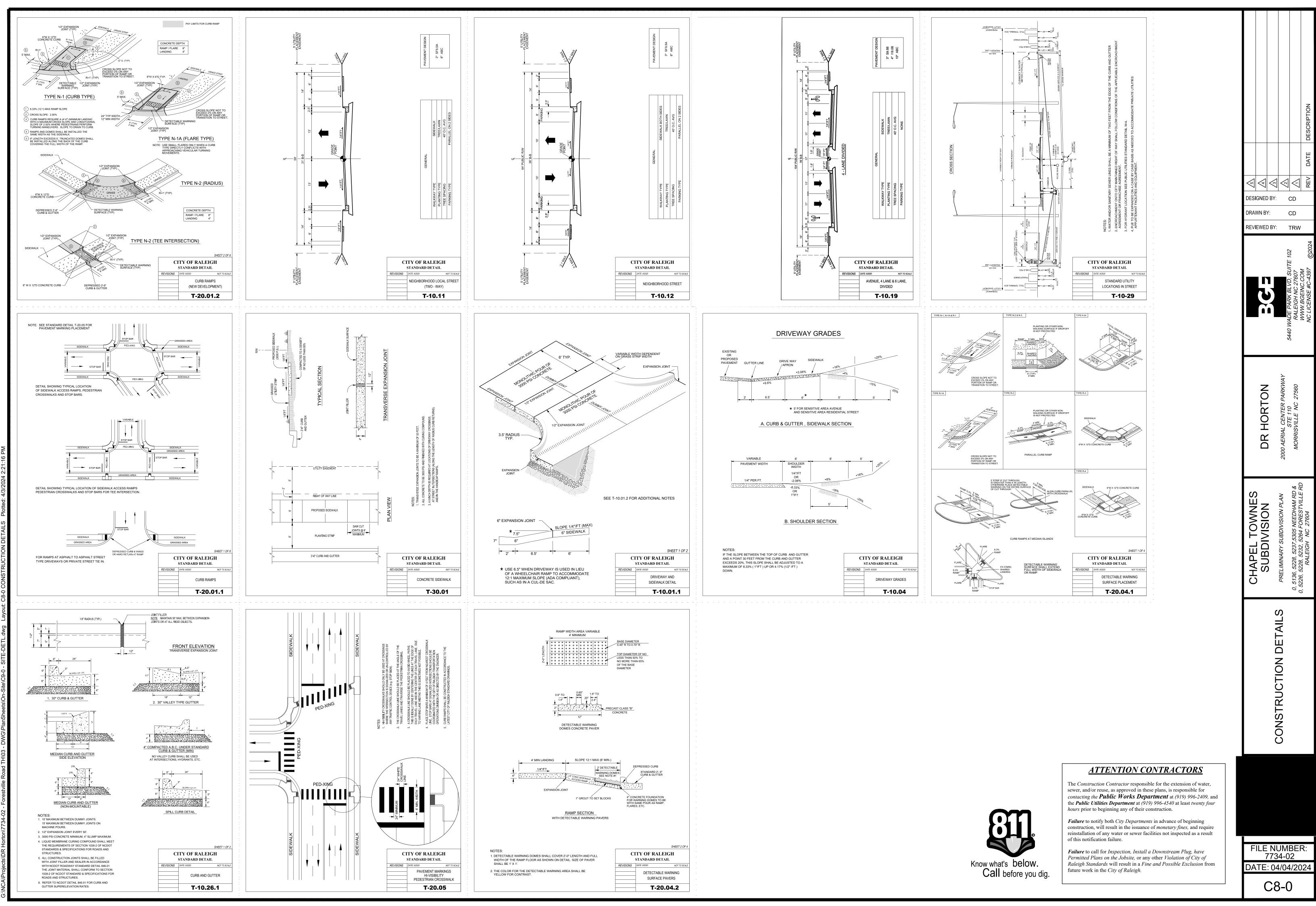


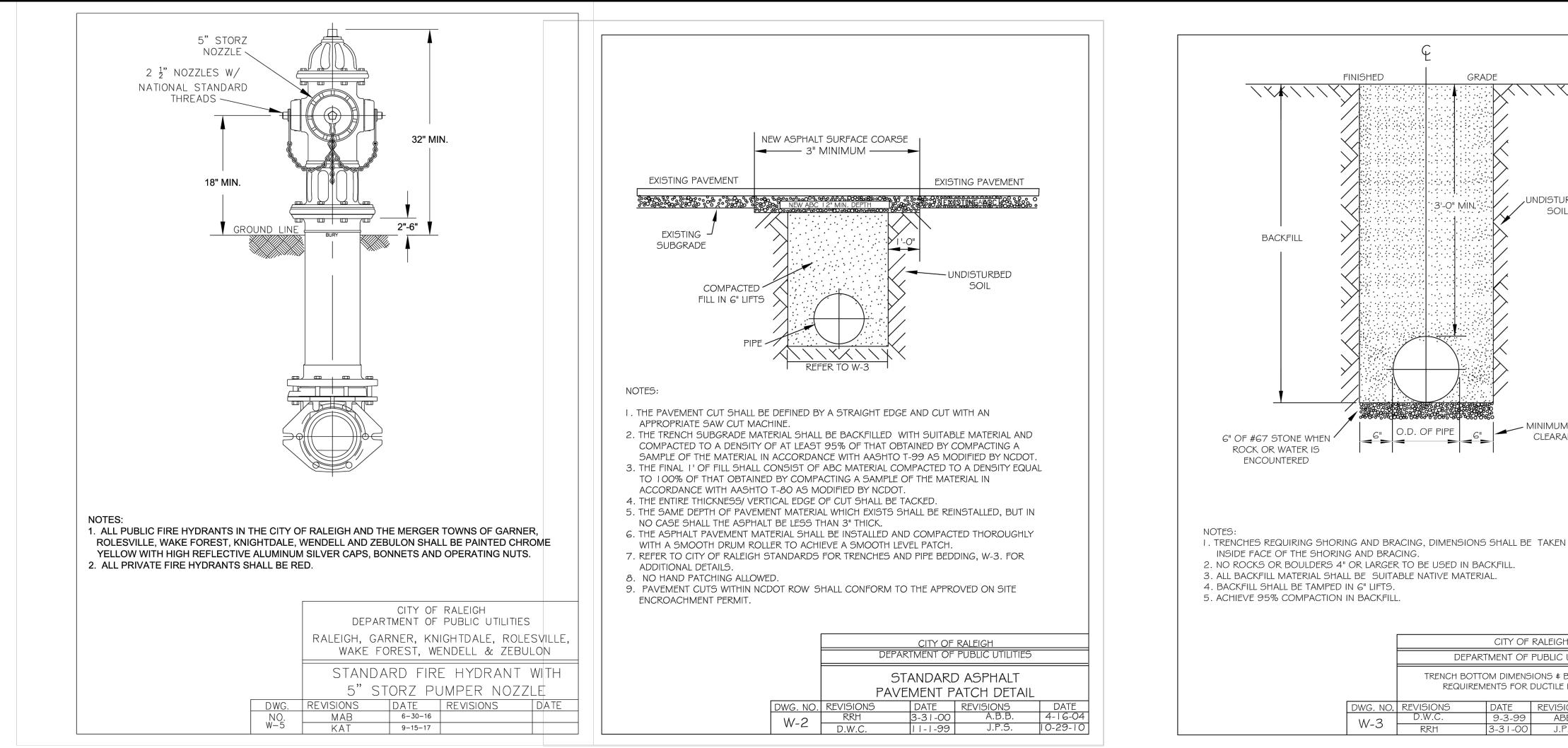


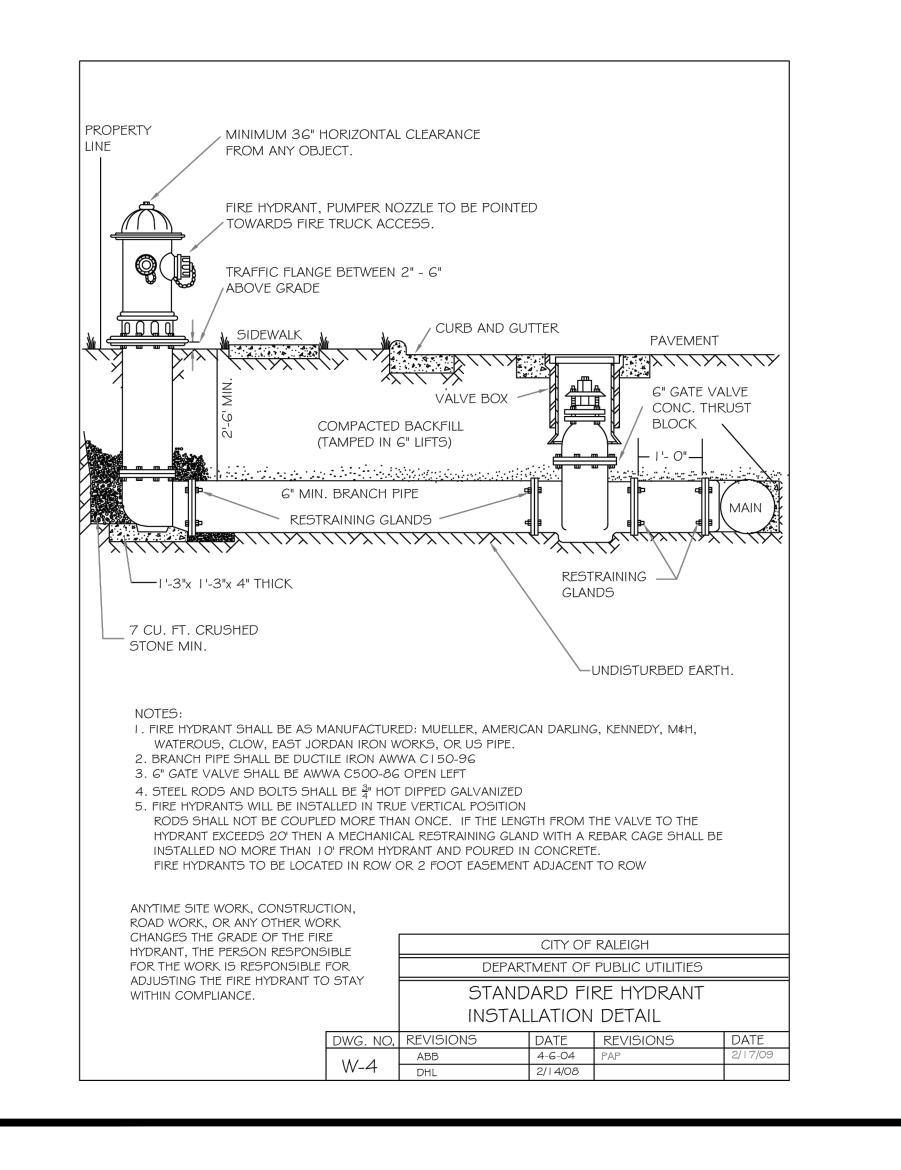




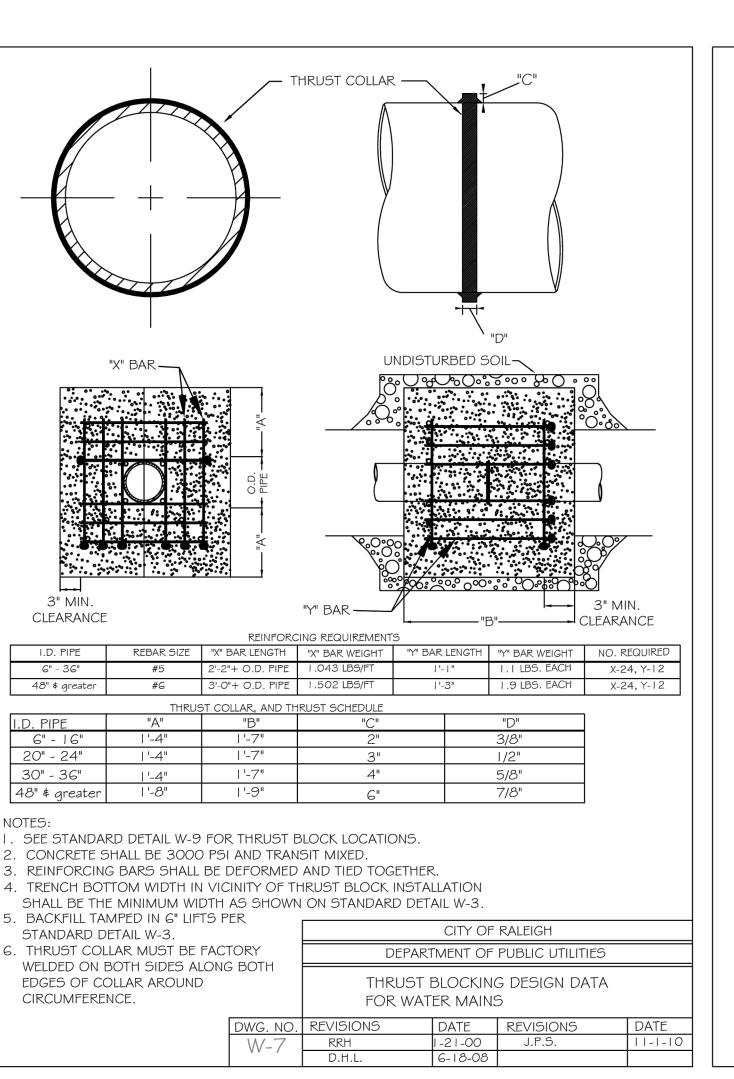


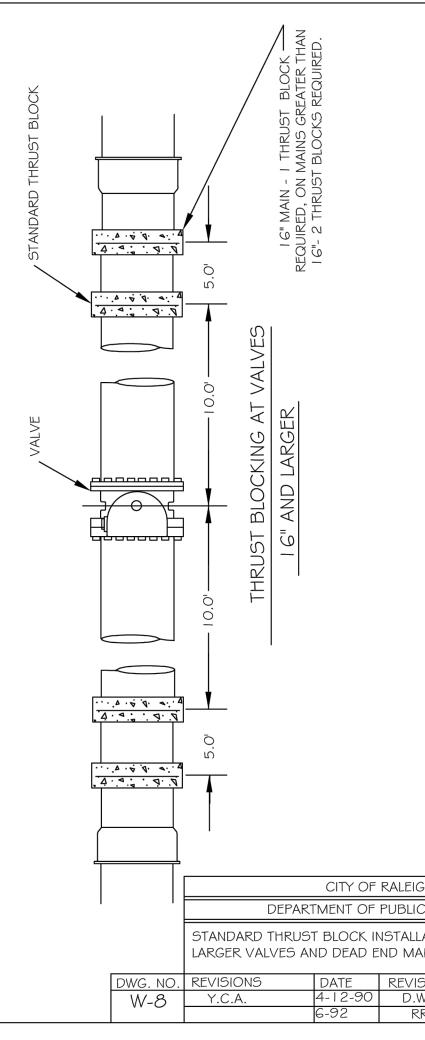




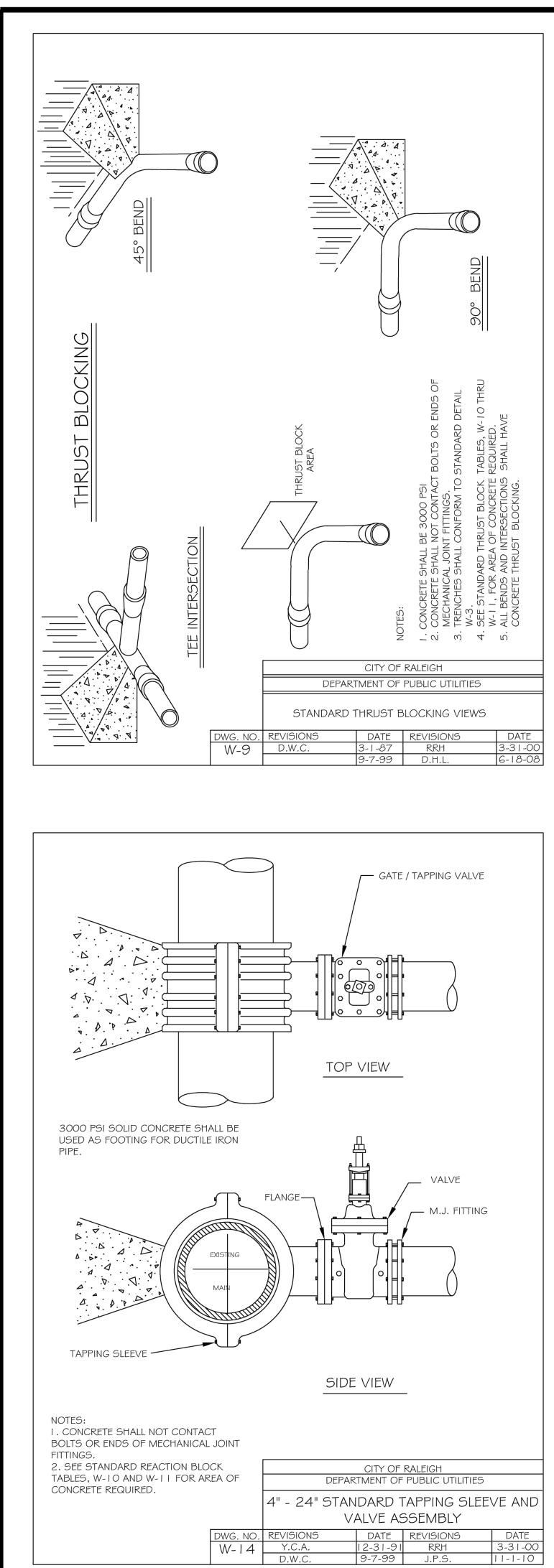


:\NCA\Projects\DR Horton\7734-02 - Forestville Road TH\03 - DWG\PlanSheets\On-Site\C9-2 - UTIL-DETL.dwg Layout: UTILITY DETAILS (1 OF 5) Plotted: 4/3/2024 2:21:26 PM





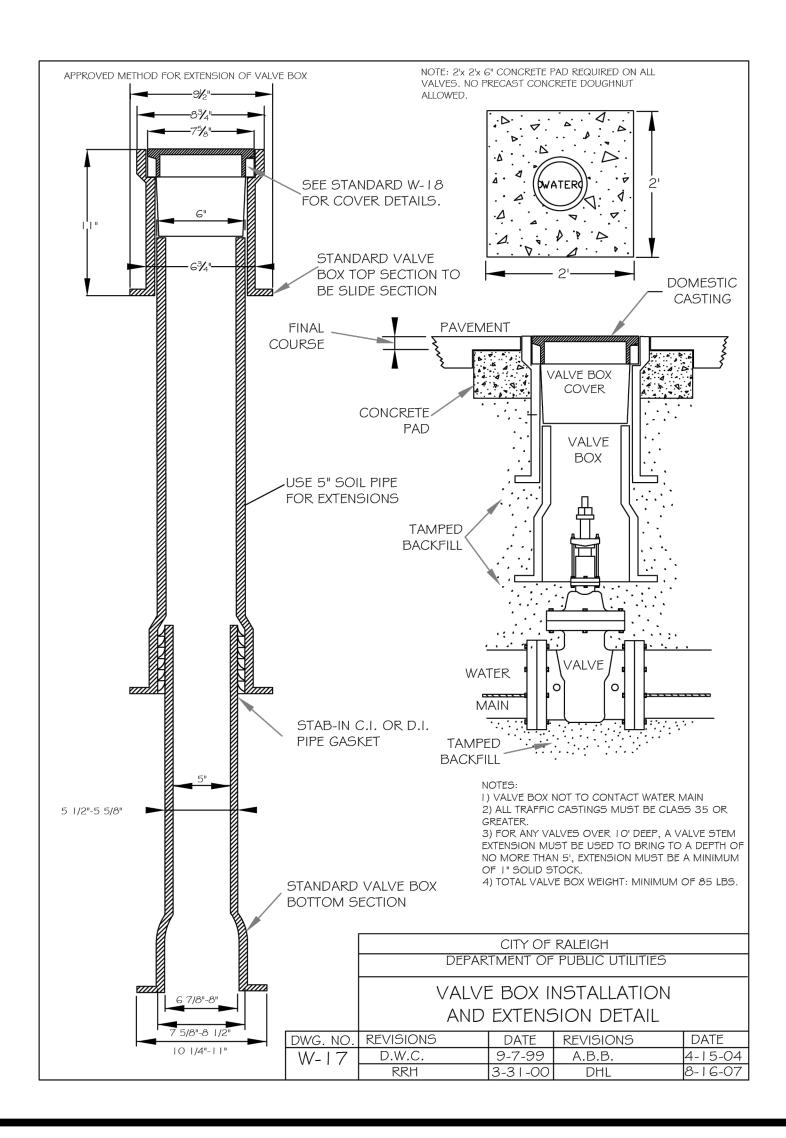
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			DESIGNED DRAWN B		CD CD REV DATE
JM SIDE RANCE			REVIEWED		5440 WADE PARK BL VD, SUITE 102 H RALEIGH NC 27607 & X WWW.BGEINC.COM NC LICENSE #C-4397 ©2024
EN FROM THE					5440 WAUE RA WM NC I
GH IC UTILITIES # BACKFILLING LE IRON ISIONS DATE ABB 2-15-05 J.P.S. 10-29-10			DR HORTON	2000 AERIAL CENTER PARKWAY	STE 110 MORRISVILLE NC 27560
			CHAPEL TOWNES	PRELIMINARY SUBDIVISION PLAN	0, 5136, 5228, 5237,5305 NEEDHAM RD & 0, 5226, 5228, 5232, 5264 FORESTVILLE RD RALEIGH NC 27604
				UTILITY DETAILS (1 OF 5)	
EIGH LIC UTILITIES ALLATION FOR I G" AND MAINS VISIONS DATE D.W.C. 9-7-99 RRH 3-31-00	Know what's below. Call before you dig.	 ATTENTION CONTRACTORS The Construction Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Works Department at (919) 996-2409, and the Public Utilities Department at (919) 996-4540 at least twenty four hours prior to beginning any of their construction. Failure to notify both City Departments in advance of beginning construction, will result in the issuance of monetary fines, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure. Failure to call for Inspection, Install a Downstream Plug, have Permitted Plans on the Jobsite, or any other Violation of City of Raleigh Standards will result in a Fine and Possible Exclusion from future work in the City of Raleigh. 	7 DATE	734-0	4/2024

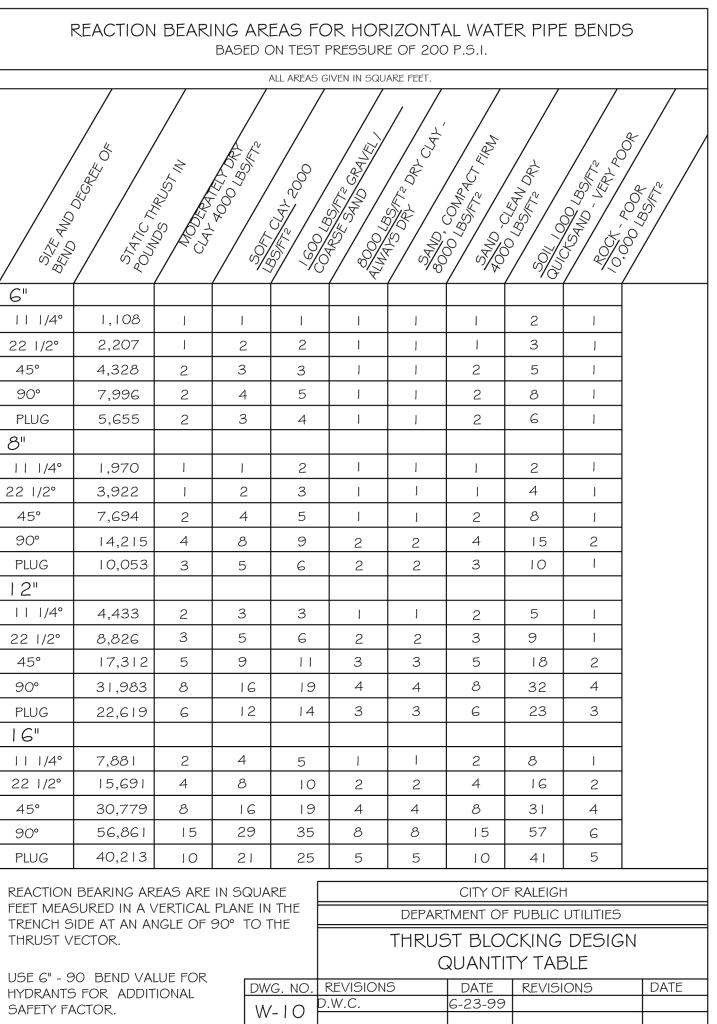


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SIZE AND	STAT.
/4°	1,108
22 I/2°	2,207
45°	4,328
90°	7,996
PLUG	5,655
8"	
/4°	1,970
22 I/2°	3,922
45°	7,694
90°	14,21
PLUG	10,05
12"	
/4°	4,433
22 I/2°	8,826
45°	17,31
90°	31,98
PLUG	22,61
16"	
/4°	7,881
22 I/2°	15,69
45°	30,77
90°	56,86
PLUG	40,21

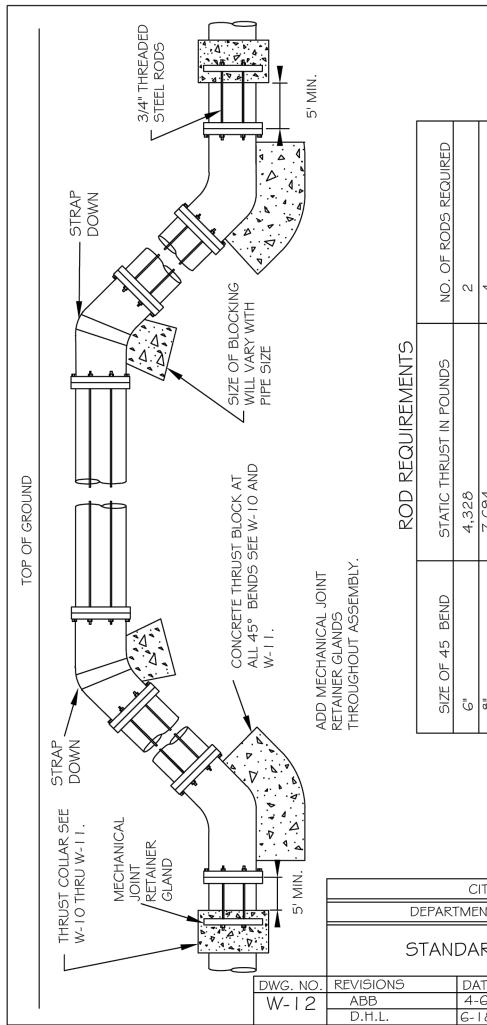
THRUST VECTOR.

HYDRANTS FOR ADDITIONAL SAFETY FACTOR.





6-23-99



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50,775 69,252	ADT DI JE USEI ED ON		RAWN B		CD TR	
24"	CENERAL NOTES: 1. STEEL RODS AND BOLTS SHALL BE 34" HOT DIPPED GALVANIZED. 2. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL JOINT BENDS. 3. RESTANED MACHANICAL GLANDS TO BE USED AT ALL TITTINGS. 4. MUST USE DUCTILE IRON PRE BOLTS WHERE NECESSARY. 5. 3' MINIMUM COVER MUST BE MAINTAINED ON ALL WATER MAINS			ッ	5440 WADE PARK BLVD, SUITE 102 PALEICH NC 37607	
ERTIC	GH C UTILITIES ICAL BEND SIONS DATE P.S. 11-1-10		DR HORTON		2000 AERIAL CENTER PARKWAY STE 110 MODEDISIVILLE NO. 27660	MURKISVILLE INU ZIJOU

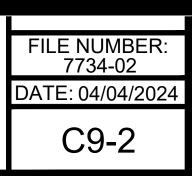
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CHAPEL TOWNES SUBDIVISION

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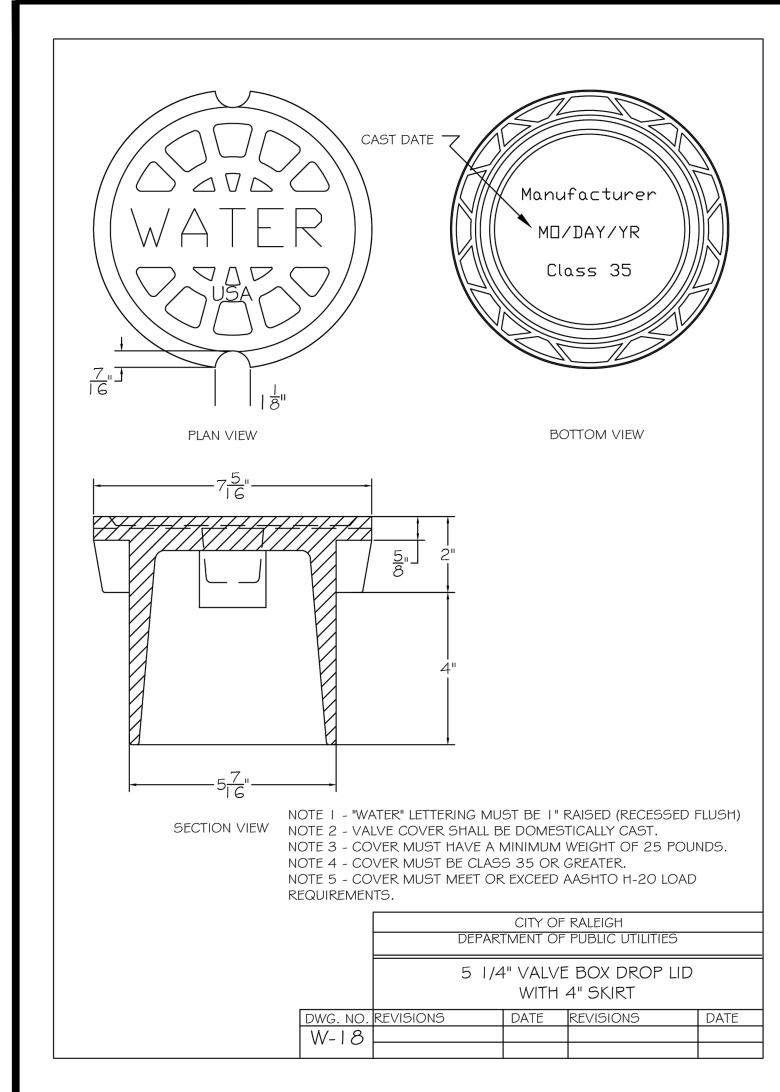
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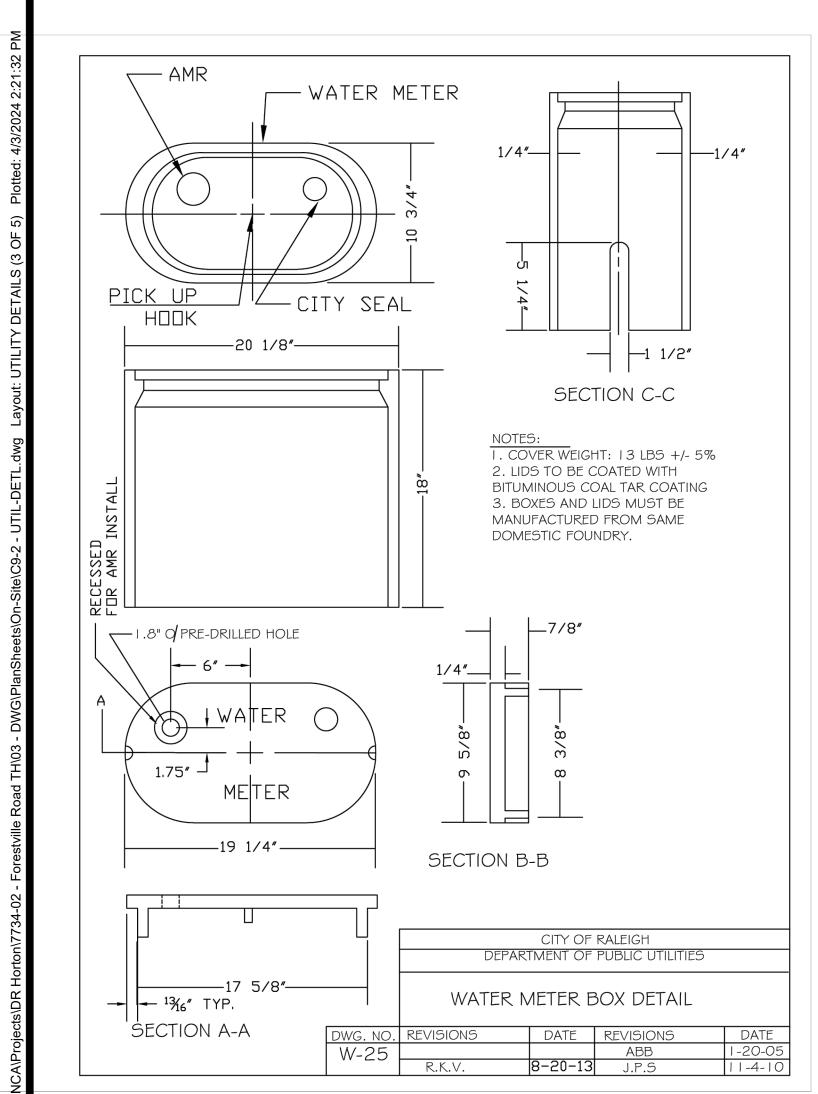
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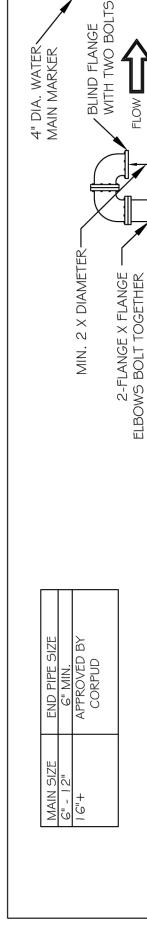
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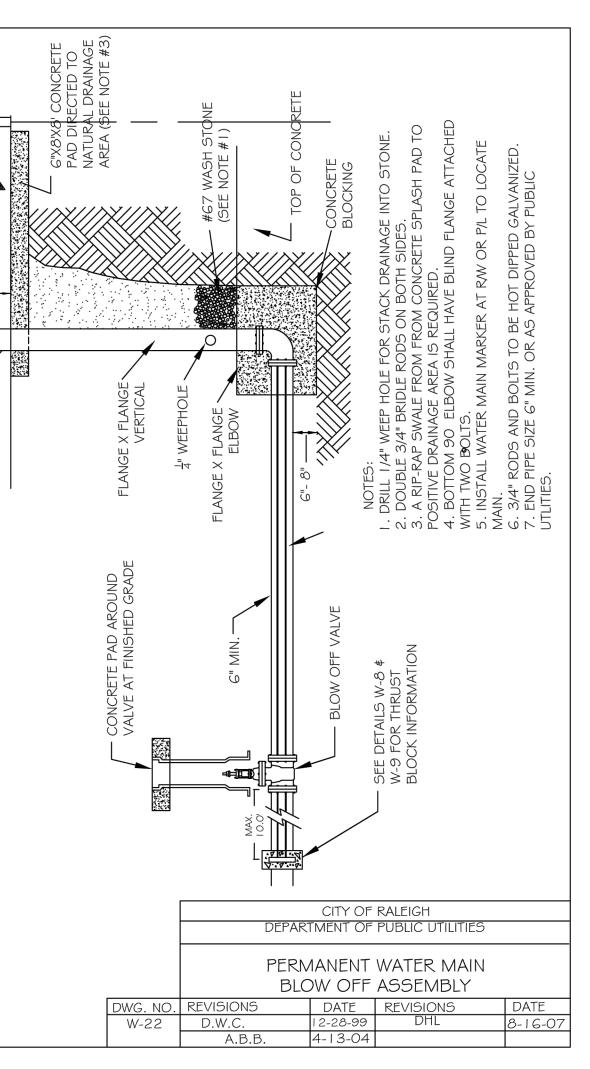
DETAIL

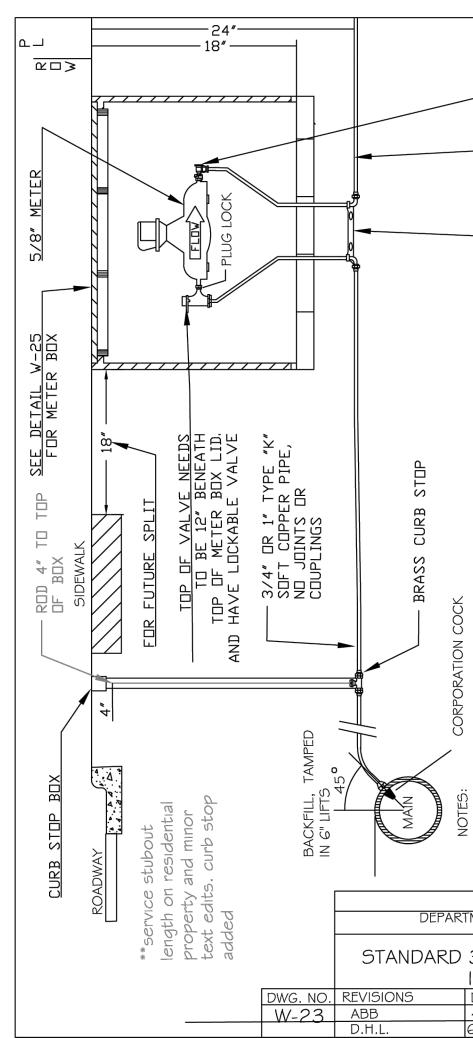
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4 1. WATER METER AS MANUFACTURED BY SENSUS, OR SCHUMBERGER. 1. WATER METER AS MANUFACTURED BY SENSUS, OR SCHUMBERGER. 5. WATER METER AS MANUFACTURED BY SENSUS, OR SCHUMBERGER. 2. DIRECT TAP ALLOWED ON MAINS NO LARGER THAN 16' LINE, OR IN APPROVED EASEMENT ADJACENT TO ROPERTY OR IN APPROVED EASEMENT ADJACENT TO RW. 5. SAN 12' CUPPER STER METER YILE IN SERVICES, OR IN APPROVED EASEMENT ADJACENT TO RW. 661 100 100 100 100 100 100 100 100 100
 WATER METER AS MANUFACTURED BY SENSUS, DIRECT TAP ALLOWED ON MAINS NO LARGER METER BOX TO BE LOCATED IN RW ADJACENT TO ROPERTY METER BOX TO BE LOCATED IN RW ADJACENT TO ROPERTY METER BOX TO BE LOCATED IN RW ADJACENT TO ROPERTY METER BOX TO BE LOCATED IN RW ADJACENT TO ROPERTY MHEN THE GRADE CHANGES ON EXISTING SERVICES, A COPPER RESETTER CAN BE USED TO ADJUST TO GRADE. MHEN THE GRADE CHANGES ON EXISTING SERVICES. CURB STOP BOX SHALL HAVE PLUG STYLE LID WITH PENTAGON BOLT, 1-1/4" STEEL UPPER SECTION, AND ARCH STYLE BASE. STEEL STATIONARY ROD TO BE PROVIDED I UPPER SECTION, AND ARCH STYLE BASE. STEEL STATIONARY ROD TO BE PROVIDED I CURB STOP OPERATION.
5/8*X 12* CUPPER SETTER METER YIKE STAN IR 1* SERVICE DE. IR 1* SERVICE DE. IR 1* SERVICE IR S. II.1* STERVICE IR S. II.1* STERVICE IR S. II.1/4* STER NARY ROD TO BE PROVIDED INARY ROD TO BE PROVIDED INARY ROD TO BE PROVIDED
5/8*X 12* COPPER SETTER METER YOKE SETTER METER YOKE OR 1* SERVICE SIZE PEX 2' DUAL CHECK VALVE BACKFLOW PREVENTION DEVICE GON BOLT, 1-1/4* STEEL CON BOLT, 1-1/4* STEEL

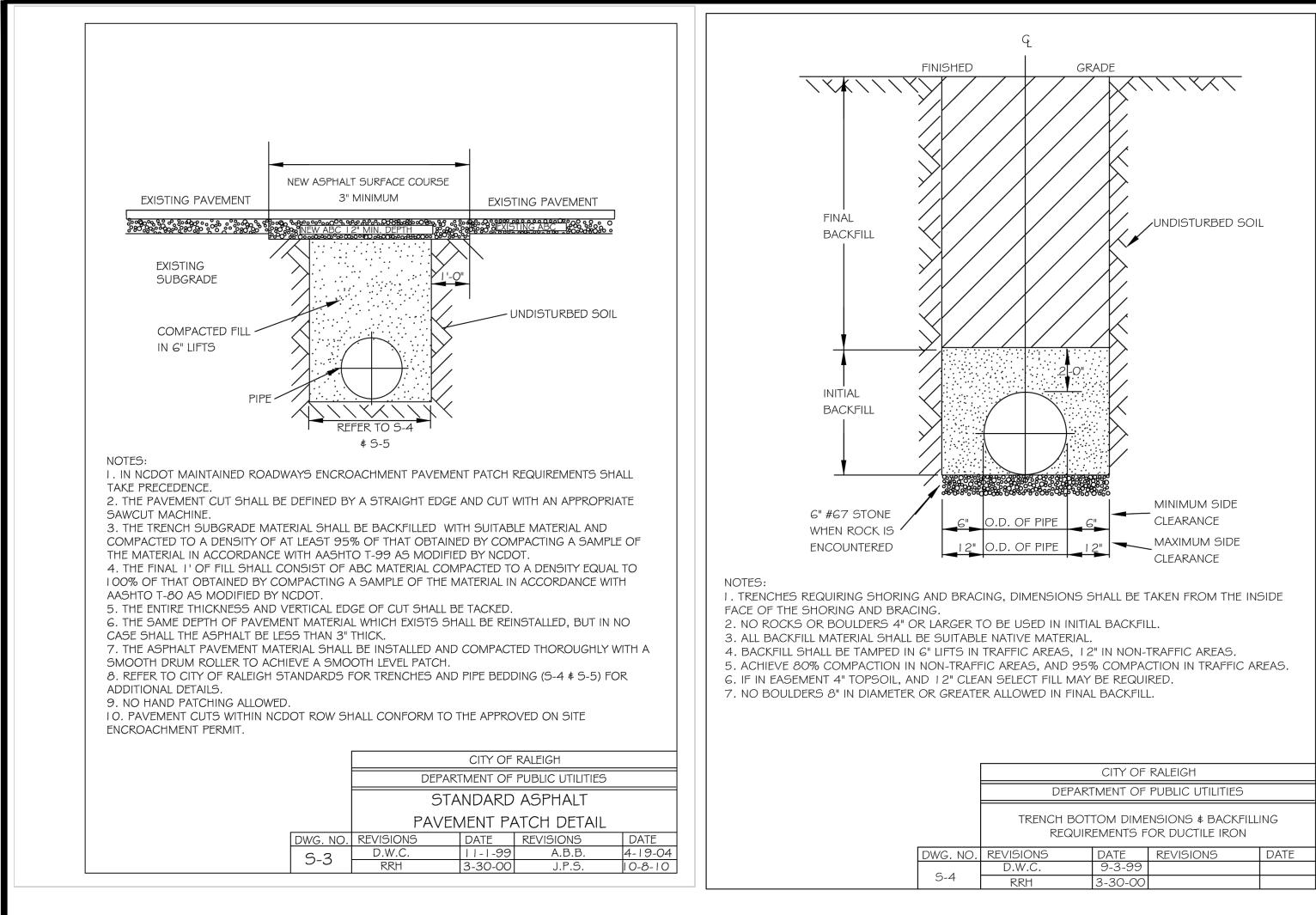
ATTENTION CONTRACTORS

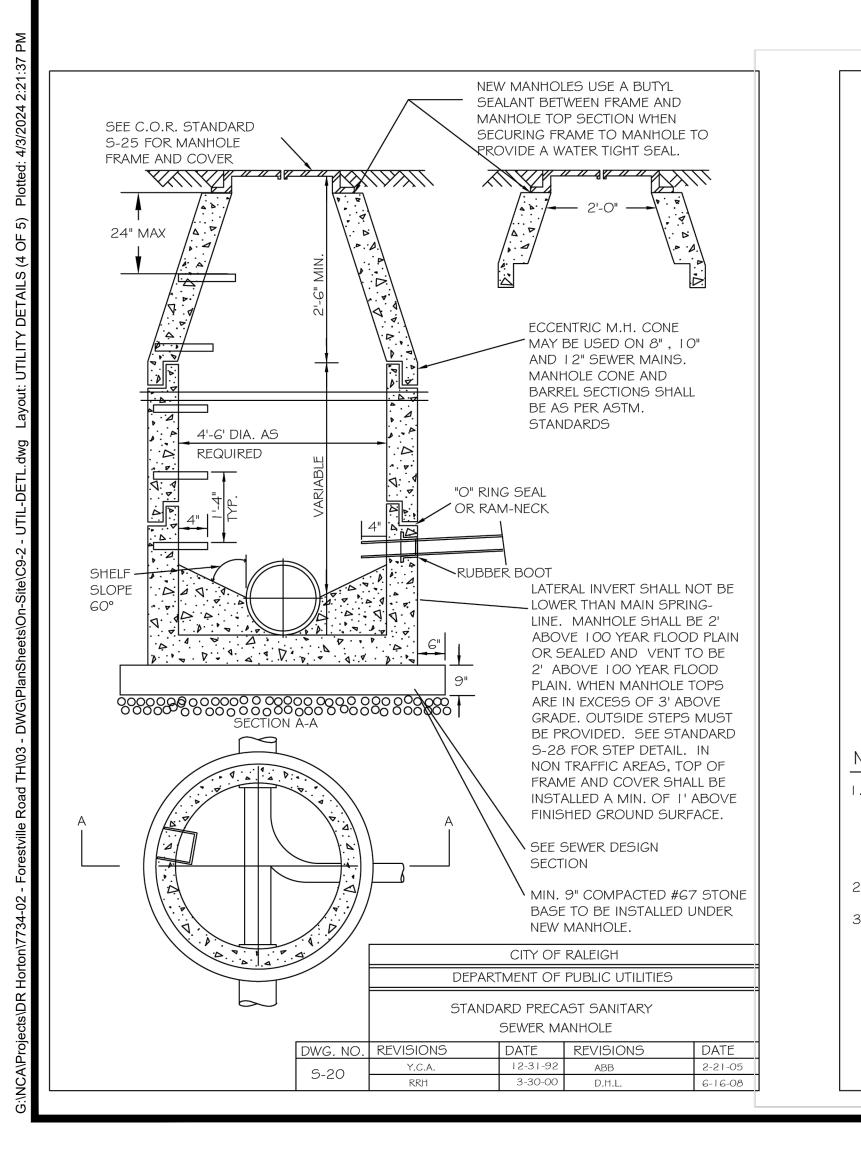
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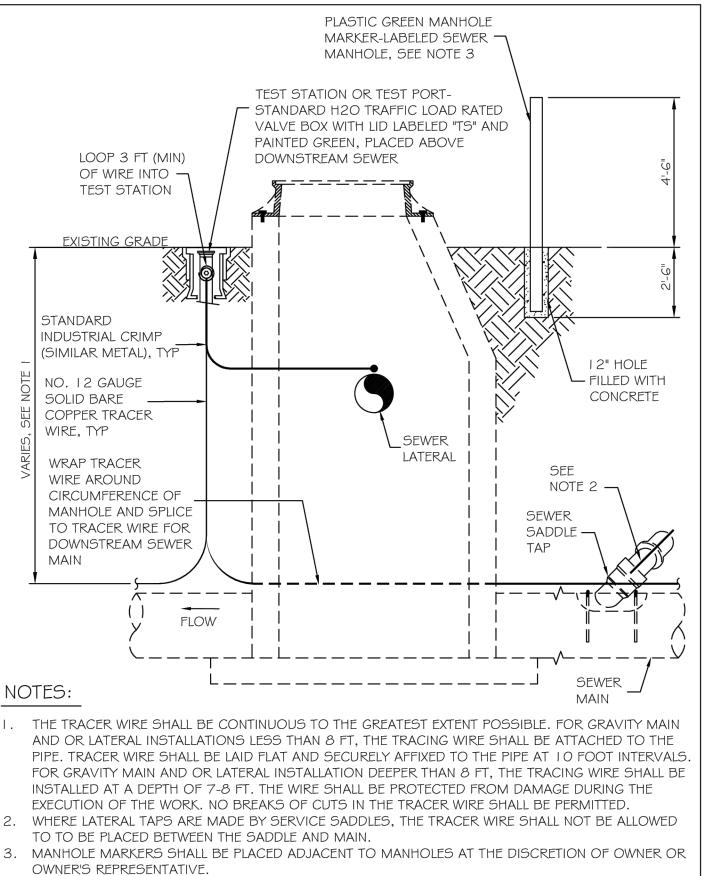
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					DESCRIPTION
DRA	GNEI WN B	Y:	(REV DATE
				RALEIGH NC 27607	WWW.BGEINC.COM NC LICENSE #C-4397 ©2024
	DR HORTON		2000 AERIAL CENTER PARKWAY STE 110	MORRISVILLE NC 27560	
CHAPFI TOWNES			PRELIMINARY SUBDIVISION PLAN	0, 5136, 5228, 5237,5305 NEEDHAM RD &	C, 2220, 2220, 2221, 2207, 00120 MILEL ND RALEIGH NC 27604
F	TE	773 : 04	4-0	/20	







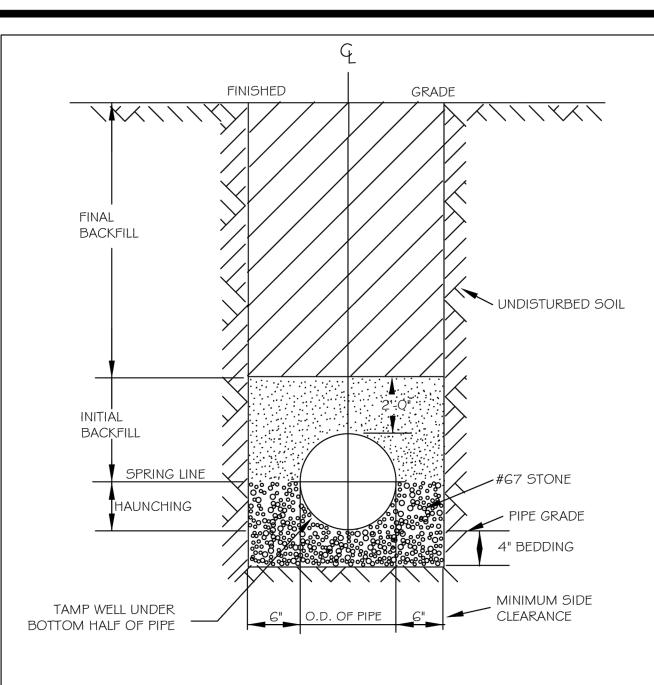


	CITY OF RALEIGH							
	DEPAR	TMENT OF	PUBLIC UTILITIES					
			MAIN TRACER WIRE OLE MARKER					
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE				

09-14

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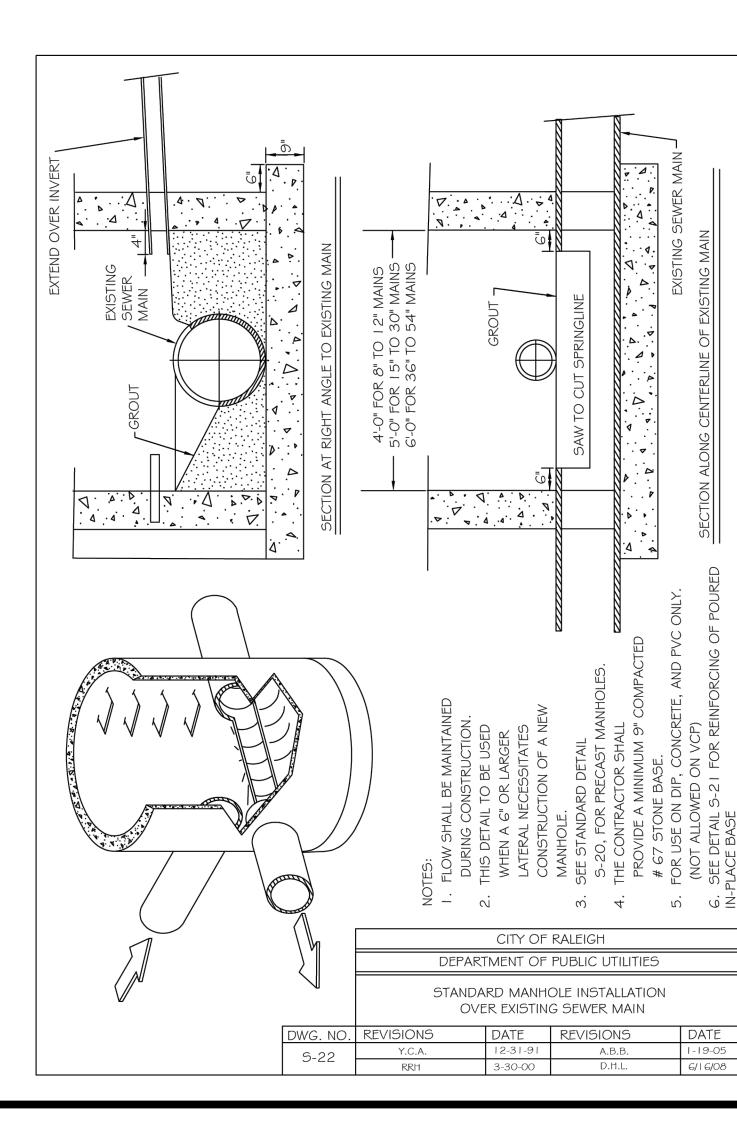


TYPICAL TRENCH BOTTOM DIMENSIONS FOR SDR 35 PVC GRAVITY PIPE

NOTES: I. FOR TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING AND BRACING. 2. NO ROCKS OR BOULDERS 4" OR LARGER TO BE USED IN INITIAL BACKFILL.

3. ALL BACKFILL MATERIAL SHALL BE SUITABLE NATIVE MATERIAL. 4. BACKFILL SHALL BE TAMPED IN 6" LIFTS IN TRAFFIC AREAS, 12" IN NON-TRAFFIC AREAS.

		CITY OF	RALEIGH	
	DEPART	IMENT OF	PUBLIC UTILITIES	
			GIONS AND BACKFIL C GRAVITY SEWER M	
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
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5-5		7-2-82	RRH	3-30-0



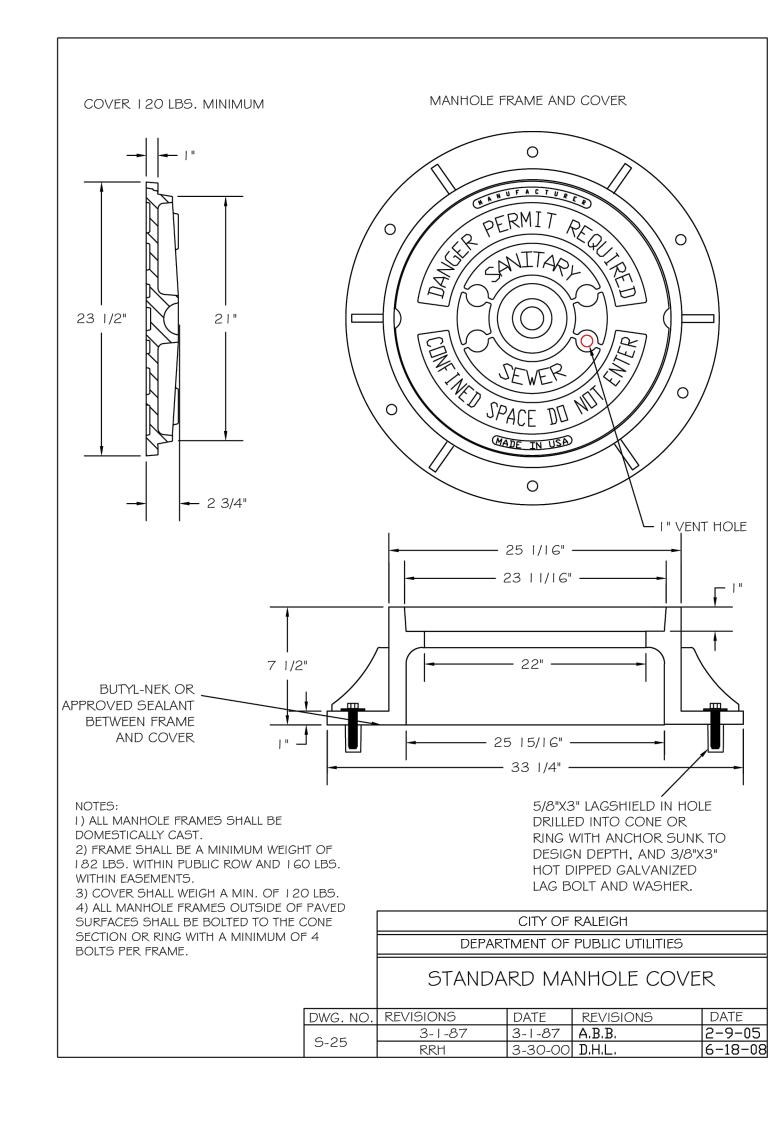
DRAV		:	(WWW.BGEINC.COM NC LICENSE #C-4397 ©2024 REV DATE DESCRIPTION
	DR HORTON		2000 AERIAL CENTER PARKWAY STE 110	MORRISVILLE NC 27560	
CHAPEL TOWNES	SUBDIVISION		PRELIMINARY SUBDIVISION PLAN	0, 5136, 5228, 5237,5305 NEEDHAM RD &	0, JEEU, JEEU, JEEU, JEEH NC 27604
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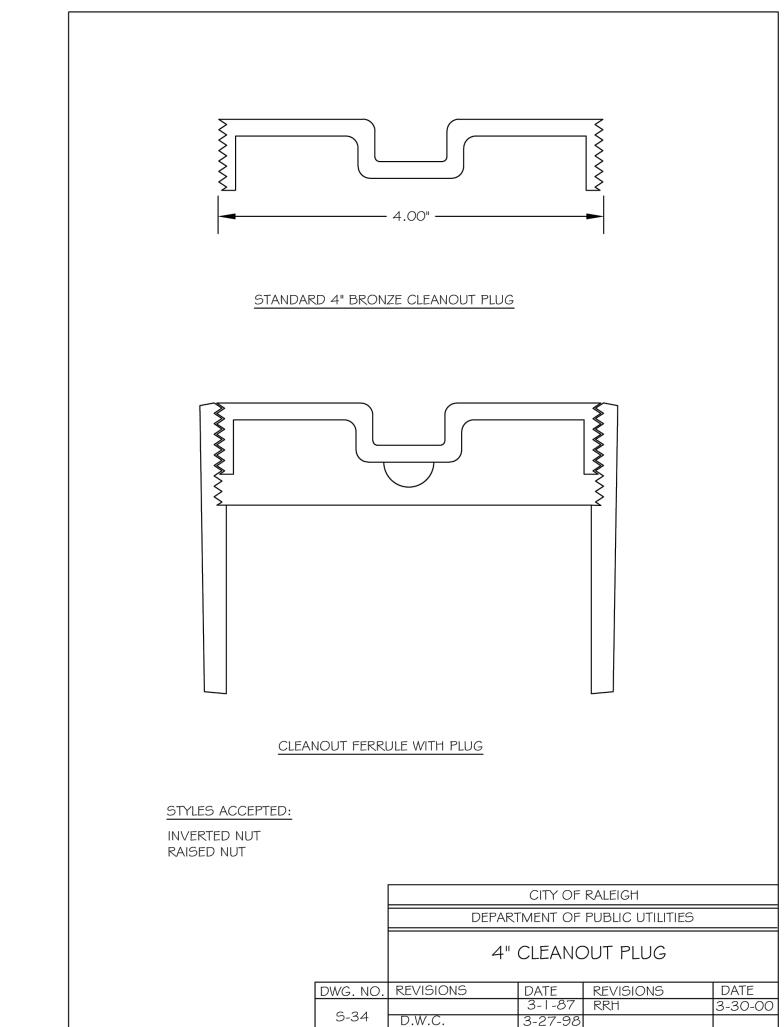
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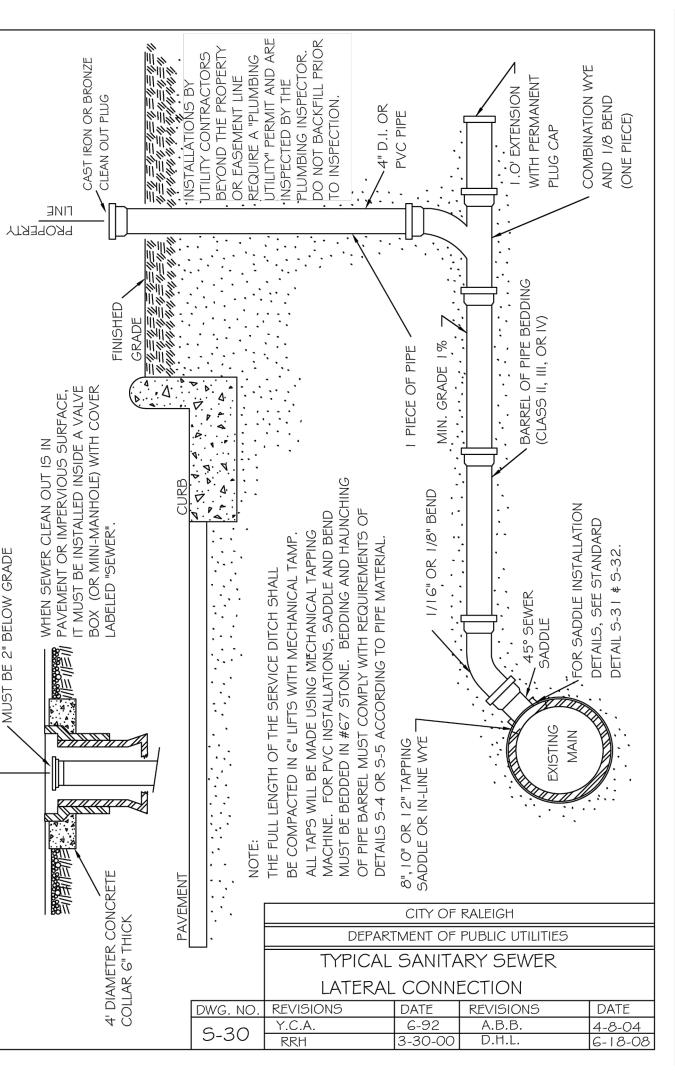


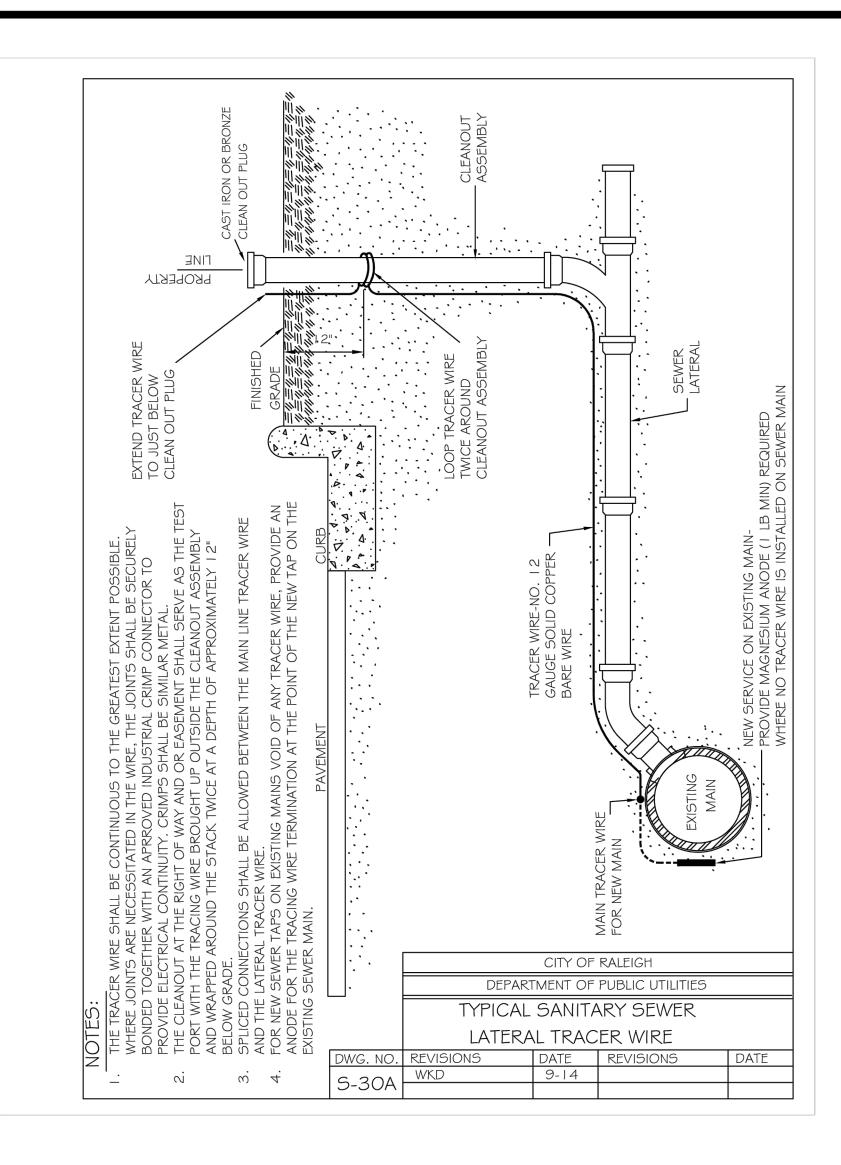


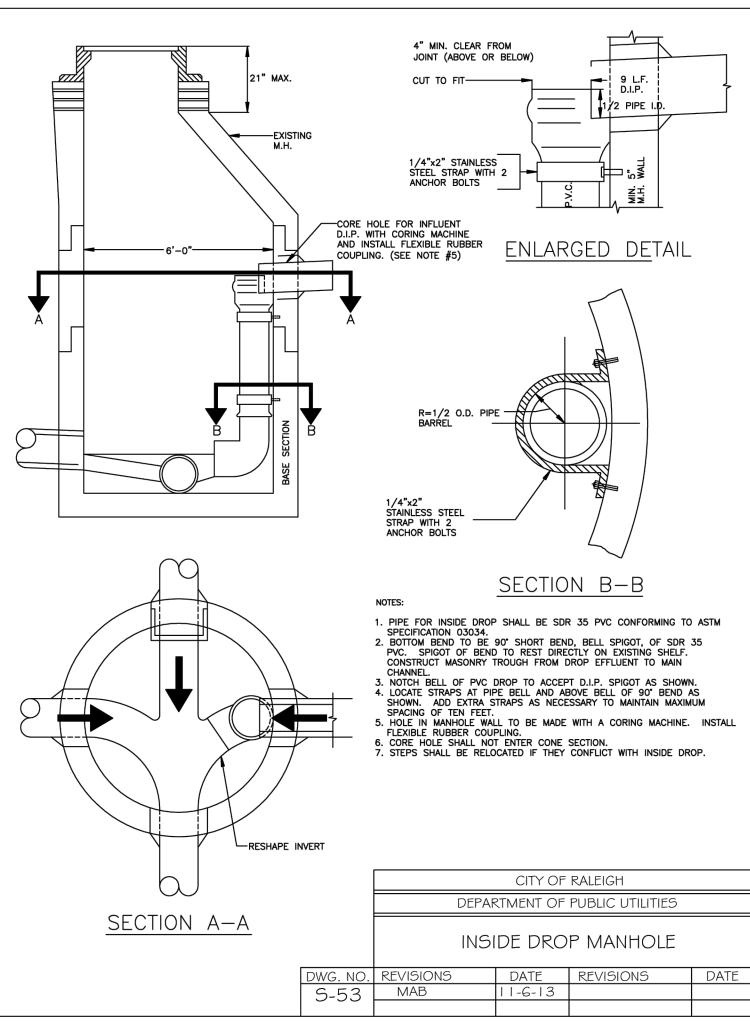


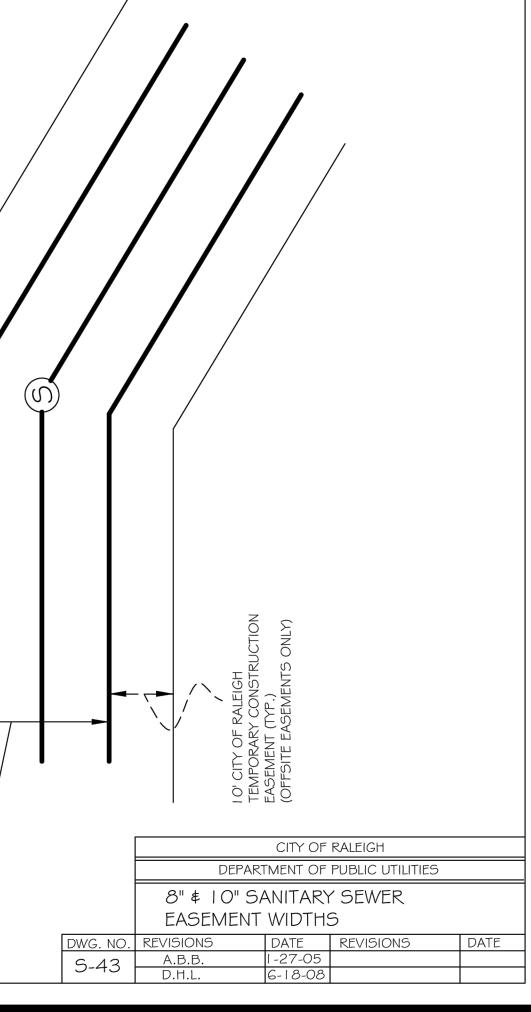
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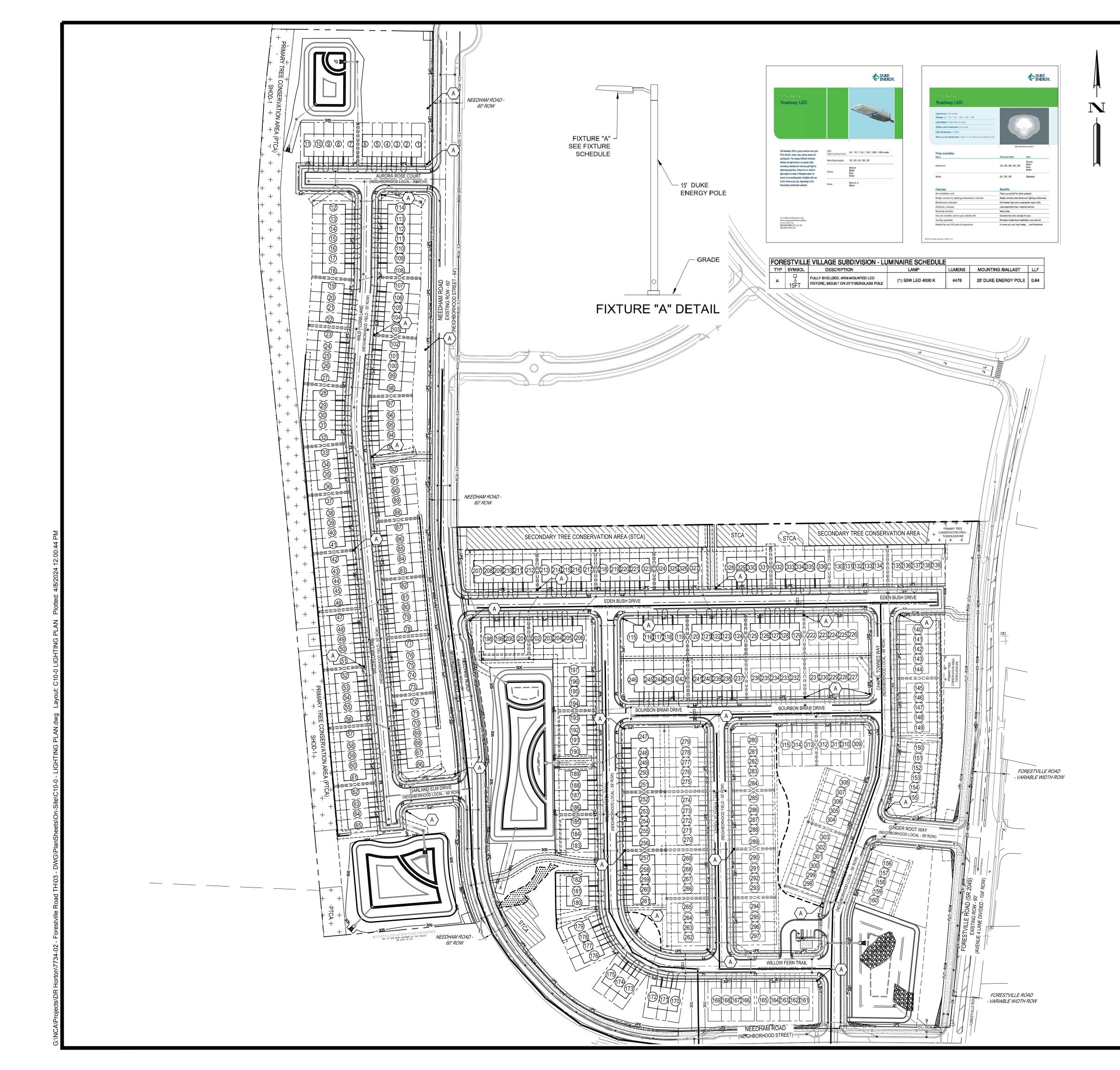


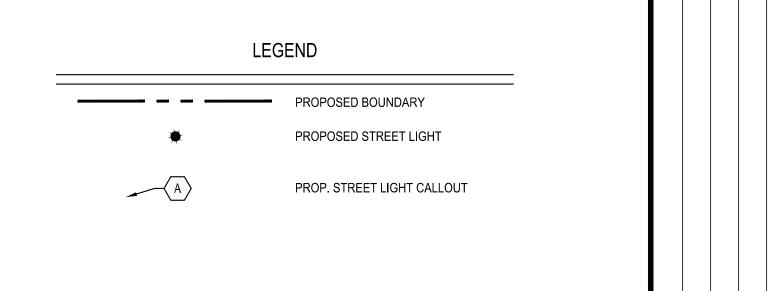
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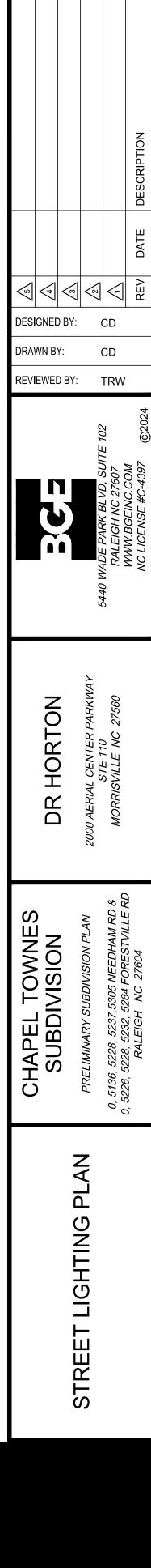
DESI DRAV	VN B`	Y:	(©2024 REV DATE DESCRIPTION
	DR HORTON		2000 AERIAL CENTER PARKWAY	27560	VUVVV.BGEINC.COM NC LICENSE #C-4397
CHAPEL TOWNES	SUBDIVISION		PRELIMINARY SUBDIVISION PLAN	0, 5136, 5228, 5237,5305 NEEDHAM RD & 0 5226 5228 5232 5264 EDRESTVILLE RD	C, CEC, CEC, CEC, CEC, CEC, CEC, CEC, C
	TE	773 : 04	4-0	/20	

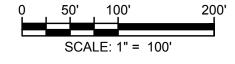




NOTES:

- Streetlights within the City of Raleigh are leased from local energy providers. Standard installation includes an energy efficient Light-Emitting Diode (LED) fixture mounted on a 30' wood pole.
- 2. Decorative or pedestrian scale lighting is optional on City of Raleigh public streets, and will not be paid for by the City unless it is a City driven project. The developer and/or property owner will be completely responsible for up-front and ongoing costs of pedestrian scale lights on all non-City projects. The different styles of approved products are available from the local energy providers.
- Energy provider leased Light-Emitting Diode (LED) streetlight fixtures must be used on public right-of-way if they are to be added to the City account. The energy provider will conduct all troubleshooting, repairs, and maintenance.
 The energy provider must develop a lighting plan meeting or exceeding the City of Raleigh lighting standards as
- stated in Sec. 10-3059 of the City Code of Ordinances. This plan must be approved by Transportation Operations staff before the energy provider is authorized to install.
 The energy provider generally determines the type (wattage) of LED streetlight fixture to be used along each public roadway and the associated pole spacing to meet the City's lighting standards. This can be modified by City staff if
- need be, and must be approved by staff before installation begins.
 All streetlights must be underground fed, unless overhead infrastructure already exists where streetlights will be
- placed.
 7. Underground facility installation and any abnormal costs (trenching, boring, reseeding, rock removal, etc.) associated with streetlight installation must be paid for by the developer, per the Street Lighting Developer Requirements.
- In order for the streetlights to be added to the City account, they must be installed on 30' wood or gray fiberglass poles. If gray fiberglass is used, a \$250/pole buy down can be paid to the City in order to have the streetlights added to our account. This buy down must be paid before City staff will authorize the installation of gray fiberglass poles.
 If the developer uses any type of black poles, post-top lamp streetlights, or pedestrian scale lighting the streetlights
- cannot be added to the City's streetlight account. These must remain on a private account. If a state registered non-profit owner's association exists for the development, an agreement can be drafted to allow for the annual reimbursement of city standard lighting costs to the association.
 The developer is responsible for installation of streetlights on all local access system roadways (residential and
- The developer is responsible for installation of streetlights on all local access system roadways (residential and commercial), which will be built or improved as part of their development project. (.4 fc and 6:1 uniformity).
 The developer is responsible for installation of streetlights on all collector system roadways (residential and
- commercial), which will be built or improved as part of their development project. (.6 fc and 4:1 uniformity)
 12. The developer is responsible for installation of streetlights on all minor thoroughfare system roadways, which will be built or improved as part of their development project (.9 fc and 4:1 uniformity). If the roadway is built to State standards the street lighting is subject to State lighting requirements.
- The developer is responsible for installation of streetlights on all major system roadways, which will be built or improved as part of their development project (1.2 fc and 4:1 uniformity). If the roadway is built to State standards the street lighting is subject to State lighting requirements.
- 14. The developer is responsible for installation of streetlights on all secondary system roadways, which will be built or improved as part of his development project. If the roadway is built to State standards, the street lighting is subject to State lighting requirements. The City may opt to participate in streetlight installations that would close any gaps in the streetlight system created by this requirement.
- 15. Decorative or pedestrian scale lighting is optional on City of Raleigh public streets, and will not be paid for by the City unless it is a City driven project. The developer and/or property owner will be completely responsible for up-front and ongoing costs of decorative or pedestrian lightingon all non-City projects.
- 16. The following street lighting fixtures are approved for use on City of Raleigh public streets at the owner's expense.







ATTENTION CONTRACTORS

The *Construction Contractor* responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for *contacting the* **Public Works Department** at (919) 996-2409, and the **Public Utilities Department** at (919) 996-4540 at least *twenty four hours* prior to beginning any of their construction.

Failure to notify both *City Departments* in advance of beginning construction, will result in the issuance of *monetary fines*, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.

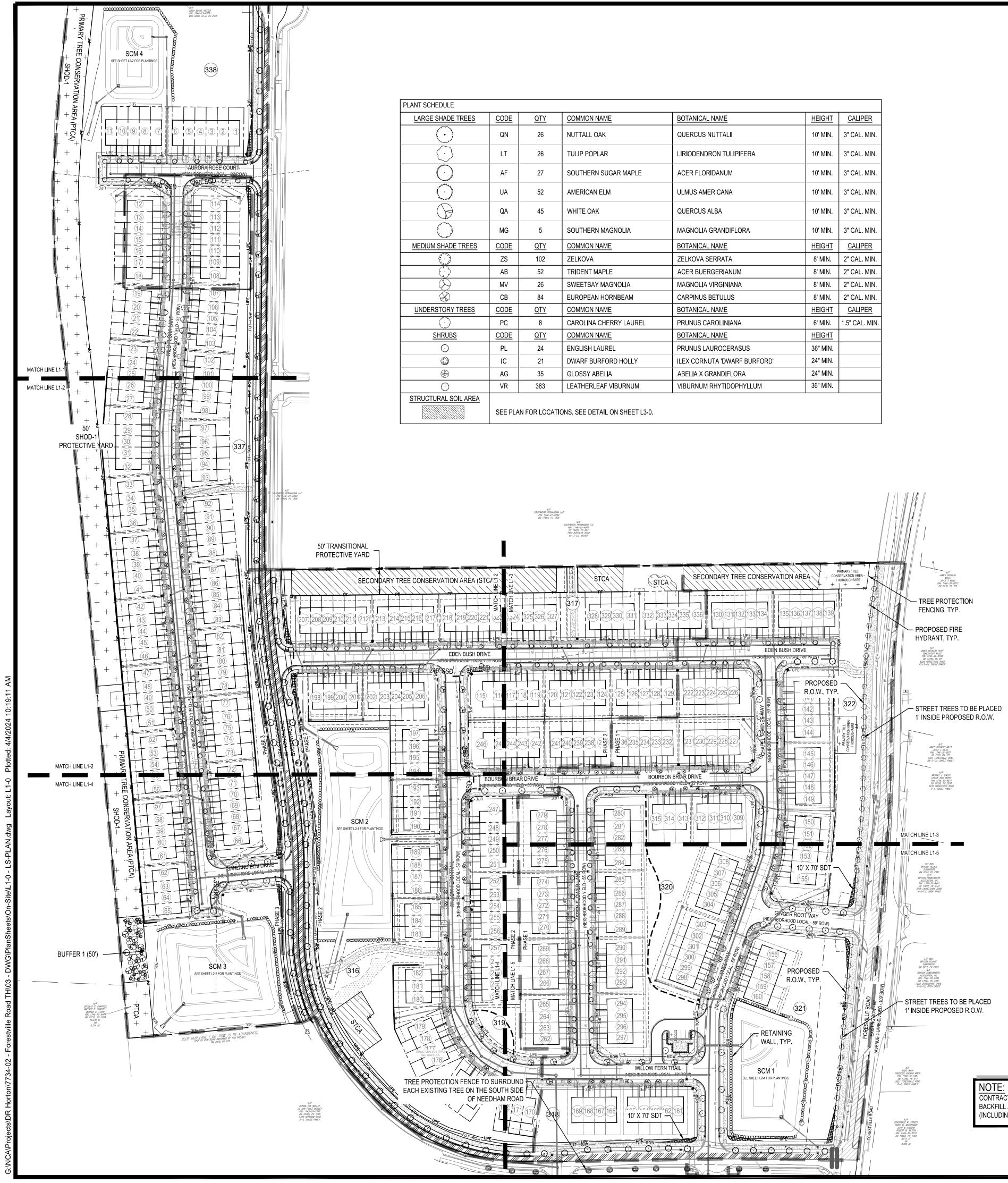
Failure to call for Inspection, Install a Downstream Plug, have Permitted Plans on the Jobsite, or any other Violation of City of Raleigh Standards will result in a Fine and Possible Exclusion from future work in the City of Raleigh.

C10-0

FILE NUMBER

7734-02

DATE: 04/04/2024



COMMON NAME	BOTANICAL NAME	<u>HEIGHT</u>	<u>CALIPER</u>
NUTTALL OAK	QUERCUS NUTTALII	10' MIN.	3" CAL. MIN.
TULIP POPLAR	LIRIODENDRON TULIPIFERA	10' MIN.	3" CAL. MIN.
SOUTHERN SUGAR MAPLE	ACER FLORIDANUM	10' MIN.	3" CAL. MIN.
AMERICAN ELM	ULMUS AMERICANA	10' MIN.	3" CAL. MIN.
WHITE OAK	QUERCUS ALBA	10' MIN.	3" CAL. MIN.
SOUTHERN MAGNOLIA	MAGNOLIA GRANDIFLORA	10' MIN.	3" CAL. MIN.
COMMON NAME	BOTANICAL NAME	<u>HEIGHT</u>	<u>CALIPER</u>
ZELKOVA	ZELKOVA SERRATA	8' MIN.	2" CAL. MIN.
TRIDENT MAPLE	ACER BUERGERIANUM	8' MIN.	2" CAL. MIN.
SWEETBAY MAGNOLIA	MAGNOLIA VIRGINIANA	8' MIN.	2" CAL. MIN.
EUROPEAN HORNBEAM	CARPINUS BETULUS	8' MIN.	2" CAL. MIN.
COMMON NAME	BOTANICAL NAME	HEIGHT	<u>CALIPER</u>
CAROLINA CHERRY LAUREL	PRUNUS CAROLINIANA	6' MIN.	1.5" CAL. MIN.
COMMON NAME	BOTANICAL NAME	<u>HEIGHT</u>	
ENGLISH LAUREL	PRUNUS LAUROCERASUS	36" MIN.	
DWARF BURFORD HOLLY	ILEX CORNUTA 'DWARF BURFORD'	24" MIN.	
GLOSSY ABELIA	ABELIA X GRANDIFLORA	24" MIN.	
LEATHERLEAF VIBURNUM	VIBURNUM RHYTIDOPHYLLUM	36" MIN.	

PHASE 1	- STREET TREE REQUIREMEN
1 SHADE TH	REE EVERY 40' O.C.
NEEDHAM RO REQUIRED:	AD 533' FRONTAGE / 40' = 14 TREES
PROVIDED:	14 TREES
FORESTVILLE REQUIRED:	ROAD (1 UNDERSTORY TREE EVERY 20' O.C 1,020' FRONTAGE / 20' = 51 TREES
PROVIDED:	51 TREES
GINGER ROO ^T REQUIRED:	T WAY 340' FRONTAGE / 40' = 9 TREES
PROVIDED:	9 TREES
CHAPEL TOW REQUIRED:	NES WAY 1,870' FRONTAGE / 40' = 47 TREES
PROVIDED:	49 TREES
ASPEN FLOW REQUIRED:	ER LANE 980' FRONTAGE / 40' = 25 TREES
PROVIDED:	27 TREES
WILLOW FERM REQUIRED:	N TRAIL 520' FRONTAGE / 40' = 13 TREES
PROVIDED:	13 TREES
BOURBON BR REQUIRED:	IAR DRIVE 744' LENGTH FRONTAGE / 40' = 19 TREES
PROVIDED:	19 TREES
EDEN BUSH D REQUIRED:	RIVE 618' FRONTAGE / 40' = 15 TREES

PROVIDED: 15 TREES

LANDSCAPE NOTES

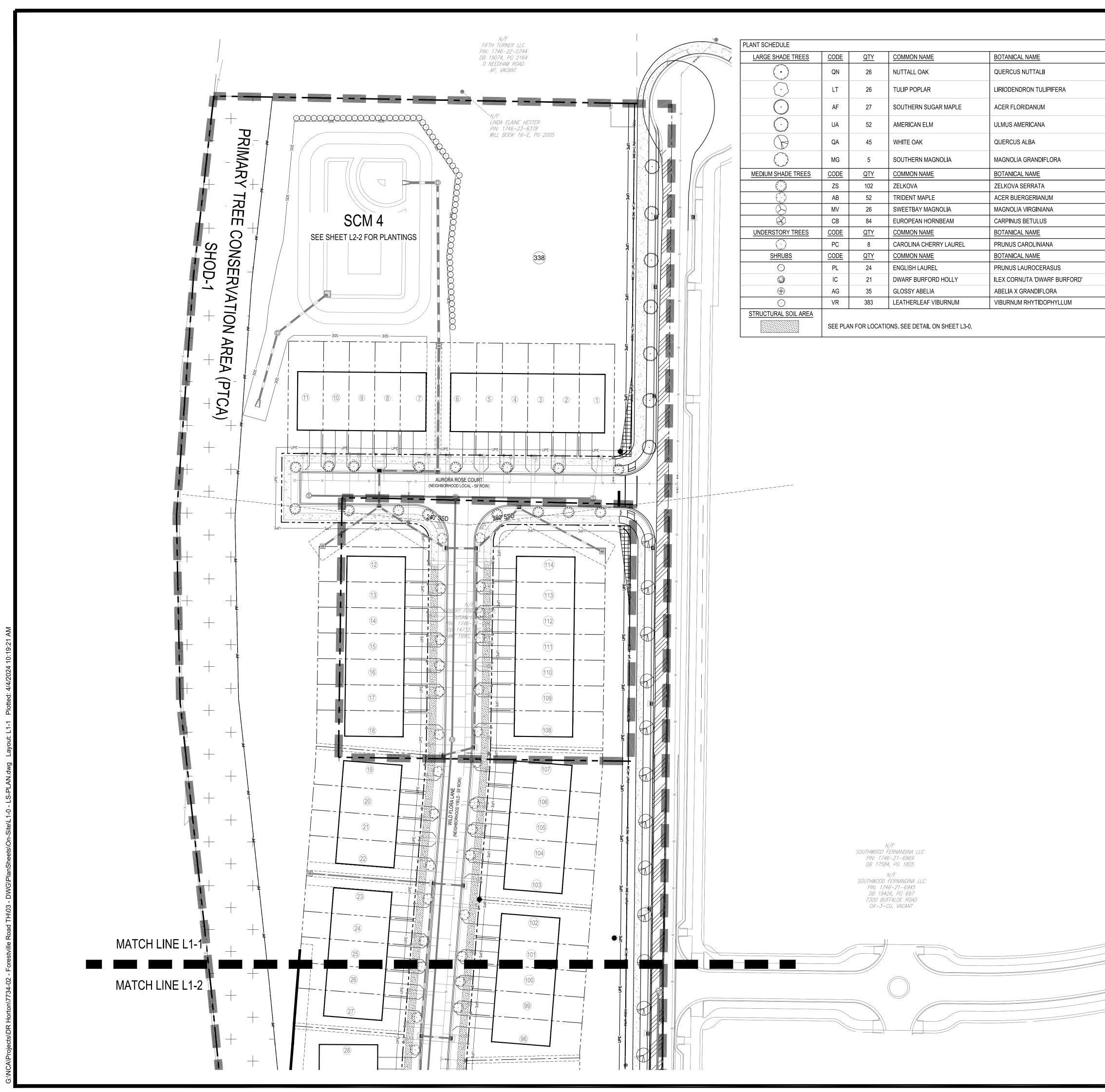
- 1. ALL LANDSCAPE AREAS SHALL RECEIVE A MINIMUM OF 4" OF (DELETERIOUS MATERIALS.
- 2. ALL PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, AND FF
- 3. ALL PLANT MATERIAL SHALL BE CONTAINER GROWN, FIELD G
- 2. NEW TREES SHALL MEET REQUIREMENTS AS SPECIFIED. ALL LEADERS INTACT TO THE TOP OF THE CROWN UNLESS MULTI TYPICAL OF THEIR SPECIES AND VARIETY, HAVE NORMAL GRO HAVE FIBROUS ROOT SYSTEMS. TREES WITH MAJOR GIRDLING BRANCHING WILL NOT BE ACCEPTED. TREES THAT HAVE BEEN STRUCTURE WILL NOT BE ACCEPTED.
- 3. ALL MATERIALS ARE SUBJECT TO THE APPROVAL OF THE LAN
- 4. ALL TREES MUST BE GUYED OR STAKED AS SHOWN IN THE DE 5. AFTER BEING DUG AT THE NURSERY SOURCE, ALL TREES "IN
- SYSTEM PRIOR TO INSTALLATION. 6. PLANT MATERIAL SHALL BE MEASURED AND SIZED ACCORDIN
- STOCK (ANSI Z60.1) AS A MINIMUM FOR QUALITY REQUIREMEN 7. WHERE SHOWN ON THE PLANS AND DETAILS, PLANTING BEDS
- INCHES (4") OF MULCH. MULCH SHALL BE ACQUIRED FROM A I 8. PLANT SPACING IS AS INDICATED ON 'PLANT SCHEDULE' UNLE
- TO PROVIDE FULL PLANT COVERAGE IN ALL LANDSCAPE AREA 9. PLANT SPACING IS AS INDICATED ON 'PLANT SCHEDULE' UNLE
- PROVIDE FULL PLANT COVERAGE IN ALL LANDSCAPE AREAS 10. TREES OVERHANGING SIDEWALKS AND PARKING OR PEDEST
- HEIGHT OF SEVEN FEET (7').
- 11. TREES OVERHANGING VISIBILITY EASEMENTS OR RIGHT-OF V SHRUBS IN VISIBILITY EASEMENTS SHALL HAVE A MAXIMUM H REQUIREMENTS.
- 12. TREES OVERHANGING PUBLIC STREET PAVEMENT WILL HAVE
- 13. ALL TREES NOT LOCATED IN A LANDSCAPE BED ARE TO RECE
- 14. ALL PLANT BEDS AND LAWN AREAS SHALL HAVE A 4" V-TREN

SCALE: 1" = 100'

CONTRACTOR SHALL INCLUDE (IN BASE BID) COSTS FOR ALL CITY REQUIRED BACKFILL / SOIL AMENDMENT REQUIREMENTS WITHIN LANDSCAPING AREAS (INCLUDING PLANTING STRIPS).

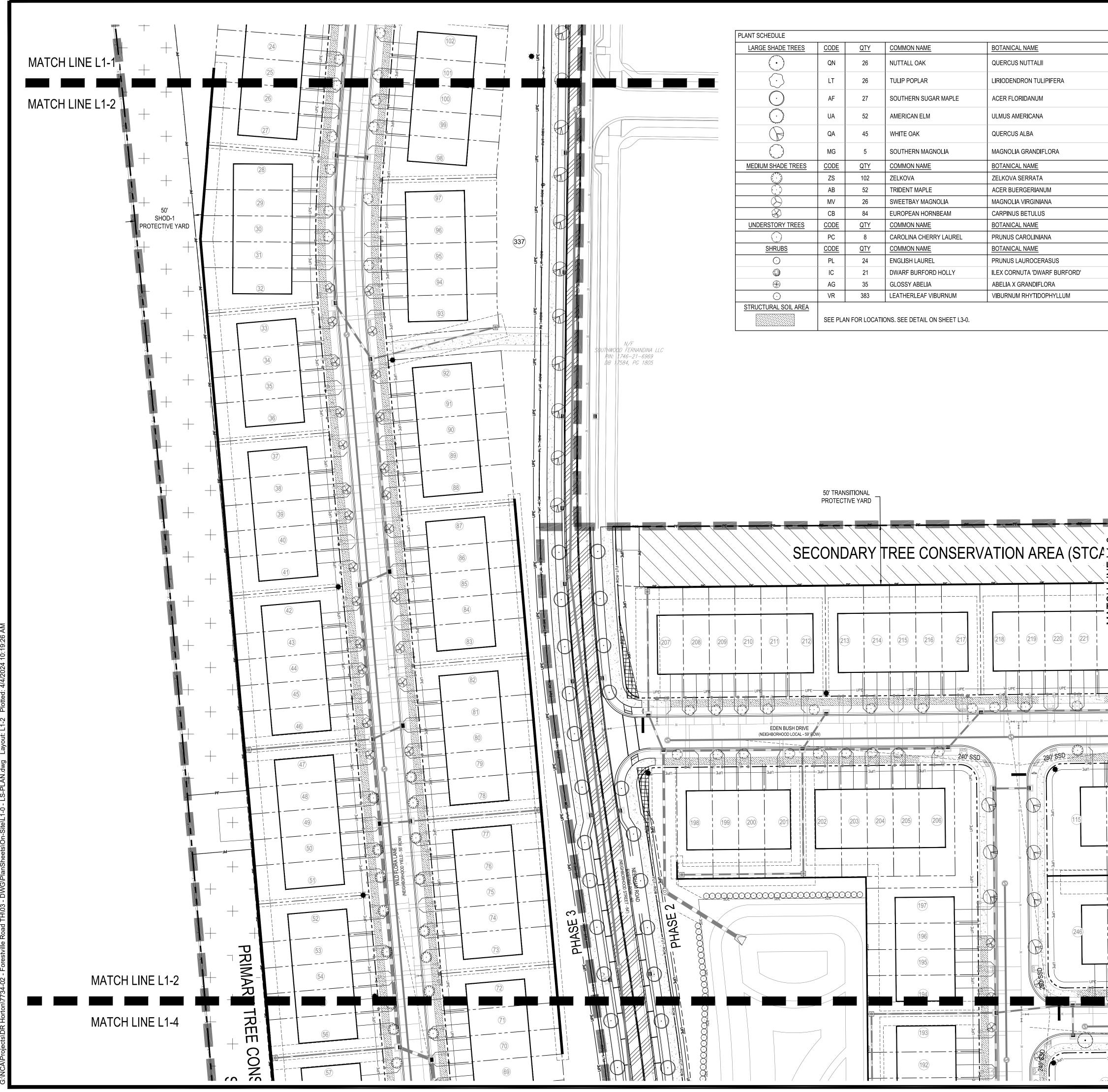
ENTS		STREET TREE REQUIREMENTS	
		EVERY 40' O.C.	No N
	NEEDHAM ROAD REQUIRED: 3,14	16' FRONTAGE / 40' = 79 TREES	DESCRIPTION
	PROVIDED: 81 1	TREES	DESC
O.C.)	EDEN BRUSH DRI\ REQUIRED: 1,50	/E)0' FRONTAGE / 40' = 38 TREES	ш
	PROVIDED: 39 1	REES	DATE
		DRIVE ' LENGTH (BOTH SIDES) / 40' = 8 TREES	REV 13 3
	PROVIDED: 9 TH		DESIGNED BY: MPC
	WILLOW FERN TR		DRAWN BY: MPC
	REQUIRED: 1,59 PROVIDED: 44 1	2' FRONTAGE / 40' = 40 TREES	REVIEWED BY: RCZ
	WILD FLORA LANE		24
		00' FRONTAGE / 40' = 73 TREES	= <i>102</i> ©20;
	PROVIDED: 83 1		D, SUITE 7607 .:COM
	GARLAND ELM DR REQUIRED: 208	IVE I LENGTH FRONTAGE / 40' = 6 TREES	3L VD, S NC. C01
	PROVIDED: 6 TH	REES	ARK E IGH N SEORE
5	TANSY ROSE WAY REQUIRED: 258	, ' FRONTAGE = 8 TREES	5440 WADE PA RALEIO WWW.
	PROVIDED: 10 T	REES	40 M/
	AURORA ROSE CO	DURT ' FRONTAGE / 40' = 13 TREES	54
	PROVIDED: 16 T		
			È
	PHASES 2-3	PROTECTIVE YARD REQUIRMENTS	560 S
	BUFFER 1		HORTON HORTON AL CENTER PARKI STE 110 SVILLE NC 27560
	REQUIRED:	SHOD-1 TRANSITIONAL PROTECTIVE YARD (50' WIDTH)	OR SENTE TE 110
		10 SHADE TREES PER 100'; (128' LENGTH / 100') X 10 TREES = 13 SHADE TREES (9 DECIDOUS (14' MIN.) / 4 EVERGREEN (8' MIN.)) 6 UNDERSTORY TREES PER 100'; (128' LENGTH / 100') X 6 TREES = 8 UNDERSTORY TREES 32 SHRUBS PER 100'; (128' LENGTH / 100') X 32 SHRUBS = 41 SHRUBS (5' MIN. HEIGHT)	DR HORTON 2000 AERIAL CENTER PARKWAY STE 110 MORRISVILLE NC 27560
	PROVIDED:	14 SHADE TREES (9 DECIDOUS / 5 EVERGREEN) 8 UNDERSTORY TREES 45 SHRUBS	
			LAN NILLE RD VILLE RD
OF CLEAN FRIABLE TOPSOIL FREE OF ROCKS, ROC	TS, AND OTHER		OWNE ISION DIVISION PLA 5 NEEDHAM 4 FORESTVIL C 27604
FREE OF PESTS AND DISEASE.			IOV SDIVIS 05 NE 64 FON
) GROWN, BALLED AND BURLAPPED OR AS INDICA LL NEW TREES MUST HAVE STRAIGHT TRUNKS WI			EL J DDV DIV 237,53 32,526
LTI-STEM TREES ARE SPECIFIED. ALL REQUIRED T GROWTH HABITS, HAVE WELL-DEVELOPED BRANCI LING ROOTS WILL NOT BE ACCEPTED. TREES WITH EEN SHEARED, TOPPED OR CUT BACK TO MULTIPL	REES SHALL BE IES, BE VIGOROUS AND CO-DOMINANT		CHAPEL TOWNES CHAPEL TOWNES SUBDIVISION PRELIMINARY SUBDIVISION PLAN 7, 5136, 5228, 5237,5305 NEEDHAM RD 5226, 5228, 5237,5305 NEEDHAM RD 5226, 5228, 5237,5305 NEEDHAM RD 5226, 5228, 5237,5305 NEEDHAM RD 5226, 5228, 5237,5305 NEEDHAM RD
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REAS AS SPECIFIED IN THE PLANT SCHEDULE NOT NLESS OTHERWISE NOTED. IT IS THE CONTRACTOI			DS
S AS SPECIFIED IN THE PLANT SCHEDULE NOTES.			AN
F WAYS SHALL HAVE A MINIMUM CLEAR TRUNK HE IN HEIGHT OF 24" AND COMPLY WITH LOCAL JURISE	IGHT OF NINE FEET (9') .		RALL L
VE A MINIMUM CLEAR TRUNK OF FOURTEEN FEET	(14').		/ER/
ECEIVE A FOUR FOOT (4') DIAMETER MULCH RING.			
ENCH EDGE.			
		ATTENTION CONTRACTORS	
		The Construction Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Works Department at (919) 996-2409, and the Public Utilities Department at (919) 996-4540 at least twenty four hours prior to beginning any of their construction.	
		<i>Failure</i> to notify both <i>City Departments</i> in advance of beginning construction, will result in the issuance of <i>monetary fines</i> , and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.	
Know what's		Failure to call for Inspection, Install a Downstream Plug, have Permitted Plans on the Jobsite, or any other Violation of City of Raleigh Standards will result in a Fine and Possible Exclusion from	FILE NUMBER: 7734-02 DATE: 04/04/2024
	efore you dig.	future work in the City of Raleigh.	

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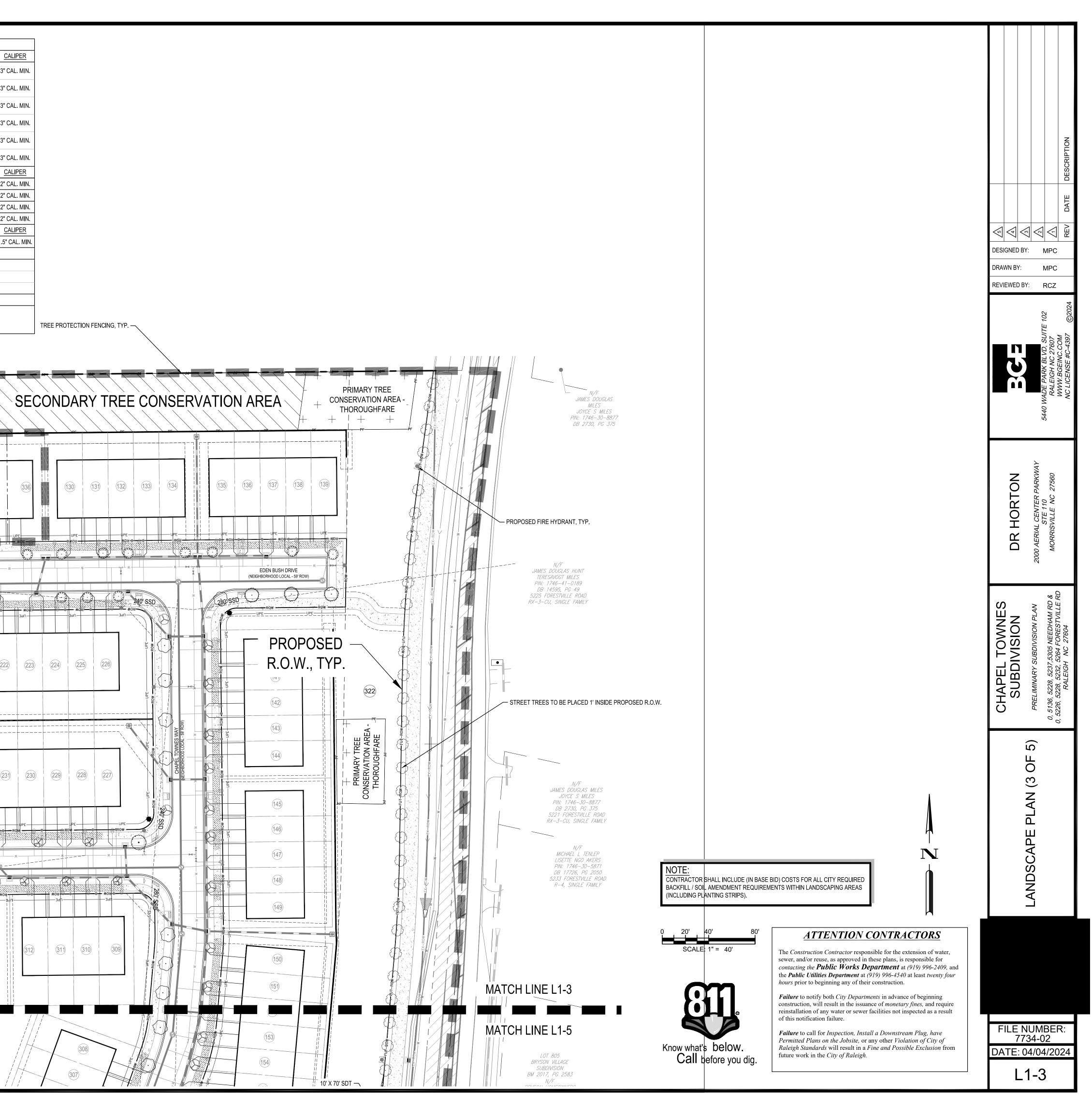
<u>HEIGHT</u>	<u>CALIPER</u>
10' MIN.	3" CAL. MIN.
<u>HEIGHT</u>	CALIPER
8' MIN.	2" CAL. MIN.
<u>HEIGHT</u>	CALIPER
6' MIN.	1.5" CAL. MIN
<u>HEIGHT</u>	
36" MIN.	
24" MIN.	
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36" MIN.	

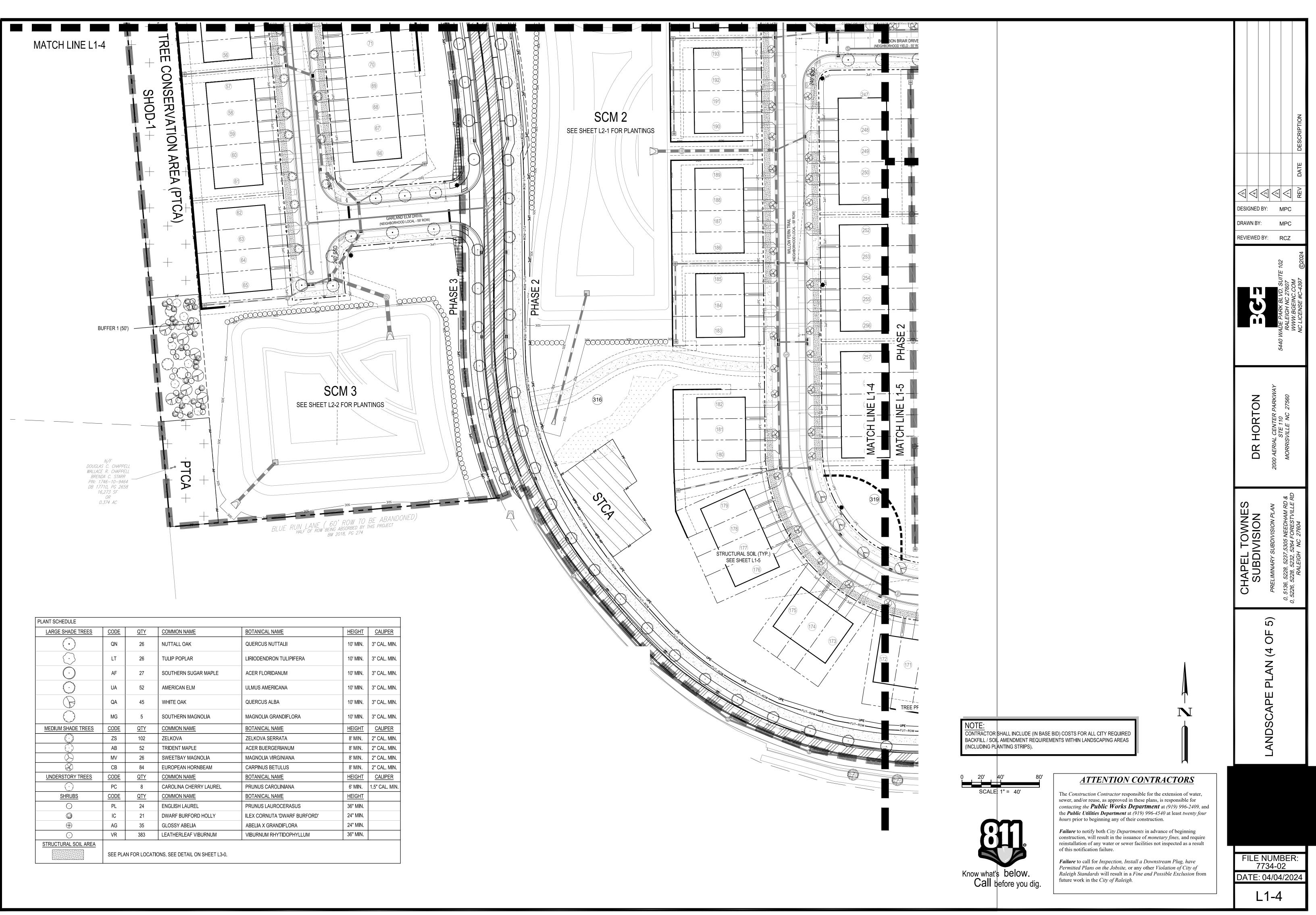
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		DRAWN BY: MPC REVIEWED BY: RCZ 2440 INADE PARK BL VD, SUITE 102 RALEIGH NC 27607 INWW.BGEINC.COM NC LICENSE #C-4397 ©2004
		DR HORTON 2000 AERIAL CENTER PARKWAY STE 110 MORRISVILLE NC 27560
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NOTE: CONTRACTOR SHALL INCLUDE (IN BASE F BACKFILL / SOIL AMENDMENT REQUIREM (INCLUDING PLANTING STRIPS).		LANDSCAPE PLAN (1 OF 5)
0 20' 40' 80' SCALE: 1" = 40'	ATTENTION CONTRACTORS The Construction Contractor responsible for the extension of wat sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Works Department at (919) 996-240 the Public Utilities Department at (919) 996-4540 at least twenty hours prior to beginning any of their construction. Failure to notify both City Departments in advance of beginning construction, will result in the issuance of monetary fines, and required	9, and four
Know what's below. Call before you dig.	reinstallation of any water or sewer facilities not inspected as a re of this notification failure. <i>Failure</i> to call for <i>Inspection, Install a Downstream Plug, have</i> <i>Permitted Plans on the Jobsite,</i> or any other <i>Violation of City of</i> <i>Raleigh Standards</i> will result in a <i>Fine and Possible Exclusion</i> future work in the <i>City of Raleigh.</i>	FILE NUMBER: 7734-02



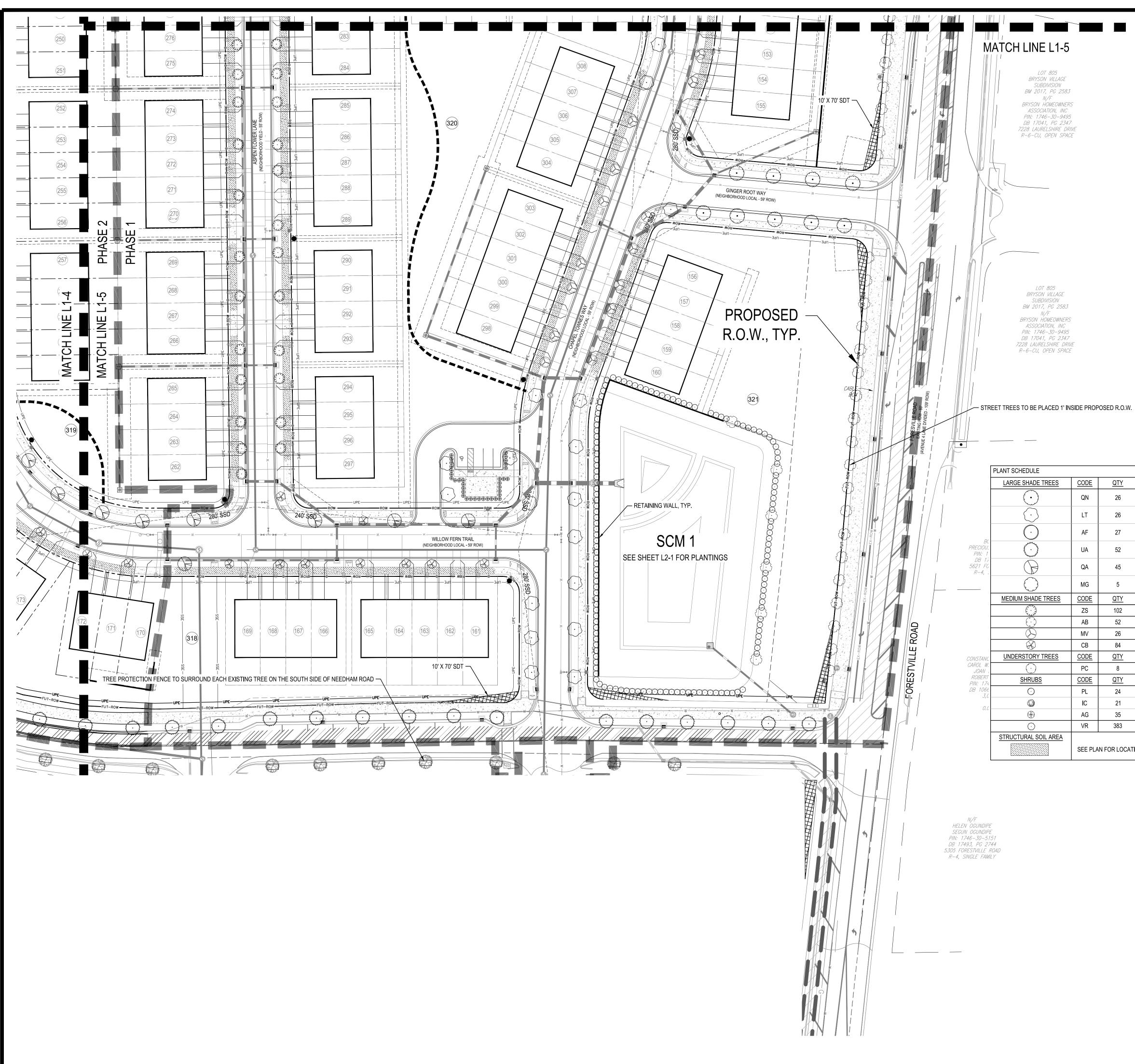
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		(INCLUDING PL	ANTING STRIPS).				< -	LA		
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245	244	0 20'	40' 80'	ATTENTION C	ONTRACTORS					
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				contacting the Public Works Dep the Public Utilities Department at (91	<i>artment</i> at (919) 996-2409, and (9) 996-4540 at least <i>twenty four</i>					
		ſ		hours prior to beginning any of their c	construction.					
		li		<i>Failure</i> to notify both <i>City Department</i> construction, will result in the issuance reinstallation of any water or sewer fa	e of monetary fines, and require					
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	PLANT SCHEDULE						
	LARGE SHADE TREES	CODE	<u>QTY</u>	COMMON NAME	BOTANICAL NAME	<u>HEIGHT</u>	CA
	\odot	QN	26	NUTTALL OAK	QUERCUS NUTTALII	10' MIN.	3" C
	(\cdot)	LT	26	TULIP POPLAR	LIRIODENDRON TULIPIFERA	10' MIN.	3" C
	$\overline{(\cdot)}$	AF	27	SOUTHERN SUGAR MAPLE	ACER FLORIDANUM	10' MIN.	3" C
		UA	52	AMERICAN ELM	ULMUS AMERICANA	10' MIN.	3" C
	honerer et	QA	45	WHITE OAK	QUERCUS ALBA	10' MIN.	3" C
		MG	5			10' MIN.	3" C
	MEDIUM SHADE TREES	CODE ZS	<u>QTY</u> 102	<u>COMMON NAME</u> ZELKOVA	BOTANICAL NAME ZELKOVA SERRATA	HEIGHT 8' MIN.	<u>CA</u> 2" C
	(\cdot)	AB	52	TRIDENT MAPLE	ACER BUERGERIANUM	8' MIN.	2" C
		MV	26	SWEETBAY MAGNOLIA	MAGNOLIA VIRGINIANA	8' MIN.	2" C
	UNDERSTORY TREES	CB CODE	84 <u>QTY</u>	EUROPEAN HORNBEAM COMMON NAME	CARPINUS BETULUS BOTANICAL NAME	8' MIN. HEIGHT	2" C. <u>C</u> A
	\bigcirc	PC	8	CAROLINA CHERRY LAUREL	PRUNUS CAROLINIANA	6' MIN.	1.5" (
	SHRUBS SOUTHWOO	1710 01 00	WA LLI <mark>QTY</mark>		BOTANICAL NAME	HEIGHT	<u> </u>
		1740-21-09 7584, PA2G 18	21	ENGLISH LAUREL	PRUNUS LAUROCERASUS	36" MIN. 24" MIN.	
	Ś	AG	SOUTHWOO 35 PIN:	<i>ID FERNANDINA LLC</i> [7 @LOSSY:ABELIA	ABELIA X GRANDIFLORA	24" MIN.	
	STRUCTURAL SOIL AREA	VR		HAZO, FG 997 FUFATHERLEAF VIBURNUM 5- <i>CU, VACANT</i>	VIBURNUM RHYTIDOPHYLLUM	36" MIN.	
		SEE PLA	AN FOR LOCATIO	DNS. SEE DETAIL ON SHEET L3-0.			
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LARGE SHADE TREES	<u>CODE</u>	<u>QTY</u>	COMMON NAME	BOTANICAL NAME	<u>HEIGHT</u>	
\odot	QN	26	NUTTALL OAK	QUERCUS NUTTALII	10' MIN.	3" CAL. MI
$\overline{\bigcirc}$	LT	26	TULIP POPLAR	LIRIODENDRON TULIPIFERA	10' MIN.	3" CAL. M
\bigcirc	AF	27	SOUTHERN SUGAR MAPLE	ACER FLORIDANUM	10' MIN.	3" CAL. M
y so survey and a second secon	UA	52	AMERICAN ELM	ULMUS AMERICANA	10' MIN.	3" CAL. M
	QA	45	WHITE OAK	QUERCUS ALBA	10' MIN.	3" CAL. M
\bigcirc	MG	5	SOUTHERN MAGNOLIA	MAGNOLIA GRANDIFLORA	10' MIN.	3" CAL. M
MEDIUM SHADE TREES	CODE	<u>QTY</u>	COMMON NAME	BOTANICAL NAME	<u>HEIGHT</u>	CALIPE
	ZS	102	ZELKOVA	ZELKOVA SERRATA	8' MIN.	2" CAL. M
(·)	AB	52	TRIDENT MAPLE	ACER BUERGERIANUM	8' MIN.	2" CAL. M
<u> </u>	MV	26	SWEETBAY MAGNOLIA	MAGNOLIA VIRGINIANA	8' MIN.	2" CAL. M
×	СВ	84	EUROPEAN HORNBEAM	CARPINUS BETULUS	8' MIN.	2" CAL. M
UNDERSTORY TREES	CODE	<u>QTY</u>	COMMON NAME	BOTANICAL NAME	<u>HEIGHT</u>	CALIPE
\odot	PC	8	CAROLINA CHERRY LAUREL	PRUNUS CAROLINIANA	6' MIN.	1.5" CAL. N
SHRUBS	CODE	<u>QTY</u>	COMMON NAME	BOTANICAL NAME	<u>HEIGHT</u>	
$\overline{\mathbf{O}}$	PL	24	ENGLISH LAUREL	PRUNUS LAUROCERASUS	36" MIN.	
0	IC	21	DWARF BURFORD HOLLY	ILEX CORNUTA 'DWARF BURFORD'	24" MIN.	
\$	AG	35	GLOSSY ABELIA	ABELIA X GRANDIFLORA	24" MIN.	
\odot	VR	383	LEATHERLEAF VIBURNUM	VIBURNUM RHYTIDOPHYLLUM	36" MIN.	



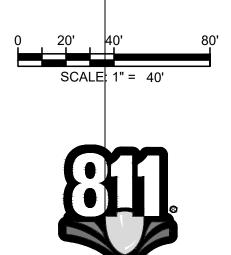
<u>CODE</u>	<u>QTY</u>	COMMON NAME		BOTANICAL NAME	<u>HEIGHT</u>	<u>CALIPER</u>
QN	26	NUTTALL OAK		QUERCUS NUTTALII	10' M I N.	3" CAL. MIN.
LT	26	TULIP POPLAR		LIRIODENDRON TULIPIFERA	10' M I N.	3" CAL. MIN.
AF	27	SOUTHERN SUGAR N	IAPLE	ACER FLORIDANUM	10' M I N.	3" CAL. MIN.
UA	52	AMERICAN ELM		ULMUS AMERICANA	10' MIN.	3" CAL. MIN.
QA	45	WHITE OAK		QUERCUS ALBA	10' M I N.	3" CAL. MIN.
MG	5	SOUTHERN MAGNOL	IA	MAGNOLIA GRANDIFLORA	10' M I N.	3" CAL. MIN.
CODE	<u>QTY</u>	COMMON NAME		BOTANICAL NAME	<u>HEIGHT</u>	CALIPER
ZS	102	ZELKOVA		ZELKOVA SERRATA	8' MIN.	2" CAL. MIN.
AB	52	TRIDENT MAPLE		ACER BUERGERIANUM	8' MIN.	2" CAL. MIN.
MV	26	SWEETBAY MAGNOL	IA	MAGNOLIA VIRGINIANA	8' MIN.	2" CAL. MIN.
СВ	84	EUROPEAN HORNBE	AM	CARPINUS BETULUS	8' MIN.	2" CAL. MIN.
CODE	<u>QTY</u>	COMMON NAME		BOTANICAL NAME	<u>HEIGHT</u>	<u>CALIPER</u>
PC	8	CAROLINA CHERRY I	AUREL	PRUNUS CAROLINIANA	6' MIN.	1.5" CAL. MIN.
CODE	<u>QTY</u>	COMMON NAME		BOTANICAL NAME	<u>HEIGHT</u>	
PL	24	ENGLISH LAUREL		PRUNUS LAUROCERASUS	36" MIN.	
IC	21	DWARF BURFORD H	DLLY	ILEX CORNUTA 'DWARF BURFORD'	24" MIN.	
AG	35	GLOSSY ABELIA		ABELIA X GRANDIFLORA	24" MIN.	
VR	383	LEATHERLEAF VIBUR	RNUM	VIBURNUM RHYTIDOPHYLLUM	36" MIN.	

SEE PLAN FOR LOCATIONS. SEE DETAIL ON SHEET L3-0.

NOTE:



CONTRACTOR SHALL INCLUDE (IN BASE BID) COSTS FOR ALL CITY REQUIRED BACKFILL / SOIL AMENDMENT REQUIREMENTS WITHIN LANDSCAPING AREAS (INCLUDING PLANTING STRIPS).



Know what's below. Call before you dig.

ATTENTION CONTRACTORS

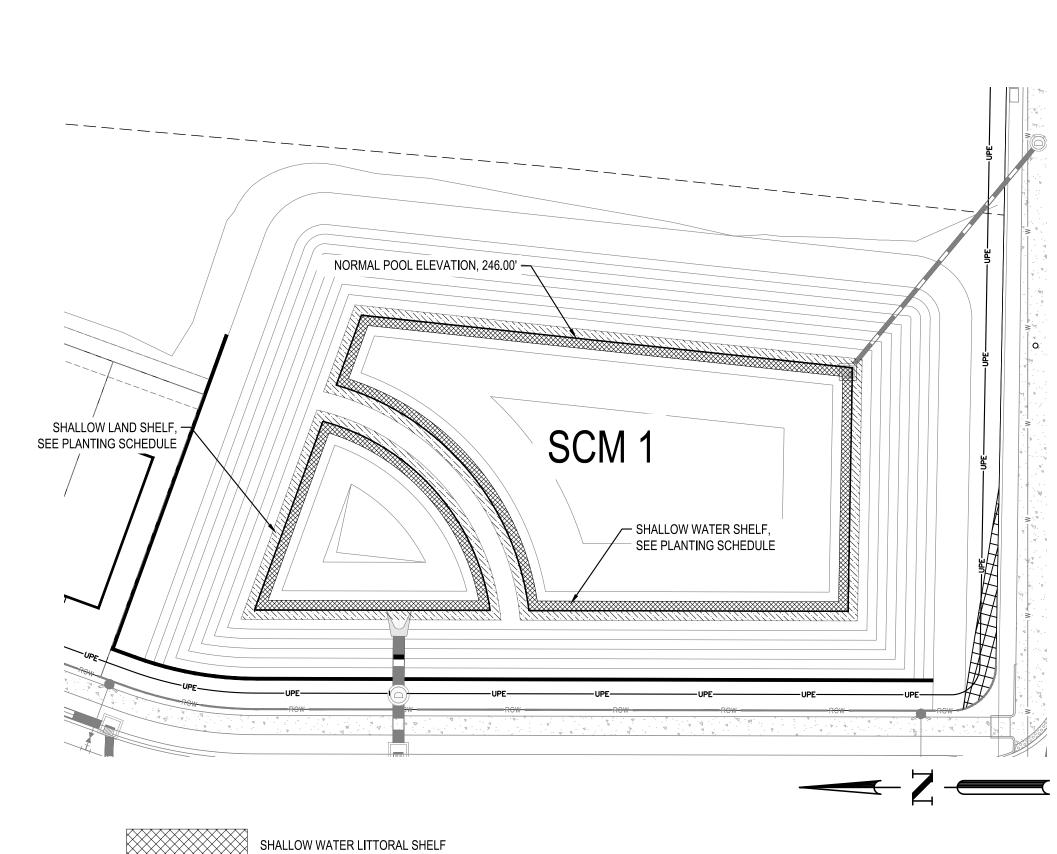
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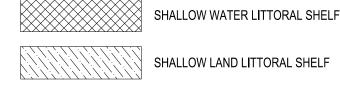
The Construction Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for *contacting the Public Works Department* at (919) 996-2409, and the **Public Utilities Department** at (919) 996-4540 at least twenty four hours prior to beginning any of their construction.

Failure to notify both City Departments in advance of beginning construction, will result in the issuance of monetary fines, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.

Failure to call for Inspection, Install a Downstream Plug, have Permitted Plans on the Jobsite, or any other Violation of City of Raleigh Standards will result in a Fine and Possible Exclusion from future work in the City of Raleigh.

FILE NUMBER: 7734-02 DATE: 04/04/2024 L1-5





NOTE: PLANTS TO BE ARRANGED IN NATURAL CLUSTERS OR GROUPINGS, NOT IN ROWS

SCM 1 SHALLOW WATER PLANTINGS

NORMAL POOL ELEVATION: 246.00'

VEGETATED SHELF: 1,941 S.F.

REQUIRED: .25 PLANTS PER SQUARE FOOT 0.25 PLANTS x 1,941 S.F. = 485 PLANTS

PROVIDED: (162) RC, (162) LC, (162) CT

SCM 1 SHALLOW LAND PLANTINGS

NORMAL POOL ELEVATION: 246.00'

VEGETATED SHELF: 2,088 S.F.

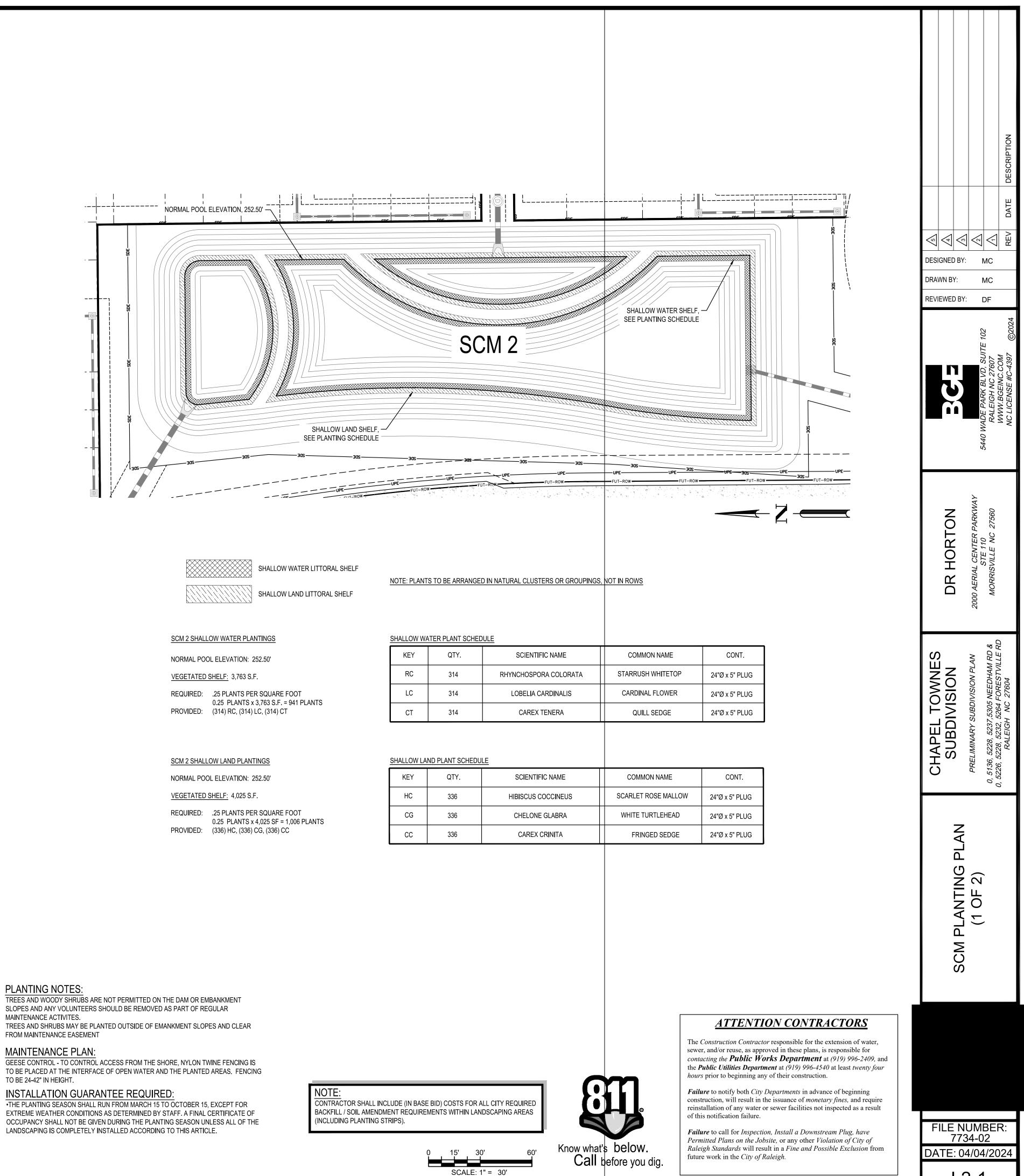
REQUIRED: .25 PLANTS PER SQUARE FOOT 0.25 PLANTS x 2,088 SF = 522 PLANTS PROVIDED: (174) HC, (174) CG, (174) CC

SHALLOW WATER PLANT SCHEDULE

KEY	QTY.	SCIENTIFIC NAME	COMMON NAME	CONT.
RC	162	RHYNCHOSPORA COLORATA	STARRUSH WHITETOP	24"Ø x 5" PLUG
LC	162	LOBELIA CARDINALIS	CARDINAL FLOWER	24"Ø x 5" PLUG
СТ	162	CAREX TENERA	QUILL SEDGE	24"Ø x 5" PLUG

SHALLOW LAND PLANT SCHEDULE

KEY	QTY.	SCIENTIFIC NAME	COMMON NAME	CONT.
HC	174	HIBISCUS COCCINEUS	SCARLET ROSE MALLOW	24"Ø x 5" PLUG
CG	174	CHELONE GLABRA	WHITE TURTLEHEAD	24"Ø x 5" PLUG
СС	174	CAREX CRINITA	FRINGED SEDGE	24"Ø x 5" PLUG





REQUIRED:	.25 PLANTS PER SQUARE FOOT
	0.25 PLANTS x 4,025 SF = 1,006 PLANTS
ROVIDED:	(336) HC, (336) CG, (336) CC

SHALLOW WA	TER PLANT SCH
KEY	QTY.
RC	314
LC	314

SHALLOW LA	ND PLANT SCHEI
KEY	QTY.
HC	336
CG	336

PLANTING NOTES:

TREES AND WOODY SHRUBS ARE NOT PERMITTED ON THE DAM OR EMBANKMENT SLOPES AND ANY VOLUNTEERS SHOULD BE REMOVED AS PART OF REGULAR MAINTENANCE ACTIVITES. TREES AND SHRUBS MAY BE PLANTED OUTSIDE OF EMANKMENT SLOPES AND CLEAR

MAINTENANCE PLAN:

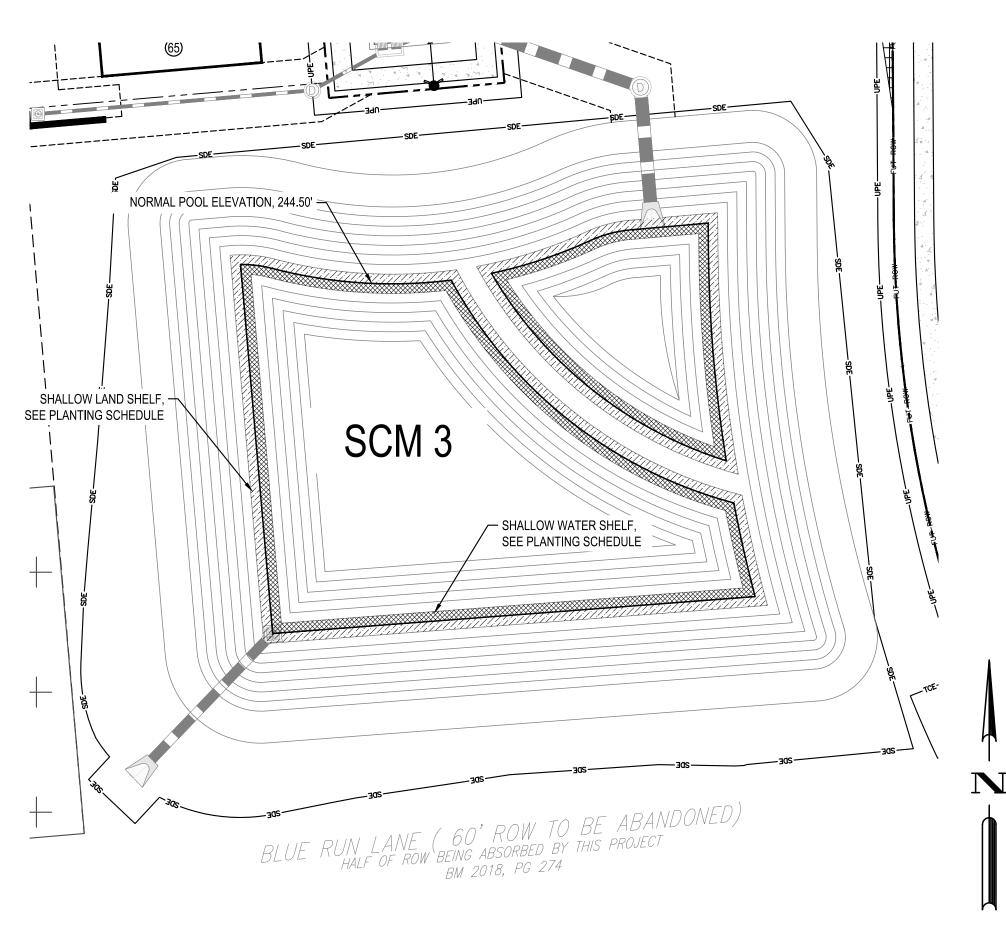
GEESE CONTROL - TO CONTROL ACCESS FROM THE SHORE, NYLON TWINE FENCING IS TO BE PLACED AT THE INTERFACE OF OPEN WATER AND THE PLANTED AREAS. FENCING TO BE 24-42" IN HEIGHT.

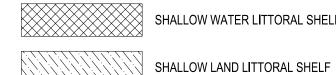
INSTALLATION GUARANTEE REQUIRED:

•THE PLANTING SEASON SHALL RUN FROM MARCH 15 TO OCTOBER 15, EXCEPT FOR EXTREME WEATHER CONDITIONS AS DETERMINED BY STAFF. A FINAL CERTIFICATE OF OCCUPANCY SHALL NOT BE GIVEN DURING THE PLANTING SEASON UNLESS ALL OF THE LANDSCAPING IS COMPLETELY INSTALLED ACCORDING TO THIS ARTICLE.



L2-1





SHALLOW WATER LITTORAL SHELF

NOTE: PLANTS TO BE ARRANGED IN NATURAL CLUSTERS OR GROUPINGS, NOT IN ROWS

SCM 3 SHALLOW WATER PLANTINGS

NORMAL POOL ELEVATION: 244.50'

VEGETATED SHELF: 2,082 S.F.

REQUIRED: .25 PLANTS PER SQUARE FOOT

0.25 PLANTS x 2,082 S.F. = 520 PLANTS PROVIDED: (174) RC, (174) LC, (174) CT

SCM 3 SHALLOW LAND PLANTINGS

NORMAL POOL ELEVATION: 244.50'

VEGETATED SHELF: 2,236 S.F.

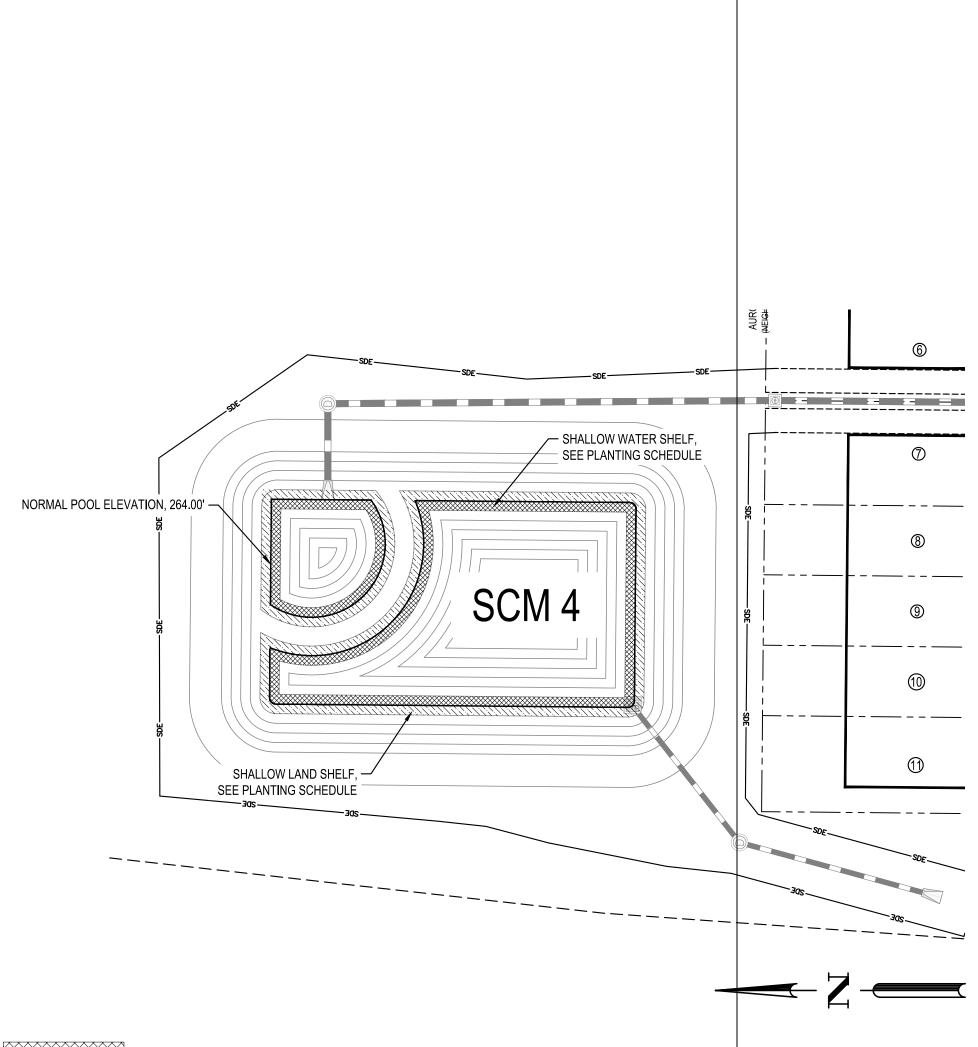
REQUIRED: 25 PLANTS PER SQUARE FOOT 0.25 PLANTS x 2,236 SF = 559 PLANTS PROVIDED: (187) HC, (187) CG, (187) CC

SHALLOW WATER PLANT SCHEDULE

KEY	QTY.	SCIENTIFIC NAME	COMMON NAME	CONT.
RC	174	RHYNCHOSPORA COLORATA	STARRUSH WHITETOP	24"Ø x 5" PLUG
LC	174	LOBELIA CARDINALIS	CARDINAL FLOWER	24"Ø x 5" PLUG
СТ	174	CAREX TENERA	QUILL SEDGE	24"Ø x 5" PLUG

SHALLOW LAND PLANT SCHEDULE

KEY	QTY.	SCIENTIFIC NAME	COMMON NAME	CONT.
HC	187	HIBISCUS COCCINEUS	SCARLET ROSE MALLOW	24"Ø x 5" PLUG
CG	187	CHELONE GLABRA	WHITE TURTLEHEAD	24"Ø x 5" PLUG
CC	187	CAREX CRINITA	FRINGED SEDGE	24"Ø x 5" PLUG





SHALLOW WATER LITTORAL SHELF

SCM 4 SHALLOW WATER PLANTINGS

NORMAL POOL ELEVATION: 264.00'

VEGETATED SHELF: 1,350 S.F. REQUIRED: .25 PLANTS PER SQUARE FOOT

0.25 PLANTS x 1,350 S.F. = 338 PLANTS PROVIDED: (113) RC, (113) LC, (113) CT

SCM 4 SHALLOW LAND PLANTINGS

NORMAL POOL ELEVATION: 264.00'

VEGETATED SHELF: 1,488 S.F.

REQUIRED: .25 PLANTS PER SQUARE FOOT 0.25 PLANTS x 1,488 SF = 372 PLANTS PROVIDED: (124) HC, (124) CG, (124) CC

S	HALLOW WA	ATER PLANT SCHED	ULE		
	KEY	QTY.	SCIENTIFIC NAME	COMMON NAME	CONT.
	RC	113	RHYNCHOSPORA COLORATA	STARRUSH WHITETOP	24"Ø x 5" PLUG
	LC	113	LOBELIA CARDINALIS	CARDINAL FLOWER	24"Ø x 5" PLUG
	СТ	113	CAREX TENERA	QUILL SEDGE	24"Ø x 5" PLUG
_					

SHALLOW LA	ND PLANT SCHEDU	LE		
KEY	QTY.	SCIENTIFIC NAME	COMMON NAME	CONT.
HC	124	HIBISCUS COCCINEUS	SCARLET ROSE MALLOW	24"Ø x 5" PLUG
CG	124	CHELONE GLABRA	WHITE TURTLEHEAD	24"Ø x 5" PLUG
CC	124	CAREX CRINITA	FRINGED SEDGE	24"Ø x 5" PLUG

PLANTING NOTES:

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TREES AND SHRUBS MAY BE PLANTED OUTSIDE OF EMANKMENT SLOPES AND CLEAR FROM MAINTENANCE EASEMENT

MAINTENANCE PLAN:

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NOTE:

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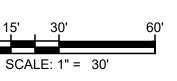
NOTE: PLANTS TO BE ARRANGED IN NATURAL CLUSTERS OR GROUPINGS, NOT IN ROWS



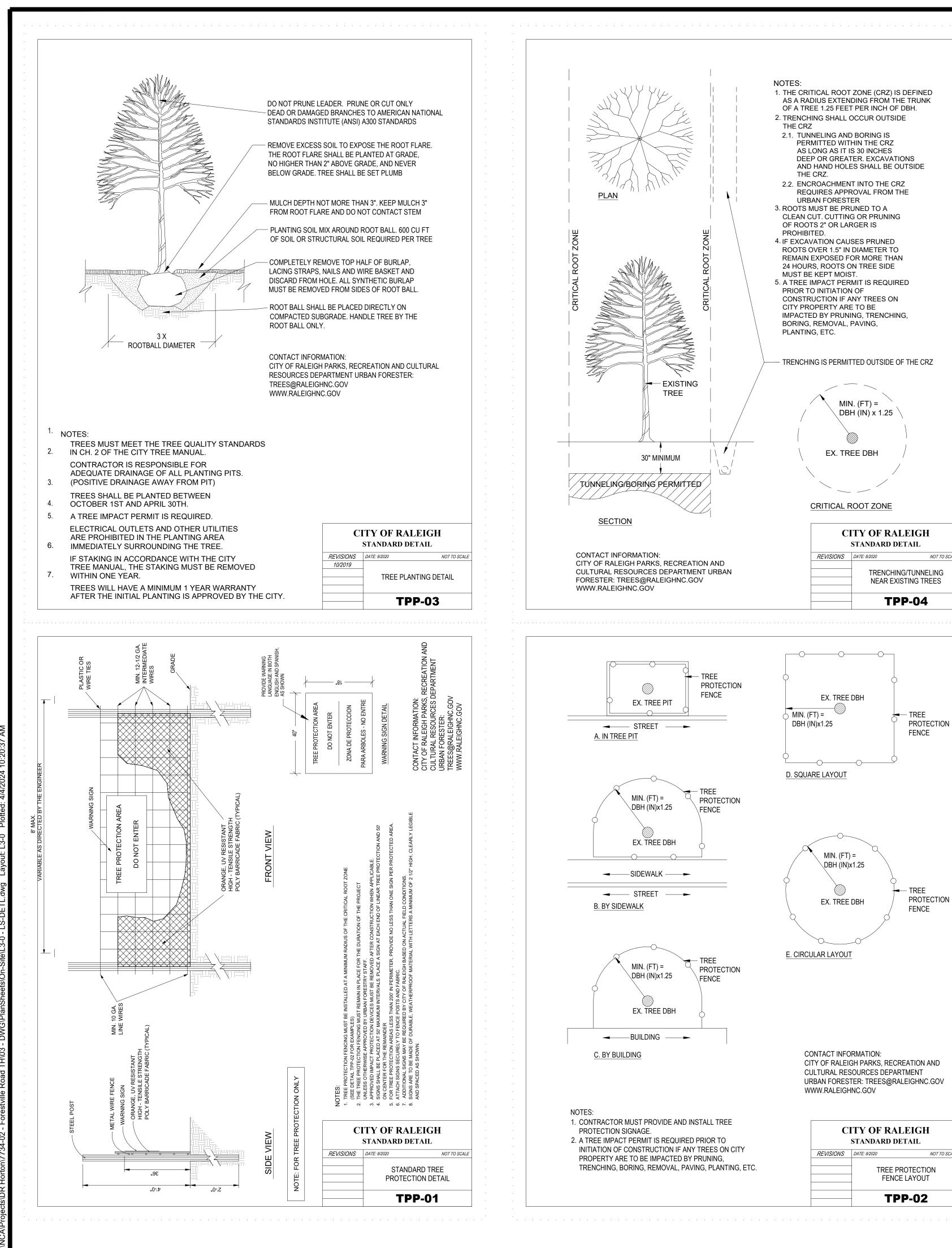
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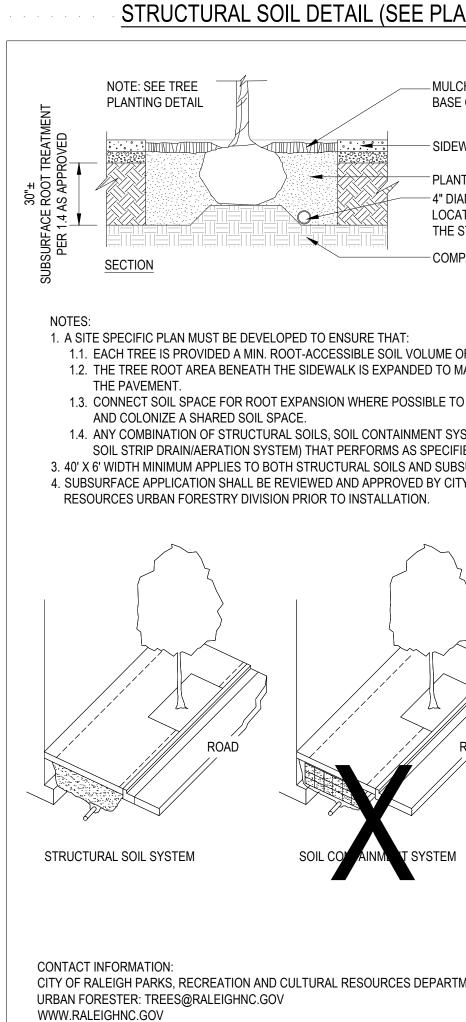
Failure to notify both City Departments in advance of beginning construction, will result in the issuance of monetary fines, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.

					Z
					DESCRIPTION
					DATE
		BY:	2	√ vc	REV
	WN B'			MC DF	
			102	201	©2024
				RALEIGH NC 27607	WWW.BGEINC.COM NC LICENSE #C-4397
	DR HORTON		2000 AERIAL CENTER PARKWAY STE 110	MORRISVILLE NC 27560	
CHAPFI TOWNES			PRELIMINARY SUBDIVISION PLAN	0, 5136, 5228, 5237,5305 NEEDHAM RD &	U, JZZU, JZZU, JZJZ, JZJZ I UNLUI VILLE NU RALEIGH NC 27604
		SCM PLANTING PLAN	(2 OF 2)		
		773	JMI 4-0 1/04	2	
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GENERAL NOTES:

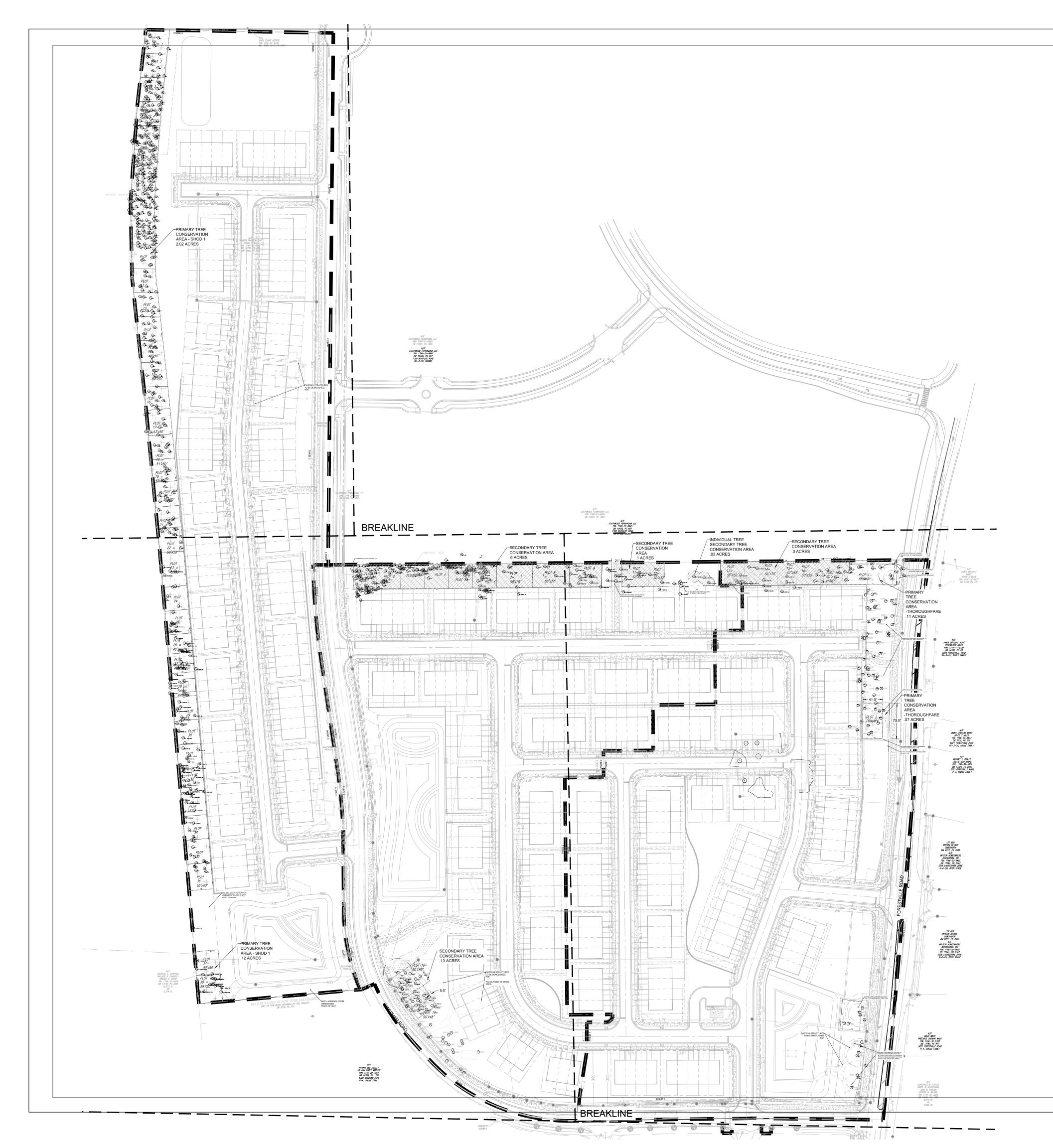
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- PRIOR TO CONSTRUCTION, IT SHALL BE THE RESPONSIBILITY OF THE CONTRAC ALL UTILITY LINES ADJACENT TO WORK AREAS. CONTRACTOR SHALL PROTECT TO THE WORK AREA DURING CONSTRUCTION. IT IS THE CONTRACTOR'S RESPO DAMAGE TO UTILITIES, STRUCTURES, OR OTHER SITE APPURTENANCES, WHICH PERFORMED BY THE CONTRACTOR, OR ANY OF THEIR SUBCONTRACTORS.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULE OF DELIVERY AND PROT MAINTAIN HEALTHY PLANT CONDITIONS.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULLY MAINTAINING ALL OF THE THE FULL MAINTENANCE PERIOD OF THE CONTRACT. THIS SHALL INCLUDE, BUT WATERING, MULCHING, PEST CONTROL AND FERTILIZING.
- 4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ADVISE THE OWNER'S REPR FOUND ON THE SITE WHICH PROHIBITS INSTALLATION AS SHOWN ON THESE DRA
- 5. PERMANENT STABILIZATION SHALL BE ESTABLISHED IN ALL UNPAVED AREAS ON DISTURBED AREA. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO ESTABLIS STABILIZATION ON THE ENTIRE SITE. THIS MAY REQUIRE WATERING, MOWING, R PERMANENT STABILIZATION IS ESTABLISHED.
- 6. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR FINE GRADING AND AN ACHIEVE FINISH GRADE PRIOR TO PLANTING IN ALL AREAS.
- 7. ANY PLANT MATERIAL WHICH IS DISEASED, INFESTED, DISTRESSED, DEAD, OR C SUBSTANTIAL COMPLETION, SHALL BE PROMPTLY REMOVED BY THE CONTRACT WITH MATERIAL OF THE SAME SPECIES, SIZE, AND QUANTITY.
- 8. THE CONTRACTOR SHALL COMPLETELY WARRANTY ALL PLANT MATERIAL FOR A SUBSTANTIAL COMPLETION. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REF PLANTING SEASON.
- 9. PRIOR TO PLANTING, SOIL SAMPLES SHALL BE TAKEN AT MULTIPLE AREAS ACRO CONFIRM PROPER SOIL CONDITION AND NUTRIENT LOAD FOR THE ESTABLISHME MATERIALS. IF UNACCEPTABLE PH OR INADEQUATE SOIL NUTRIENTS ARE DISCO NOTIFY THE LANDSCAPE ARCHITECT AND THE OWNER'S AGENT. REFER TO PLAN
- 10. FINAL GRADING SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE IN THE
- 11. THE CONTRACTOR IS ENCOURAGED TO COMPLETE TEMPORARY OR PERMANEN FOR SOIL STABILIZATION AS AREAS ARE COMPLETED AFTER GRADING. IN AREAS TEMPORARY STABILIZATION, THE TEMPORARY GRASS SHALL BE REMOVED PRIC
- 12. THIS PLAN IS TO BE IMPLEMENTED COOPERATIVELY WITH SWPPP PLAN, AS NEED EFFECTIVENESS OF THE SWPPP PLAN FOR THIS SITE.

LAN FOR LOCATIONS)	· · · · · · · · · ·		
JLCH 3" DEEP MAX. AND 3" MIN. FROM THE ASE OF THE TREE			
DEWALK PAVING AND SUBBASE			
ANTING SOIL DIAMETER PVC PIPE WRAPPED IN FABRIC DCATED IN THE LOWEST POINT AND CONNECTE IE STORM DRAINAGE SYSTEM WHERE APPLICAI DMPACTED OR UNDISTURBED SUBGRADE			DESCRIPTION
			DESC
E OF 600 CUBIC FEET. O MAXIMIZE ROOT ACCESSIBLE SOIL SPACE UN	IDER		DATE
TO ALLOW ROOT SYSTEMS OF TREES TO OVE SYSTEM (e.g., SILVA CELL), OR ROOT CHANNEL			REV 22 33
CIFIED IS ACCEPTABLE. JBSURFACE SOIL CONTAINMENT SYSTEMS.			DESIGNED BY: MPC
CITY OF RALEIGH PARKS, RECREATION AND CU	LTURAL		DRAWN BY: MPC REVIEWED BY: RCZ
	ζ		102 ©2024
			1 UD, SUITE 1 C 27607 VC.COM
ROAD	ROAD		ADE PARK B RALEIGH NU WWW.BGEIN
			5440 WADE RAL WW NC L
EM ROOT CHAPTELINE RATHWAYS			Z VWAY 50
RTMENT	NOT TO SCALE		DR HORTON 2000 AERIAL CENTER PARKWAY STE 110 MORRISVILLE NC 27560
TPP-0			DR HOI DR HOI DAERIAL CEN STE 1 MORRISVILLE
ACTOR TO VERIFY THE LOCATIONS OF CT ALL UTILITY LINES IN AND ADJACENT PONSIBILITY TO REPAIR ANY AND ALL CH OCCUR AS A RESULT OF WORK			CHAPEL TOWNES SUBDIVISION PRELIMINARY SUBDIVISION PLAN 136, 5228, 5237,5305 NEEDHAM RD & 26, 5228, 5232, 5264 FORESTVILLE RD RALEIGH NC 27604
OTECTION OF PLANT MATERIALS TO			PEL 7 PEL 7 BDIV JARY SUE 5237,53 5237,53 LEIGH A
THE PLANT MATERIALS AND LAWN FOR BUT MAY NOT BE LIMITED TO: PRESENTATIVE OF ANY CONDITION			СН РКЕ 5226,
DRAWINGS. ON-SITE OR OFF-SITE FOR ANY			<i>````</i>
BLISH PERMANENT AND FINAL 6, RAKING, AND RE-SEEDING UNTIL			IL S
ANY ADDITIONAL FILL REQUIRED TO R OTHERWISE REJECTED, PRIOR TO			DETAIL
CTOR FROM THE SITE AND REPLACED			
R A PERIOD OF TWO YEARS AFTER REPLACEMENTS DURING THE NORMAL			ANDSCAPE
CROSS THE SITE, AND LAB TESTED, TO HMENT OF THE SPECIFIED PLANT SCOVERED, CONTRACTOR SHALL LANTING MIX NOTES.			LAND
THE FIELD PRIOR TO PLANTING. ENT SEEDING OR SODDING IN STAGES			
EAS WHERE SEED IS USED FOR RIOR TO LAYING SOD.		ATTENTION CONTRACTORS	
EEDED, TO MAXIMIZE THE		sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Works Department at (919) 996-2409, and the Public Utilities Department at (919) 996-4540 at least twenty four hours prior to beginning any of their construction.	
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		future work in the City of Raleigh.	DATE: 04/04/2024

L3-0



UDO 9.1.4.A. Primary Tree 1. Primary Tree Conser 1. Primary Tree Conser 2. Primary Tree Conse 3. Primary Tree Conse

TCA LEGEND:

SECONDARY TCA

Tree Conservation Plan Data Sheet UDO Article 9.1 Tree Conservation

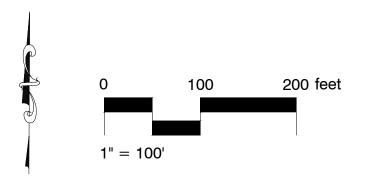
(Include applicable information on the plan sheet)

Gross Site Acres:	43.86	ac	
Right-of-way to be dedicated with this project:	9.13	ac	
Net Site Acres:	34.73	ac	
	Number <u>of Acres</u>	Percer <u>of Tra</u>	
DO 9.1.4.A. Primary Tree Conservation Areas			
1. Primary Tree Conservation Area - SHOD 1	2.14	ac 6.2	
1. Primary Tree Conservation Area - SHOD 2		ac	
2. Primary Tree Conservation Area - Parkway Frontage		ac	
3. Primary Tree Conservation Area - CM		_ac	
4. Primary Tree Conservation Area - MPOD		ac	
5. Primary Tree Conservation Area - Champion Tree XX" dbh species		ac	
6. Primary Tree Conservation Area - Neuse Buffer Zone 2		ac	
7. Primary Tree Conservation Area - 45% Slopes		ac	
8. Primary Tree Conservation Area -Thoroughfare	.18	ac .5	
Subtotal of Primary Tree Conservation Areas:	2.32	ac 6.7	
	2.32	_ac_6.7	
DO 9.1.4.D.2 Tree Conservation Area - Greenway	2.32	_	
DO 9.1.4.D.2 Tree Conservation Area - Greenway	<u>2.32</u>	_	
DO 9.1.4.D.2 Tree Conservation Area - Greenway DO 9.1.4.B.1.a. & b. Secondary Tree Conservation Areas (Include perimeter buffers and their alternate compliance areas)	1.13	ac	
DO 9.1.4.D.2 Tree Conservation Area - Greenway DO 9.1.4.B.1.a. & b. Secondary Tree Conservation Areas (Include perimeter buffers and their alternate compliance areas)	1.13	ac	
DO 9.1.4.D.2 Tree Conservation Area - Greenway DO 9.1.4.B.1.a. & b. Secondary Tree Conservation Areas (Include perimeter buffers and their alternate compliance areas) DO 9.1.4.B.1.c. & d. Individual Tree Secondary Tree Conservation Ar	<u>1.13</u> reas .03	ac ac_3.3	
IDO 9.1.4.D.2 Tree Conservation Area - Greenway IDO 9.1.4.B.1.a. & b. Secondary Tree Conservation Areas (Include perimeter buffers and their alternate compliance areas) IDO 9.1.4.B.1.c. & d. Individual Tree Secondary Tree Conservation Ar (Include individual trees and their alternate compliance areas)	<u>1.13</u> reas .03	ac ac3.3 ac9	
DO 9.1.4.D.2 Tree Conservation Area - Greenway DO 9.1.4.B.1.a. & b. Secondary Tree Conservation Areas (Include perimeter buffers and their alternate compliance areas) DO 9.1.4.B.1.c. & d. Individual Tree Secondary Tree Conservation Are (Include individual trees and their alternate compliance areas) Subtotal of Secondary Tree Conservation Areas: TOTAL ALL TREE CONSERVATION AREA PROVIDED:	<u>1.13</u> reas .03 : <u>1.16</u>	ac ac _3.3 ac _9 ac _4.1	
IDO 9.1.4.D.2 Tree Conservation Area - Greenway IDO 9.1.4.B.1.a. & b. Secondary Tree Conservation Areas (Include perimeter buffers and their alternate compliance areas) IDO 9.1.4.B.1.c. & d. Individual Tree Secondary Tree Conservation Are (Include individual trees and their alternate compliance areas) Subtotal of Secondary Tree Conservation Areas: TOTAL ALL TREE CONSERVATION AREA PROVIDED: IDO 9.1.9. Watershed Protection Overlay Districts	1.13 reas .03 : <u>1.16</u> <u>3.48</u>	ac ac _3.3 ac _9 ac _4.1	
DO 9.1.4.D.2 Tree Conservation Area - Greenway DO 9.1.4.B.1.a. & b. Secondary Tree Conservation Areas (Include perimeter buffers and their alternate compliance areas) DO 9.1.4.B.1.c. & d. Individual Tree Secondary Tree Conservation Areas (Include individual trees and their alternate compliance areas) Subtotal of Secondary Tree Conservation Areas: TOTAL ALL TREE CONSERVATION AREA PROVIDED: DO 9.1.9. Watershed Protection Overlay Districts WPOD - Wooded Area (preserved)	<u>1.13</u> reas .03 : <u>1.16</u> <u>3.48</u>	ac ac _3.3 ac9 ac _4.1 ac _10.9	
IDO 9.1.4.D.2 Tree Conservation Area - Greenway IDO 9.1.4.B.1.a. & b. Secondary Tree Conservation Areas (Include perimeter buffers and their alternate compliance areas) IDO 9.1.4.B.1.c. & d. Individual Tree Secondary Tree Conservation Are (Include individual trees and their alternate compliance areas) IDO 9.1.4.B.1.c. & d. Individual Tree Secondary Tree Conservation Are (Include individual trees and their alternate compliance areas) IDO 9.1.4.B.1.c. & d. Individual Tree Secondary Tree Conservation Areas: IDO 9.1.4.B.1.c. & d. Individual Tree Secondary Tree Conservation Areas: IDO 9.1.4.B.1.c. & d. Individual trees and their alternate compliance areas) IDO 9.1.4.B.1.c. & d. Individual trees and their alternate compliance areas) IDO 9.1.4.B.1.c. & d. Individual trees and their alternate compliance areas) IDO 9.1.4.B.1.c. & d. Individual trees and their alternate compliance areas) IDO 9.1.4.B.1.c. & d. Individual trees and their alternate compliance areas) IDO 9.1.4.B.1.c. & d. Individual trees and their alternate compliance areas) IDO 9.1.4.B.1.c. & d. Individual trees and their alternate compliance areas) IDO 9.1.9. Watershed Protection Overlay Districts IDO 9.1.9. Watershed Protection Overlay Districts IWPOD - Wooded Area (preserved) IWPOD - Wooded Area (planted) IWPOD - Wooded Area (planted)	1.13 reas .03 : <u>1.16</u> <u>3.48</u>	ac <u>3.3</u> ac <u>3.3</u> ac <u>9</u> ac <u>4.1</u> ac <u>10.9</u>	
IDO 9.1.4.D.2 Tree Conservation Area - Greenway IDO 9.1.4.B.1.a. & b. Secondary Tree Conservation Areas (Include perimeter buffers and their alternate compliance areas) IDO 9.1.4.B.1.c. & d. Individual Tree Secondary Tree Conservation Are (Include individual trees and their alternate compliance areas) Subtotal of Secondary Tree Conservation Areas: TOTAL ALL TREE CONSERVATION AREA PROVIDED: IDO 9.1.9. Watershed Protection Overlay Districts IWPOD - Wooded Area (preserved) IWPOD - Wooded Area (preserved)	1.13 reas .03 : <u>1.16</u> <u>3.48</u>	ac 3.3 ac 3.3 ac .9 ac 4.1 ac 10.9 ac ac	
JDO 9.1.4.D.2 Tree Conservation Area - Greenway JDO 9.1.4.B.1.a. & b. Secondary Tree Conservation Areas (Include perimeter buffers and their alternate compliance areas) JDO 9.1.4.B.1.c. & d. Individual Tree Secondary Tree Conservation Area (Include individual trees and their alternate compliance areas) Subtotal of Secondary Tree Conservation Areas: TOTAL ALL TREE CONSERVATION AREA PROVIDED: JDO 9.1.9. Watershed Protection Overlay Districts JWPOD - Wooded Area (preserved) JWPOD - Wooded Area (planted)	1.13 reas .03 : <u>1.16</u> <u>3.48</u>	ac <u>3.3</u> ac <u>3.3</u> ac <u>9</u> ac <u>4.1</u> ac <u>10.9</u> ac <u>ac</u> ac <u>ac</u>	

SEE BACK-UP CALCULATIONS INCLUDED IN PACKAGE.

PRIMARY TCA - SHOD - 1 AND THOROUGHFARE

ALL TCA PLOTS ARE 50'X50', UNLESS OTHERWISE NOTED.



	General No	otes	
1	PSR	2024/04/02	
No.	Revision/Issue	Date	
PROS 227 GL/ WWW.F	ned By: PECT LANDSCAPE ARC ASCOCK STREET, RALEIGH, M PROSPECT-LA.COM GNERLANDSCAPE@GMAIL.C	NC 27604	
PROSPECT L	ANDSCAPE ARCHITECTURE PLLC		
PROSPECT L	ANDSCAPE ARCHITECTURE PLLC		
Projec	ANDSCAPE ARCHITECTURE PLLC t/Client: PEL TOWNES SUBD	IVISION	
Projec CHAI	t/Client:		
Projec CHAI FORE RALEI	t/Client: PEL TOWNES SUBD STVILLE ROAD & NEEDI GH, NC		
Projec CHAI FORE RALEI Projec FORE Date	t/Client: PEL TOWNES SUBD STVILLE ROAD & NEED GH, NC ct STVILLE /04/02	HAM ROAD Sheet	



Project Name: Chapel Tov

Right-

TCA LEGEND:

SECONDARY TCA

ALL TCA PLOTS ARE 50'X50', UNLESS OTHERWISE NOTED.

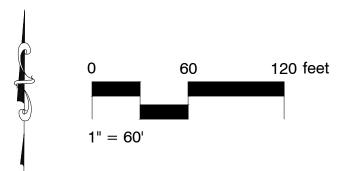
Tree Conservation Plan Data Sheet UDO Article 9.1 Tree Conservation

(Include applicable information on the plan sheet)

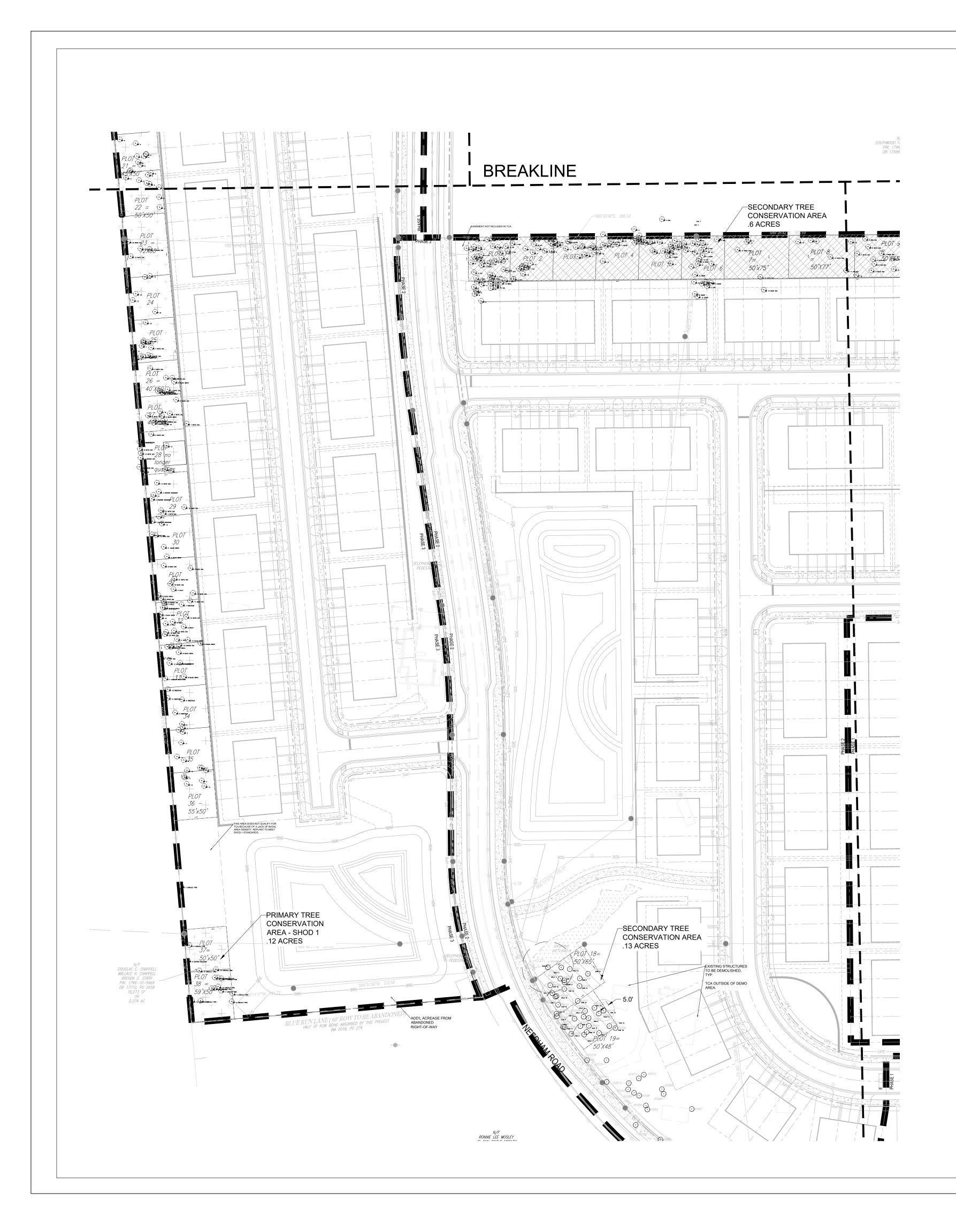
Gross Site Acres:	43.86	ac		
Right-of-way to be dedicated with this project:	9.13	ac		
Net Site Acres:	34.73	ac		
	Number <u>of Acres</u>		Percer <u>of Trac</u>	
JDO 9.1.4.A. Primary Tree Conservation Areas				
1. Primary Tree Conservation Area - SHOD 1	2.14	ac	6.2	
1. Primary Tree Conservation Area - SHOD 2		ac		
2. Primary Tree Conservation Area - Parkway Frontage		ac		
3. Primary Tree Conservation Area - CM		ac		
4. Primary Tree Conservation Area - MPOD		ac		_
5. Primary Tree Conservation Area - Champion Tree XX" dbh species		ac		
6. Primary Tree Conservation Area - Neuse Buffer Zone 2		ac		
7. Primary Tree Conservation Area - 45% Slopes		ac		
8. Primary Tree Conservation Area -Thoroughfare	.18	ac	.5	
Subtotal of Primary Tree Conservation Areas:	2.32	ac	6.7	
Subtotal of Primary Tree Conservation Areas: JDO 9.1.4.D.2 Tree Conservation Area - Greenway	2.32	ac	6.7	_
		ac		
JDO 9.1.4.D.2 Tree Conservation Area - Greenway	<u>2.32</u>	ac	6.7 3.3	
JDO 9.1.4.D.2 Tree Conservation Area - Greenway JDO 9.1.4.B.1.a. & b. Secondary Tree Conservation Areas (Include perimeter buffers and their alternate compliance areas)	1.13	ac		
JDO 9.1.4.D.2 Tree Conservation Area - Greenway JDO 9.1.4.B.1.a. & b. Secondary Tree Conservation Areas (Include perimeter buffers and their alternate compliance areas)	1.13	ac	3.3	
JDO 9.1.4.D.2 Tree Conservation Area - Greenway JDO 9.1.4.B.1.a. & b. Secondary Tree Conservation Areas (Include perimeter buffers and their alternate compliance areas) JDO 9.1.4.B.1.c. & d. Individual Tree Secondary Tree Conservation Ar	<u>1.13</u> eas .03	ac ac	3.3	
JDO 9.1.4.D.2 Tree Conservation Area - Greenway JDO 9.1.4.B.1.a. & b. Secondary Tree Conservation Areas (Include perimeter buffers and their alternate compliance areas) JDO 9.1.4.B.1.c. & d. Individual Tree Secondary Tree Conservation Ar (Include individual trees and their alternate compliance areas)	<u>1.13</u> eas .03	ac ac ac	3.3	
JDO 9.1.4.D.2 Tree Conservation Area - Greenway JDO 9.1.4.B.1.a. & b. Secondary Tree Conservation Areas (Include perimeter buffers and their alternate compliance areas) JDO 9.1.4.B.1.c. & d. Individual Tree Secondary Tree Conservation Ar (Include individual trees and their alternate compliance areas) Subtotal of Secondary Tree Conservation Areas: TOTAL ALL TREE CONSERVATION AREA PROVIDED:	<u>1.13</u> eas .03 <u>1.16</u>	ac ac ac	3.3 .9 4.1	
JDO 9.1.4.D.2 Tree Conservation Area - Greenway JDO 9.1.4.B.1.a. & b. Secondary Tree Conservation Areas (Include perimeter buffers and their alternate compliance areas) JDO 9.1.4.B.1.c. & d. Individual Tree Secondary Tree Conservation Ar (Include individual trees and their alternate compliance areas) Subtotal of Secondary Tree Conservation Areas: TOTAL ALL TREE CONSERVATION AREA PROVIDED: JDO 9.1.9. Watershed Protection Overlay Districts	<u>1.13</u> eas .03 <u>1.16</u> 3.48	ac ac ac	3.3 .9 4.1	
JDO 9.1.4.D.2 Tree Conservation Area - Greenway JDO 9.1.4.B.1.a. & b. Secondary Tree Conservation Areas (Include perimeter buffers and their alternate compliance areas) JDO 9.1.4.B.1.c. & d. Individual Tree Secondary Tree Conservation Ar (Include individual trees and their alternate compliance areas) Subtotal of Secondary Tree Conservation Areas: TOTAL ALL TREE CONSERVATION AREA PROVIDED: JDO 9.1.9. Watershed Protection Overlay Districts JWPOD - Wooded Area (preserved)	<u>1.13</u> eas .03 <u>1.16</u> <u>3.48</u>	ac ac ac	3.3 .9 4.1	
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JDO 9.1.4.D.2 Tree Conservation Area - Greenway JDO 9.1.4.B.1.a. & b. Secondary Tree Conservation Areas (Include perimeter buffers and their alternate compliance areas) JDO 9.1.4.B.1.c. & d. Individual Tree Secondary Tree Conservation Ar (Include individual trees and their alternate compliance areas) Subtotal of Secondary Tree Conservation Areas: TOTAL ALL TREE CONSERVATION AREA PROVIDED: JDO 9.1.9. Watershed Protection Overlay Districts JWPOD - Wooded Area (preserved) JWPOD - Wooded Area (planted)	1.13 eas .03 1.16 3.48	ac ac ac ac ac	3.3 .9 4.1	

SEE BACK-UP CALCULATIONS INCLUDED IN PACKAGE.

PRIMARY TCA - SHOD - 1 AND THOROUGHFARE



	General No	otes	
	PSR Bevision/Issue	2024/04/02	
No. Desig PROS 227 GL WWW.I	PSR PSR Revision/Issue ned By: SPECT LANDSCAPE ARC ASCOCK STREET, RALEIGH, I PROSPECT-LA.COM AGNERLANDSCAPE@GMAIL.C	Date CHITECTURE, PLLC NC 27604	
No. Desig PROS 227 GL WWW.I JENWA	Revision/Issue ned By: SPECT LANDSCAPE ARC ASCOCK STREET, RALEIGH, I PROSPECT-LA.COM	Date CHITECTURE, PLLC NC 27604	
No. Desig PROS 227 GL WWW.I JENWA	Revision/Issue ned By: SPECT LANDSCAPE ARC ASCOCK STREET, RALEIGH, I PROSPECT-LA.COM AGNERLANDSCAPE@GMAIL.C	Date CHITECTURE, PLLC NC 27604 COM	
No. Desig PROS 227 GL WWW.I JENWA PROSPECTI	Revision/Issue ned By: SPECT LANDSCAPE ARC ASCOCK STREET, BALEIGH, I PROSPECT-LA.COM AGNERLANDSCAPE@GMAIL.C	Date CHITECTURE, PLLC NC 27604 COM	
No. Desig PROS 227 GL WWW.I JENWA PROSPECTION PROSPECT	Revision/Issue ned By: PECT LANDSCAPE ARC ASCOCK STREET, RALEIGH, I PROSPECT-LA.COM AGNERLANDSCAPE@GMAIL.C LANDSCAPE ARCHITECTURE PLLC Ct/Client: PEL TOWNES SUBD STVILLE ROAD & NEED IGH, NC	Date CHITECTURE, PLLC NC 27604 COM	





TCA LEGEND:

SECONDARY TCA

Tree Conservation Plan Data Sheet UDO Article 9.1 Tree Conservation

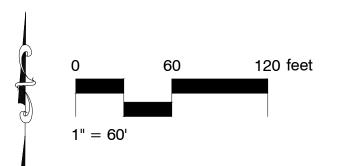
(Include applicable information on the plan sheet)

Gross Site Acres:	43.86	ac	
Right-of-way to be dedicated with this project:	9.13	ac	
Net Site Acres:	34.73	ac	
	Number <u>of Acres</u>	Perc <u>of Tr</u>	
JDO 9.1.4.A. Primary Tree Conservation Areas			
1. Primary Tree Conservation Area - SHOD 1	2.14	ac 6.2	
1. Primary Tree Conservation Area - SHOD 2		ac	
2. Primary Tree Conservation Area - Parkway Frontage		ac	
3. Primary Tree Conservation Area - CM		_ac	
4. Primary Tree Conservation Area - MPOD		ac	
5. Primary Tree Conservation Area - Champion Tree XX" dbh species		ac	
6. Primary Tree Conservation Area - Neuse Buffer Zone 2		ac	
7. Primary Tree Conservation Area - 45% Slopes		ac	
8. Primary Tree Conservation Area -Thoroughfare	.18	_{ac} .5	
Subtotal of Primary Tree Conservation Areas:	2.32	ac6.7	
Subtotal of Primary Tree Conservation Areas: JDO 9.1.4.D.2 Tree Conservation Area - Greenway	2.32	ac6.7	
JDO 9.1.4.D.2 Tree Conservation Area - Greenway JDO 9.1.4.B.1.a. & b. Secondary Tree Conservation Areas		ac	
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JDO 9.1.4.D.2 Tree Conservation Area - Greenway JDO 9.1.4.B.1.a. & b. Secondary Tree Conservation Areas (Include perimeter buffers and their alternate compliance areas) JDO 9.1.4.B.1.c. & d. Individual Tree Secondary Tree Conservation Ar	1.13 reas	ac ac3.3	
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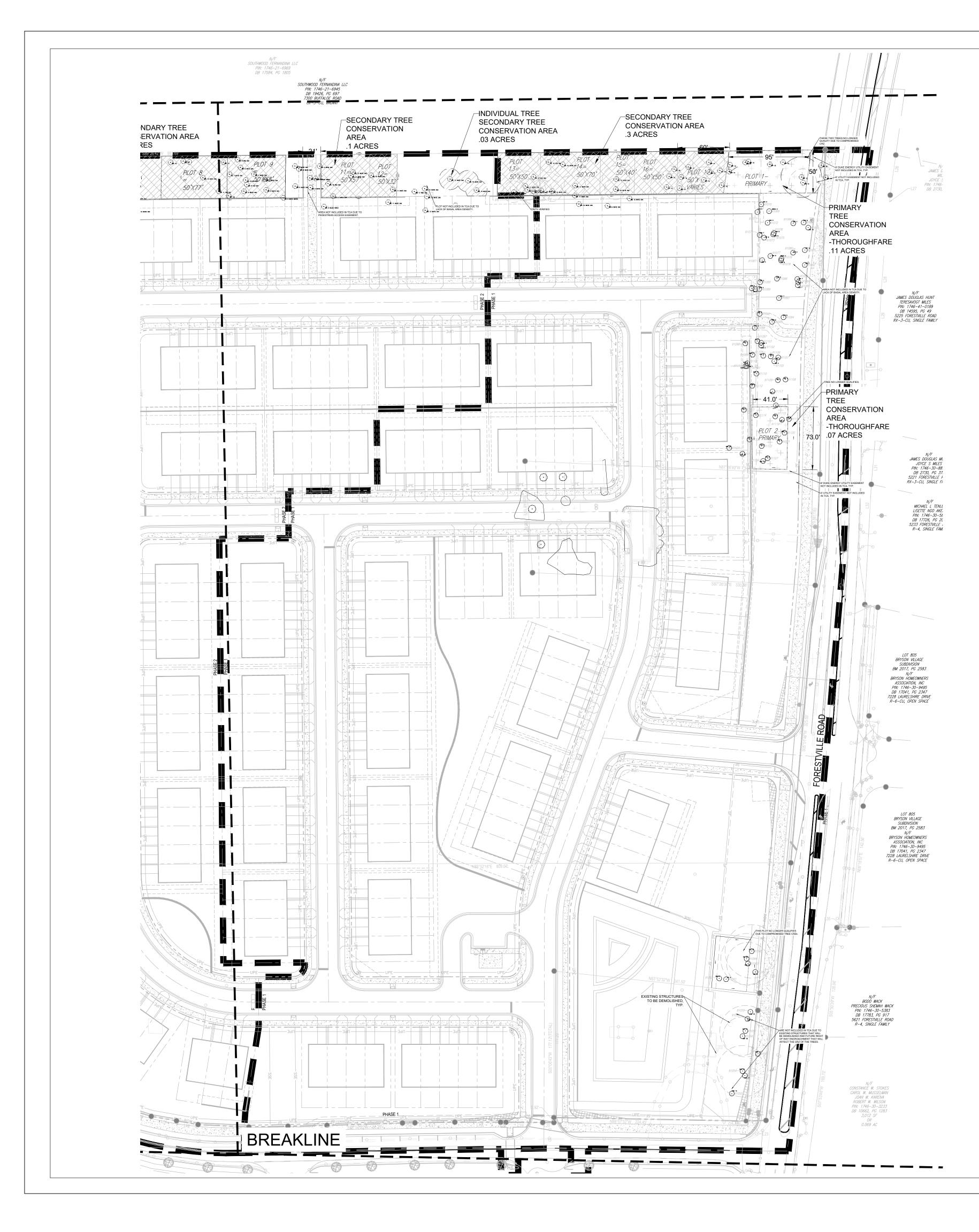
SEE BACK-UP CALCULATIONS INCLUDED IN PACKAGE.

PRIMARY TCA - SHOD - 1 AND THOROUGHFARE

ALL TCA PLOTS ARE 50'X50', UNLESS OTHERWISE NOTED.



	General No	otes	
1 No.	PSR Revision/Issue	2024/04/02 Date	
PROS 227 GL WWW.I	ned By: PECT LANDSCAPE ARC ASCOCK STREET, RALEIGH, I PROSPECT-LA.COM GNERLANDSCAPE@GMAIL.C	NC 27604	
PROSPECT I	ANDSCAPE ARCHITECTURE PLLC		
	et/Client: PEL TOWNES SUBD	DIVISION	
CHA			
FORE RALE	PEL TOWNES SUBD STVILLE ROAD & NEED GH, NC	HAM ROAD Sheet TCA EXHIBIT	
FORE RALE	PEL TOWNES SUBD STVILLE ROAD & NEED GH, NC ct STVILLE /04/02	HAM ROAD Sheet	



Project Name: Chapel Tov Right-UDO 9.1.4.A. Primary Tree 1. Primary Tree Conser 1. Primary Tree Conser 2. Primary Tree Conse 3. Primary Tree Conse 4. Primary Tree Conser 5. Primary Tree Conse

6. Primary Tree Conser 7. Primary Tree Conser 8. Primary Tree Conser Subt

UDO 9.1.4.D.2 Tree Conse UDO 9.1.4.B.1.a. & b. Seco (Include perimeter bu

UDO 9.1.4.B.1.c. & d. Indivi (Include individual tre

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UDO 9.1.9. Watershed Pro UWPOD - Wooded Area (UWPOD - Wooded Area (FWPOD - Wooded Area (p FWPOD - Wooded Area (p SWPOD - Wooded Area (p SWPOD - Wooded Area (p

TCA LEGEND:

SECONDARY TCA

Tree Conservation Plan Data Sheet UDO Article 9.1 Tree Conservation

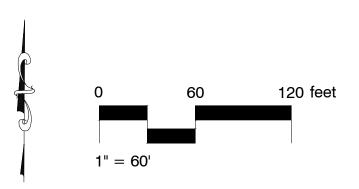
(Include applicable information on the plan sheet)

ownes Subdivision			
Gross Site Acres:	 43.86	20	
t-of-way to be dedicated with this project:	9.13	ac ac	
Net Site Acres:	34.73	ac	
her one Acres.			
	Number	Percent	
	of Acres	of Tract	
ree Conservation Areas			
ervation Area - SHOD 1	2.14	ac 6.2	%
ervation Area - SHOD 2		ac	%
ervation Area - Parkway Frontage		ac	%
ervation Area - CM		_ac	%
ervation Area - MPOD		_ac	%
ervation Area - Champion Tree XX" dbh species		ac	%
ervation Area - Neuse Buffer Zone 2		ac	%
ervation Area - 45% Slopes		ac	%
ervation Area -Thoroughfare	.18	_{ac} .5	%
			_
total of Primary Tree Conservation Areas:	2.32	ac 6.7	%
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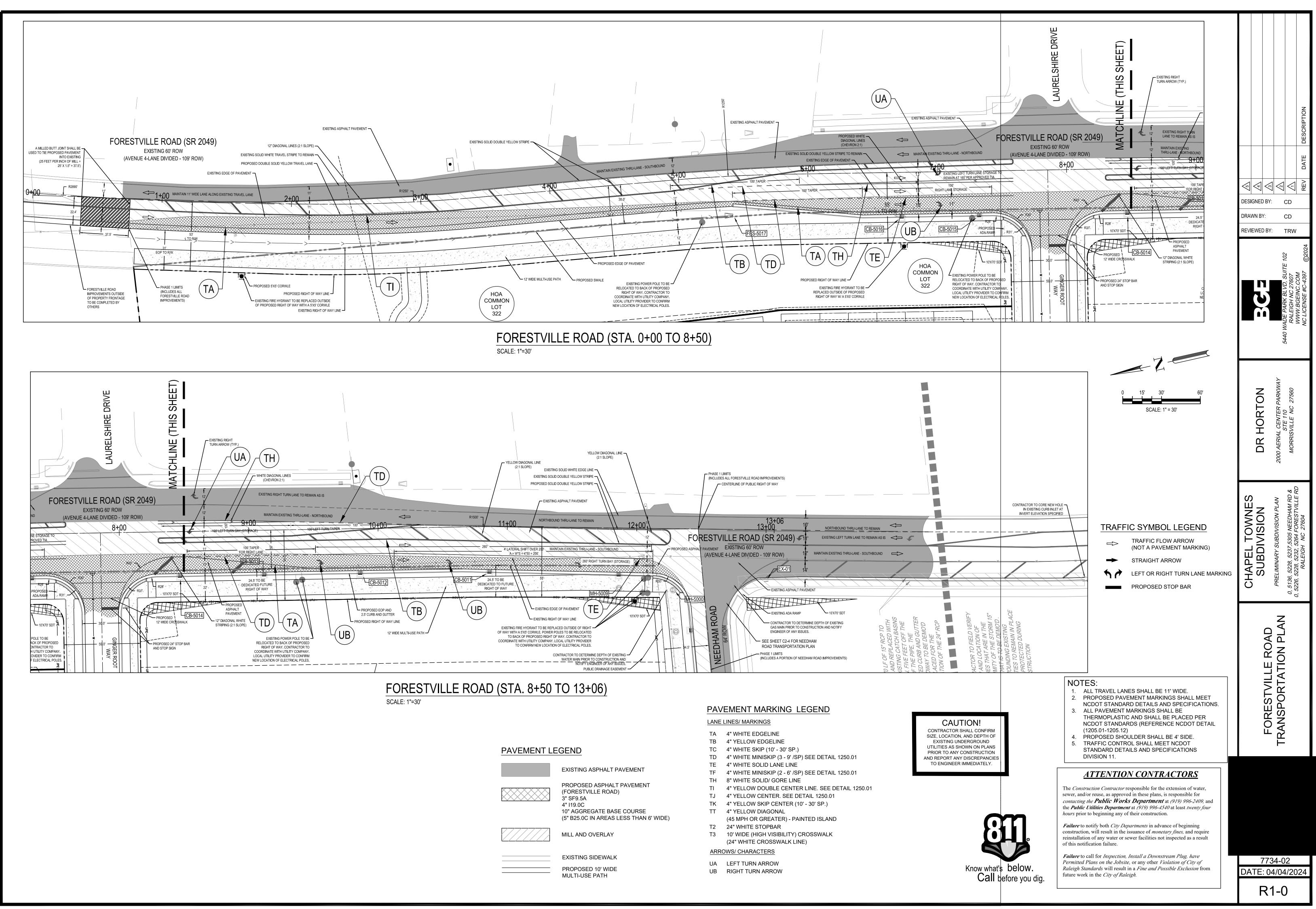
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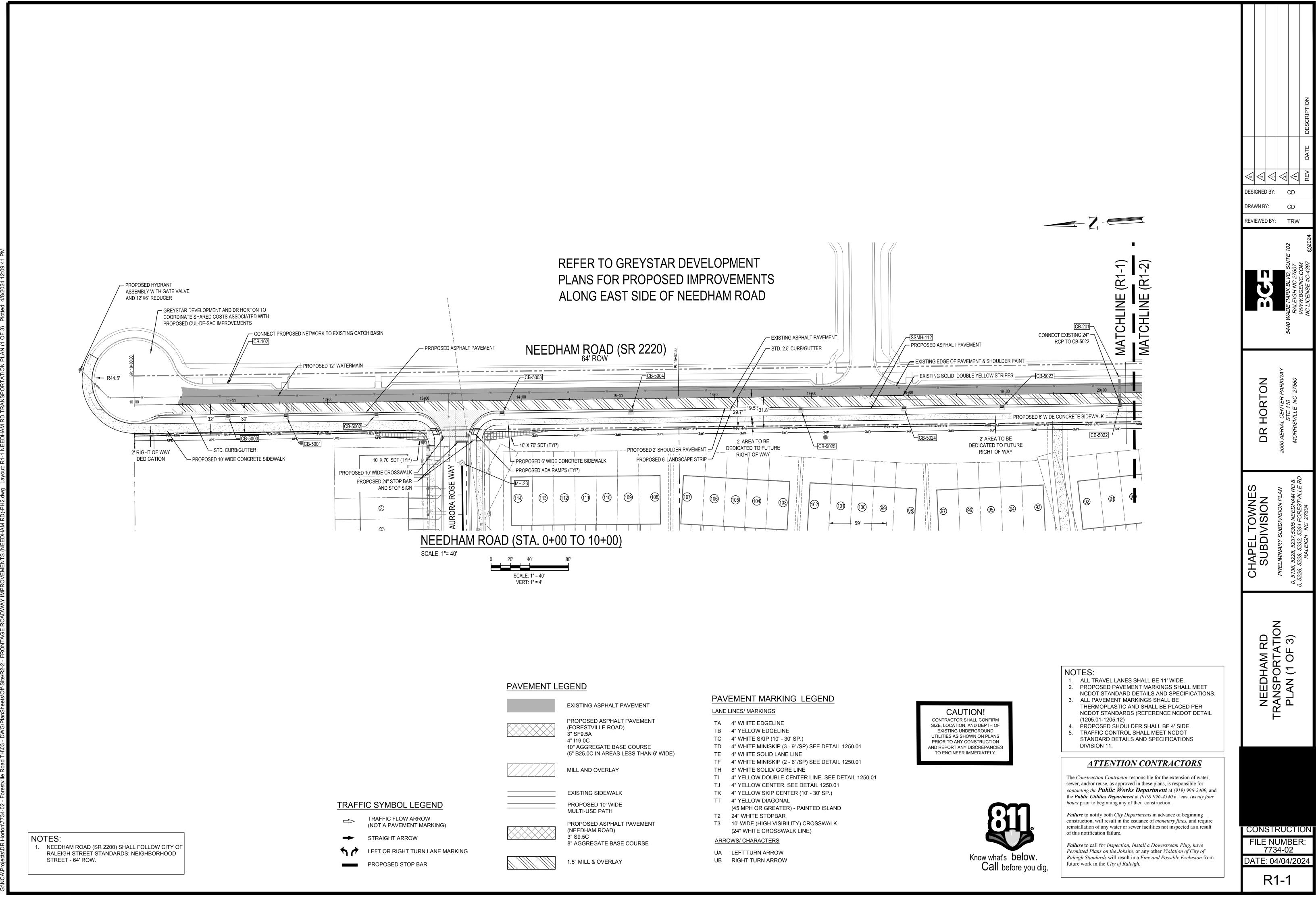
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	General No	ites
1	PSR	2024/04/02
No.	Revision/Issue	Date
PROS 227 GL WWW.F	ned By: PECT LANDSCAPE ARC ASCOCK STREET, RALEIGH, M PROSPECT-LA.COM GNERLANDSCAPE@GMAIL.C	NC 27604
	1	
PROSPECT L	ANDSCAPE ARCHITECTURE &	
	t/Client: PEL TOWNES SUBD	VISION
	STVILLE ROAD & NEED GH, NC	HAM ROAD
RALEI Projec FORE	GH, NC	Sheet TCA EXHIBIT
RALEI Projec FORE Date	GH, NC ct STVILLE /04/02	Sheet





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