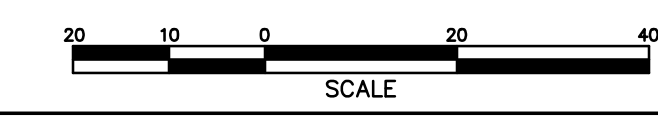


- LEGEND:**
- x FENCE (BARBED)
 - - - FENCE (CHAINLINK)
 - - - FENCE (WOOD)
 - OE ELECTRIC (OVERHEAD)
 - UE ELECTRIC (UNDERGROUND)
 - G GAS LINE
 - SD STORM DRAIN
 - SS SANITARY SEWER
 - FO FIBER OPTIC LINE
 - T TELEPHONE LINE
 - W WATER LINE
 - - - SETBACK LINES
 - - - CLEAR AND STRIP AREA
 - - - LIMITS OF DISTURBANCE
 - - - TREE PROTECTION FENCING
 - 8"x8" PRESURE-TREATED TIMBERS
 - LANDSCAPE BORDER AND WHEEL STOP
 - PP POWER POLE
 - LP LIGHT POLE
 - GUYANCHOR
 - TRANSFORMER PAD
 - FIBER OPTIC PEDESTAL
 - TELEPHONE PEDESTAL
 - TELEPHONE MANHOLE
 - SANITARY SEWER MANHOLE
 - SANITARY SEWER CLEAN-OUT
 - STORM DRAIN MANHOLE
 - STORM DRAIN
 - DROP INLET/CATCH BASIN
 - FIRE HYDRANT
 - WATER VALVE
 - WATER METER

- NOTES:**
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 2. THIS MAP WAS PREPARED WITHOUT THE BENEFIT OF A CERTIFIED TITLE REPORT AND THEREFORE THE PROPERTY SHOWN HEREON MAY BE SUBJECT TO RECORDED OR UNRECORDED RIGHT-OF-WAYS, EASEMENTS, RESTRICTIONS OF RECORD, OR OTHER ENCUMBRANCES NOT OBSERVED OR SHOWN HEREON.
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 8. CONTRACTOR SHALL MAINTAIN AN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
 9. ADDITIONAL FIRE PROTECTION AND ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.
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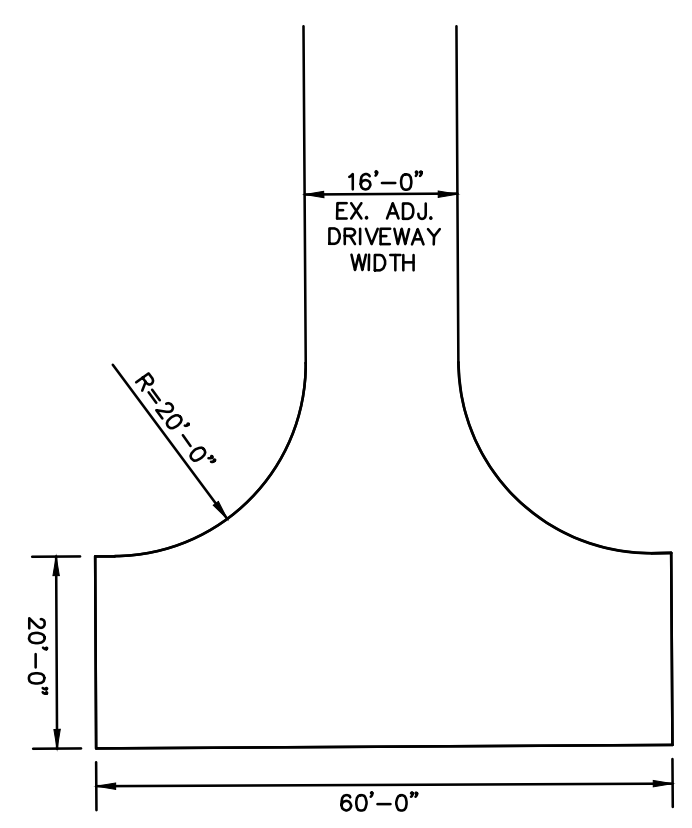
- LEGEND:**
- IRF IRON PIPE FOUND
 - IR5 IRON ROD FOUND
 - IR5 IRON ROD SET

Approved Construction Plan
Date: 1/5/22
2019079
SWP #: NA
PO, CW, ES, MB, BM



REV NO.	DESCRIPTION	DATE

5006 OLEANDER DRIVE		DATE: 12/8/21
BUG-N-A-RUG		Scale: 1"=20'
WILMINGTON	NEW HANOVER	NORTH CAROLINA
SITE INVENTORY AND DEMOLITION		Drawn: NNC
 RIGHT ANGLE ENGINEERING, P.C. 212 PRINCESS STREET WILMINGTON, NC 28401 (910) 251-8544 FAX (910) 251-2208 FIRM: C-0829		Checked: WSL
		Project No: BN0121
Sheet No: C1		

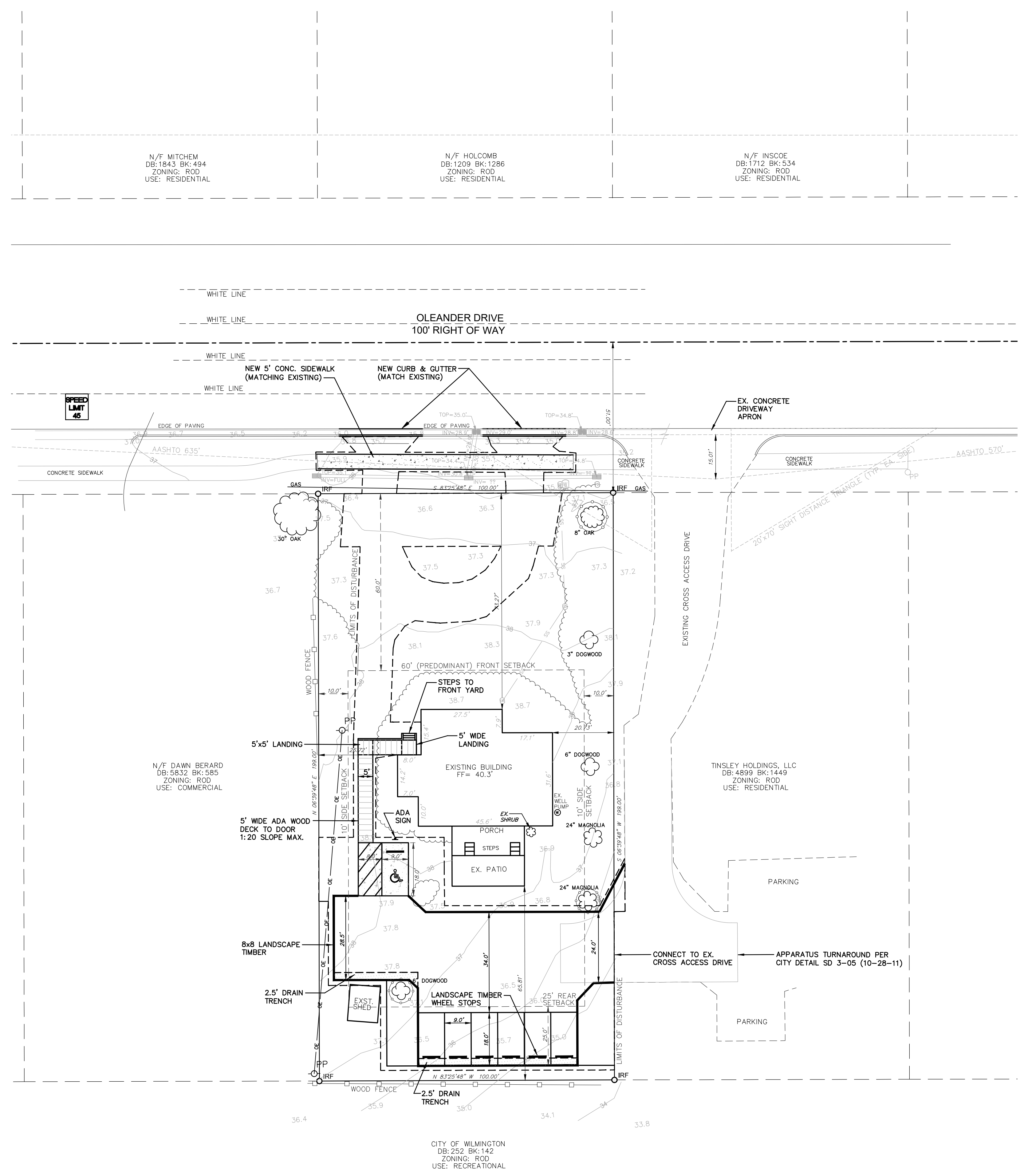


**APPARATUS TURNAROUND
PER CITY DETAIL SD 3-05**
1"=30'

- LEGEND:**
- x FENCE (BARBED)
 - // FENCE (CHAINLINK)
 - FENCE (WOOD)
 - E— ELECTRIC (OVERHEAD)
 - E— ELECTRIC (UNDERGROUND)
 - G— GAS LINE
 - SD— STORM DRAIN
 - SS— SANITARY SEWER
 - FO— FIBER OPTIC LINE
 - T— TELEPHONE LINE
 - W— WATER LINE
 - - - - - SETBACK LINES
 - - - - - CLEAR AND STRIP AREA
 - - - - - LIMITS OF DISTURBANCE
 - TREE PROTECTION FENCING
 - 6"x6" PRESSURE-TREATED TIMBERS
 - LANDSCAPE BORDER AND WHEEL STOP
 - POWER POLE
 - LP LIGHT POLE
 - GUY/ANCHOR
 - E TRANSFORMER PAD
 - FIBER OPTIC PEDESTAL
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- LEGEND:**
- IPF IRON PIPE FOUND
 - IRF IRON ROD FOUND
 - IRS IRON ROD SET



Approved Construction Plan
Date: 1/5/22
2019079
SWP #: NA
PO, CW, ES, MB, BM



REV NO.	DESCRIPTION	DATE

SITE DATA TABLE	
PIN	R0618-009-007-000
ADDRESS	5006 OLEANDER DR WILMINGTON, NC 28403
TELEPHONE	910-254-9443
EMAIL ADDRESS	stuart@bugnarug.com
ZONING	RDD
OWNER	STEAMER PROPERTIES, LLC
ADDRESS	2005 SPANISH WELLS DR WILMINGTON, NC 28405
ACREAGE	0.45 AC (19,602 SF)
SETBACKS REQUIRED / PROVIDED	
FRONT	PREDOMINANT: 60' / PROVIDED: 73.27'
SIDE	REQUIRED: 10' / PROVIDED: 26.72'/20.73'
REAR	REQUIRED: 25' / PROVIDED: 65.81'
ON-SITE QUANTITIES	
EX. BLDG (FOOTPRINT - BUILDING LOT COVERAGE)	1,750 SF = 0.04 AC (8.9%)
EX. SHED (FOOTPRINT - BUILDING LOT COVERAGE)	126 SF = 0.002 AC (0.6%)
EX. CONCRETE DRIVEWAY	1,638 SF = 0.04 AC (8.3%)
EX. CONCRETE SIDEWALK	34 SF = 0.001 AC (0.17%)
TOTAL EX. IMPERVIOUS	3,548 SF = 0.08 AC (18%)
EX. CONCRETE DRIVEWAY TO BE REMOVED	1,187 SF = 0.03 AC (5.7%)
EX. CONCRETE SIDEWALK TO BE REMOVED	34 SF = 0.001 AC (0.17%)
REMAINING EX. IMPERVIOUS	1,876 SF = 0.04 AC (9.5%)
PROPOSED GRAVEL DRIVE AND PARKING	4,031 SF = 0.10 AC (20%)
PROPOSED ADA CONCRETE PARKING	306 SF = 0.007 AC (1.6%)
TOTAL PROPOSED DNSITE IMPERVIOUS	6,213 SF = 0.14 AC (31%)
OFF-SITE QUANTITIES	
EX. CONCRETE DRIVEWAY TO BE REMOVED	511 SF = 0.01 AC
EX. CONCRETE SIDEWALK TO BE REMOVED	50 SF = 0.001 AC
TOTAL OFFSET IMPERVIOUS TO BE REMOVED	561 SF = 0.01 AC
TOTAL PROPOSED OFFSET IMPERVIOUS (SIDEWALK)	432 SF = 0.14 AC
PROPOSED DNSITE IMPERVIOUS (WOODEN ADA RAMP)	248 SF = 0.006 AC (1.3%)
TOTAL DISTURBED AREA	10,222 SF = 0.23 AC (51%)
BUILDING HEIGHT	24
EXISTING PARKING	0 SPACES
PARKING REQUIRED (1 PER 300SF) / PROVIDED	5 STD. + 1 ADA / 6 STD. + 1 ADA
EX. REGULATED TREES ON SITE / PRESERVED	3 / 2
EX. SIGNIFICANT TREES ON SITE / PRESERVED	3 / 3
STREET YARD CALCULATION	100 X 18 = 1800 SF REQUIRED / PROVIDED
STREET TREES REQUIRED / PROVIDED	3 / 3
STREET SHRUBS REQUIRED / PROVIDED	18 / 18
CAMA LAND USE DESIGNATION	URBAN
USDA SOIL CLASSIFICATION - ENTIRE SITE	BAYMEADER-URBAN LAND
FEMA FLOOD ZONE X	FEMA MAP PANEL 3720314600K - 8/28/2018
CAPE FEAR RIVER BASIN	NORTHEAST CAPE FEAR RIVER, CLASS SC/SW

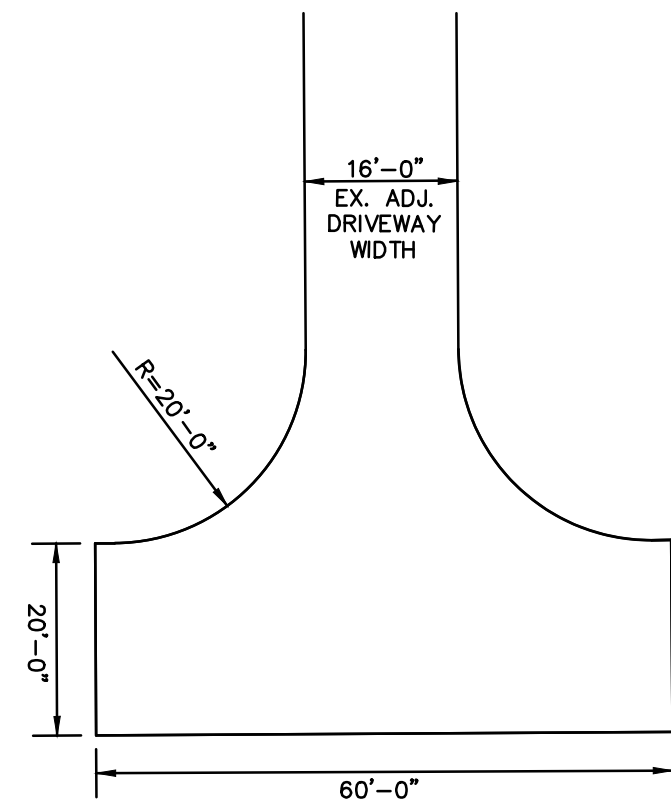
**5006 OLEANDER DRIVE
BUG-N-A-RUG**

WILMINGTON NEW HANOVER NORTH CAROLINA

SITE PLAN

**RIGHT ANGLE
ENGINEERING, P.C.**
212 PRINCESS STREET
WILMINGTON, NC 28401
(910) 251-8544 FAX (910) 251-2208 FIRM: C-0829

DATE: 12/8/21
Scale: 1"=20'
Drawn: NNC
Checked: WSL
Project No: BN0121
Sheet No: **C2**



**APPARATUS TURNAROUND
PER CITY DETAIL SD 3-05**
1"=30'

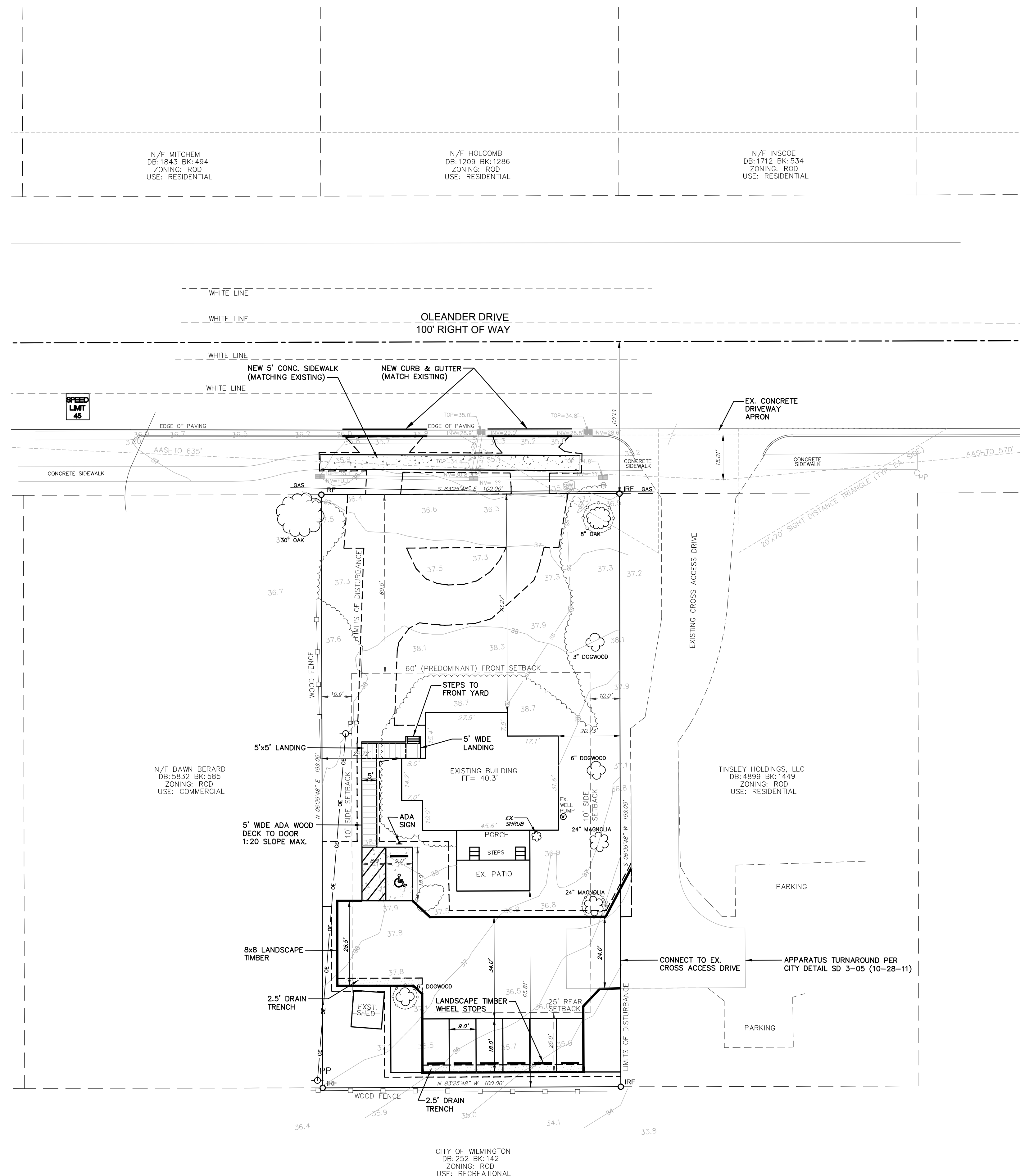
LEGEND:

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—E—	ELECTRIC (OVERHEAD)
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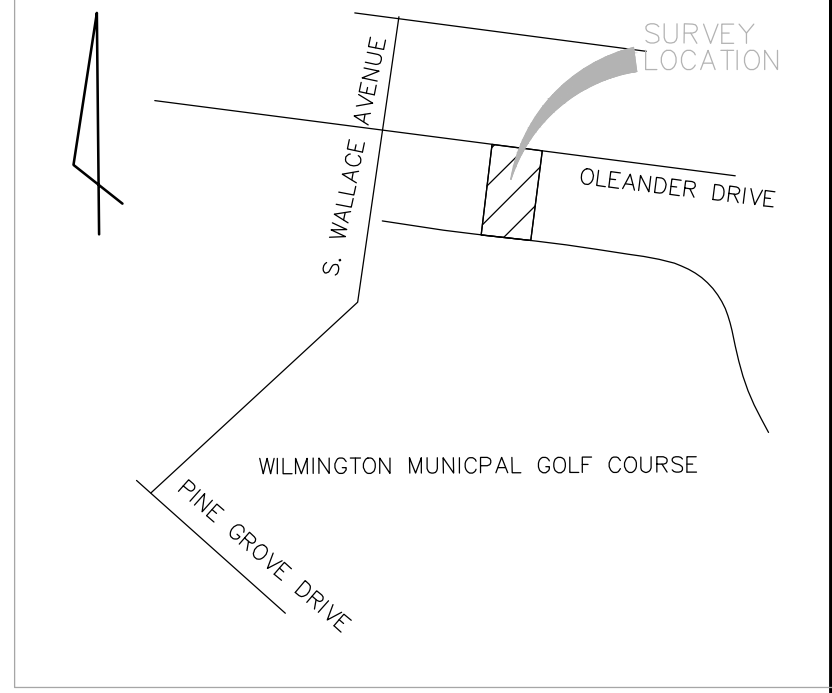
IRF	IRON PIPE FOUND
IRF	IRON ROD FOUND
IRS	IRON ROD SET



Approved Construction Plan
Date: 1/5/22
2019079
SWP #: NA
PO, CW, ES, MB, BM



REV NO.	DESCRIPTION	DATE



SITE DATA TABLE

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ADDRESS	5006 OLEANDER DR WILMINGTON, NC 28403
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EMAIL ADDRESS	stuart@bugnarug.com
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ACREAGE	0.45 AC (19,602 SF)
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FEMA FLOOD ZONE X	FEMA MAP PANEL 3720314600K - 8/28/2018
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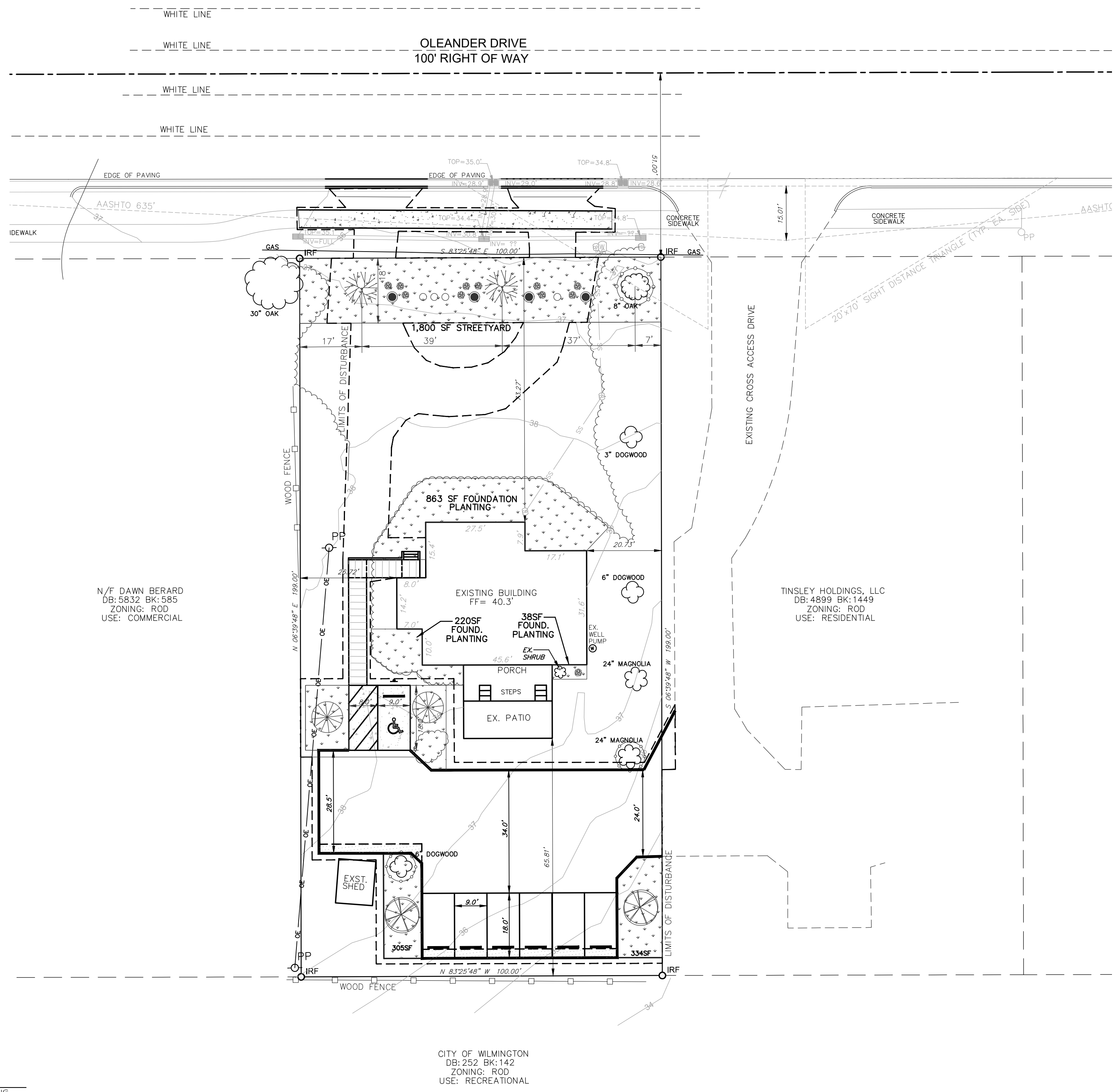
**5006 OLEANDER DRIVE
BUG-N-A-RUG**

WILMINGTON NEW HANOVER NORTH CAROLINA

SITE PLAN

**RIGHT ANGLE
ENGINEERING, P.C.**
212 PRINCESS STREET
WILMINGTON, NC 28401
(910) 251-8544 FAX (910) 251-2208 FIRM: C-0829

DATE: 12/8/21
Scale: 1"=20'
Drawn: NNC
Checked: WSL
Project No: BN0121
Sheet No: C2



- LEGEND:**
- FENCE (BARBED)
 - FENCE (CHAINLINK)
 - FENCE (WOOD)
 - ELEC (OVERHEAD)
 - ELEC (UNDERGROUND)
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 - STORM DRAIN
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 - NO OBSTRUCTIONS ALLOWED BETWEEN 30' ABOVE GROUND LEVEL AND 10' ABOVE GROUND LEVEL WITHIN THE 20x70' SIGHT DISTANCE TRIANGLE.

- LEGEND:**
- IRON PIPE FOUND
 - IRON ROD FOUND
 - IRON ROD SET

TEMPORARY SEEDING

GRASS TYPE	AMOUNT/1000 SF	TIME OF SEEDING	INITIAL	FERTILIZATION/1000 SF MAINTENANCE
RYE GRAIN	1-2 LBS	NOV. THRU JAN.	25 LBS 10-10-10	N/A N/A N/A
BROWN TOP MILLET	1-2 LBS	JUNE THRU AUG.	25 LBS 10-10-10	N/A N/A N/A

PERMANENT SEEDING

GRASS TYPE	AMOUNT/1000 SF	TIME OF SEEDING	INITIAL	FERTILIZATION/1000 SF MAINTENANCE
BERMUDA, COMMON	1-2 LBS	APR. THRU JUNE	25 LBS 10-10-10	MARCH-APRIL 12 LBS 10-10-10 EACH 4-8 WKS 1-2 LBS N. AUG-SEPT 12 LBS 10-10-10
FESCUE, TALL (KENTUCKY 31)	5-7 LBS	SEPT THRU OCT FEB THRU OCT	25 LBS 10-10-10	MAY & DEC 1/2 TO 1 LB. N. SEPT - OCT 12 LBS 10-10-10
SERICEA LESPEDEZA (SLOPES)	1-2 LBS	MARCH THRU APR.	25 LBS 10-10-10	FEB - MARCH 1/2 TO 1 LB. N. N/A

Approved Construction Plan
Date: 1/5/22
2019079
SWP #: NA
PO, CW, ES, MB, BM

NOTE: THE CRITICAL ROOT ZONE (CRZ) OF A TREE IS WHERE THE MAJORITY OF A TREE'S ROOTS ARE FOUND. 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.

NOTE: CROWN OF THE TREE IS NEEDED FOR LEAF GROWTH TO PRODUCE OXYGEN, FILTER THE AIR, REDUCE WIND AND SOFTEN NOISE. DO NOT DISFIGURE CROWN WITH INTENSIVE PRUNING.

NOTES:

- 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 MAINTAINED UNTIL CONSTRUCTION IS COMPLETE.
- CRZ RADIUS IS 1 FT PER INCH OF TREE DIAMETER AT BREAST HEIGHT (DBH).
- IF CONSTRUCTION OCCURS WITHIN THE CRZ, AT LEAST 12" OF MULCH AND/OR LOGGING MATS SHALL BE PLACED WHERE MACHINERY MANEUVERS TO REDUCE SOIL COMPACTION IN THIS ZONE.
- 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.
- 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.
- 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

CITY OF WILMINGTON
 WILMINGTON, NC 28402
 (910) 341-7807

DATE: JAN 2015
 DRAWN BY: JSR
 CHECKED BY: RDG, P.E.
 SCALE: NOT TO SCALE

FRONT VIEW
 8" MAX. VARIABLE AS DIRECTED BY THE ENGINEER. PLASTIC OR WIRE TIES.
 WARNING SIGN
 TREE PROTECTION AREA DO NOT ENTER
 ZONA PROTECTORA PARA LOS ARBOLES PROHIBIDO ENTRAR
 ORANGE, UV RESISTANT HIGH - TENSILE STRENGTH POLY BARRICADE FABRIC (TYPICAL)
 GRADE

SIDE VIEW
 3'-0" x 2'-0" x 2'-0"
 STEEL POST
 WARNING SIGN
 ORANGE, UV RESISTANT HIGH - TENSILE STRENGTH POLY BARRICADE FABRIC (TYPICAL)

WARNING SIGN DETAIL
 40" x 18"
 TREE PROTECTION AREA DO NOT ENTER
 ZONA PROTECTORA PARA LOS ARBOLES PROHIBIDO ENTRAR

NOTES:

- 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.
- SIGNS SHALL BE PLACED AT 90' MAXIMUM INTERVALS. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 50' ON CENTER THEREAFTER. FOR TREE PROTECTION AREAS LESS THAN 100' IN PERIMETER, PROVIDE NO LESS THAN TWO SIGNS PER PROTECTION AREA.
- ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC. MAINTAIN TREE PROTECTION FENCE AND SIGNS THROUGHOUT DURATION OF PROJECT.
- TREE PROTECTION FENCING AND SIGNAGE SHALL BE REMOVED AFTER CONSTRUCTION.
- ADDITIONAL SIGNS MAY BE REQUIRED BY CITY OF WILMINGTON, BASED ON ACTUAL FIELD CONDITIONS.

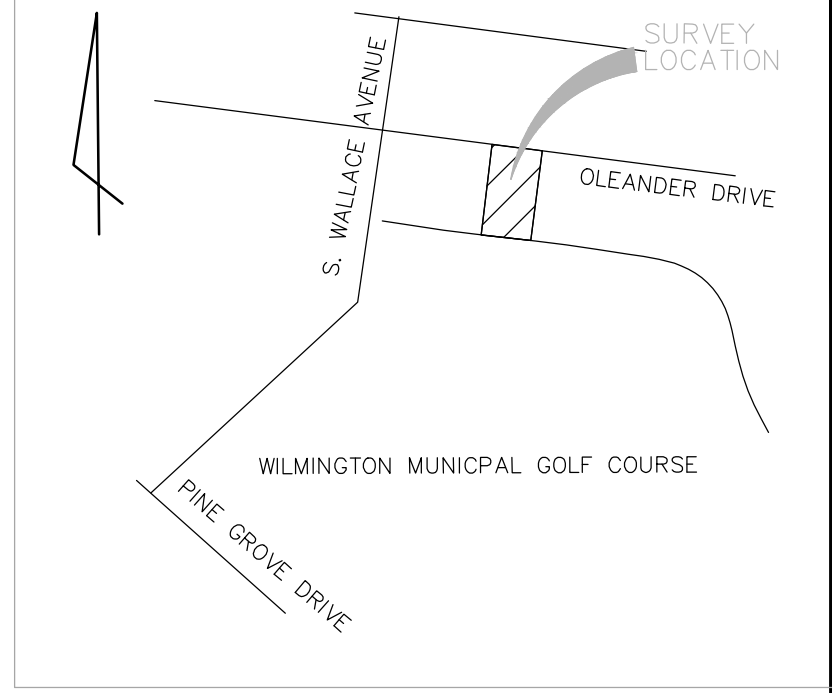
STANDARD DETAIL
TREE PROTECTION DURING CONSTRUCTION
 SHEET 2 of 2

CITY OF WILMINGTON
 WILMINGTON, NC 28402
 (910) 341-7807

DATE: JAN 2015
 DRAWN BY: JSR
 CHECKED BY: RDG, P.E.
 SCALE: NOT TO SCALE

SCALE: 1" = 20'

REV NO.	DESCRIPTION	DATE



LANDSCAPE LEGEND

SYMBOL	SPECIFICATION	QTY
	GRAPE MYRTLE LAGERSTROEMIA INDICA 2" CALIPER AT PLANTING	2
	LAUREL OAK QUERCUS LAURIFOLIA 2" CALIPER AT PLANTING	2
	MAGNOLIA 'ROYAL STAR' MAGNOLIA STELLATA 2" CALIPER AT PLANTING	2
	WAX MYRTLE MYRTICA CERIFERA MIN. 12" HEIGHT AT PLANTING	4
	INDICA AZALEA RHODODENDRON INDICA MIN. 12" HEIGHT AT PLANTING	11
	GLOSSY ABELIA ABELIA GRANDIFLORA MIN. 12" HEIGHT AT PLANTING	4
	TREE PROTECTION FENCING	
	4" MULCH AROUND NEW TREES, GRASS OR SOD REMAINING	

PARKING SHADE CALCULATIONS:
 TOTAL PARKING AREA: 4,250 SF
 4,250 x 20% = 850 SF
 2 GRAPE MYRTLES @ 2" CALIPER AT PLANTING
 2 STAR MAGNOLIAS PROVIDED
 4 x 314 SF = 1,256 SF SHADE PROVIDED

TREE MITIGATION CHART
 TREES PRESERVED ON SITE
 8" OAK
 3" DOGWOOD
 (2) 6" DOGWOODS
 8" DOGWOOD
 (2) 24" MAGNOLIAS
 TOTAL DBH - 79'6" = 13

REAR FOUNDATION PLANTING CALCULATIONS
 FACADE SURFACE: 915.75
 915.75 x 12% = 110 SF
 258 SF PROVIDED (EXISTING AND PROPOSED)

5006 OLEANDER DRIVE
BUG-N-A-RUG

WILMINGTON NEW HANOVER NORTH CAROLINA

LANDSCAPE PLAN

RIGHT ANGLE ENGINEERING, P.C.
 212 PRINCESS STREET
 WILMINGTON, NC 28401
 (910) 251-8544 FAX (910) 251-2208 FIRM: C-0829

DATE: 12/8/21
 Scale: 1" = 20'
 Drawn: NNC
 Checked: WSL
 Project No: BN0121
 Sheet No: L1