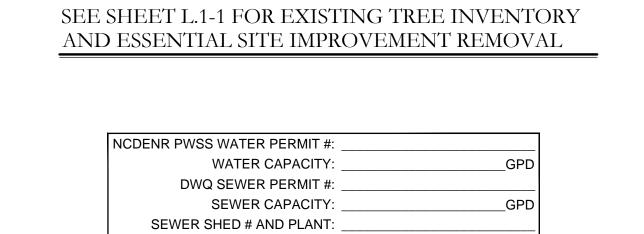


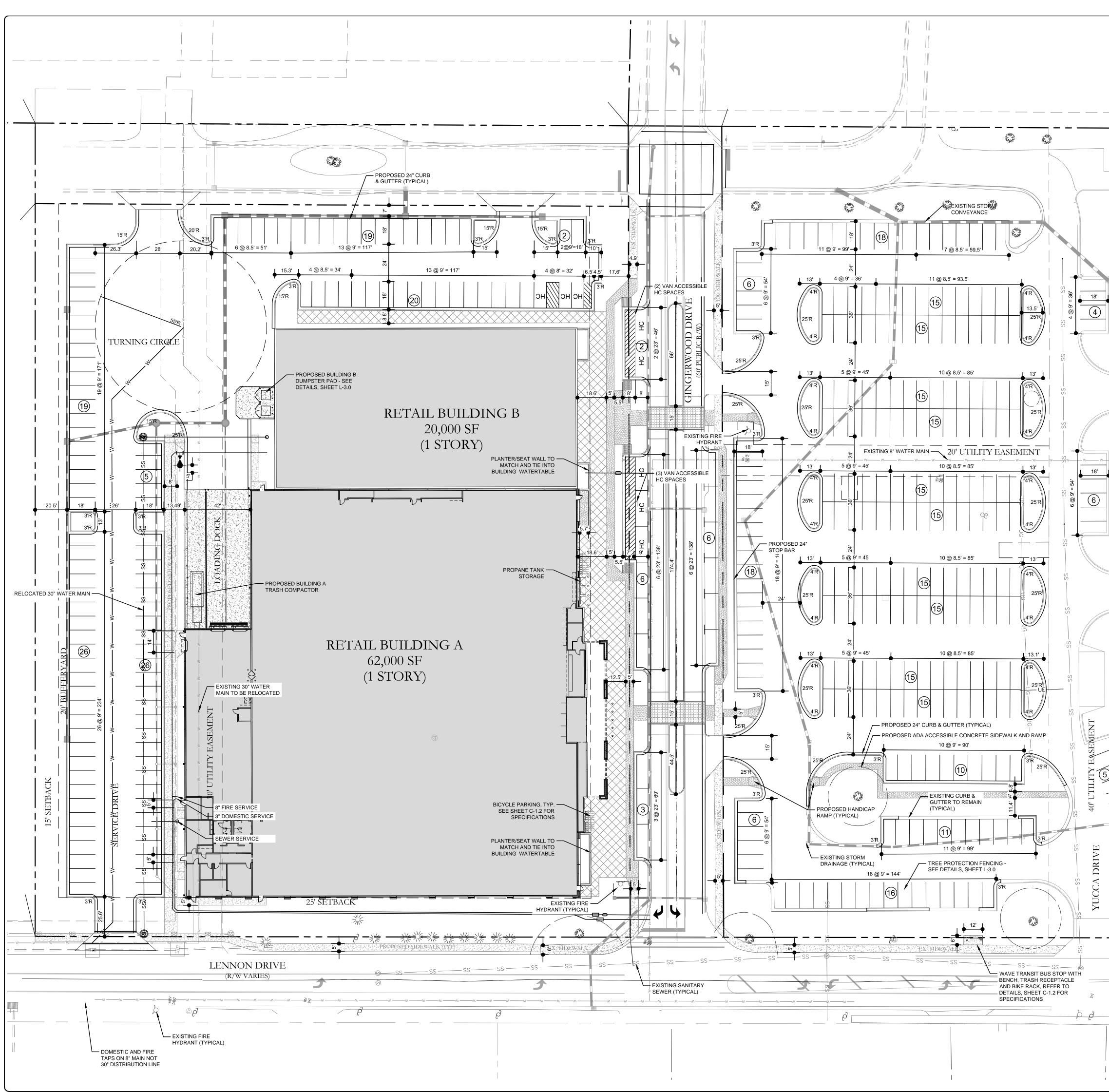
REVISIONS:	REVISIONS PER 08.03.16 TRC COMMENTS	REVISIONS PER 10.10.16 TRC COMMENTS					
CLIENT INFORMATION:			S&H CENTRE DEVELOPMENT CORP.		1611 CASTLE HAYNE ROAD, BUILDING B	WILMINGTON, NC 28401	
	FANALMUUNIE	С Z – С Ш Ш Z – С Z U – С – С – С – С – С – С – С – С – С –	100 Cinama Diriva	122 CHICHIG DIIVE	Wilmington, North Carolina 28403	(910) 791-6707 (O) (910) 791-6760 (F)	NC License #: C-2846
SITE INVENTORY & DEMO PLAN		DOLL OF NIEN - FUI IU O Z	5309 GINGERWOOD DRIVE		CITY OF WILMINGTON	NORTH CAROLINA	
		RELEASED FOR CONST:			DATE: 1.31.17 SCALE: 1" – 60'		ö
(				2	1.	0	)

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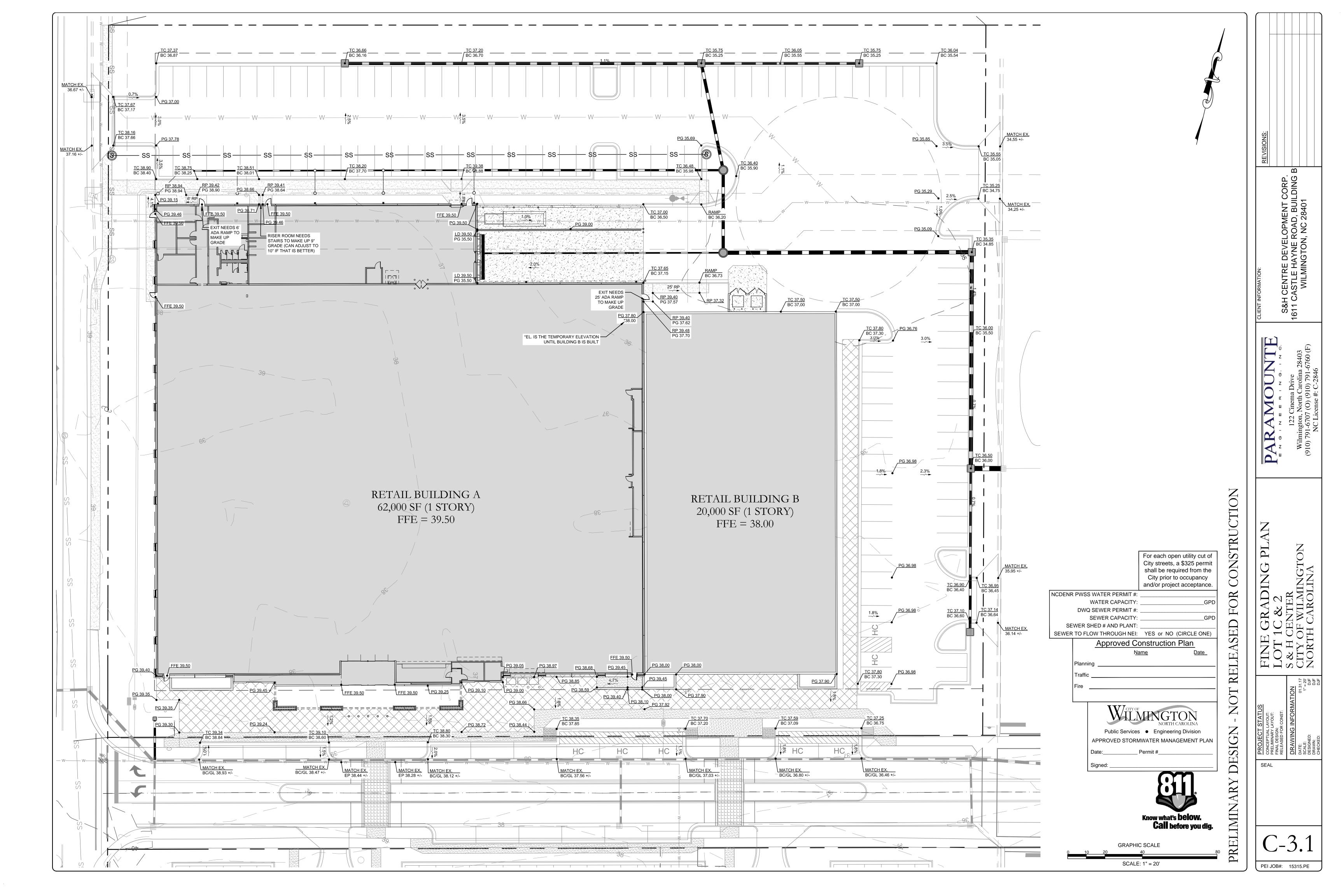


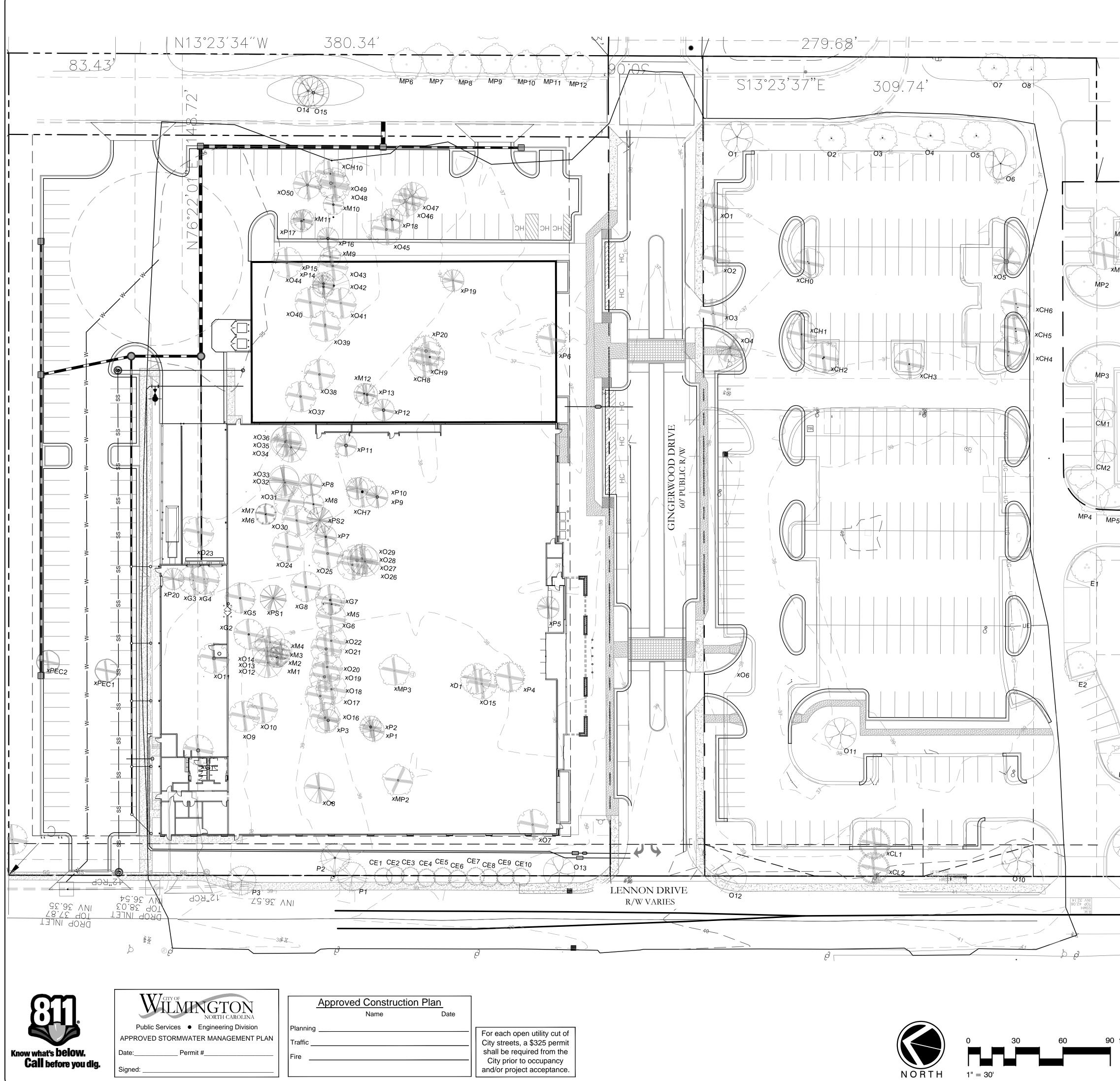
SHEET L.1-1 FOR EXISTING TREE I SESSENTIAL SITE IMPROVEMENT 1		ED FOR CONSTRUCTION
NCDENR PWSS WATER PERMIT #:	GPD	NOT RELEASED
Approved Construction Plan Name Date Planning Traffic Fire	For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.	1
WILDINGTON         NORTH CAROLINA         Public Services       • Engineering Division         APPROVED STORMWATER MANAGEMENT PLAN         Date:      Permit #	Know what's below. Call before you dig.	IMINARY DESIGN
Signed: GRAPHI <u>0 25 50</u>	C SCALE200	EL

SCALE: 1"=50'

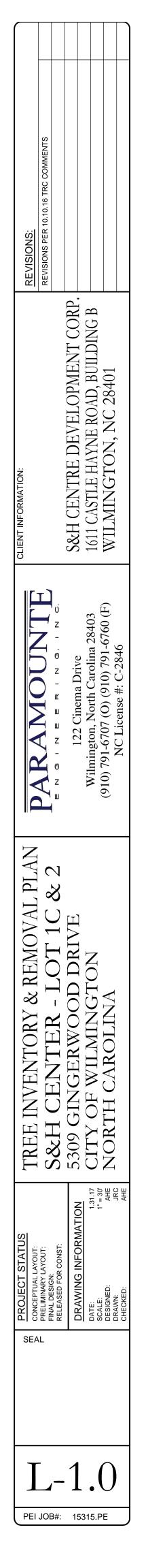


		AENTS
SITE INFORMATION:		10.10.16 TRC COMMENTS
PROJECT ADDRESS:	R04912-002-030-000 & R04912-002-031-000 5309 GINGERWOOD DRIVE	10.16 TR
CURRENT ZONING:	WILMINGTON, NC 28405 RB COMMERCIAL	
TOTAL SITE AREA:	7.40 +/- ACRES S&H CENTRE DEVELOPMENT CORP	REVISIONS: REVISIONS PER
,	1611 CASTLE HAYNE ROAD, BUILDING B WILMINGTON NC, 28401	REVI
I	THIS PARCEL IS LOCATED IN FLOOD ZONE X, WHICH IS NOT A SPECIAL FLOOD HAZARD AREA AS DETERMINED	ORP.
	BY FEMA FLOOD PANEL 3720314800J, DATED APRIL 3, 2006	
CAMA LAND USE CLASSIFICATION: I LOTS TOTAL IMPERVIOUS AREA: BUILDINGS:		ENT
PAVEMENT: SIDEWALKS:	82,000 SF 165,520 SF 15,740 SF	IM (I
TOTAL: GINGERWOOD R/W BETWEEN LOTS TOTAL IMP	<b>263,260 SF (81.7%)</b> ERVIOUS AREA:	ELC
BUILDINGS: PAVEMENT:	0 SF 24,540 SF	)EV]
SIDEWALKS: TOTAL:	<u>2,770 SF</u> 27,310 SF (87.5%)	E D HAV
		NT'R
	± 7.40 AC	client information: S&H CENTR
BUILDING A:	<u>+</u> 82,000 SF <u>+</u> 62,000 SF	Jent II S&H
-	<u>+</u> 20,000 SF 32,000 SF/ 7.40 AC = 26% COVERAGE	
DIMENSIONAL REQUIREMENTS RB - REGIONAL BUSINESS		
- MINIMUM LOT WIDTH:	1 ACRE 100'	j j z s
- MINIMUM FRONT SETBACK:	40% 25' 15'	
- MINIMUM INTERIOR SIDE SETBACK: (	25'	Drive Drive
- MAXIMUM BUILDING HEIGHT:	35'	
PARKING DATA TOTAL REQUIRED:	205 - 410 SPACES	DICINE REAL
MINIMUM RETAIL PARKING REQUIRED: 1 MAXIMUM RETAIL PARKING REQUIRED: 1		Z B Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z
	ON - 50%	5
NOTATION: c = compact car parking space	OI	8
HC = HANDICAP PARKING SPACE	CJ	1C /E
UTILITIES: PROJECTED AVERAGE DAILY FLOW ESTIMATED THROUGH		
	6,200 GPD S	
RETAIL = 100 GPD PER 1000 SF BUILDING A = (62,000 SF / 1,000 SF) * 100 GPD = BUILDING B = (20,000 SF / 1,000 SF) * 100 GPD =	A NCAC 2T RULES. 6,200 GPD 2,000 GPD 8,200 GPD 8,200 GPD 0 H NCAC 2T RULES. 1	E PLAN CENTER - L GINGERWOOD
RETAIL = 100 GPD PER 1000 SF BUILDING A = (62,000 SF / 1,000 SF) * 100 GPD = BUILDING B = (20,000 SF / 1,000 SF) * 100 GPD = TOTAL = NCDENR PWSS WATER PERMIT #:	O FOR	TE PLAN &H CENTER - L 09 GINGERWOOD
RETAIL = 100 GPD PER 1000 SF         BUILDING A = (62,000 SF / 1,000 SF) * 100 GPD =         BUILDING B = (20,000 SF / 1,000 SF) * 100 GPD =         TOTAL =         NCDENR PWSS WATER PERMIT #:         WATER CAPACITY:         DWQ SEWER PERMIT #:	EASED FOR	SITE PLAN S&H CENTER - L 5309 GINGERWOOD
RETAIL = 100 GPD PER 1000 SF BUILDING A = (62,000 SF / 1,000 SF) * 100 GPD = BUILDING B = (20,000 SF / 1,000 SF) * 100 GPD = TOTAL = NCDENR PWSS WATER PERMIT #: WATER CAPACITY: DWQ SEWER PERMIT #: SEWER CAPACITY: SEWER SHED # AND PLANT:	RELEASED FOR	
RETAIL = 100 GPD PER 1000 SF BUILDING A = (62,000 SF / 1,000 SF) * 100 GPD = BUILDING B = (20,000 SF / 1,000 SF) * 100 GPD = TOTAL = NCDENR PWSS WATER PERMIT #: WATER CAPACITY: DWQ SEWER PERMIT #: SEWER CAPACITY: SEWER SHED # AND PLANT: SEWER TO FLOW THROUGH NEI: YES C	GPD	
RETAIL = 100 GPD PER 1000 SF BUILDING A = (62,000 SF / 1,000 SF) * 100 GPD = BUILDING B = (20,000 SF / 1,000 SF) * 100 GPD = TOTAL = NCDENR PWSS WATER PERMIT #: WATER CAPACITY: DWQ SEWER PERMIT #: SEWER CAPACITY: SEWER SHED # AND PLANT:	GPD	MATION
RETAIL = 100 GPD PER 1000 SF BUILDING A = (62,000 SF / 1,000 SF) * 100 GPD = BUILDING B = (20,000 SF / 1,000 SF) * 100 GPD = TOTAL = NCDENR PWSS WATER PERMIT #: WATER CAPACITY: DWQ SEWER PERMIT #: SEWER CAPACITY: SEWER CAPACITY: SEWER SHED # AND PLANT: SEWER TO FLOW THROUGH NEI: YES C Approved Construction P Name Planning	GPD GPD GPD GPD Or NO (CIRCLE ONE) Date For each open utility cut of City streets, a \$325 permit shall be required from the	MATION
RETAIL = 100 GPD PER 1000 SF BUILDING A = (62,000 SF / 1,000 SF) * 100 GPD = BUILDING B = (20,000 SF / 1,000 SF) * 100 GPD = TOTAL = NCDENR PWSS WATER PERMIT #: WATER CAPACITY: DWQ SEWER PERMIT #: SEWER CAPACITY: SEWER CAPACITY: SEWER SHED # AND PLANT: SEWER TO FLOW THROUGH NEI: YES ( <u>Approved Construction P</u> <u>Name</u> Planning Traffic	GPD GPD GPD GPD Or NO (CIRCLE ONE) Date For each open utility cut of City streets, a \$325 permit shall be required from the	MATION
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RETAIL = 100 GPD PER 1000 SF BUILDING A = (62,000 SF / 1,000 SF) * 100 GPD = BUILDING B = (20,000 SF / 1,000 SF) * 100 GPD = TOTAL = NCDENR PWSS WATER PERMIT #: WATER CAPACITY: DWQ SEWER PERMIT #: SEWER CAPACITY: SEWER SHED # AND PLANT: SEWER TO FLOW THROUGH NEI: YES O Approved Construction P Name Planning Traffic Fire Public Services • Engineering Divisio	GPD GPD GPD or NO (CIRCLE ONE) Plan Date For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.	MATION
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RETAIL = 100 GPD PER 1000 SF BUILDING A = (62,000 SF / 1,000 SF) * 100 GPD = BUILDING B = (20,000 SF / 1,000 SF) * 100 GPD = TOTAL = NCDENR PWSS WATER PERMIT #: WATER CAPACITY: DWQ SEWER PERMIT #: SEWER CAPACITY: SEWER SHED # AND PLANT: SEWER SHED # AND PLANT: SEWER TO FLOW THROUGH NEI: YES O Approved Construction P Name Planning Traffic Fire Public Services • Engineering Divisio APPROVED STORMWATER MANAGEMENT	GPDGPDGPDGPDGPDGPDGPDFor each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.	PROJECT STATUS CONCEPTUAL LAYOUT: PRELIMINARY LAYOUT: FINAL DESIGN: RELEASED FOR CONST: DRAWING INFORMATION DATE: 13117

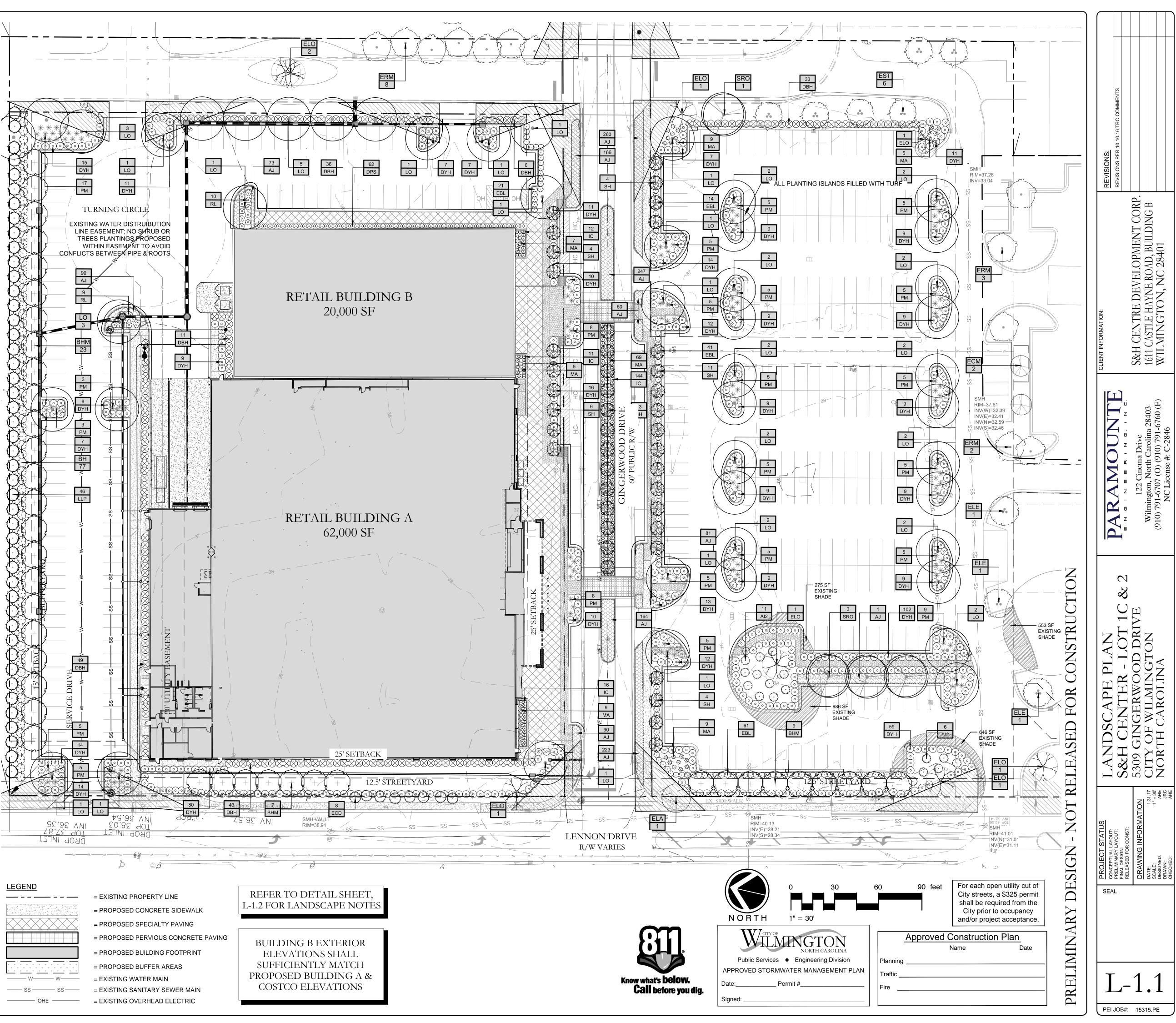




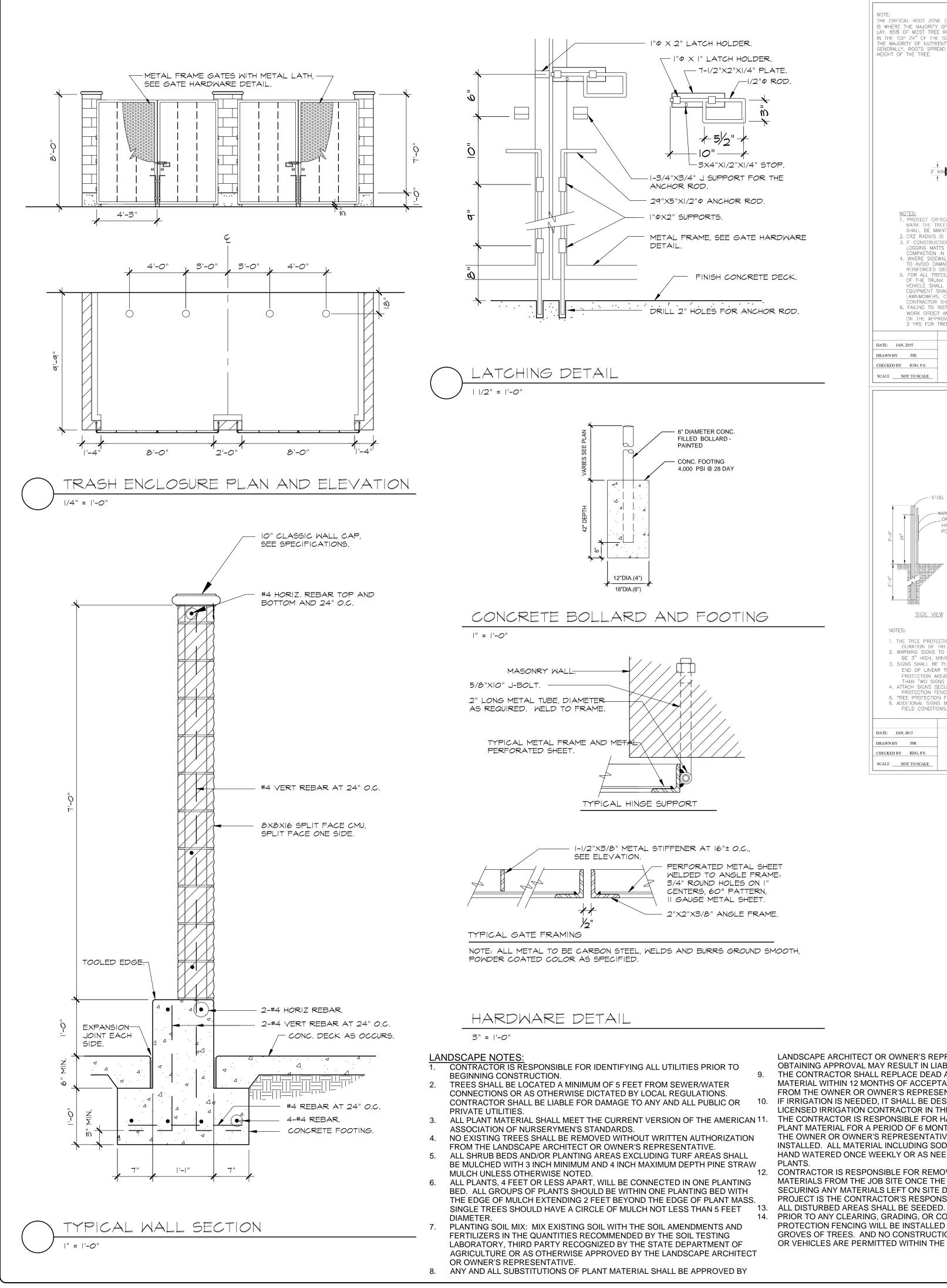
H	TREE IC	CAL		p Locat	ion	Credit	TREE ID	CAL	Tree Typ	Location		lit
-	01	8	Live Oa			2	CM1	5	Crape Myrtle	-		
-	O2 O3	7	Sawtoot Sawtoot			2	CM2	5	Crape Myrtle		1 2	
-	04	9	Sawtoot			2						
	05	7	Sawtoot	h		2	E1	7	Lacebark Elm	Building	2	
-	06	8	Live Oa			2	E2	6	Lacebark Elm			
-	07	4	Sawtoot			2	E3	7	Lacebark Elm	n Building		
-	08	4	Sawtoot			2					6	
	09 010	36 36	Live Oa Live Oa			6 6	CE1	12	Cedar	Lennon	3	
-	010	30	Live Oa			5	CE1 CE2	12	Cedar	Lennon	3	
-	012	20	Laurel			4	CE3	12	Cedar	Lennon	3	
	013	48	Live Oa	k		8	CE4	12	Cedar	Lennon	3	
-	014	13	Live Oa			3	CE5	12	Cedar	Lennon	3	
	015	20	Live Oa	k		4	CE6	10	Cedar	Lennon	3	
-						52	CE7	10	Cedar	Lennon	3	
-	P1	12	Lablalli		ing	2	CE8 CE9	10 10	Cedar	Lennon	3	
-	P1 P2	12 16	Lobloll <sup>1</sup>	· · · · · · · · · · · · · · · · · · ·	-	3 3	CE9 CE10	10	Cedar Cedar	Lennon Lennon	3	
-	. <u>–</u> РЗ	18	Loblolly		-	4	0210				30	
ľ						10				1		
								Tota	l Retained Cal	iper Inche	es 112	2
	MP1	5	Red Map	ole Build	ing	1						
///	MP2	4	Red Map			1						
//	MP3	5		ole Build		1						
-	MP4 MP5	4	Red Map Red Map			1						
-	MP5 MP6	4	Red Map		_	1						
H	MP7	5	Red Map			1						
ŀ	MP8	5	Red Map	ole Build		1						
H	MP9	4	Red Map			1						
<u> </u>	MP10	4	Red Map			1						
)))-	MP11 MP12	4	Red Map Red Map		-	1						
	IVIP 12	4	Red Map		ing	1 12						
ŀ	Protec	ted Tr	ee Mitigatio	on Calcul	ations							
	TREE ID	CAL	Tree Typ	Location	Type	RMV	TREE ID	CAL		Location	Туре	RMV
-	xO1 xO2	5 7		Building Building	-	-	xMP1 xMP2	4 14		Building Building	-	- _
-	x02 x03	7	Sawtooth	Building Building	-	-	xMP2 xMP3	6		Building	Reg -	-
	xO4	8	Live Oak	Building	Reg	3						5
-	x05	24		Building	SICK	-		10		D. IL II		
-	xO6 xO7	6 20		Building Building	- Reg	- 7	xG1 xG2	19 12		Building Building	Reg Reg	6 4
	xO8	48	Laurel Oak	Building	Sig	32	xG3	12		Building	Reg	4
	xO9	4		Building	-	-	xG4	10		Building	Reg	3
///	xO10 xO11	6 22		Building Building	- Reg	- 7	xG5 xG6	11 8		Building Building	Reg Reg	4
/	xO12	5		Building	-	5	xG7	12		Building	Reg	4
	xO13	6		Building	-	6	xG8	13	Sweet Gum	Building	Reg	4
H	xO14 xO15	9 20		Building ServicePad	Reg Reg	3						32
	xO16	13		Building	SICK	-	xM1	4	Magnolia	Building	Reg	1
	x017	12	Water Oak	Building	Reg	4	xM2	6	Magnolia	Building	Reg	2
	xO18 xO19	8 18		Building Building	SICK Reg	- 6	xM3 xM4	6 4		Building Building	Reg Reg	2
-	xO19 xO20	9		Building	SICK	-	xM5	9		Building	Sig	6
-	xO21	17	Water Oak	Building	Reg	6	xM6	4	Magnolia	Building	Reg	1
- F	xO22 xO23	9 20		Building Building	Reg Reg	3	xM7 xM8	6 10		Building Building	Reg Sig	2 7
	xO24	8	Water Oak	Building	Reg	3	xM9	6	Magnolia	Building	Reg	2
-	xO25 xO26	18 8		Building Building	Reg	6 3	xM10 xM11	8 12	_	Building Building	Sig Sig	<u>5</u> 8
-	x026 x027	8 9		Building	Reg Reg	3	xM11 xM12	8	-	Building	Sig	5
	xO28	20	Laurel Oak	Building	Reg	7						43
- F	xO29 xO30	10 9		Building Building	Reg	3	xPS1	10	Persimmon	Building	Pog	
-	xO30 xO31		Southern Red	-	Reg Reg	3	xPS1 xPS2	8		Building	Reg Reg	2 1
-	xO32	8		Building	Reg	3						3
-	xO33	6		Building	Reg	2		10				
-	xO34 xO35	10 10		Building Building	Reg Reg	3	xCL1 xCL2	16 16		Building Building	Reg Reg	3
	xO36	8	Laurel Oak	Building	Reg	3			,			5
-	xO37	8		Building	Reg	3		_				
-	xO38 xO39	8		Building Building	Reg Reg	3	xCH0 xCH1	5 8		Building Building	Reg Sig	1 5
	xO40	10	Water Oak	Building	Reg	3	xCH2	8	Black Cherry	Building	Sig	5
-	xO41 xO42	10 7	Water Oak Water Oak	Island	Reg	3	xCH3 xCH4	8		Building Building	Sig Reg	5 1
3	x042 x043	9		Island Parking	Reg Reg	2	xCH4 xCH5	4 6		Building	Reg Reg	1
	x044	14	Water Oak	Lennon	Reg	5	xCH6	5	Black Cherry	Building	Reg	1
H	xO45 xO46	16 16		Parking-E Parking-E	Reg Reg	5	xCH7 xCH8	6 8		Building Building	Reg Sig	1 5
E	x046 x047	22		Parking-E Parking-E	Reg	7	xCH8 xCH9	8		Building	Sig	5
	xO48	8	Water Oak		Reg	3	xCH10	8		Building	Sig	5
- F	xO49 xO50	13 14	Water Oak Live Oak	Lennon Lennon	Reg Reg	4						36
						193	xD1	4	Dogwood	Building	Reg	1
$ \forall $												1
- F	xP1 xP2	16 11	-	Building Building	Reg Reg	5			Total Mitigat	ion Inchos	Reauiroal	422
- F	xP2 xP3	11		Building	Reg	6		L		. <u></u> . Г	- 9411 CU	<b>744</b>
	xP4	22	Long Leaf	Building	Reg	7						
- F	xP5 xP6	24 18		Building Building	Reg Reg	8						
-	xP0 xP7	18		Building	Reg	4						
	xP8	9	Loblolly	Building	-	-						
-	xP9 xP10	16 16	Loblolly Loblolly	Building Building	Reg Reg	5						
	xP10 xP11	20		Building	Reg	7						
	xP12	20	Loblolly	Building	Reg	7						
-	xP13	16 12		Building Building	Reg	5						
	xP14 xP15	12 9		Building Building	Reg -	4						
	xP16	16	Loblolly	Building	Reg	5						
	xP17	13		Building Building	Reg	4						
	xP18	19 18		Building Building	Reg Reg	6						
-	xP19		-	Building	Reg	6						
-	xP19 xP20	19	Long Lear	0								
-		19	Long Lear			102						
-		19				102						



$\sim$	CODE	BOTANICAL NAME		SIZE		QTY
	BHM	ACER RUBRUM `BOWHALL` Bowhall Maple		2.5" CAL.		39
enter .	SH	ILEX X ATTENUATA `SAVANNAH` Savannah Holiy		2.5" CAL.		42
surface	LLP	Savannah Holly PINUS PALUSTRIS		PLUGS		46
$\bigcirc$	SRO	Longleaf Pine QUERCUS FALCATA		2.5" CAL.		4
$\bigcirc$	310	Southern Red Oak		2.5 CAL.		7
	LO	QUERCUS VIRGINIANA Southern Live Oak		2.5" CAL.		47
STING TREES TO REM		BOTANICAL NAME		SIZE		QTY
	ECM	CRAPE MYRTLE Existing Crape Myrtle		EXISTING		2
yyrmuddau yy o ce	ECD	EXISTING CEDAR Existing Cedar		EXISTING		8
mm	ELE	LACEBARK ELM Existing Lacebark Elm		EXISTING		3
	ELA	LAUREL OAK Existing Laurel Oak		EXISTING		1
	ELO	LIVE OAK Existing to Remain		EXISTING		8
	ERM	RED MAPLE Existing Red Maple		EXISTING		13
	EST	SAWTOOTH OAK Existing Sawtooth Oak		EXISTING		6
RUBS	CODE	BOTANICAL NAME		CONT		QTY
$\odot$	AI2	AZALEA I. `FORMOSA` Formosa Azalea (10` x 6` - Purple)		3 GAL		17
$\bigcirc$	IC	ILEX C. `SOFT TOUCH' Soft Touch Holly (2' x 3')		3 GAL		183
$\otimes$	DBH	ILEX CORNUTA `BURFORDII NANA` Dwarf Burford Holly		3 GAL		178
$\bigcirc$	BH	ILEX CORNUTA `BURFORDII` Burford Chinese Holly		7 GAL		77
$\bigcirc$	DYH	ILEX VOMITORIA `NANA` Dwarf Yaupon (5` x 5`)		3 GAL		539
$\bigcirc$	RL	LIGUSTRUM J. `EAST BAY` East Bay Privet LOROPETALUM C. `RUBY`		3 GAL 3 GAL		137
<u>ج</u>	MA	MISCANTHUS S. `ADAGIO`		3 GAL		113
£;3	PM	Adagio Grass MUHLENBERGIA CAPILLARIS		3 GAL		128
*	DPS	Pink Muhly SPIRAEA J. DOUBLE PLAY ARTISAN `GAI	LEN	3 GAL		62
	CODE	Galen Spirea BOTANICAL NAME		CONT	SPACING	QTY
	AJ	TRACHELOSPERMUM A. `ASIATIC` Asiatic Jasmine		4" POT	18" o.c.	1,455
NDSCAPE C	CALCUL			Q'D	MUDA 'BL <u>PROV</u> 7,000 \$	
690 LF - 130 LF C		/AYS = 560 LF	<u>RE</u> 7,0	000 SF	7,000 \$	SF
690 LF - 130 LF C 560 LF * 25 = 14,0	000 SF * 0.5 = 11.6	/AYS = 560 LF 5 (SECONDARY) = 7,000 SF	7,0	000 SF		SF
690 LF - 130 LF C 560 LF * 25 = 14,0 7,000 SF / 600 SF	000 SF * 0.5 = 11.6 1 ( 6 5	/AYS = 560 LF 5 (SECONDARY) = 7,000 SF CANOPY / 600 SF SHRUBS / 600 SF	7,0 12 72	00 SF	18 106	5F
690 LF - 130 LF C 560 LF * 25 = 14,0 7,000 SF / 600 SF GERWOOD DR. F 469 LF * 25 = 11,7	000 SF * 0.5 = 11.6 6 5 PRIMARY S 725 SF	/AYS = 560 LF 5 (SECONDARY) = 7,000 SF CANOPY / 600 SF	7,0 12 72 RE	000 SF	18 106 <u>PROV</u> 4,630 5	
690 LF - 130 LF C 560 LF * 25 = 14,0 7,000 SF / 600 SF GERWOOD DR. F 469 LF * 25 = 11,7	000 SF * 0.5 = 11.6 1 ( 6 5 PRIMARY S 725 SF 5F = 19.5 1 (	/AYS = 560 LF 5 (SECONDARY) = 7,000 SF CANOPY / 600 SF SHRUBS / 600 SF	7,0 12 72 RE	000 SF 000 SF 000 725 SF	18 106 <u>PROV</u> 4,630 5	SF
690 LF - 130 LF C 560 LF * 25 = 14,0 7,000 SF / 600 SF GERWOOD DR. F 469 LF * 25 = 11,7 11,725 SF / 600 S GERWOOD DR. F 520 LF - 64 LF OF 456 LF * 25 = 11,4	000 SF * 0.5 = 11.6 PRIMARY S 725 SF SF = 19.5 10 PRIMARY S DRIVEWA 400 SF	YAYS = 560 LF 5 (SECONDARY) = 7,000 SF CANOPY / 600 SF SHRUBS / 600 SF STREETYARD - (NORTH) CANOPY / 600 SF SHRUBS / 600 SF STREETYARD - (SOUTH)	7,0 12 72 <u>RE</u> 11, 20 120 RE	000 SF 000 SF 000 725 SF	18 106 <u>PROV</u> 4,630 (7,095 12 125 <u>PROV</u> 5,262	SF UNDER)
690 LF - 130 LF C 560 LF * 25 = 14,0 7,000 SF / 600 SF GERWOOD DR. F 469 LF * 25 = 11,7 11,725 SF / 600 S GERWOOD DR. F 520 LF - 64 LF OF 456 LF * 25 = 11,4	000 SF * 0.5 = 11.6 PRIMARY S 725 SF F = 19.5 1 ( 6 5 PRIMARY S = DRIVEWA 400 SF = 19.0 1 (	YAYS = 560 LF 5 (SECONDARY) = 7,000 SF CANOPY / 600 SF SHRUBS / 600 SF STREETYARD - (NORTH) CANOPY / 600 SF SHRUBS / 600 SF STREETYARD - (SOUTH)	7,0 12 72 <u>RE</u> 11, 20 120 RE	000 SF <u>Q'D</u> 725 SF 0 <u>Q'D</u> 400 SF	18 106 <u>PROV</u> 4,630 (7,095 12 125 <u>PROV</u> 5,262	SF UNDER) SF
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LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE. FAILURE IN OBTAINING APPROVAL MAY RESULT IN LIABILITY TO THE CONTRACTOR. 9. THE CONTRACTOR SHALL REPLACE DEAD AND/OR UNHEALTHY PLANT MATERIAL WITHIN 12 MONTHS OF ACCEPTANCE OF THE INSTALLED MATERIAL FROM THE OWNER OR OWNER'S REPRESENTATIVE

IF IRRIGATION IS NEEDED, IT SHALL BE DESIGNED AND INSTALLED BY A LICENSED IRRIGATION CONTRACTOR IN THE STATE OF NORTH CAROLINA THE CONTRACTOR IS RESPONSIBLE FOR HAND WATERING THE INSTALLED PLANT MATERIAL FOR A PERIOD OF 6 MONTHS FROM THE ACCEPTANCE FROM THE OWNER OR OWNER'S REPRESENTATIVE IF IRRIGATION HAS NOT BEEN INSTALLED. ALL MATERIAL INCLUDING SOD AND SEEDED AREAS SHALL BE HAND WATERED ONCE WEEKLY OR AS NEEDED TO ENSURE SURVIVAL OF

NUTE: THE CRITICAL ROOT ZONE (CRZ) OF A TREE IS WHERE THE MAJORITY OF A TREE'S ROOTS LAY. 85% OF MOST TREE ROOTS ARE FOUND IN THE TOP 24" OF THE SOIL AND SUPPLY THE MAJORITY OF NUTRIENTS AND WATER. GENERALLY, ROOTS SPREAD OUT 2-3X THE HEIGHT OF THE TREE.

DATE: JAN, 2015

DRAWN BY JSR

CHECKED BY RDG, P.E.

SCALE NOT TO SCALE

- STEEL POST

<u>SIDE VIEW</u>

NOTES:

DATE: JAN, 2015

DRAWN BY JSR

CHECKED BY RDG, P.E.

SCALE NOT TO SCALE

-WARNING SIGN

\_ORANGE, UV RESISTANT

HIGH - TENSILE STRENGTH

POLY BARRICADE FABRIC (TYPICAL)

CROWN OF THE TREE IS NEEDED FOR LEAF GROWTH TO PRODUCE OXYGEN, FILTER THE AIR, REDUCE WIND AND SOFTEN NOISE.

OR ORANGE SILT FENCE

WILMINGTON NORTH CAROLINA

SD 15-09

GRAD

CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807

WILMINGTON

SD 15-09

CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807

(TYPICAL)

- 8' MAX

NOTES: 1. PROTECT CRITICAL ROOT ZONE (CRZ) OF TREES PRIOR TO CONSTRUCTION, CLEARLY MARK THE TREES AND ERECT A PROTECTIVE BARRIER AT THE CRZ. BARRIER SHALL BE MANTAINED UNTIL CONSTRUCTION IS COMPLETE. TOTAL DEPARTMENT OF THE PER INCH OF TREE DIAMETER AT BREAST HEIGHT (DBH).

2. CRZ RADIUS IS 1 FT PER INCH OF TREE DIAMETER AT BREAST HEIGHT (DBH). 3. IF CONSTRUCTION OCCURS WITHIN THE CRZ, AT LEAST 12" OF MULCH AND/OR LOGGING MATTS SHALL BE PLACED WHERE MACHINERY MANEUVERS TO REDUCE SOIL

LOGGING MATTS SHALL BE PLACED WHERE MACHINERY MANEUVERS TO REDUCE SOIL COMPACTION IN THIS ZONE.
4. WHERE SIDEWALKS AND PATHWAYS PASS WITHIN CRZ, EXTRA CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ROOTS. ALTERNATE CONSTRUCTION METHODS, SUCH AS A REINFORCED SIDEWALK, SHALL BE IMPLEMENTED AS NECESSARY.
5. FOR ALL TREES, CUTTING OF LARGE STRUCTURAL ROOTS LOCATED NEAR THE BASE OF THE TRUNK IS PROHIBITED. DO NOT COMPACT SOIL BENEATH TREES. NO VEHICLE SHALL BE ALLOWED TO PARK UNDER TREES. NO MATERIALS OR EQUIPMENT SHALL BE STORED BENEATH TREES. DAMAGING THE BARK WITH LAWNMOWERS, CONSTRUCTION EQUIPMENT, OR ANYTHING ELSE IS PROHIBITED. CONTRACTOR SHALL REPAIR DAMAGE TO TREES.
6. FAILING TO INSTALL OR MAINTAIN PROTECTION MEASURES SHALL RESULT IN A STOP WORK ORDER AND FINE OF \$500/DAY. DISTURBANCE OTHER THAN THAT ALLOWED ON THE APPROVED PLAN WILL REQUIRE OWNER TO POST A LETTER OF CREDIT FOR 3 YRS FOR TREE MITIGATION.

STANDARD DETAIL

**TREE PROTECTION** 

DURING

CONSTRUCTION

SHEET 1 of 2

8' MAX.

VARIABLE AS DIRECTED BY THE ENGINEER PLASTIC OR WARNING SIGN

> E PROTECTION AREA ][ <u>do not enter</u> zona protectora para \_

LOS ARBOLES PROHIBIDO ENTRAR

ORANGE, UV RESISTANT HIGH - TENSILE STRENGTH POLY BARRICADE FABRIC (TYPICAL)

FRONT VIEW

40"

TREE PROTECTION AREA

LOS ARBOLES PROHIBIDO ENTRAR

WARNING SIGN DETAIL

 THE TREE PROTECTION FENCING SHALL NOT BE VIOLATED FOR THE ENTIRE DURATION OF THE PROJECT WITHOUT APPROVAL FROM URBAN FORESTRY STAFF.
 WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL. LETTERS TO BE 3" HIGH, MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED. 3. SIGNS SHALL BE PLACED AT 50' MAXIMUM INTERVALS. PLACE A SIGN AT EACH

END OF LINEAR TREE PROTECTION AND 50' ON CENTER THEREAFTER. FOR TREE

END OF LINEAR TREE PROTECTION AND 50 ON CENTER HEREAFTER. FOR TREE PROTECTION AREAS LESS THAN 100' IN PERIMETER, PROVIDE NO LESS THAN TWO SIGNS PER PROTECTION AREA.
4. ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC. MAINTAIN TREE PROTECTION FENCE AND SIGNS THROUGHOUT DURATION OF PROJECT.
5. TREE PROTECTION FENCING AND SIGNAGE SHALL BE REMOVED AFTER CONSTRUCTION.
6. ADDITIONAL SIGNS MAY BE REQUIRED BY CITY OF WILMINGTON, BASED ON ACTUAL FIELD CONDITIONS.

STANDARD DETAIL

TREE PROTECTION

DURING

CONSTRUCTION

SHEET 2 of 2

ZONA PROTECTORA PARA

DO NOT DISFIGURE CROWN WITH INTENSIVE PRUNING.

12. CONTRACTOR IS RESPONSIBLE FOR REMOVING TRASH, DEBRIS AND EXCESS MATERIALS FROM THE JOB SITE ONCE THE PROJECT IS COMPLETE. SECURING ANY MATERIALS LEFT ON SITE DURING THE COURSE OF THE PROJECT IS THE CONTRACTOR'S RESPONSIBILITY.

14. PRIOR TO ANY CLEARING, GRADING, OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES. AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.

3/4" NYLON STRAP -ROOT CROWN TO BE LEVEL WITH ----FINISH GRADE, ± 1" REMOVE TYPICAL EXCESS SOIL FROM -GROWER OVER ROOT SYSTEM, UPTO 1" DEPTH. REJECT PLANTS WITH MORE

THAN 3" EXCESS SOIL. 1"x 2"x18" WOOD STAKE, WITH 3/8" HOLE CENTERED, DRIVE

STAKE IN LINE WITH STRAP

REMOVE TOP 1/3 BURLAP AND ANY -NAILS, PINS, ETC. REMOVE TOP 2/3 OF WIRE BASKET RAISE PIT BOTTOM AS NEEDED TO ENSURE

BUTTRESS ROOTS ARE AT CORRECT HEIGHT. FIRM SOIL UNDER ROOTBALL.

A SINGLE STEM TREE INSTALLATION DETAIL

