EROSION CONTROL PLAN OVERALL PHASE 2 - STAGE 2

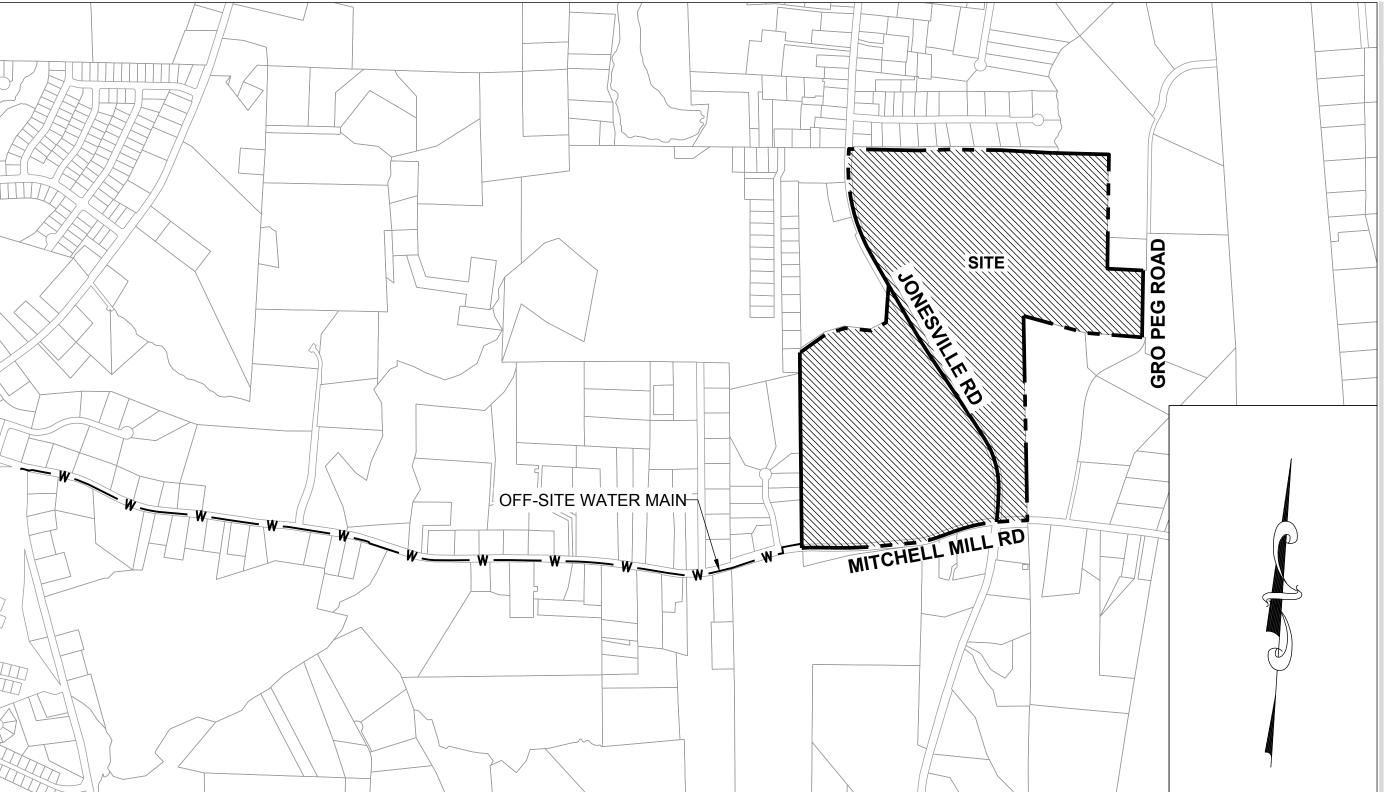
RESERVE @ MITCHELL MILL CONSTRUCTION PLANS

TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA

I OCATION:	5100 MITCHELL MILL BOAD
LOCATION:COUNTY:	WAKE COUNTY
PARENT PIN:	1757571035
DB/PG:	DB 8659, PG 954
ZONING:	RM-CZ & NC-CZ
TOTAL ACREAGE.	6,041,336 SF (138.69 AC)
NC-CZ ZONE ACREAGE	54 08 AC
RESIDENTIAL ZONE RM-CZ:	84.61 AC
MAXIMUM UNITS PERMITTED:	390 UNITS (118 TOWNHOMES
RESIDENTIAL ZONE RM-CZ: MAXIMUM UNITS PERMITTED: ZONING AND ANNEXATION:	MA 22-06 &ANX22-03
DUIL DING CETDACKO (MINI) DM CZ CLUCTED ODTION	
BUILDING SETBACKS (MIN) RM-CZ CLUSTER OPTION FRONT:	201
SIDE:	20' 5'
CORNER:	
OOKINEK.	10
BUILDING SETBACKS (MIN) NC-CZ	
FRONT:	15'
SIDE:	10'
REAR:	10'
	
TOWNHOME SETBACKS NC-CZ	
FRONT 20:	20'
SIDE (STREET FRONTAGE):	10'
REAR:	20'
BUILDING SEPARATION:PARKING REQUIREMENT:	30'
PARKING REQUIREMENT:	2.25 CARS PER UNIT
SHOWN UNITS:	118
REQUIRED PARKING:	248
OFF-STREET PARKING:	265
DIGUT OF WAY A OTHER AREAS	
RIGHT OF WAY & OTHER AREAS:	4.045.404.05 (07.00.40)
NATURAL WETLANDS:	1,215,431 SF (27.90 AC)
SITE PERIMETER BUFFER TYPE 2 THOROUGHFARE BUFFER (JONESVILLE & MITCHELL MI	LL)
OVERALL & PERIMETER STANDARDS: SITE PERIMETER BUFFER TYPE 2 THOROUGHFARE BUFFER (JONESVILLE & MITCHELL MI LOT ACREAGE: NC ZONING DISTRICT	,
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Know what's **below**. Call before you dig.



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01	C-1.0	COVER SHEET
02	C-1.1	ZONING CONDITION
03	C-2.0	CIVIL NOTES
04	C-3.0	EXISTING CONDITIONS PLAN
05	C-3.1	OVERALL TREE INVENTORY MAP
06 - 12	C-3.2 - C-3.8	PARTIAL TREE INVENTORY MAP I - VII
13	C-3.9	TREE INVENTORY TABLE
14	C-3.10	TREE PROTECTION PLAN
15	C-4.0	DEMOLITION PLAN
16	C-5.0	PHASING PLAN
17	C-5.1	BLOCK AND LOT PLAN
18	C-6.0	OVERALL SITE PLAN
19 - 27	C-6.1 - C-6.9	PARTIAL SITE PLAN I - IX
28	C-6.10	LOT SIZE TABLES
29	C-6.11	SITE TABLES - NC ZONE
30	C-6.12	SITE TABLES - RM ZONE
31	C-7.0	OVERALL OPEN SPACE NC-CZ
32	C-7.1	PASSIVE & ACTIVE OPEN SPACE NC-CZ ZONE
33	C-7.2	OVERALL OPEN SPACE RM-CZ
34	C-7.3	PASSIVE & ACTIVE OPEN SPACE RM-CZ ZONE
35	C-8.0	OVERALL UTILITY PLAN
36 - 44	C-8.1 - C-8.9	PARTIAL UTILITY PLAN I - IX
45	C-8.10	SEWER TABLES
46	C-8.11	OFF-SITE UTILITY PLAN
47	C-9.0	OVERALL GRADING AND DRAINAGE PLAN
48 - 56	C-9.1 - C-9.9	PARTIAL GRADING AND DRAINAGE PLAN I - IX
57 - 58	C-9.10 - C-9.11	STORM DRAINAGE TABLES
59	C-10.0	EROSION CONTROL NOTES
60	C-10.1	EROSION CONTROL PLAN OVERALL PHASE 1 - STAGE 1
61	C-10.2	EROSION CONTROL PLAN PHASE 1 - STAGE 1
62	C-10.3	EROSION CONTROL PLAN OVERALL PHASE 1 - STAGE 2
63	C-10.4	EROSION CONTROL PLAN PHASE 1 - STAGE 2
64	C-10.5	EROSION CONTROL PLAN OVERALL PHASE 1 - STAGE 3
65	C-10.6	EROSION CONTROL PLAN PHASE 1 - STAGE 3
66	C-10.7	EROSION CONTROL PLAN OVERALL PHASE 2 - STAGE 1
67	C-10.8	EROSION CONTROL PLAN PHASE 2 - STAGE 1

	72	C-10.13	EROSION CONTROL PLAN OVERALL PHASE 3 - STAGE 1
	73	C-10.14	EROSION CONTROL PLAN PHASE 3 - STAGE 1
	74	C-10.15	EROSION CONTROL PLAN OVERALL PHASE 3 - STAGE 2
1	75	C-10.16	EROSION CONTROL PLAN PHASE 3 - STAGE 2
	76	C-10.17	EROSION CONTROL PLAN OVERALL PHASE 3 - STAGE 3
	77	C-10.18	EROSION CONTROL PLAN PHASE 3 - STAGE 3
1	78	C-10.19	EROSION CONTROL PLAN OVERALL PHASE 4 - STAGE 1
	79	C-10.20	EROSION CONTROL PLAN PHASE 4 - STAGE 1
	80	C-10.21	EROSION CONTROL PLAN OVERALL PHASE 4 - STAGE 2
	81	C-10.22	EROSION CONTROL PLAN PHASE 4 - STAGE 2
	82	C-10.23	EROSION CONTROL PLAN OVERALL PHASE 4 - STAGE 3
	83	C-10.24	EROSION CONTROL PLAN PHASE 4 - STAGE 3
	84	C-10.25	EROSION CONTROL PLAN OVERALL PHASE 5 - STAGE 1
	85	C-10.26	EROSION CONTROL PLAN PHASE 5 - STAGE 1
	86	C-10.27	EROSION CONTROL PLAN OVERALL PHASE 5 - STAGE 2
	87	C-10.28	EROSION CONTROL PLAN PHASE 5 - STAGE 2
	88	C-10.29	EROSION CONTROL PLAN OVERALL PHASE 5 - STAGE 3
	89	C-10.30	EROSION CONTROL PLAN PHASE 5 - STAGE 3
	90	C-10.31	EROSION CONTROL PLAN OVERALL PHASE 6 - STAGE 1
	91	C-10.32	EROSION CONTROL PLAN PHASE 6 - STAGE 1
	92	C-10.33	EROSION CONTROL PLAN OVERALL PHASE 6 - STAGE 2
	93	C-10.34	EROSION CONTROL PLAN PHASE 6 - STAGE 2
	94	C-10.35	EROSION CONTROL PLAN OVERALL PHASE 6 - STAGE 3
	95	C-10.36	EROSION CONTROL PLAN PHASE 6 - STAGE 3
	96	C-11.0	PROPOSED PENDULUM STREET - PLAN & PROFILE
	97	C-11.1	PROPOSED YELLOW MOON COURT - PLAN & PROFILE
	98	C-11.2	PROPOSED EVEN FLOW LANE - PLAN & PROFILE
	99 - 100	C-11.3 - C-11.4	PROPOSED OCEANS COURT - PLAN & PROFILE
	101	C-11.5	PROPOSED MCCREADY COURT - PLAN & PROFILE
ł	102	C-11.6	PROPOSED VEDDER LANE & BETTERMAN DRIVE - PLAN & PROFILE
ł	103 - 104	C-11.7 - C-11.8	PROPOSED LIGHTING BOLT LANE - PLAN & PROFILE
J	105	C-11.9	PROPOSED GIGATON STREET - PLAN & PROFILE
	106	C-11.10	PROPOSED COUNTER STREET - PLAN & PROFILE
	107	C-11.11	PROPOSED UNPLUGGED AVENUE - PLAN & PROFILE
	108	C-11.12	PROPOSED SUPERSONIC WAY - PLAN & PROFILE
	109	C-11.13	PROPOSED LUKIN LANE - PLAN & PROFILE
	110	C 11 14	DDODOSED DADACHLITE DI ACE DI ANI & DDOEILE

VICINITY MAP

FRIS MAP # 3720175700K PANEL # 1757 EFFECTIVE DATE: 07/19/2022

OWNER:

HOPPER COMMUNITIES **CONTACT: BILL HARRELL** BHARRELL@HOPPERCOMMUNITIES.COM

SURVEYOR:

THE TIMMONS GROUP 5410 TRINITY ROAD, Suite 102 | RALEIGH, NC 27607 TEL 919.866.4951

ENVIRONMENTAL CONSULTANT:

SOIL & ENVIRONMENTAL CONSULTANTS 8412 FALLS OF NEUSE RD. SUITE 104 RALEIGH, NC 27615

CIVIL ENGINEERING:

STRONGROCK ENGINEERING GROUP 305 CHURCH AT NORTH HILLS ST, SUITE 1110 INFORMATION@STRONGROCKGROUP.COM

ATTENTION CONTRACTORS

THE CONTRACTOR RESPONSIBLE FOR THE EXTENSION OF WATER, SEWER, AND/OR REUSE, AS APPROVED IN THESE PLANS, IS RESPONSIBLE FOR CONTACTING THE INFRASTRUCTURE INSPECTIONS DIVISION AND SCHEDULE A PRE-CONSTRUCTION MEETING ON THE DEVELOPMENT PORTAL PRIOR TO BEGINNING ANY CONSTRUCTION. RALEIGH WATER MUST BE CONTACTED AT (919) 996-4540 AT LEAST TWENTY-FOUR HOURS PRIOR TO BEGINNING ANY WORK ACTIVITY AROUND CRITICAL WATER AND SEWER INFRASTRUCTURE.

FAILURE TO NOTIFY 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.

EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT **APPROVED** EROSION CONTROL SEC-STORMWATER MGMT.□SWF-FLOOD STUDY ☐ SWF-_ DATE ENVIRONMENTAL CONSULTANT SIGNATURE

PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6
63	61	65	0	118	83
63	61	65	0	118	83
3,441	3,079	2,691	1,672	3,940	2,781
3,004	2,734	2,671	390	3,073	2,787
-	-	-	-	-	-
-	-	-	-	-	-
63	61	65	0	118	83
63	61	65	0	118	83
14,175	13,725	14,625	0	26,550	18,675
ECTS WITH	SINGLE W	ATER ANI	SEWER S	SERVICE	
	63 63 3,441 3,004 - - 63 63 14,175	63 61 63 61 3,441 3,079 3,004 2,734 63 61 63 61 14,175 13,725	63 61 65 63 61 65 3,441 3,079 2,691 3,004 2,734 2,671 - - - - - - 63 61 65 63 61 65 14,175 13,725 14,625	63 61 65 0 63 61 65 0 3,441 3,079 2,691 1,672 3,004 2,734 2,671 390 - - - - - - - - 63 61 65 0 63 61 65 0 14,175 13,725 14,625 0	63 61 65 0 118 63 61 65 0 118 3,441 3,079 2,691 1,672 3,940 3,004 2,734 2,671 390 3,073 - - - - - - - - - - 63 61 65 0 118 63 61 65 0 118

RALEIGH WATER INSPECTIONS QUANTITIES (SUBDIVISIONS AND SITE PLANS)

DWELLING, TOWNHOUSE, CONDOS), OR BASED ON 15A NCAC 02T .0114 WASTEWATER DESIGN FLOW RATES FOR THE METER SIZE MUST MATCH DOMESTIC SERVICE SIZE (EXEMPTION - 3/4" SERVICE TAP WITH 5/8" METER)

WATER DISTRIBUTION / EXTENSION SYSTEM THE CITY OF RALEIGH CONSENTS TO THE CONNECTION AND EXTENSION OF THE CITY'S PUBLIC WATER SYSTEM AS SHOWN ON THIS PLAN. THE MATERIAL AND CONSTRUCTION METHODS USED FOR THIS PROJECT SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY'S PUBLIC UTILITIES HANDBOOK.

CITY OF RALEIGH

PUBLIC UTILITIES DEPARTMENT PERMIT #

PUBLIC SEWER COLLECTION / EXTENSION SYSTEM

THE CITY OF RALEIGH CONSENTS TO THE CONNECTION AND EXTENSION OF THE CITY'S PUBLIC SEWER SYSTEM AS SHOWN ON THIS PLAN. THE MATERIAL AND CONSTRUCTION METHODS USED FOR THIS PROJECT SHALL CONFORM TO THE

STANDARDS AND SPECIFICATIONS OF THE CITY'S PUBLIC UTILITIES HANDBOOK. PUBLIC UTILITIES DEPARTMENT PERMIT #

100	0 11:12	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
109	C-11.13	PROPOSED LUKIN LANE - PLAN & PROFILE
110	C-11.14	PROPOSED PARACHUTE PLACE - PLAN & PROFILE
111	C-11.15	PROPOSED CORNELL GARDEN STREET - PLAN & PROFI
112	C-11.16	PROPOSED FUTURE DAYS WAY - PLAN & PROFILE
113 - 114	C-11.17 - C-11.18	PROPOSED SOUNDGARDEN COURT - PLAN & PROFILE
115	C-11.19	PROPOSED MONKEYWRENCH STREET - PLAN & PROFIL
116	C-11.20	PROPOSED MOOKIE ALLEY - PLAN & PROFILE
117	C-11.21	PROPOSED DARK MATTER ALLEY - PLAN & PROFILE
118	C-11.22	PROPOSED CAMERON SOUND ALLEY - PLAN & PROFILE
119	C-11.23	PROPOSED PEARL JAM ALLEY - PLAN & PROFILE
120	C-11.24	PROPOSED GUARANTEED ALLEY - PLAN & PROFILE
121 - 125	C-11.25 - C-11.29	OFF-SITE JONESVILLE RD - PLAN & PROFILE
126 - 128	C-11.30 - C-11.32	OFF-SITE MITCHELL MILL RD - PLAN & PROFILE
129 - 136	C-11.33 - C-11.40	OFF-SITE WATER MAIN - PLAN & PROFILE
137 - 138	C-11.41 - C-11.42	ON-SITE SANITARY SEWER - PLAN & PROFILE
139	C-11.43	MULTI USE ASPHALT PATH - PLAN & PROFILE
140 - 141	C-11.44 - C-11.45	PROPOSED GREENWAY 1 - PLAN & PROFILE
142 - 143	C-11.46 - C-11.47	PROPOSED GREENWAY 2 - PLAN & PROFILE
144	C-11.48	PROPOSED GREENWAY 2 & 3 - PLAN & PROFILE
145	C-11.49	PROPOSED GREENWAY 4 & 5 - PLAN & PROFILE
146	L-1.0	OVERALL LANDSCAPE PLAN
147 - 155	L-1.1 - L-1.9	PARTIAL LANDSCAPE PLAN I - IX
156	L-2.0	OVERALL AMENITIES PLAN
157	L-2.1	BALLFIELD & SMALL IPEMA PLAYGROUND PLAN
158	L-2.2	PRIMITIVE TRAIL
159	L-2.3	POLLINATOR GARDEN
160	L-2.4	GREENWAY PLAN
161	L-2.5	PARKOUR COURSE & GREENWAY PLAN
162	L-2.6	GREENWAY PLAN
163	L-2.7	SMALL IPEMA PLAYGROUND PLAN
164	L-2.8	GREENWAY PLAN
165	L-2.9	GREENWAY PLAN
166	L-2.10	BASKETBALL COURT & GREENWAY PLAN
167	L-2.11	POCKET PARK II PLAN
168	L-2.12	POCKET PARK I PLAN
169	L-2.13	NEIGHBOURHOOD PARK PLAN
170	L-2.14	CRICKET PITCH PLAN
171	L-3.0	OVERALL SCM PLANTING PLAN
172	L-3.1	SCM PLANTING NOTES
173 - 179	L-3.0 - L-3.6	PLANTING SCM #1 - SCM #8
181	C-12.0	OVERALL PRESERVATION PLAN
182 - 189	C-12.1 - C-12.8	PRESERVATION PLAN I - VIII
190	C-12.9	PRESERVATION PLAN TABLES
191	C-13.0	OVERALL SIGNAGE & PAVEMENT MARKING PLAN
192 - 200	C-13.1 - C-13.9	PARTIAL SIGNAGE & PAVEMENT MARKING PLAN I - IX
201 - 205	D-1.0 - D-1.4	AMENITIES DETAILS
206 - 209	D-2.0 - D-2.3	SITE DETAILS
210 - 218	D-3.0 - D-3.8	STORMWATER CONTROL MEASURE '1' - '8'
219 - 220	D-3.9 - D-3.10	STORM DRAINAGE DETAILS
221 - 222	D-4.0 - D-4.1	SANITARY SEWER DETAILS
		
223 - 224	D-5.0 - D-5.1	WATER DETAILS

DRAWING

01 OF 230

THIS PLANSET AND ANY ASSOCIATED DOCUMENTS ARE PRELIMINARY AND NOT AUTHORIZED FOR CONSTRUCTION UNTIL SIGNED, DATED, AND OFFICIALLY RELEASED FOR CONSTRUCTION BY THE ENGINEER OF RECORD.

CONDITIONS OF APPROVAL:

A WATER MODEL WILL BE REQUIRED TO BE COMPLETED BY THE PROJECT ENGINEER TO DEMONSTRATE THAT THE PROPOSED WATERLINE EXTENSION WILL PROVIDE ADEQUATE FIRE FLOW AND PRESSURE FOR THE PROPOSED DEVELOPMENT.

EXHIBIT D

MIXED-USE NEIGHBORHOOD CENTER CONDITIONAL

DISTRICT (NC-CZ) AND RESIDENTIAL MEDIUM DENSITY CONDITIONAL ZONING DISTRICT (RM-CZ) ZONING CONDITIONS

Conditions Applicable to the entire property: The subject property shall be developed generally in accordance with the sketch plan attached hereto as Exhibit 1 and incorporated herein as if fully set out. The approximately 55± acre portion of the subject property located west of Jonesville Road and further described as Parcel 1 on the attached Exhibit 2 attached hereto shall be zoned NC-CZ and the approximately 86± acre portion of the property located east of Jonesville Road and

further described as Parcel 2 on Exhibit 2 attached hereto shall be zoned RM-CZ. The improvements described herein may be developed in phase in accordance with a phasing plan approved by the Town of Rolesville. 2. The total number of dwellings on the subject property shall not exceed 395 dwelling units and

no more than 134 of these dwelling units shall be permitted to be Dwellings, Single 3. Mixture of Uses: At least 50,000 square feet of non-residential building area shall be permitted (issuance of a building permit) prior to permitting (issuance of a building permit) more

than 197 dwelling units. Affordable Housing:
 a. Prior to the issuance of the first building permit for a dwelling unit, the property owner shall donate Sixty Thousand Dollars and No Cents (\$60,000.00) to Homes for

b. Prior to the issuance of the 200th building permit, the property owner shall donate one (1) Dwelling, Single Family, Attached (townhome) to Passage Homes, CASA, Habitat for Humanity of Wake County or other similar organization providing homes to low-income people.

5. Pollinator Plantings: At least twenty percent (20%) of the landscaping planted in common areas on the subject property shall utilize plant materials that are listed as Native Pollinator Plants on North Carolina Wildlife Federation ("NCWF") or other resources for native plants recommended by the NCWF on their website, currently found at https://nowf.org/habitat/native-polinator-plants/ Where evergreen plantings or street trees are required by the Rolesville Land Development Ordinance as the same may be amended from time to time, pollinator plantings shall not be required. Nothing herein shall be construed to limit the plant materials permitted on individual residential lots. Compliance with this condition shall be demonstrated at

construction infrastructure drawings for each phase.

 Recreational Amenities:
 The following recreational amenities shall be provided generally as shown on the attached Exhibit
 1 as a part of the development of the subject property and dedicated to the Homeowner's Association except for those areas offered to and accepted by the Town of Rolesville:

A swimming pool and cabana, including changing rooms and restrooms shall be constructed prior to the issuance of the 150th building permit for a dwelling unit;

b. At least one fenced playground shall be constructed prior to the issuance of the 150th building permit for a dwelling unit:

c. At least one fenced dog park shall be constructed prior to the issuance of the 150th building permit for a dwelling unit; d. Public greenway on a greenway easement dedicated to the Town of Rolesville with paved trails at least ten feet wide (10') shall be constructed generally as shown

on the attached Exhibit 1; e. A greenway trail head with at least four (4) parking spaces shall be constructed generally as shown on Exhibit 1 and offered to the Town of Rolesville for use as a greenway trail head prior to the issuance of the 200th building permit for a twelling unit. The Town of Rolesville may accept or reject the offer of dedication in its sole discretion prior to the issuance of the 250th building permit. If the Town of Rolesville accepts dedication of this trailhead, the area dedicated to the Town of Rolesville shall be credited to this project as active open space. If the Town of does not accept or reject the issuance of the 250th building permit, it shall be dedicated to the homeowner's

f. At least one (1) community garden shall be provided prior to issuance of the 338th

building permit for a dwelling unit; and g. At least one (1) acre of undeveloped land in the area located at the northeast quadrant of the intersection of Jonesville Road and Mitchell Mill Road shall be offered to the Town of Rolesville generally as shown on the attached Exhibit 1 for

recreational uses prior to the issuance of the 150th building permit for a dwelling unit. The Town of Rolesville may accept or reject the offer of dedication in its sole discretion prior to the issuance of the 200th building permit. If the Town of Rolesville accepts dedication of this property, the area dedicated to the Town of Rolesville shall be credited to this project as active open space. If the Town of Rolesville does not accept or reject the dedication of this area in writing prior to the issuance of the 200th building permit, it shall be dedicated to the

homeowner's association.

7. <u>Additional Driveway Access and Crosswalk to Commercial Area:</u>

Prior to the issuance of the first building permit, the property owner shall apply to NCDOT to allow the installation of an additional driveway access and cross-walk across Jonesville Road from the property zoned RM-CZ to the commercial area located in the northwest quadrant of the intersection of Mitchell Mill and Jonesville Road, both as generally shown as "Potential Additional Driveway and Cross Walk Connection Per Condition #7 of Zoning Conditions" on Exhibit 1. The application to NCDOT shall include a plan for the driveway connection and crosswalk drawn by an engineer and an update to the existing traffic impact analysis prepared by a traffic engineer. If NCDOT approves such a crosswalk and/o driveway access, the property owner shall install them in accordance with the requirements of NCDOT.

 Transportation Improvements:
To address transportation impacts reasonably expected to be generated by the development, the following road improvements shall be installed in accordance with future phasing plans approved by the

> i. Widen Jonesville Road along the site frontage between Site Access 1 and Mitchell Mill to the roadways ultimate cross section per Rolesville Community Transportation Plan, 2 isnes with two-way left turn lanes.

Widen one-half section along the site frontage to this roadway's ultimate cross section per the Rolesville Community Transportation Plan, 4-lane median

c. Mitchell Mill Road and Jonesville Road/Peebles Road:

i. Provide a southbound (Jonesville Road) left turn lane with at least 100 feet of storage and appropriate decel and taper, and

ii. Construct an eastbound (Mitchell Mill Road) left-turn lane with at least 100 feet

of storage and appropriate decel and taper. d. Jonesville Road and Site Access 1:

i. Construct the westbound approach (Site Access 1) with one ingress lane and

one egress lane; Provide stop-control for westbound approach (Site Access 1); and
 Construct a southbound (Jonesville Road) left-turn lane with at least 100 feet of storage and appropriate decel and taper.

e. <u>Jonesville Road and Site Access 2</u>

I. Construct the westbound approach (Site Access 2) with one ingress lane and one egress lane; ii. Provide stop-control for westbound approach (Site Access 2); and

iii. Construct a southbound (Jonesville Road) left-turn lane with at least 100 feet of storage and appropriate decel and taper. f. Jonesville Road and Site Access 3:

i. Construct the eastbound and westbound approaches (Site Access 3) with one

ingress lane and one egress lane;
ii. Provide stop-control for eastbound and westbound approach (Site Access 3); iii. Construct northbound (Jonesville Road) left-turn lane with at least 100 feet of storage and appropriate decel and taper;

iv. Construct northbound (Jonesville Road) right-turn lane with at least 100 feet of storage and appropriate decel and taper; v. Construct a southbound (Jonesville Road) left-turn lane with at least 100 feet of storage and appropriate decel and taper; and

vi. Construct a southbound (Jonesville Road) right-turn lane with at least 100 feet of storage and appropriate decel and taper. g. Jonesville Road and Site Access 4:

i. Construct the eastbound approach (Site Access 4) with one ingress lane and

one egress lane; ii. Provide stop-control for eastbound approach (Site Access 4); iii. Provide a northbound (Jonesville Road) left-turn lane with at least 100 feet of storage and appropriate decei and taper; and

iv. Provide a southbound (Jonesville Road) right-turn lane with at least 100 feet of storage and appropriate decel and taper. h. Michell Mill and Site Access 5:

i. Construct the southbound approach (Site Access 5) with one ingress lane and

ii. Provide stop-control for southbound approach (Site Access 5) restricted to right in, right-out operations unless left-turn access is approved by NCDOT; and

iii. Construct an exclusive westbound (Mitchell Mill Road) right-turn lane with at least 100 feet of storage and appropriate decel and taper. Mitchell Mill and Site Access 6:

one egress lane striped as an exclusive right-turn lane; and ii. Provide stop-control for southbound approach (Site Access 6) restricted to right in, right-out operations. Mitchell Mill and Site Access 7:

L Construct the southbound approach (Site Access 7) with one ingress lane and one egress lane;

ii. Provide stop-control for southbound approach (Site Access 7); and iii. Construct an exclusive eastbound (Mitchell Mill Road) left-turn lane with at least 100 feet of storage and appropriate decel and taper.

k. Mitchell Mill Road and Site Access 8:

i. Construct the southbound approach (Site Access 8) with one ingress lane and one egress lane striped as an exclusive right-turn lane;

ii. Provide stop-control for southbound approach (Site Access 8). This proposed

intersection will be restricted to right-in/right-out operations; and iii. Construct an exclusive westbound (Mitchell Mill Road) right-turn lane with at least 100 feet of storage and appropriate decel and taper.

 Signal Analysis and Funding: I. US 401 Bypass and Jonesville Road: Conduct a full signal warrant analysis prior to full build-out of the proposed development and install a traffic signal if warranted and approved by the Town and NCDOT. Nothing herein shall prohibit the property owner or developer from entering into cost-sharing agreements with others who may also benefit from a signal

ii. <u>US 401Bypass and Eastern U-turn Location</u>: Conduct a full signal warrant analysis prior to full build-out of the proposed development and install a traffic signal if warranted and approved by the Town and NCDOT. Nothing herein shall prohibit the property owner or developer from entering into cost-sharing agreements with others who may also benefit

from a signal at this location iii. Jonesville and Mitchell Mill Road: Conduct a full signal warrant analysis prior to full build-out of the proposed development and install a traffic signal if warranted and approved by the Town and NCDOT. Nothing herein shall prohibit the property owner or developer from entering into cost-sharing agreements with others who may also benefit from a signal at this

iv. If no traffic signal has been warranted and approved by the Town and NCDOT at any of the locations identified in Condition 8(1)(i)-(iii) at full build-out of the proposed development (issuance of certificate of occupancy for the 380th dwelling unit and 50,000 square feet of non-residential uses), the property owner shall contribute Fifty Thousand Dollars (\$50,000.00) to the Town of Rolesville to be used by the Town of Rolesville to install a traffic light at any one of the locations identified in Condition 8(1)(i)-(iii)

Conditions Applicable to Dwelling, Single Family, Detached only:

9. All homes shall include either crawl space foundations or stem wall foundations. Any stem wall foundations shall be at least eighteen inches (18") in height across the front facade of the home and shall have brick or stone veneer on all sides facing a public street. The minimum building square footage shall be 2,000 square feet.

Conditions Applicable to Dwellings, Single Family, Attached (Townhouse) only:

No Dweiling, Single Family, Attached (Townhouse) building shall exceed six (6) dwellings.
 The minimum building square footage for townhomes shall be 1,200 square feet.

Conditions Applicable to the NC-CZ District only:

13. All uses permitted in the Neighborhood Center Mixed-Use district shall be permitted within the NC-CZ except Dwellings, Multiple Family (apartments) shall only be permitted in buildings with commercial uses located on the ground floor.

These zoning conditions have been voluntarily offered by the property owner. All property owners must sign each condition page. This page may be photocopied if additional space is needed.

04 05 05

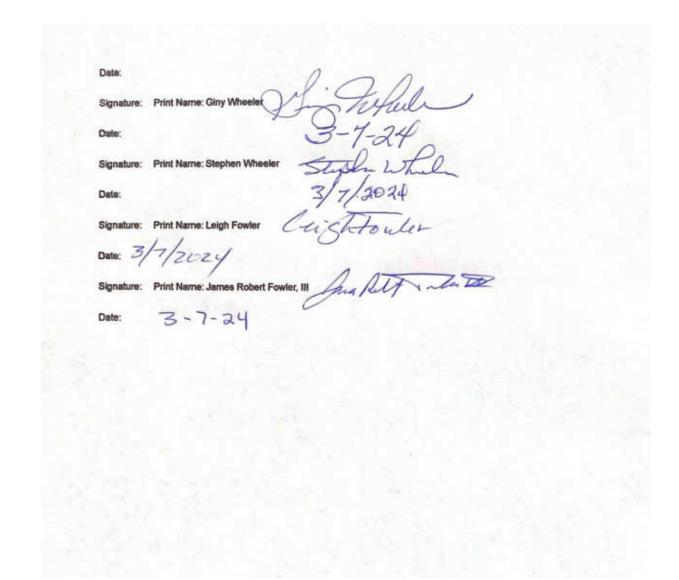
(2) MITCHELL MILL S, WAKE COUNTY, NORTH CARO CTION PLAN SONSTRUC-

> DRAWING SHEET

02 OF 230

C-1.1

THIS PLANSET AND ANY ASSOCIATED DOCUMENTS ARE PRELIMINARY AND NOT AUTHORIZED FOR CONSTRUCTION UNTIL SIGNED, DATED, AND OFFICIALLY RELEASED FOR CONSTRUCTION BY THE ENGINEER OF RECORD.



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GENERAL CONSTRUCTION NOTES:

1. SEE GENERAL NOTES ON SHEET C-6.0.

DEVICES (MUTCD), LATEST EDITION.

- 2. WITHIN ALL NOTES, THE TERM CONTRACTOR WILL MEAN THE GENERAL CONTRACTOR AND ANY SUBCONTRACTORS OR VENDORS PERFORMING WORK ON THE PROJECT.
- 3. ANY CONTRACTOR SUBMITTING A BID FOR THIS PROJECT SHALL MAKE A SITE VISIT PRIOR TO SUBMITTING BID.
- 4. BOUNDARY DATA PERFORMED BY TIMMONS GROUP. SEE SURVEY FOR BENCHMARK & TBM INFORMATION. SURVEY IS REFERENCED TO NC GRID NAD 83. REFER TO EXISTING CONDITIONS PLAN
- 5. ANY RELOCATION OF BENCHMARKS SHALL BE PERFORMED BY A NC LICENSED SURVEYOR.
- 6. ALL WORK, CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE TOWN OF ROLESVILLE, WAKE COUNTY, NCDOT OR & CITY OF RALEIGH STANDARDS AND SPECIFICATIONS, LATEST EDITION.
- 7. ALL WORK, CONSTRUCTION AND MATERIALS WITHIN NCDOT RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE 2018 NCDOT STANDARDS SPECIFICATIONS FOR ROADS AND STRUCTURES.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE TRAFFIC CONTROL IN OR ADJACENT TO NCDOT RIGHT-OF-WAY. TRAFFIC CONTROL SHALL BE MAINTAINED AT ALL TIMES WITH PROPER SIGNAGE, SIGNALS, LIGHTING, FLAGMEN, ALL SIGNS, PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL
- 9. COPIES OF ALL PERMITS AND APPROVED PLANS MUST BE KEPT ON SITE IN A PERMIT BOX THAT IS CONSPICUOUSLY LOCATED AND EASILY ACCESSIBLE DURING CONSTRUCTION. THIS INCLUDES APPROVED CONSTRUCTION PLANS, APPROVED EROSION CONTROL PLANS, ENCROACHMENT AGREEMENTS, DRIVEWAY PERMITS, WATER/SEWER PERMITS, ETC.
- 10. LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE AND MUST BE FIELD VERIFIED. CONTACT THE NC ONE CALL CENTER AT LEAST 72 HOURS PRIOR TO DIGGING @ 1.800.632.4949. UNDERGROUND LINES SHOWN HEREON ARE APPROXIMATE OR AS REPORTED BY VARIOUS RESPONSIBLE PARTIES. THE SURVEYOR DOES NOT GUARANTEE THAT ANY UNDERGROUND STRUCTURES SUCH AS UTILITIES, TANKS AND PIPES ARE LOCATED HEREON.
- 11. THE CONTRACTOR SHALL NOTIFY AND COOPERATE WITH ALL UTILITY COMPANIES OR FIRMS HAVING FACILITIES ON OR ADJACENT TO THE SITE BEFORE DISTURBING, ALTERING, REMOVING, RELOCATING, ADJUSTING OR CONNECTING TO SAID FACILITIES.
- 12. THE CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ANY TOWN, CITY OF RALEIGH OR NCDOT DAMAGED PROPERTY. THE CONTRACTOR SHALL REPAIR THE DAMAGED PROPERTY TO THE LATEST STANDARDS AND SPECIFICATIONS OF THE AGENCY HOLDING JURISDICTION AT NO COST TO THE OWNER.
- 13. ANY DAMAGE DONE TO PRIVATE PROPERTY OWNERS SIGNS, MAILBOX, DRIVEWAY CULVERTS, LANDSCAPING OR OTHER PROPERTY SHALL BE RESTORED TO ORIGINAL CONDITION. AT NO COST TO OWNER.
- CONTRACTOR IS RESPONSIBLE FOR FENCING AND SECURITY OF HIS LAYDOWN AND STORAGE AREA.
- 15. THE CONTRACTOR IS REQUIRED TO MEET ALL APPLICABLE FEDERAL, OSHA, STATE AND LOCAL REGULATIONS CONCERNING PROJECT SAFETY AND ASSUMES FULL RESPONSIBILITY FOR SAFETY ON THE PROJECT
- 16. CONTRACTOR SHALL KEEP ALL ROADS FREE OF DIRT AND DEBRIS AT ALL TIMES.
- 17. CONTRACTOR SHALL PROTECT EXISTING PAVEMENTS AND UTILITIES FROM HEAVY EARTH MOVING EQUIPMENT. PROVIDE TRAFFIC CONTROL AND ADEQUATE PROTECTION METHODS AT ALL EQUIPMENT CROSSINGS.
- 18. ALL STRUCTURAL FILL MATERIAL SHALL BE FREE OF ALL STICKS, ROCKS, AND CLUMPS OF MUD. ALL ROCKS GREATER THAN 3" DURING EXCAVATION SHALL BE REMOVED.
- 19. CONCRETE SIDEWALKS THAT ARE TO BE REMOVED SHALL BE CUT BACK TO NEAREST EXPANSION OR CONTROL JOINT AND REPLACED WITH 4-INCH CONCRETE SIDEWALK FINISHED TO MATCH EXISTING SIDEWALKS.
- 20. CONTRACTOR TO COORDINATE WITH CITY OF RALEIGH FOR TEMPORARY WATER NEEDED DURING CONSTRUCTION. IF PERMITTED TO CONNECT TO EXISTING FIRE HYDRANT A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTER WILL BE REQUIRED.
- 21. THE TRANSITION OF PROPOSED ROADWAY TO EXISTING ROADWAY SHALL BE DONE WITH A MINIMUM 8-FT TRANSITION WHERE THE EXISTING PAVEMENT IS MILLED TO A MINIMUM DEPTH OF 1-1/2" AND OVERLAID.
- 22. ALL PAVEMENT SAW CUTS SHALL BE NEAT, STRAIGHT AND FULL DEPTH.
- 23. ALL RIP-RAP IS TO BE INSTALLED WITH NON-WOVEN FILTER FABRIC BENEATH (MIRAFI 14ON OR APPROVED EQUAL).
- 24. HDPE PIPE SHALL BE ADS N-12 WT (ASTM D3212) OR APPROVED EQUAL INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS REQUIREMENTS AND RECOMMENDATIONS.
- 25. ALL SITE CONSTRUCTION MUST BE INSPECTED BY THE GEOTECHNICAL ENGINEER AT THE FOLLOWING STAGES:
 - A. COMPLETION OF GRADING SUBGRADE PRIOR TO PLACING STONE BASE.
 - B. COMPLETION OF STONE PLACEMENT PRIOR TO PAVING.
 - C. FINAL INSPECTION WHEN ALL WORK IS COMPLETE.

- 26. PRIOR TO PLACING CABC STONE BASE, THE CONTRACTOR SHOULD NOTIFY THE GEOTECHNICAL ENGINEER TO INSPECT THE PROOF ROLL OF THE SUBGRADE. ANY STONE PLACED WITHOUT PRIOR APPROVAL WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBJECT TO RE-CONSTRUCTION IF SUBGRADE DOES NOT MEET TOWN AND NCDOT STANDARDS & SPECIFICATIONS.
- 27. ALL UTILITY SERVICES, (POWER, TELEPHONE, CABLE, ETC.) ARE PROPOSED TO BE UNDERGROUND. THE CONTRACTOR SHALL COORDINATE WITH THE PRIVATE UTILITY SERVICE COMPANIES FOR ANY REQUIRED CONDUITS OR POINT OF CONTACT CONDITIONS.
- 28. ALL PUBLIC UTILITIES THAT REQUIRE AN ENGINEERING CERTIFICATION MUST BE INSPECTED BY A PROFESSIONAL ENGINEER ON A PERIODIC BASIS. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER WHEN INSTALLING UTILITIES FOR PERIODIC INSPECTIONS. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER AT THE TIME OF PRESSURE TESTING AND WATER LINE DISINFECTION. THE CONTRACTOR SHALL SUPPLY THE PROJECT ENGINEER PRESSURE TEST RESULTS.
- 29. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS AND FIELD CONDITIONS WHEN POSSIBLE, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS WELL IN ADVANCE OF TRENCHING. IF THE CLEARANCES ARE LESS THAN SPECIFIED ON THE PLANS OR 12 INCHES, WHICH EVER IS LESS, CONTACT THE PROJECT ENGINEER PRIOR TO PROCEEDING WITH
- 30. THE CONTRACTOR SHALL INCLUDE IN HIS CONTRACT PRICE THE REMOVAL AND DISPOSAL, TO AN APPROVED NCDENR LOCATION, OF ANY EXCESS TOPSOIL OR UNCLASSIFIED EXCAVATION HE DETERMINES IS NOT REQUIRED TO PERFORM THE FINAL GRADING AND LANDSCAPING OPERATION.
- 31. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE DAILY RECORD KEEPING OF THE AS-BUILT CONDITION OF ALL OF THE UNDERGROUND UTILITIES, CONSTRUCTION STAKEOUT ASSOCIATED WITH THE PROJECT. PREPARATION OF THE NECESSARY/REQUIRED AS-BUILT PLANS TO BE SUBMITTED TO TOWN OF ROLESVILLE AND/OR CITY RALEIGH PUBLIC UTILITIES AND/OR ALL OTHER INFORMATION REQUIRED IN CONNECTION WITH RELEASE OF BONDS.
- 32. THE CONTRACTOR SHALL INCLUDE IN THE PRICE, ANY AND ALL COSTS ASSOCIATED WITH PROVIDING A PROFESSIONAL ENGINEER ON SITE IF REQUIRED, DURING THE CONSTRUCTION OF THE STORMWATER MANAGEMENT FACILITIES, UNDERGROUND UTILITIES, ETC. AS REQUIRED FOR AS-BUILT CERTIFICATION.
- 33. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL REQUIRED/NECESSARY SHEETING, SHORING, AND SPECIAL EXCAVATION MEASURES REQUIRED ON THE PROJECT TO MEET OSHA, FEDERAL, STATE AND LOCAL REGULATIONS PURSUANT TO THE INSTALLATION OF THE WORK INDICATED ON THE DRAWINGS. NCDOT, TOWN OF ROLESVILLE, CITY OF RALEIGH, & ENGINEER OF RECORD ACCEPT NO RESPONSIBILITY FOR THE DESIGN TO INSTALL SAID ITEMS.
- 34. TESTING BY CONTRACTOR: CONTRACTOR SHALL EMPLOY AT HIS EXPENSE AN OUTSIDE INDEPENDENT SOIL TESTING SERVICE (APPROVED BY THE OWNER) TO PERFORM SOIL TESTING AND INSPECTION SERVICE FOR QUALITY CONTROL TESTING DURING EARTHWORK OPERATIONS. COPIES OF RESULTS OF TESTS SHALL BE SUBMITTED BY THE TESTING SERVICE DIRECTLY TO THE CONTRACTOR, THE OWNER, AND THE APPLICABLE APPROVING AGENCY. --THE TESTING SERVICE WILL CLASSIFY PROPOSED ON-SITE AND BORROW SOILS TO VERIFY THAT SOILS COMPLY WITH SPECIFIED REQUIREMENTS AND TO PERFORM REQUIRED FIELD AND LABORATORY TESTING. (MINIMUM REQUIRED SOIL BEARING CAPACITY IS NOTED ON THE STRUCTURAL DRAWINGS). -IN PAVED AND BUILDING SLAB AREAS, THE TESTING SERVICE SHALL MAKE AT LEAST ONE FIELD DENSITY TEST FOR EACH 2000 SQUARE FEET OF FILL IN EACH COMPACTED FILL LAYER. IF A TEST SHOULD FAIL TO MEET REQUIRED DENSITY, THE CONTRACTOR SHALL RE-COMPACT THAT LAYER. THE SOIL TESTING SERVICE SHALL PERFORM ADDITIONAL TESTS AT THE CONTRACTOR'S EXPENSE TO SHOW THAT THE FAILED LAYER HAS REACHED THE REQUIRED COMPACTION. --IN FOUNDATION WALL AREAS, THE TESTING SERVICE SHALL MAKE AT LEAST ONE FIELD DENSITY TEST FOR EACH 100 FEET OR LESS OF WALL LENGTH OF FILL IN EACH COMPACTED FILL LAYER, WITH NO LESS THAN TWO TESTS ALONG A WALL FACE. IF A TEST SHOULD FAIL TO MEET REQUIRED DENSITY, THE CONTRACTOR SHALL RE-COMPACT THAT LAYER. THE SOIL TESTING SERVICE SHALL PERFORM ADDITIONAL TESTS AT THE CONTRACTOR'S EXPENSE TO SHOW THAT THE FAILED LAYER HAS REACHED THE REQUIRED COMPACTION.
- 35. COMPACTION: COMPACT EACH LAYER OF BACKFILL AND FILL SOIL MATERIALS AND THE TOP 12" OF SUBGRADE IN CUT AREAS TO 98% OF MAXIMUM DENSITY IN ACCORDANCE WITH AASHTO T99 FOR STRUCTURES, SLABS, AND PAVEMENTS AND 95% OF MAXIMUM DENSITY FOR EMBANKMENTS OR UNPAVED AREAS. MAX LIFT THICKNESS FOR FILL AREAS IS 8 INCHES.
- 36. DESIGN/FIELD CONDITIONS QUITE EASILY MAY VARY FROM THAT REPRESENTED IN THE INITIAL SOILS REPORT AND/OR TOPOGRAPHICAL REPORT. ISOLATED AREAS MAY SHOW UP WEAK AND ADVERSE SOILS OR GROUNDWATER CONDITIONS MAY BE DISCOVERED THAT WERE NOT REVEALED DURING THE INITIAL SOILS INVESTIGATION. THEREFORE, THE OWNER/CLIENT IS TO BE AWARE THAT ENGINEER OF RECORD WILL NOT AND CANNOT BE HELD RESPONSIBLE FOR ANY FAILURES TO EITHER A STREET OR PARKING LOT PAVEMENT DESIGN UNLESS WE CAN BE FULLY AND TOTALLY INVOLVED IN THE CONSTRUCTION PROCESS WHICH MAY INCLUDE, BUT MAY NOT NECESSARILY BE LIMITED TO, TESTING SUBGRADE AND BASE DENSITY, ENGAGING THE GEOTECHNICAL ENGINEER FOR THE EVALUATION OF THE SUBGRADE AND FOR THE OBSERVATION OF PROOF ROLLING SUBGRADE AND BASE AT VARIOUS STEPS OF CONSTRUCTION, OPPORTUNITY FOR THE DESIGN ENGINEER TO CALL IN A GEOTECHNICAL ENGINEER FOR CONSULTATION AND ADVICE, ETC. - STEPS WHICH TAKEN ALTOGETHER WITH THE INITIAL DESIGN SHOWN ON THE PLANS. CONSTITUTE THE COMPLETE DESIGN OF THE ROAD. STREET OF PARKING AREA (PRIVATE OR PUBLIC). THE DESIGN ENGINEER MUST BE GIVEN THE FULL LATITUDE AND OPPORTUNITY TO COMPLETE THE DESIGN BY FULLY PARTICIPATING IN THE CONSTRUCTION PROCESS. PLAN DESIGN IS A SMALL PORTION OF THE DESIGN AND CANNOT BE SEPARATED FROM THE CONSTRUCTION PROCESS IF THE OWNER'S/CLIENT'S DESIRE IS TO HAVE THE DESIGN ENGINEER STAND BEHIND THE COMPLETED DESIGNED PROJECT.
- 37. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDING PADS.
- 38. THE SITE PREVIOUSLY CONTAINED RESIDENTIAL / FARM STRUCTURES CONTRACTOR RESPONSIBLE FOR REMOVAL OF ANY FOUNDATIONS AND SEPTIC SYSTEMS PER NCDNR REQUIREMENTS.

GENERAL ARREVIATIONS.

GENER	RAL ABBREVIATIONS:
DENTIFIER	DESCRIPTION
&	AND
<u> </u>	CENTERLINE
Ø	DIAMETER OR ROUND
 ዊ	PROPERTY LINE
ABC	AGGREGATE BASE ASPH ASPHALT
AHJ	AUTHORITY HAVING JURISDICTION
AVE	AVENUE
BLVD	BOULEVARD
BLDG	BUILDING
BOC	BACK OF CURB
BW	BOTTOM OF WALL
СВ	CATCH BASIN
CI	CURB INLET
CIP	CAST IRON PIPE
CLS	CLASS
CLS	CONTROL JOINT
CO	CLEANOUT
CONC	CONCRETE
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DOM	DOMESTIC
DR	DRIVE
(XX)	EXISTING ELEVATION
E	EAST, EASTING
EL	ELEVATION
EJ	EXPANSION JOINT
EOP	EDGE OF PAVEMENT
E.O.R	ENGINEER OF RECORD
EX	EXISTING
EVAP	EVAPORATIVE
FDC	FIRE DEPARTMENT CONNECTION
FES	FLARED END SECTION
FFE	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE
FHA	FIRE HYDRANT ASSEMBLY
FL	FLOW LINE
FT	FOOT OR FEET
	GAS
GALV	GALVANIZED
GB	GRADE BREAK
GE	GENERAL ELECTRIC
GR	GRADE
HDPE	HIGH DENSITY POLYETHYLENE
HON	HORIZONTAL
HOV	HIGH OCCUPANCY VEHICLE
HP	HIGH POINT
IAW	IN ACCORDANCE WITH
I.H.	INTERSTATE HIGHWAY
INV	INVERT

GENERAL ABBREVIATIONS:

<u>IDENTIFIER</u>	DESCRIPTION
LEN	LENGTH
LEV	LOW EMISSION VEHICLE
LF	LINEAR FEET
LP	LOW POINT
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
N	NORTH, NORTHING
NCDENR	NORTH CAROLINA DEPARTMENT OF ENVIRONMENT & NATURAL RESOURCES
NCDOT	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
NTS	NOT TO SCALE
ОН	OVERHEAD
ОСВ	OFF-SET CATCH BASIN
PCC	PORTLAND CEMENT CONCRETE
PE	POLYETHYLENE
PKWY	PARKWAY
POC	POINT OF CONNECTION
PVC	POLYVINYL CHLORIDE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
R.O.W	RIGHT OF WAY
RPDA	REDUCED PRESSURE DETECTOR ASSEMBLY
RPZ	REDUCED PRESSURE ZONE
S	SOUTH
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SDE	SIGHT DISTANCE EASEMENT
SSMH	SANITARY SEWER MANHOLE
SS	SANITARY SEWER
STA	STATION
STD	STANDARD
ST.STL	STAINLESS STEEL
SWPPP	STORMWATER POLLUTION PREVENTION PLAN
ТВ	THRUST BLOCKING
TC/TOC	TOP OF CURB
TD	TEMPORARY DIVERSION
TH	TEST HEADER
TOP	TOP OF PIPE
TP	TOP OF PAD
TYP	TYPICAL
TW	TOP OF WALL
UG	UNDERGROUND
UG VEG	UNDERGROUND VEGETATED
UG VEG VERT	UNDERGROUND VEGETATED VERTICAL
UG VEG VERT W	UNDERGROUND VEGETATED VERTICAL WEST
UG VEG VERT W W/	UNDERGROUND VEGETATED VERTICAL WEST WITH
UG VEG VERT W W/ W/O	UNDERGROUND VEGETATED VERTICAL WEST WITH WITHOUT
UG VEG VERT W W/	UNDERGROUND VEGETATED VERTICAL WEST WITH
UG VEG VERT W W/ W/O YI ** ALL SYN	UNDERGROUND VEGETATED VERTICAL WEST WITH WITHOUT
	LEV LF LP MAX MH MIN N NCDENR NCDOT NTS OH OCB PCC PE PKWY POC PVC R RCP R.O.W RPDA RPZ S SD SDMH SDE SSMH SS STA STD ST.STL SWPPP TB TC/TOC TD TH TOP

DESCRIPTION
LENGTH
LOW EMISSION VEHICLE
LINEAR FEET
LOW POINT
MAXIMUM
MANHOLE
MINIMUM
NORTH, NORTHING
NORTH CAROLINA DEPARTMENT OF ENVIRONMENT & NATURAL RESOURCES
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
NOT TO SCALE
OVERHEAD
OFF-SET CATCH BASIN
PORTLAND CEMENT CONCRETE
POLYETHYLENE
PARKWAY
POINT OF CONNECTION
POLYVINYL CHLORIDE
RADIUS
REINFORCED CONCRETE PIPE
RIGHT OF WAY
REDUCED PRESSURE DETECTOR ASSEMBLY
REDUCED PRESSURE ZONE
SOUTH
STORM DRAIN
STORM DRAIN MANHOLE
SIGHT DISTANCE EASEMENT
SANITARY SEWER MANHOLE
SANITARY SEWER
STATION
STANDARD
STAINLESS STEEL
STORMWATER POLLUTION PREVENTION PLAN
THRUST BLOCKING
TOP OF CURB
TEMPORARY DIVERSION
TEST HEADER
TOP OF PIPE
TOP OF PAD
TYPICAL
TOP OF WALL
UNDERGROUND
VEGETATED
VERTICAL
WEST
WITH

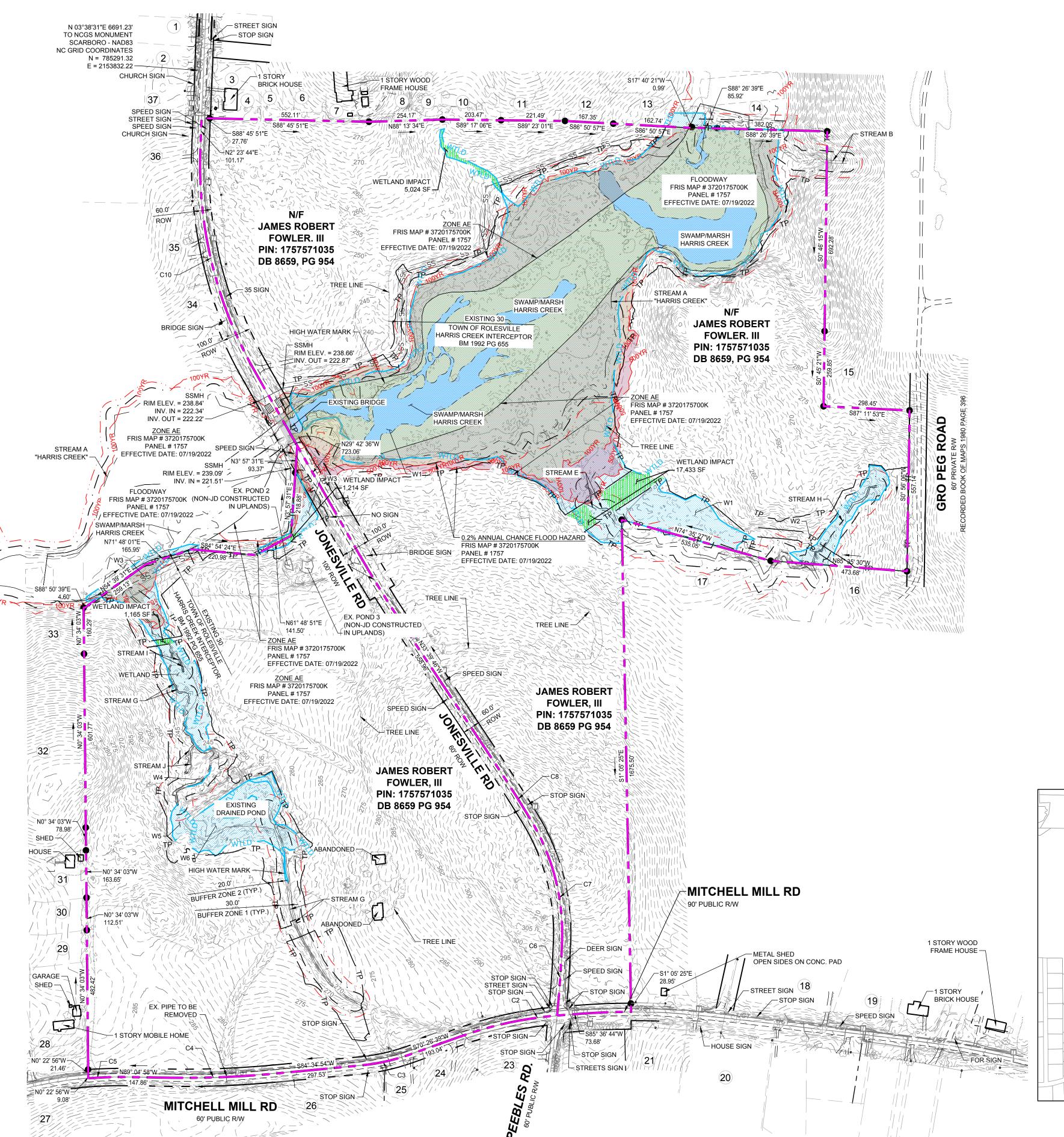
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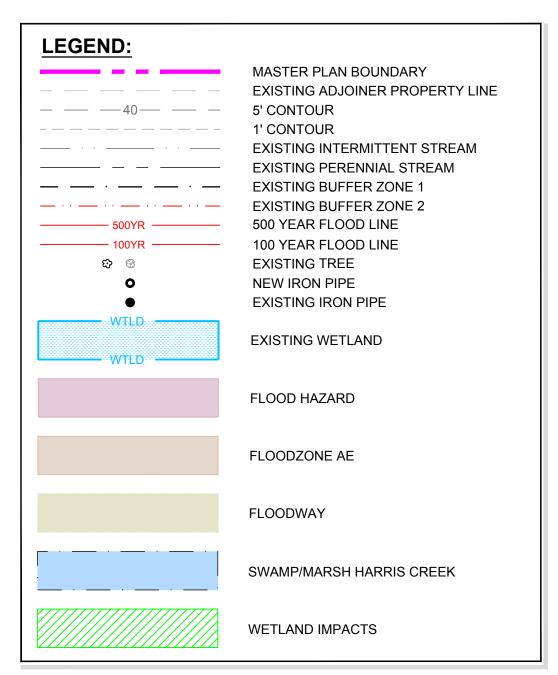
DRAWING SHEET

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THIS PLANSET AND ANY ASSOCIATED DOCUMENTS ARE PRELIMINARY AND NOT AUTHORIZED FOR CONSTRUCTION UNTIL SIGNED, DATED, AND OFFICIALLY RELEASED FOR CONSTRUCTION BY THE ENGINEER OF RECORD.







	Р	ARCEL CURVI	E TABLE	
CURVE	RADIUS	LENGTH	CHORD	BEARING
C1	2310.00'	177.66'	177.62'	S 85°36'44" W
C2	1293.60'	342.46'	341.46'	S 70°26'39" W
C3	713.00'	175.93'	175.49'	S 84°34'54" W
C4	3289.02'	363.69'	363.50'	N 89°04'58" W
C5	1415.00'	134.86'	134.81'	N 85°27'24" W
C6	4219.80'	259.16'	259.12'	N 02°03'26" E
C7	760.57'	443.75'	437.48'	N 31°22'17" W
C8	5980.51'	247.98'	249.97'	N 33°39'46" W
C9	4196.85'	289.52'	289.47'	N 29°42'36" W
C10	1444.00'	809.14'	798.60'	N 02°23'44" E

SITE **VICINITY MAP**

1" = 800'

	C	GRAPHIC	SCALE	
200 	0 100 I I	200 	400 	
		(IN FE 1 inch =	•	
AND ANY ASSOCIATED DO	CUMENTS ARE P	REI IMINARY AN	ID NOT AUTHORIZE	D FOR CONSTRUCTION

UNTIL SIGNED, DATED, AND OFFICIALLY RELEASED FOR CONSTRUCTION BY THE ENGINEER OF RECORD.

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DRAWING SHEET

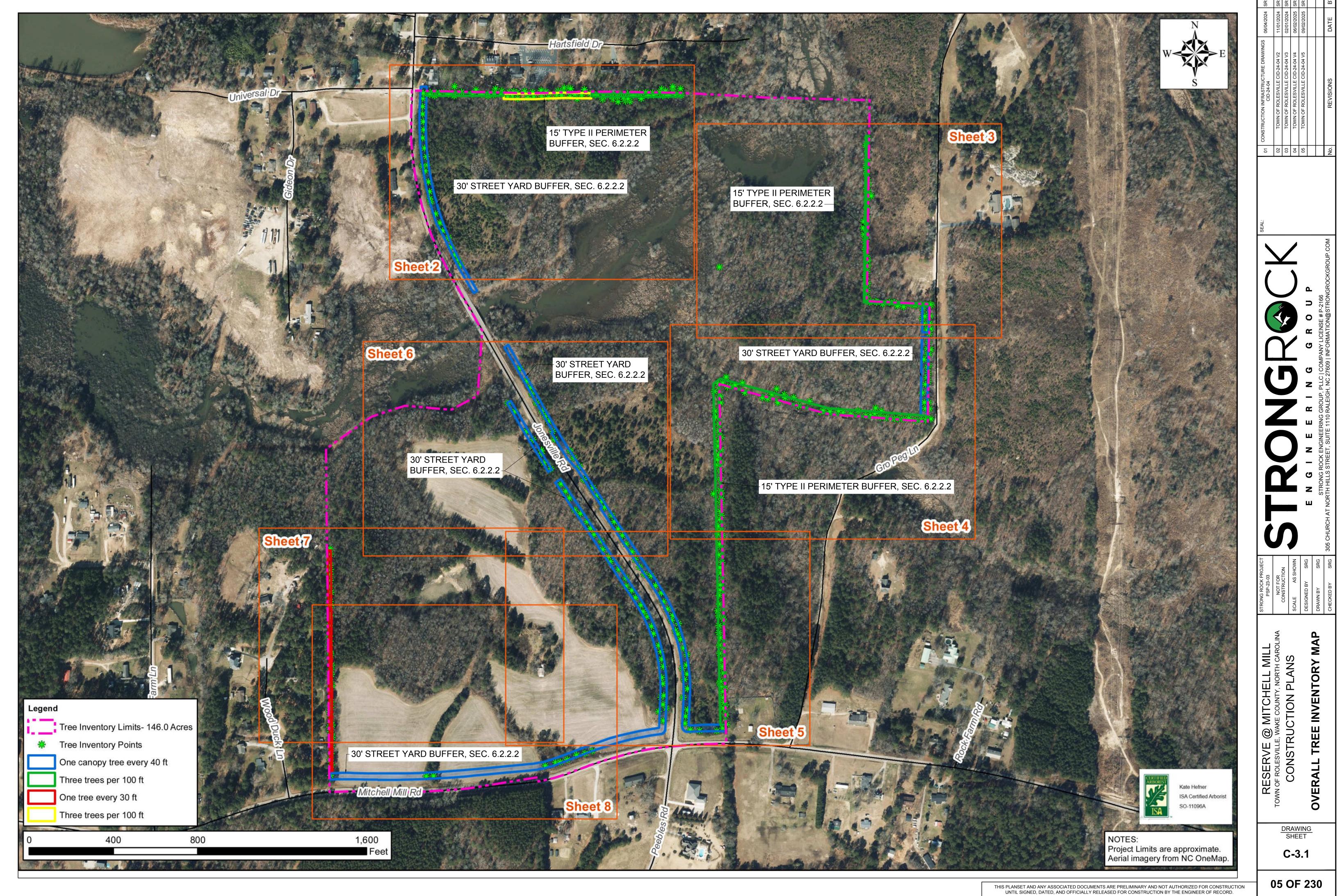
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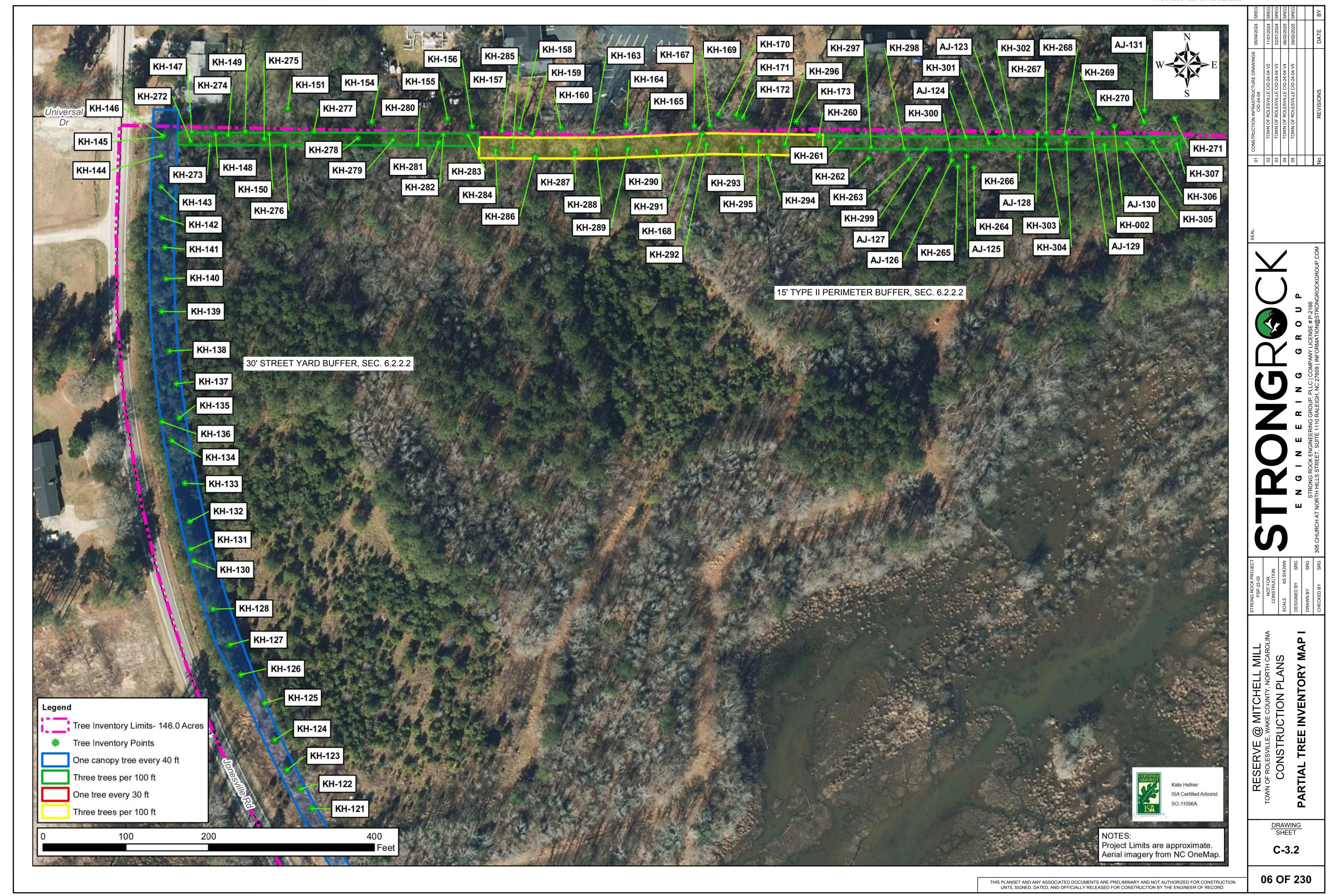
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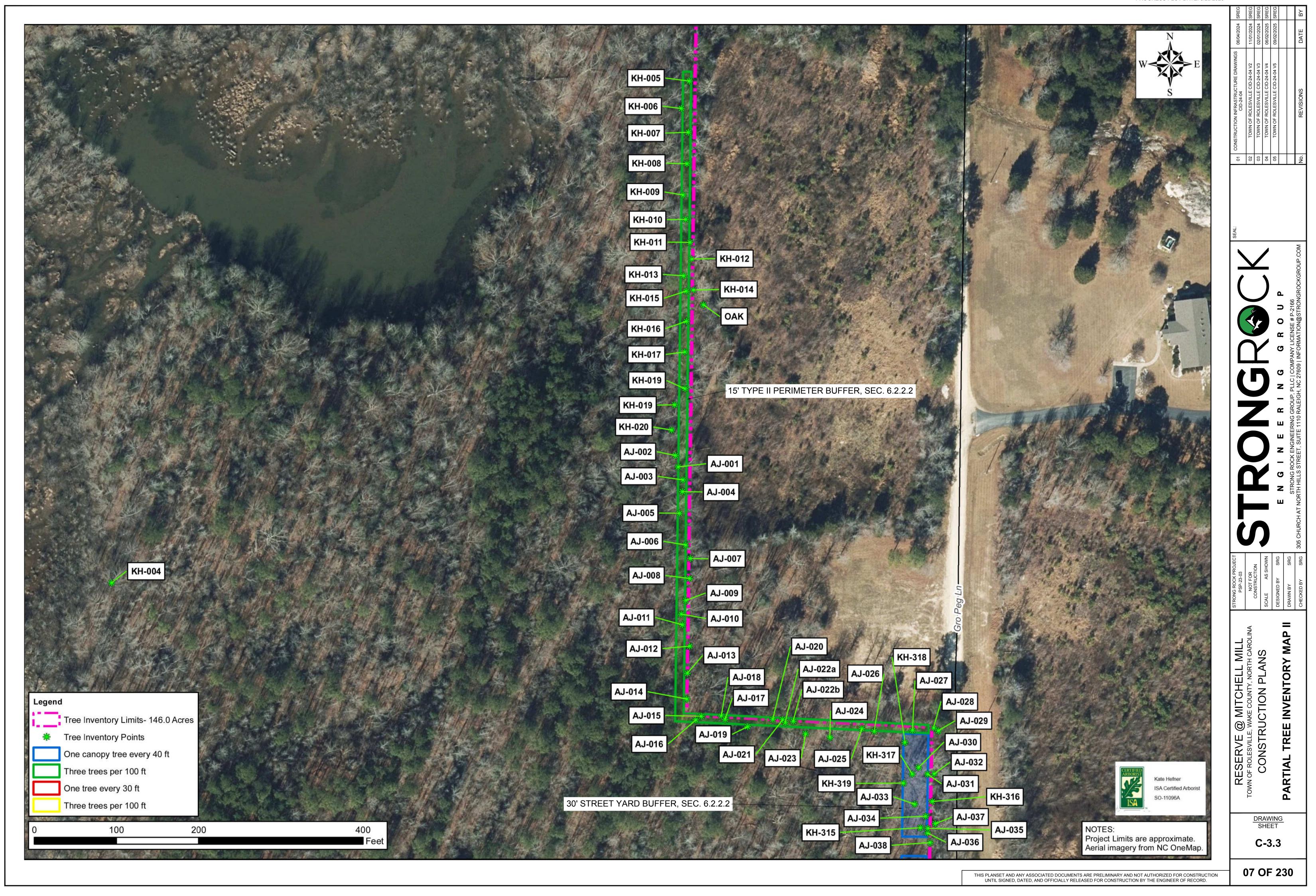
VA: VACANT MO: MOBILE

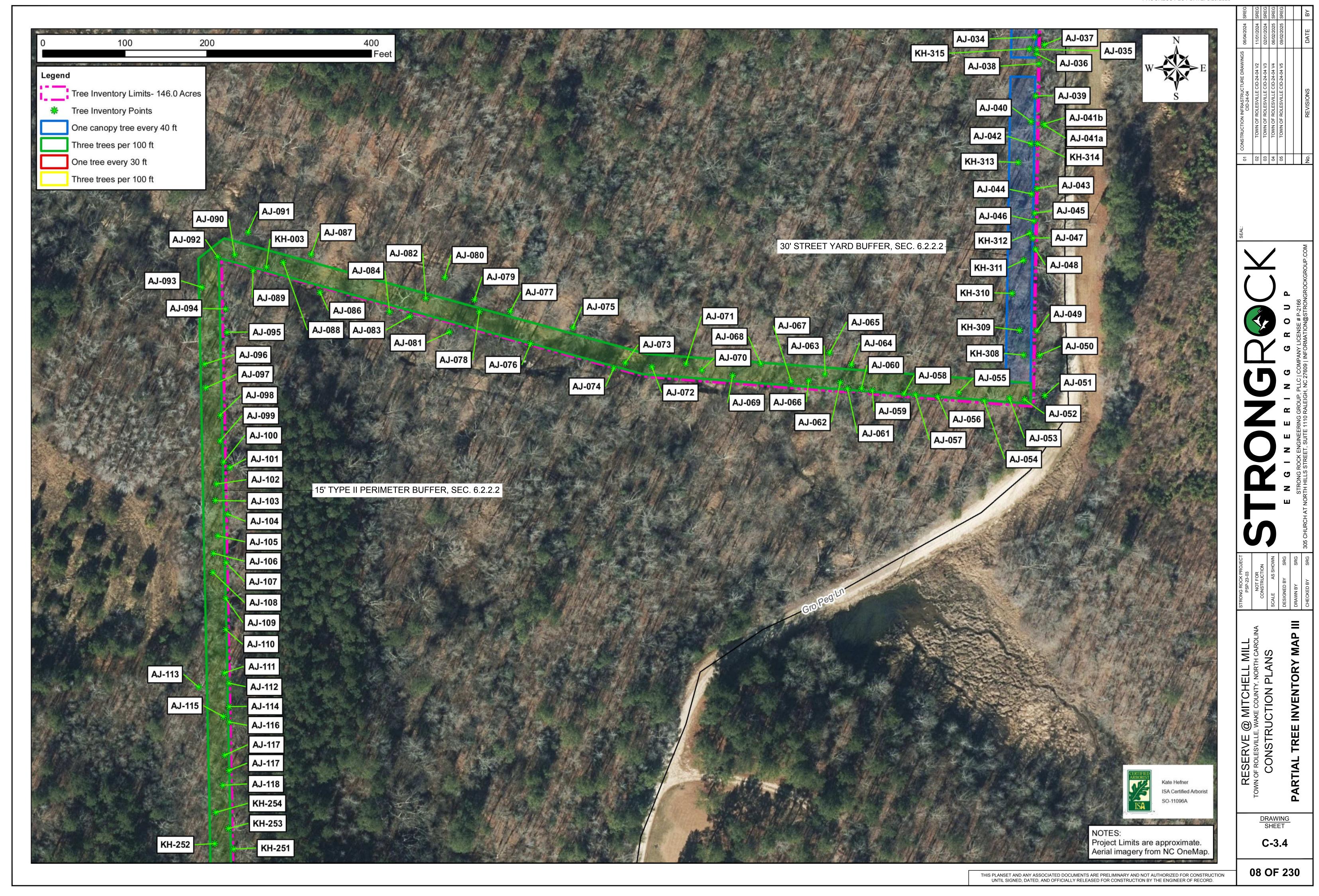
CH: CHURCH

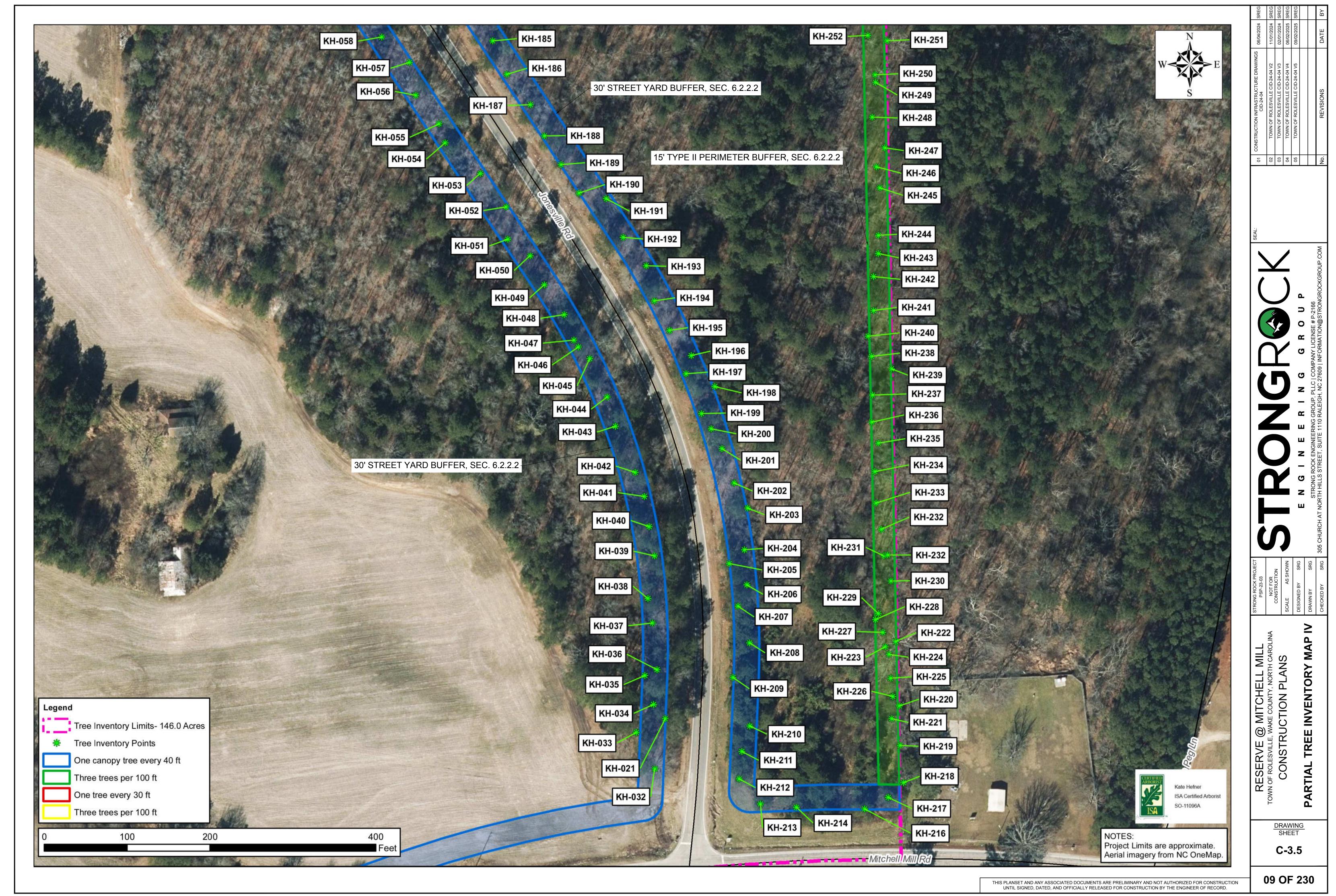
SF: SINGLE FAMILY AG: AGRICULTURE

















Tree Code	Botanical Name	DBH	Condition Overall
AJ-001	LITU	19"	Good
AJ-002	CATO	10"	Good
AJ-003	QUAL	10"	Good
AJ-004	JUVI	6"	Good
AJ-005	CATO	13"	Good
AJ-006	QURU	10"	Good
AJ-007	QURU	8"	Good
	LIST		
AJ-008		18"	Good
AJ-009	QUAL	6"	Good
AJ-010	QURU	14"	Good
AJ-011	QUAL	14"	Good
AJ-012	QUAL	12"	Good
AJ-013	CATO	6"	Good
AJ-014	ACRU	14"	Good
AJ-015	QUNI	5"	Good
AJ-016	LIST	4"	Good
AJ-017	LIST	4"	Good
AJ-018	PITA	16/18"	Good
AJ-019	ACRU	4"	Good
AJ-020	QUNI	10"	Good
AJ-021	LIST	16"	Good
AJ-022a	PITA	20"	Good
AJ-022b	PITA	20"	Good
AJ-0220 AJ-023	ACRU	13"	Good
AJ-023 AJ-024			
	QUST	22"	Fair
AJ-025	LIST	7"	Good
AJ-026	PITA	17"	Good
AJ-027	QUNI	4"	Good
AJ-028	PITA	25"	Good
AJ-029	CATO	9"	Fair
AJ-030	QURU	20"	Good
AJ-031	LIST	19"	Good
AJ-032	CATO	12"	Good
AJ-033	LITU	27"	Good
AJ-034	LIST	18"	Good
AJ-035	LITU	23"	Good
AJ-036	PITA	20"	Good
AJ-037	ULAL	14"	Good
AJ-038	LITU	19"	Good
AJ-039	LIST	36"	Good
AJ-039 AJ-040	ACRU	22"	Good
AJ-041a	ACRU	15"	Good
AJ-041b	ACRU	18"	Good
AJ-042	LITU	22"	Good
AJ-043	LITU	18"	Good
AJ-044	PRSE	19"	Fair
AJ-045	LITU	19"	Good
AJ-046	LITU	17	Good
AJ-047	QUVE	31"	Good
AJ-048	LIST	6"	Fair
AJ-049	QUNI	17"	Good
AJ-050	QUAL	12"	Good
AJ-051	QUAL	12"	Good
AJ-052	QURU	12"	Good
AJ-052	QUAL	4"	Good
AJ-053 AJ-054	QUAL	32"	Good
		6"	
AJ-055	OXAR		Good
AJ-056	QURU	19"	Good
AJ-057	QUAL	13"	Good
AJ-058	LITU	17"	Good
AJ-059	LITU	24"	Good
AJ-060	QURU	32"	Good
A I 004	ILOP	6"	Good
AJ-061	ILOI		

	DBH 5"	Condition Overall
	5" 8"	Good Good
_	14"	Good
	7"	Good
	29"	Good
	11"	Good
	5"	Good
	4"	Fair
	8"	Good
	5"	Good
	14"	Good
	10"	Good
	8"	Good
	24"	Good
	7"	Good
	12"	Good
	14"	Good
_	7"	Good
_	3"	Fair
_	9"	Good
	10"	Fair
	13"	Good
	31"	Good
	9"	Good
	37" 6"	Excellent
	34"	Good
	24"	Good
	23"	Good
_	9"	Good Good
_	21"	Good
	21"	Good
	22"	Good
	23"	Good
	21"	Good
	24"	Good
	9/8"	Fair
	5"	Good
	4"	Good
	6"	Good
	6"	Good
	15"	Good
	7"	Good
_	9"	Good
	6"	Good
	8"	Good
	6"	Good
_	8"	Good
_	8"	Good
_	13"	Good
	10"	Good
	5"	Good
	13"	Good
	10"	Good
	14/13/12"	Good
	6"	Good
	4"	Good
	6/5"	Good
	7"	Good
	7"	Good
_	20"	Good
	14"	Good
	14" 20"	Good
		Good

Tree Code	Botanical Name	DBH	Condition Overall
AJ-063	LITU	12"	Good
\J-064	QURU	19"	Good
\J-065	LITU	16"	Good
\J-066	OXAF	14"	Good
\J-067	ACRU	4"	Good
\J-068	ACRU	5"	Good
\J-069	ACRU	10"	Good
AJ-070	ACRU	6"	Good
AJ-071	ACRU	6"	Good
\J-072	PRSE	9"	Good
AJ-073	DIVI	3"	Good
\J-074	LITU	8"	Fair
\J-075	ACRU	21"	Good
\J-076	LITU	13" 13"	Good
\J-077	LIST	4"	Good
\J-078	LIST		Good
\J-079	LITU	18" 25"	Poor
\J-080 \ L081	LITU	9"	Good
\J-081 \J-082	PRSE LITU	22"	Good
NJ-082 NJ-083	LITU	21"	Good
NJ-083 NJ-084	PLOC	41"	Good
\J-084 \J-086	ACRU	9"	Good
J-086 J-087	LITU	30"	Good Good
\J-088		4"	
\J-089	LIST ACRU	18"	Good Good
\J-089 \J-090	ACRU	30"	Good
\J-090 \J-091	ACRU	30"	Good
J-091 J-092	LIST	4"	Good
NJ-092 NJ-093	LIST	9"	Good
J-093	FRPE	22"	Good
\J-09 4 \J-095	LIST	21"	Good
J-096	LIST	18"	Good
J-090 J-097	LITU	19"	Good
J-098	PRSE	8"	Good
J-099	QUNI	4"	Good
J-100	ILOP	4"	Good
J-101	QUST	29"	Poor
J-102	QURU	18"	Good
J-103	LIST	6"	Good
J-104	QURU	19"	Good
J-105	QUNI	17"	Good
\J-106	LIST	7"	Good
J-107	QURU	28"	Good
J-108	LIST	5"	Good
J-109	QUST	18"	Good
J-110	PRSE	6"	Good
J-111	LIST	14"	Good
J-112	PITA	21"	Good
J-113	QUPH	18"	Good
J-114	PITA	28"	Good
J-115	CACA	5"	Good
J-116	QUST	20"	Good
J-117	CACA	6"	Good
J-117	CACA	7"	Good
J-118	QUNI	16"	Good
J-123	PITA	23"	Good
J-124	PITA	25"	Good
J-125	PRSE	6"	Good
J-126	QUNI	7"	Good
J-127	QUNI	7"	Good
J-128	PITA	20"	Good
\J-129	PITA	20"	Good
\J-130	LITU	21"	Good
J-131	ULRU	8"	Good
Tree Code	Botanical Name	DBH	Condition Overall
(H-201	QUNI	4/4"	Fair
(H-202	QUNI	7"	Good
(LL 202	OLIM	O!!	Cood

Tree Code	Botanical Name	DBH	Condition Overall
KH-201	QUNI	4/4"	Fair
KH-202	QUNI	7"	Good
KH-203	QUAL	9"	Good
KH-204	QUNI	8"	Good
KH-205	PITA	20"	Poor
KH-206	PRSE	11"	Fair
KH-207	PITA	20"	Good
KH-208	PITA	12"	Good
KH-209	PITA	15"	Good
KH-210	PITA	13"	Good
KH-211	PITA	12"	Good
KH-212	PITA	12"	Good
KH-213	PITA	16"	Good
KH-214	PITA	10"	Good
KH-216	PITA	14"	Good
KH-217	PITA	14"	Good
KH-218	ULRU	11"	Good
KH-219	QUNI	4"	Good
KH-220	ULRU	15"	Good
KH-221 KH-222	JUVI	5"	Good
KH-222 KH-223	QURU QURU	56" 22"	Good Good
KH-224	QURU	25"	Good
KH-225	ULRU	10"	Good
KH-226	CATO	6"	Good
KH-227	QURU	11"	Good
KH-228	PITA	22"	Good
KH-229	QURU	13"	Good
KH-230	QUAL	16"	Good
KH-231	QURU	17"	Fair
KH-232	QURU	18"	Good
KH-232	QURU	20/11"	Good
KH-233	QURU	10"	Good
KH-234	QURU	10/7/7/7/7"	Fair
KH-235	QURU	8"	Good
KH-236	QUAL	9/7/7"	Good
KH-237	QURU	15"	Good
KH-238	QUAL	14/11"	Good
KH-239	PITA	26"	Good
KH-240	QUAL	11/11"	Good
KH-241	QURU	13/10/9"	Good
KH-242	QURU	6/4"	Good
KH-243	QUAL	3"	Good
KH-244	QUAL	12/10/9/7"	Good
KH-245	QUAL	18/10"	Good
KH-246	QUAL	7"	Good
KH-247	PITA	25"	Good
KH-248	QUAL	8"	Good
KH-249	QUAL	10"	Good
KH-250	QURU	24"	Good
KH-251	LITU	31/12"	Good
KH-252	QURU	7"	Good
KH-253	QURU	23"	Good
KH-254	QUNI	11"	Poor
KH-260	LIST	16"	Good
KH-261	LITU	22"	Good
KH-262	LIST	9"	Good
KH-263	QURU	17"	Good
KH-264	QUAL	8"	Good
KH-265	PITA	16"	Good
KH-266	QURU	14" 11"	Good
KH-267	QUAL		Good
KH-268	QUAL	12"	Good

Tree Code	Botanical Name	DBH	Condition Overall
KH-002	PITA	30"	Good
KH-003	ACRU	31"	Good
KH-004	LITU	45"	Fair
KH-005	QUAL	7"	Good
KH-006	LIST	10"	Good
KH-007	LIST	6"	Good
KH-008	CATO	5"	Good
KH-009	JUVI	5	Good
KH-010	QURU	4"	Good
KH-011	CATO	6"	Good
KH-012	QUAL	21"	Good
KH-013	CATO	9"	Good
KH-014	QUAL	20"	Good
KH-015	QUPA	15"	Good
KH-016	CATO	10"	Good
KH-017	QUPA		Good
KH-019	QUAL	20"	Good
KH-019	LIST	11"	Good
KH-020	CATO	12"	Good
KH-020	QUNI	12"	Good
KH-021	PITA	40"	Excellent
KH-023	LIST	5"	Good
KH-024	LIST	8"	Good
KH-025	JUVI	8"	Good
KH-026	PRSE	6"	Good
KH-027	PITA	13"	Good
KH-028	PITA	13"	Good
KH-029	JUVI	8"	Good
KH-030	PRSE	5"	Good
KH-031	PLOR	3"	Fair
KH-032	DIVI	18"	Good
KH-033	PITA	25"	Excellent
KH-034	PITA	18"	Excellent
KH-035	PITA	29"	Good
KH-036	LIST	8"	Good
KH-037	ULRU	14"	Good
KH-038	PITA	17"	Good
KH-039	PITA	13"	Good
KH-040	PITA	16"	Good
KH-041	QUAL	6"	Good
KH-042	PITA	18"	Good
KH-043	ULRU	6"	Good
KH-044	QUNI	5"	Fair
KH-045	QUNI	8"	Good
KH-046	QUNI	6"	Good
KH-047	PITA	21"	Good
KH-048	PITA	21"	Good
KH-049	QUNI	5"	Good
KH-050	QUNI	5"	Good
KH-051	QURU	6"	Good
KH-052	LIST	8"	Good
KH-053	QUAL	8"	Good
KH-054	PITA	20"	Good
KH-055	JUVI	5"	Good
KH-056	KOFL	3"	Good
KH-057	QUNI	5"	Good
KH-058	QUAL	10"	Good
KH-059	QUAL	5"	Good
KH-060	LIST	5"	Good
KH-061	QUNI	5"	Good
KH-062	QUAL	8"	Good
KH-063	QUNI	8"	Good
KH-064	QUAL	6"	Good
KH-065	PITA	10"	Good
	PITA	16"	Good
KH-066			

Tree Code	Botanical Name	DBH	Condition Overall
KH-270	PITA	15"	Good
KH-271	QURU	8"	Good
KH-272	PRSE	6"	Poor
KH-273	PRSE	7"	Fair
KH-274	ULRU	20"	Fair
KH-275	LISI	6"	Fair
KH-276	LISI	3"	Fair
KH-277	PITA	28"	Good
KH-278	ILOP	11"	Good
KH-279	PRSE	8"	Good
KH-280	QURU	13"	Good
KH-281	QUNI	12"	Poor
KH-282	PITA	25"	Good
KH-283	QUAL	16"	Good
KH-284	QUNI	20"	Good
KH-285	QUNI	8"	Poor
KH-286	LIST	8"	Good
KH-287	PRSE	5"	Good
KH-288	ILOP	5"	Good
KH-289	QUNI	6"	Good
KH-290	PRSE	4"	Good
KH-291	QUST	11"	Fair
KH-292	QUNI	4"	Good
KH-293	PITA	7"	
КН-294	QUNI	4"	Good Good
КН-295	QUNI	7"	
КП-295 КН-296	ILOP	6"	Good
КП-290 КН-297	QUNI	5"	Good
			Good
KH-298	QUNI	3"	Good
KH-299	QUNI	5"	Fair
KH-300	NYSY	5"	Good
KH-301	ILOP	5"	Good
KH-302	PITA	14"	Good
KH-303	NYSY	4"	Good
KH-304	ILOP	6"	Good
KH-305	QUNI	19"	Good
KH-306	QUFA	19"	Good
KH-307	QURU	19"	Good
KH-308	QUPH	10"	Good
KH-309	LIST	5"	Good
KH-310	QUNI	17"	Fair
KH-311	QURU	6"	Good
KH-312	LITU	15"	Good
KH-313	LITU	18"	Good
KH-314	ACRU	14"	Good
KH-315	LITU	14"	Good
KH-316	LIST	8"	Good
KH-317	QUAL	20"	Good
KH-318	QUNI	14"	Good
KH-319	QUAL	29"	Good
N/A	OAK	4"	Good

Tree Code	Botanical Name	DBH	Condition Overall
KH-067	PITA	13"	Good
KH-068	JUVI	9"	Good
KH-069	PITA	27"	Excellent
KH-070	ULRU	9"	Good
KH-071	ULRU	12"	Good
KH-072	LIST	14"	Good
KH-073	PITA	12"	Good
KH-075	QUNI	12"	Good
KH-076	QUAL	9"	Good
KH-077	QUAL	4"	Good
KH-078	QUAL	7"	Good
KH-079	PITA	14"	Good
KH-080	QUAL	7"	Good
KH-081	PITA	10"	Good
KH-082	PLOR	4"	Good
KH-083	PLOR	4"	Good
KH-084	PITA	15"	Good
KH-085	PITA	18"	Good
KH-086	QUNI	8"	Good
KH-087	MORU	4"	Good
KH-088	MORU	5"	Good
KH-089	MORU	5"	Good
KH-090	OXAR	7"	Good
KH-091	PRSE	22/14"	Poor
KH-092	QUNI	19"	Good
KH-093	MORU	6"	Good
KH-094	JUVI	7"	Good
KH-095	PRSE	14/16"	Good
KH-096	PRSE	25"	Good
KH-097	PRSE	4"	Fair
KH-098	PITA	11"	Good
KH-099	ULAL	3"	Good
KH-100	PITA	19"	Good
KH-101	QUNI	3"	Good
KH-102	ULRU	15"	Good
KH-102 KH-103	ULRU	6"	Good
KH-103 KH-104	PITA	11"	Good
KH-105		23"	
	PITA	22"	Good
KH-106	PITA		Good
KH-107	PITA	29"	Good
KH-108	PITA	26"	Good
KH-109	PITA	28"	Good
KH-110	QUNI	11"	Good
KH-111	QUNI	10"	Good
KH-112	QUNI	7"	Good
KH-113	QUNI	11"	Good
KH-114	QURU	11"	Good
KH-115	PRSE	4"	Poor
KH-116	PITA	12"	Good
KH-117	PITA	12"	Good
KH-118	PITA	13/10"	Good
KH-119	PITA	8"	Fair
KH-120	QUAL	11"	Good
KH-121	QURU	27"	Good
KH-121	LIST	7"	Good
KH-122	PRSE	5"	Good
KH-123	PITA	10/5"	Good
KH-124	JUVI	6"	Good
KH-125	LIST	7"	Good
KH-126	LIST	3"	Good
	PLOC	11"	Good
KH-127			
KH-127 KH-128		110"	IGood
KH-127 KH-128 KH-130	PITA PITA	10" 21"	Good Good

5109 Mitchell Mill Road – Tree Inventory Species List

ACRU - Acer rubrum CACA - Carpinus caroliniana CATO - Carya tomentosa COFL - Cornus florida DIVI - Diospyros virginiana FRPE - Fraxinus pennsylvanica ILOP - Ilex opaca JUVI - Juniperus virginiana LISI - Ligustrum sinense LIST - Liquidambar styraciflua LITU - Liriodendron tulipifera MORU - Morus rubra NYSY – Nyssa sylvatica OXAR - Oxydendrum arboreum PITA - Pinus taeda PLOC - Platanus occidentalis PLOR - Platycladus orientalis PRSE - Prunus serotina QUAL - Quercus alba QUFA - Quercus falcata QUNI - Quercus nigra QUPA - Quercus pagoda QUPH - Quercus phellos QURU - Quercus rubra QUST - Quercus stellata QUVE - Quercus velutina

ULAL - Ulmus alata ULRU - Ulmus rubra CONSTH CAROLINA CONSTRUCTION
PLANS
SCALE AS SHOWN
DESIGNED BY SRG

TABLE

PSP-23-03

NOT FOR
CONSTRUCTION
BP-23-03

F N

E N

STR

02 03 03 05 05 05

RESERVE @ MITCHELL MILL
WN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

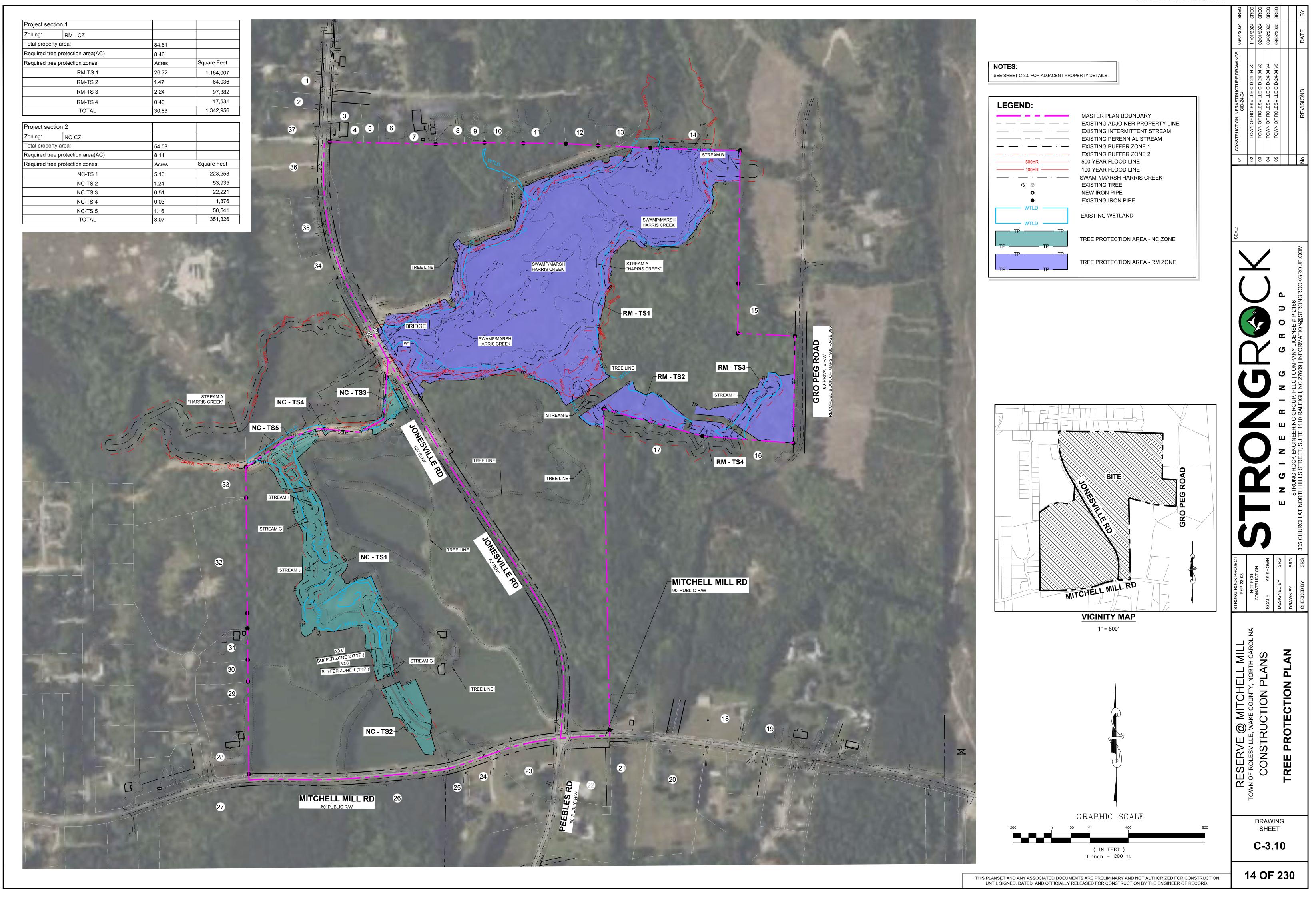
INVENTORY

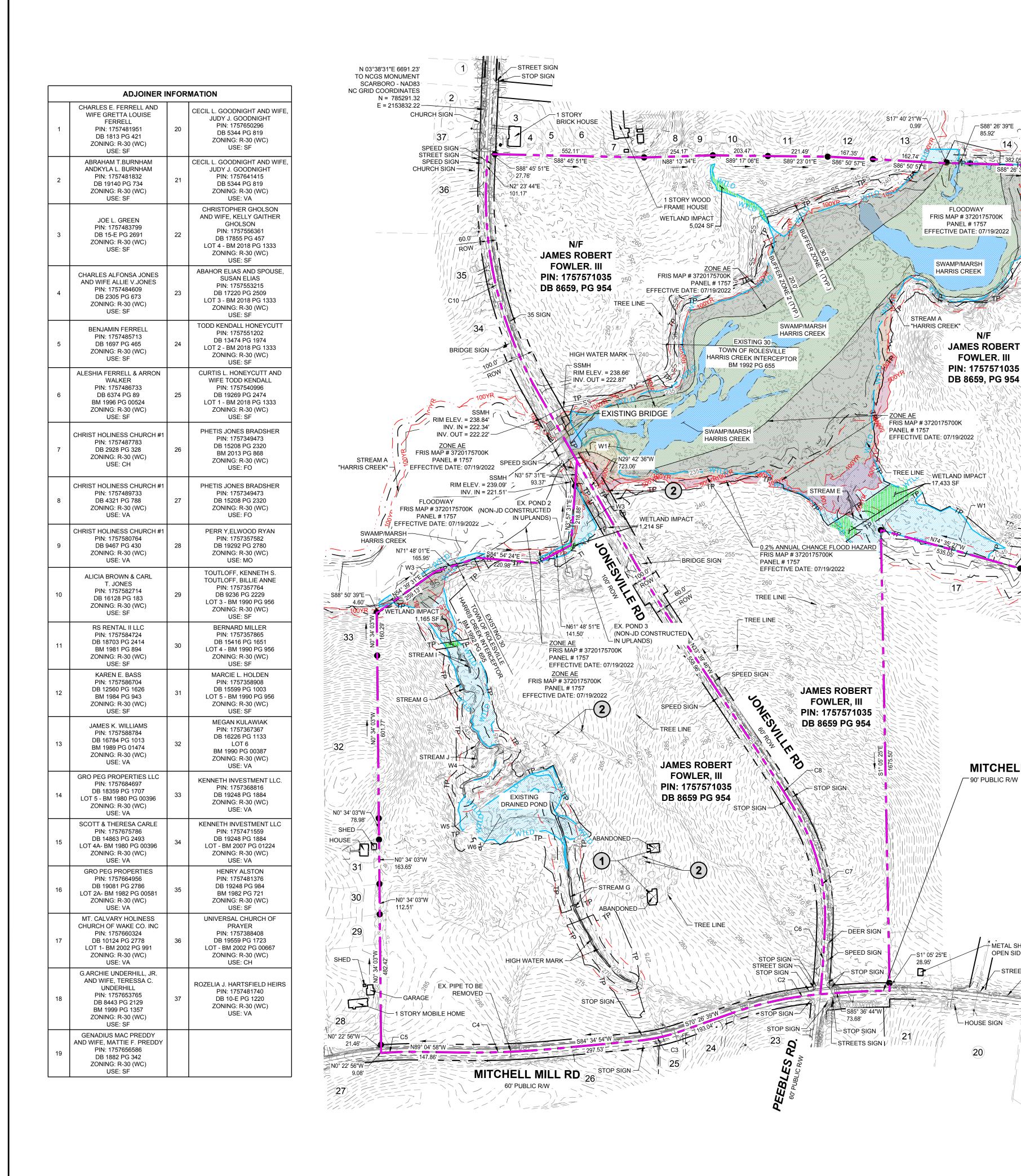
TREE

DRAWING SHEET

13 OF 230

C-3.9





|--|

1 EXISTING BUILDING TO BE REMOVED.

(2) EXISTING TREES TO BE REMOVED.

FOWLER. III

MITCHELL MILL RD

METAL SHED

-HOUSE SIGN

20

OPEN SIDES ON CONC. PAD

-STREET SIGN (18)

1 STORY WOOD

1 STORY

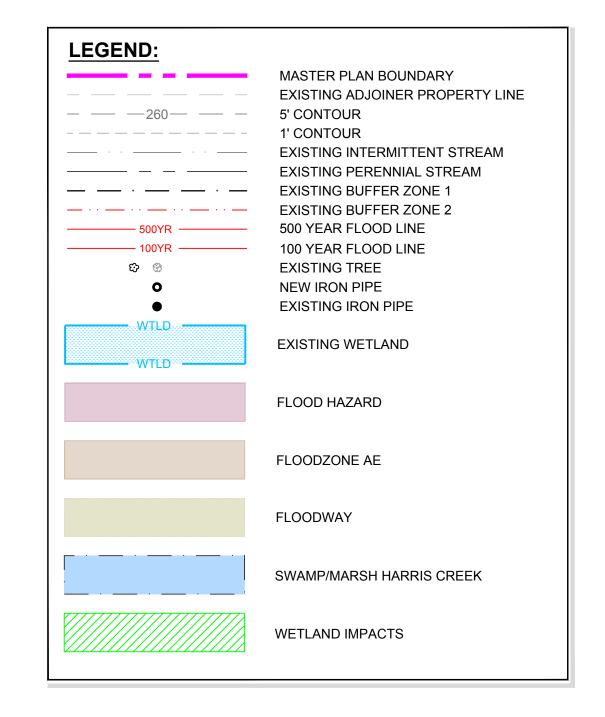
BRICK HOUSE -

FRAME HOUSE -

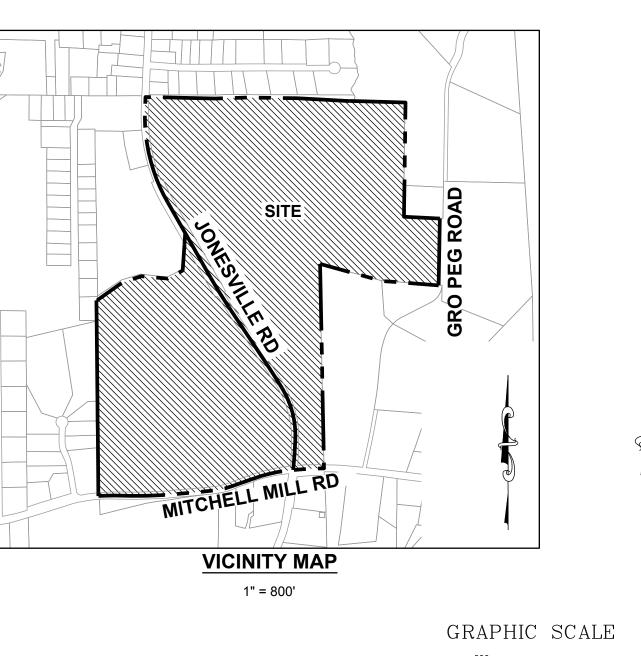
90' PUBLIC R/W

1. ALL SOIL & EROSION CONTROL PERIMITER CONTROLS SHALL BE IN PLACE PRIOR TO DEMOLITION OF ANY EXISTING TREES OR STRUCTURES. SEE SHEET C10 FOR CORRESPONDING EROSION CONTROL PLANS.

2. CONTRACTOR SHALL VERIFY OWNERSHIP OF ALL DEMOLITIONS AND ANY PERMITS THAT MAY BE REQUIRED.



PARCEL CURVE TABLE						
CURVE	RADIUS	LENGTH	CHORD	BEARING		
C1	2310.00'	177.66'	177.62'	S 85°36'44" W		
C2	1293.60'	342.46'	341.46'	S 70°26'39" W		
C3	713.00'	175.93'	175.49'	S 84°34'54" W		
C4	3289.02'	363.69'	363.50'	N 89°04'58" W		
C5	1415.00'	134.86'	134.81'	N 85°27'24" W		
C6	4219.80'	259.16'	259.12'	N 02°03'26" E		
C7	760.57'	443.75'	437.48'	N 31°22'17" W		
C8	5980.51'	247.98'	249.97'	N 33°39'46" W		
C9	4196.85'	289.52'	289.47'	N 29°42'36" W		
C10	1444.00'	809.14'	798.60'	N 02°23'44" E		

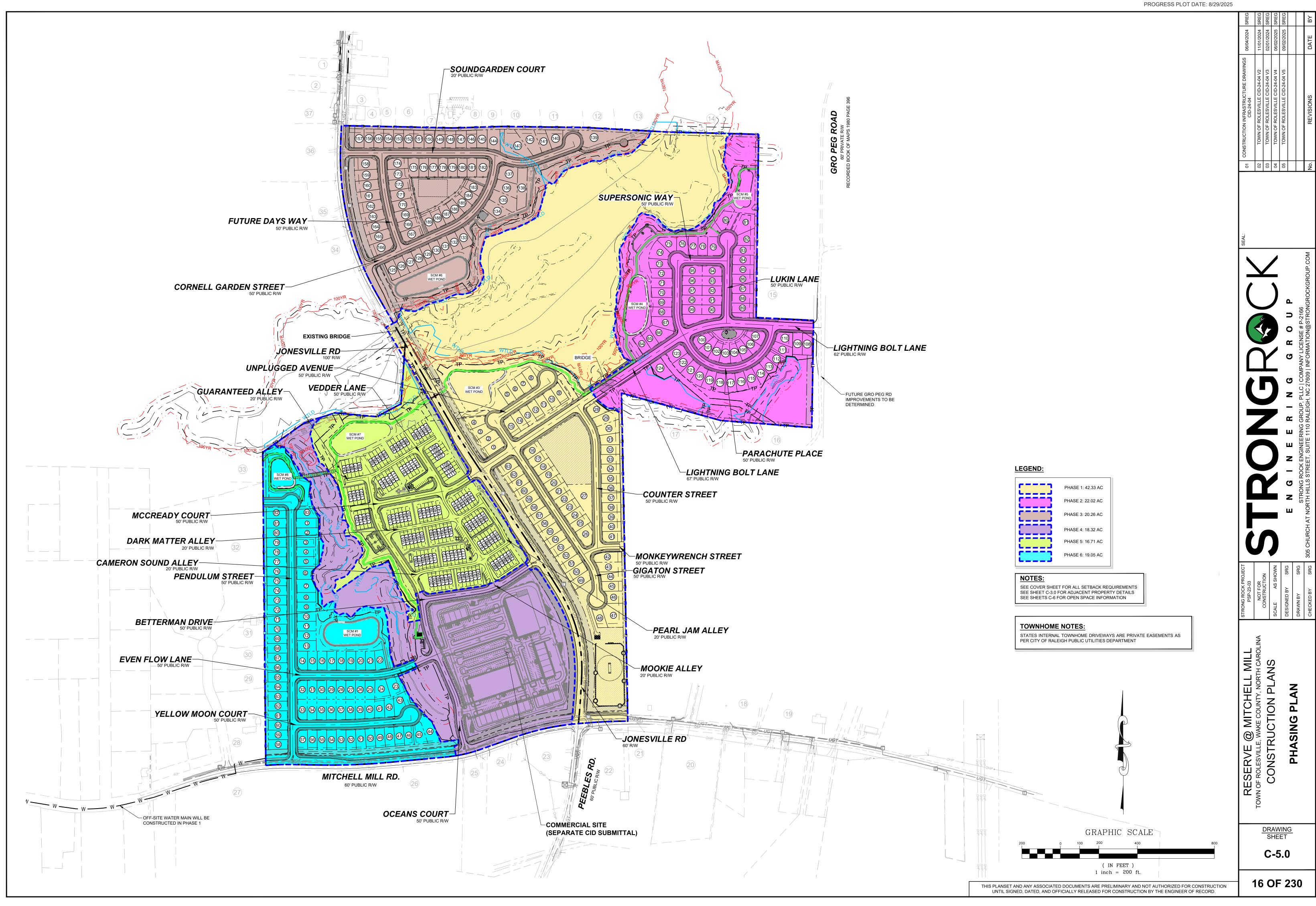


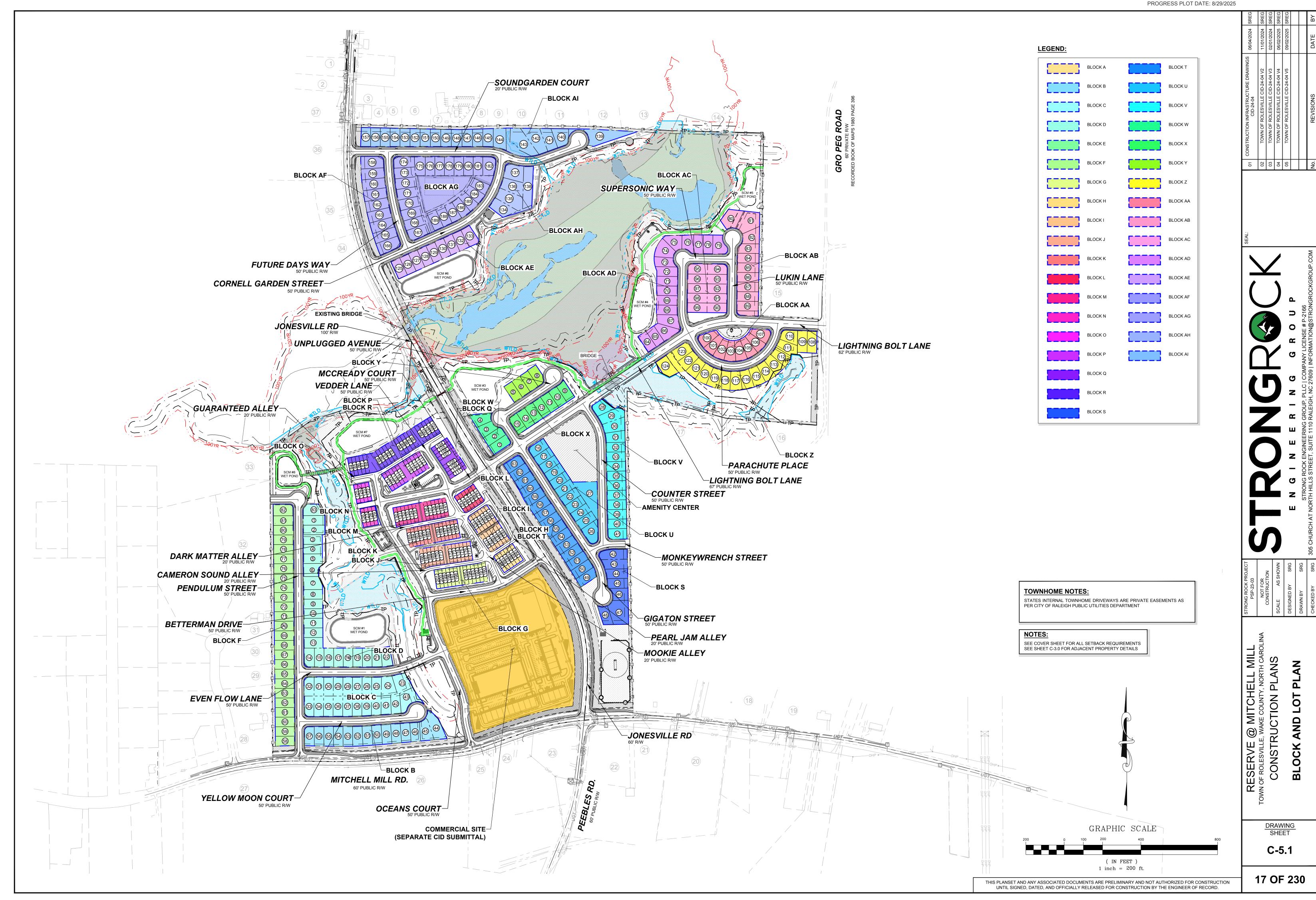
(IN FEET) 1 inch = 200 ft.

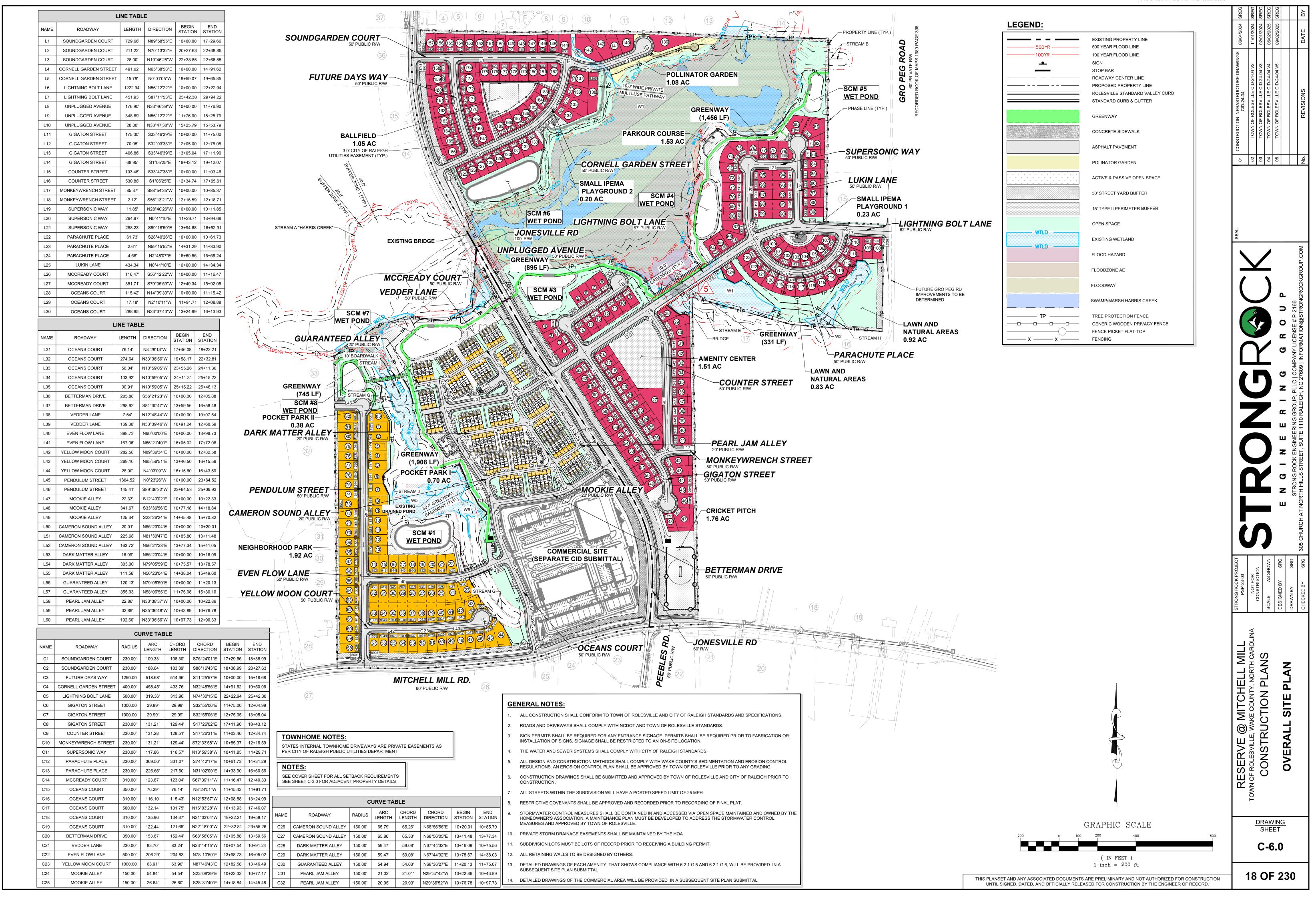
THIS PLANSET AND ANY ASSOCIATED DOCUMENTS ARE PRELIMINARY AND NOT AUTHORIZED FOR CONSTRUCTION UNTIL SIGNED, DATED, AND OFFICIALLY RELEASED FOR CONSTRUCTION BY THE ENGINEER OF RECORD.

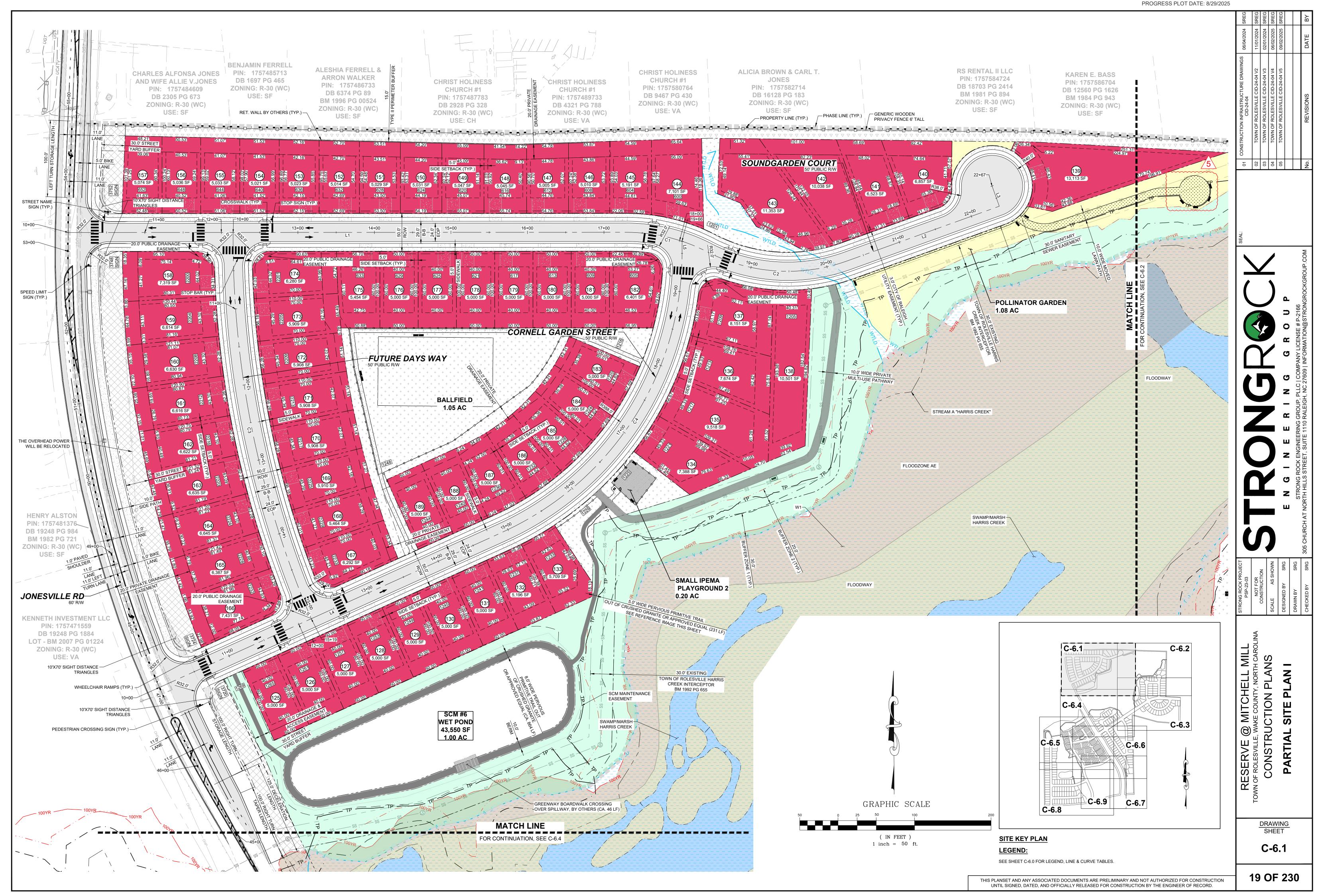
DEMOLITION

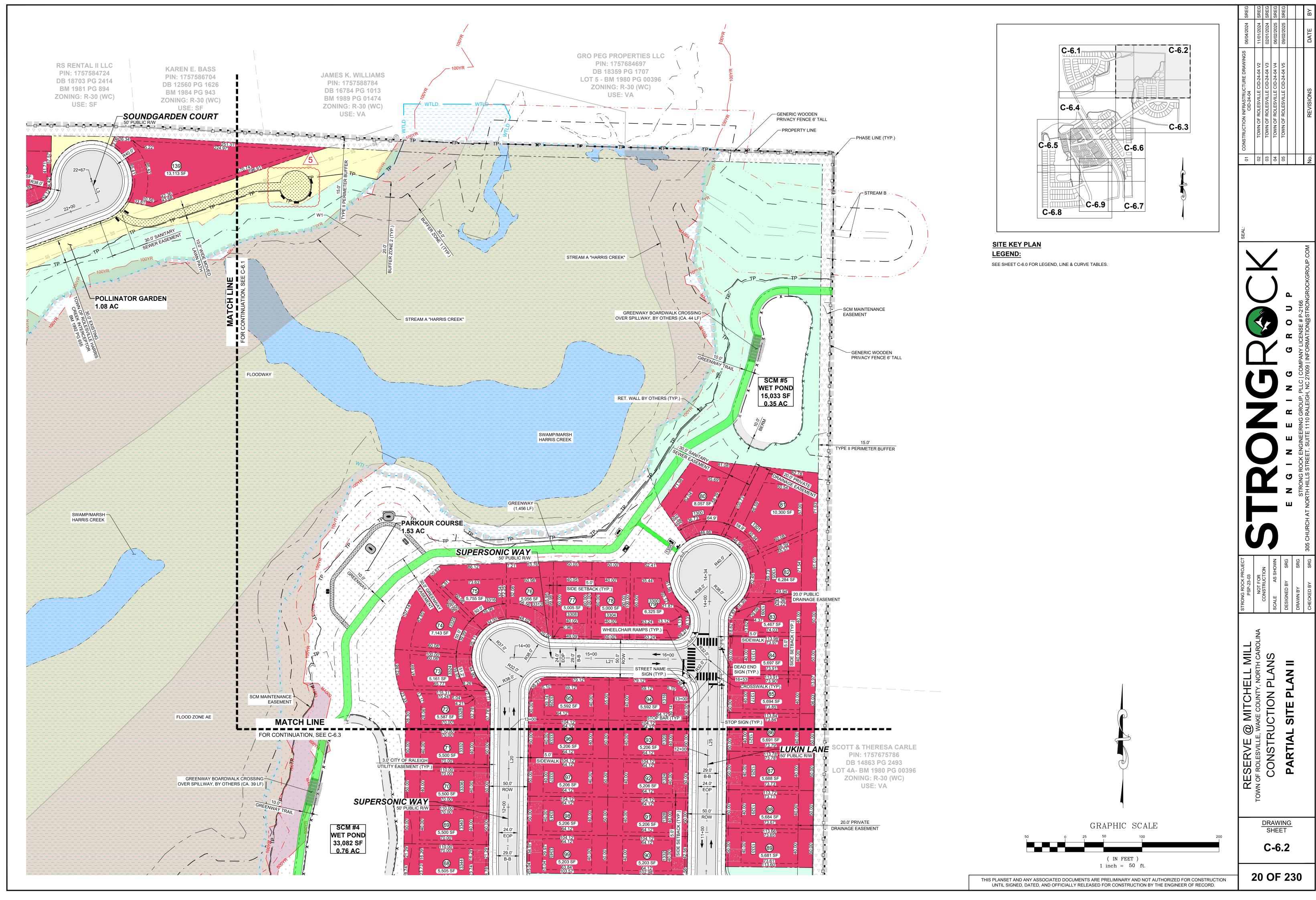
DRAWING SHEET C-4.0

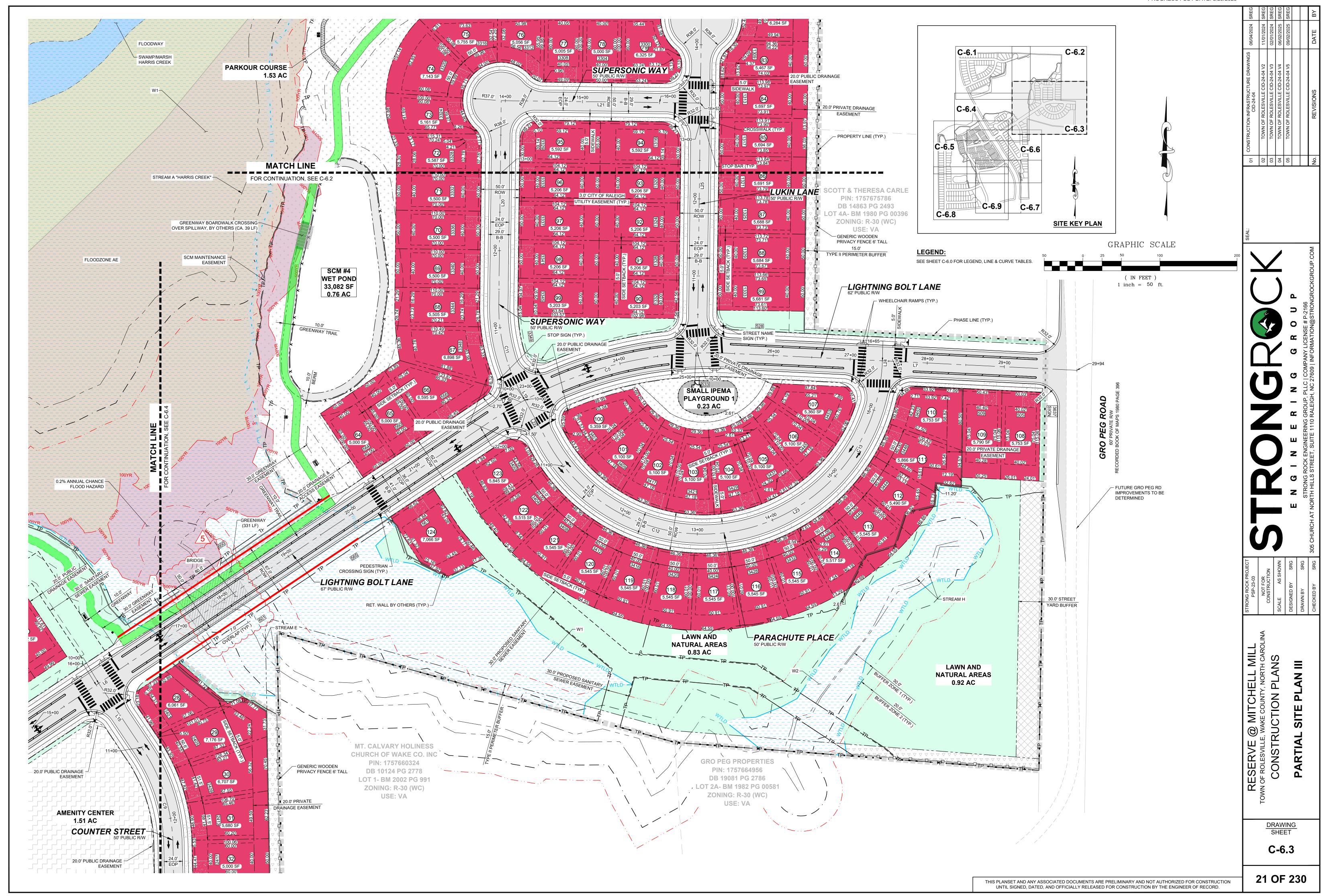


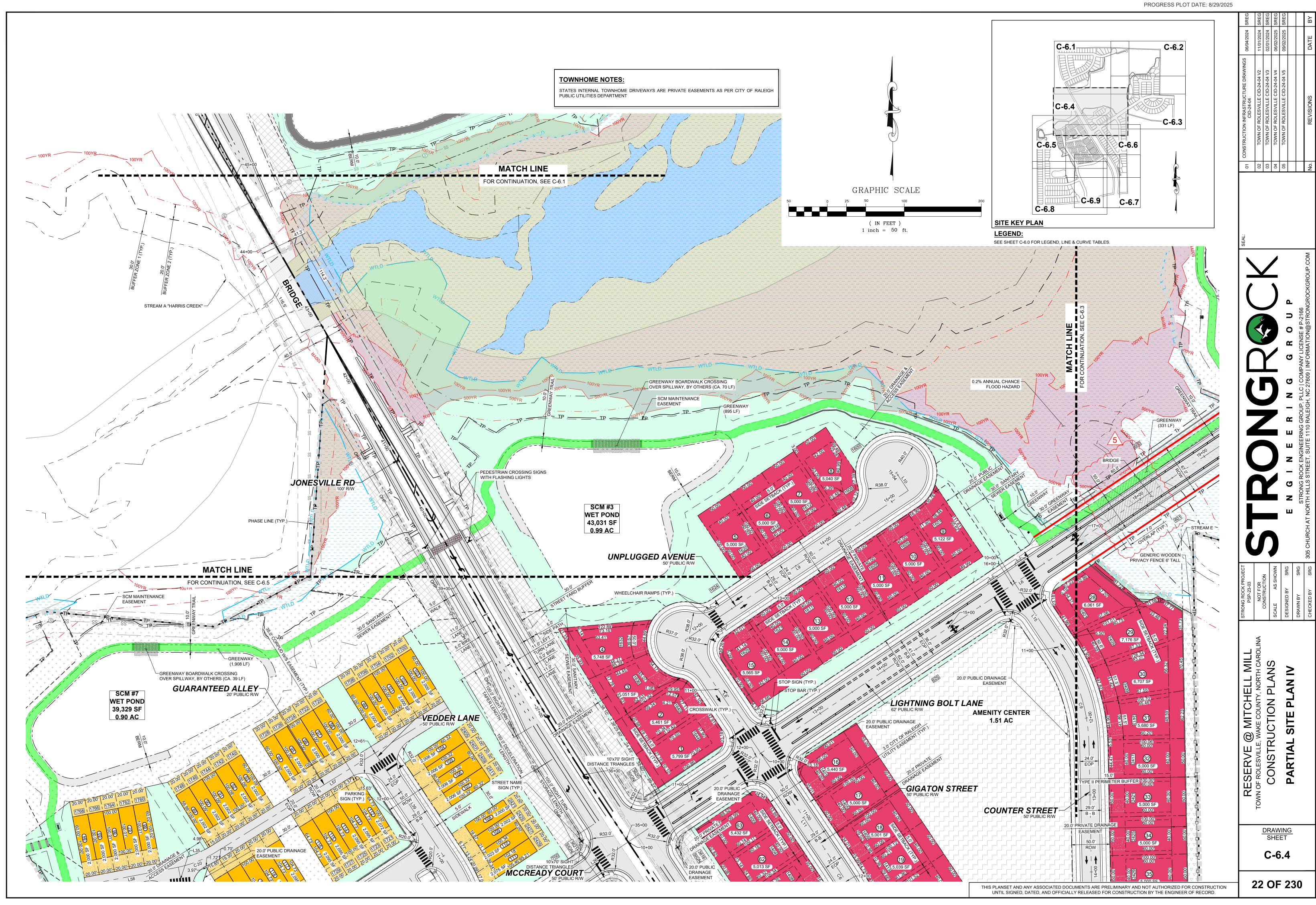


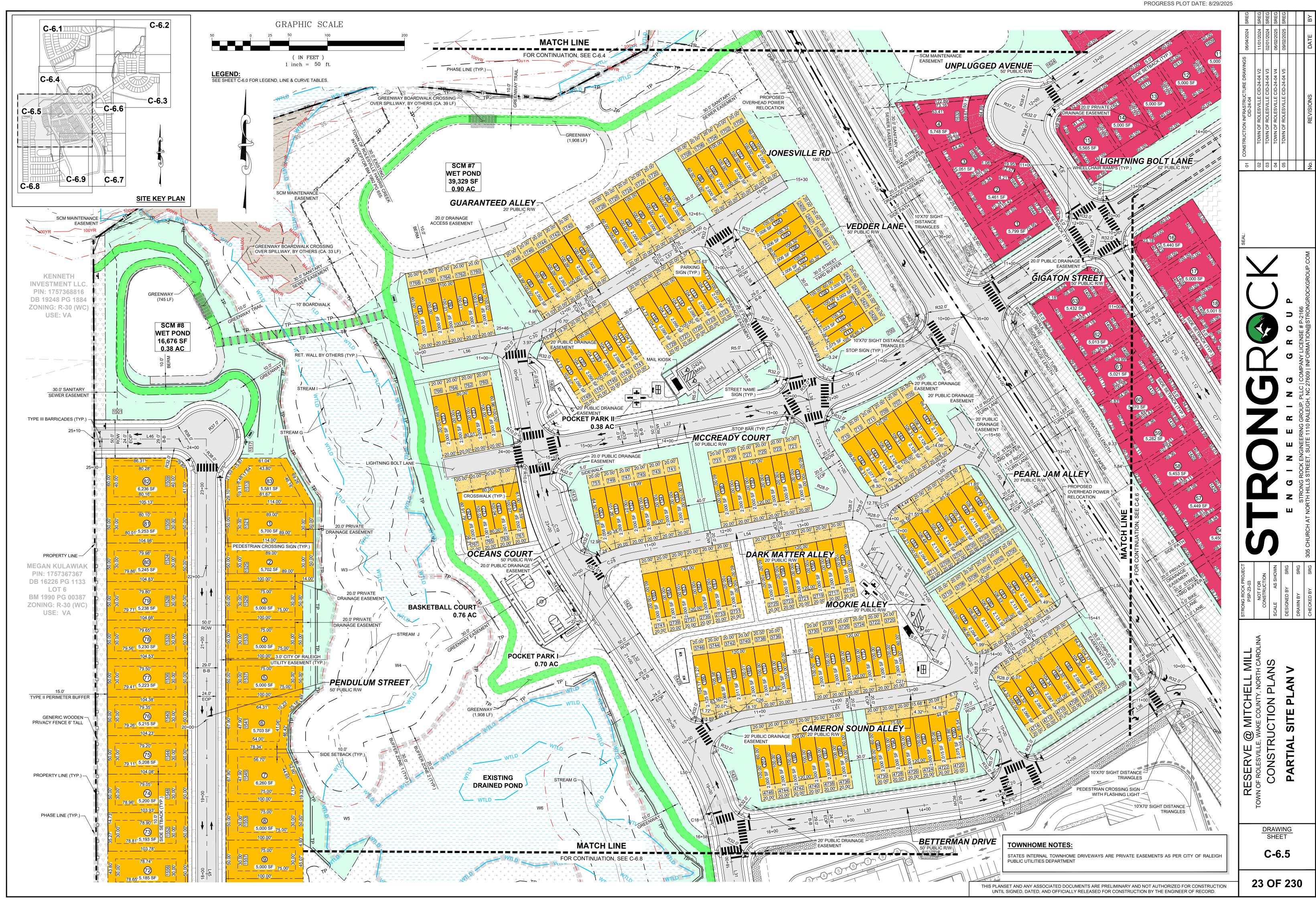


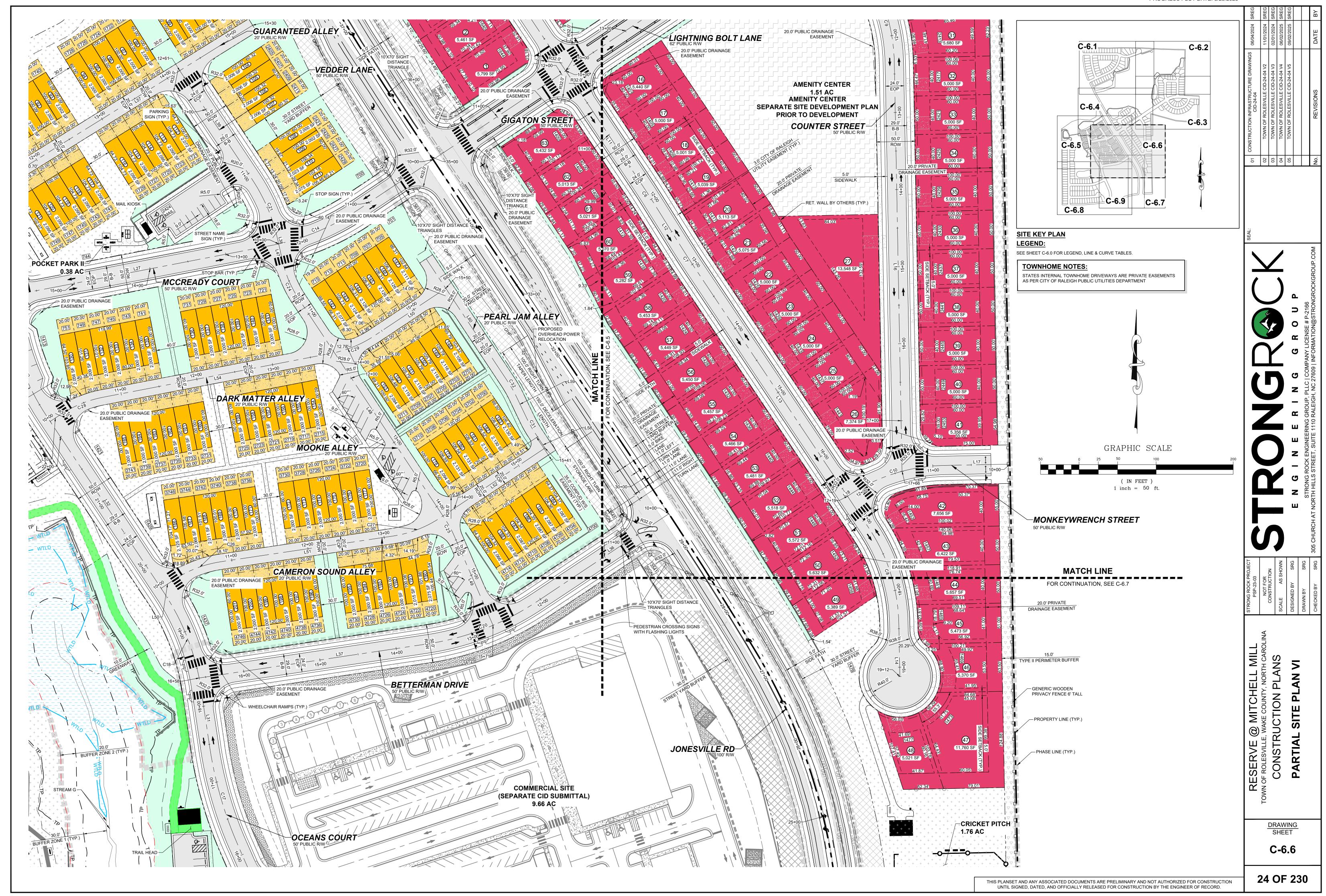


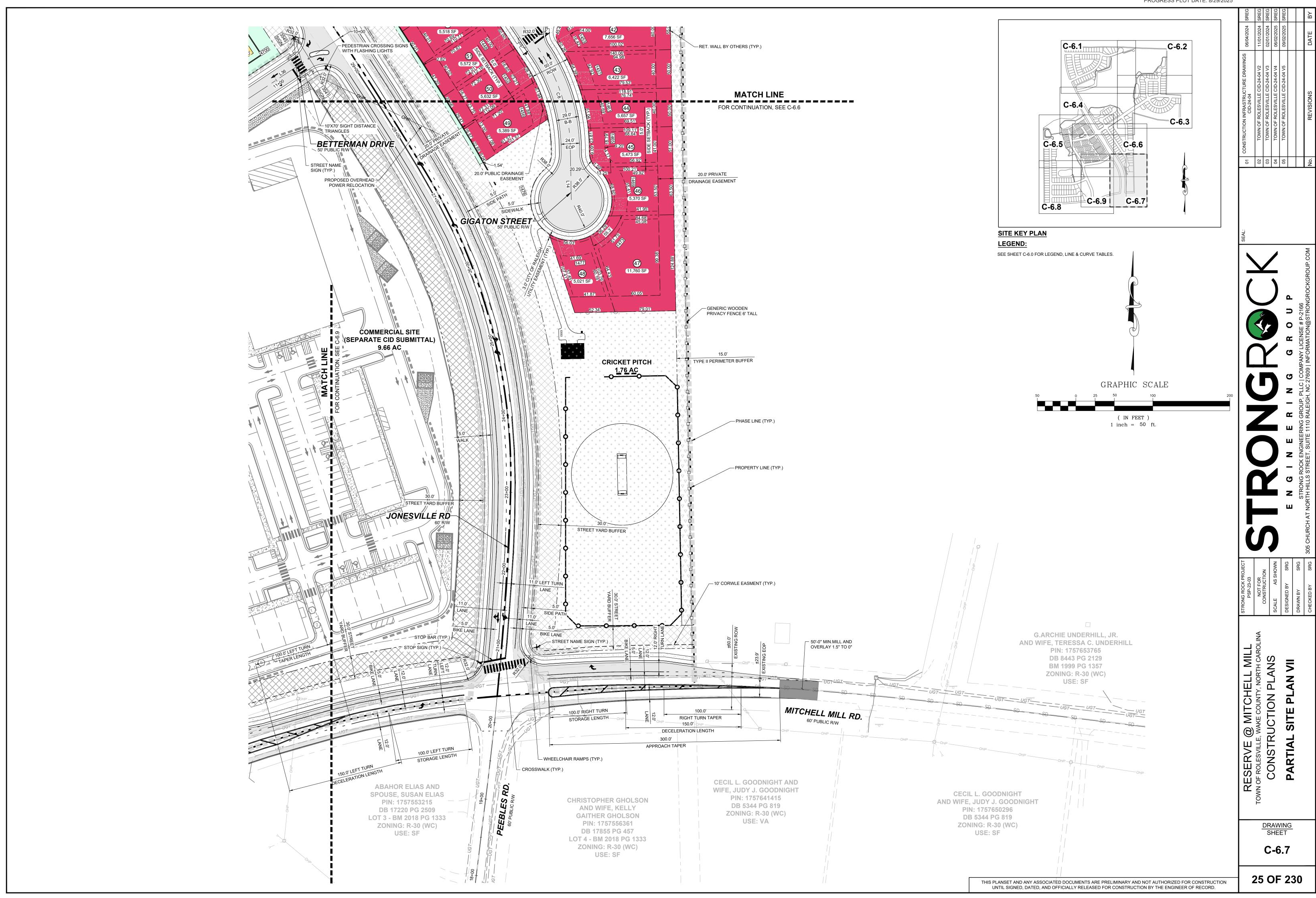


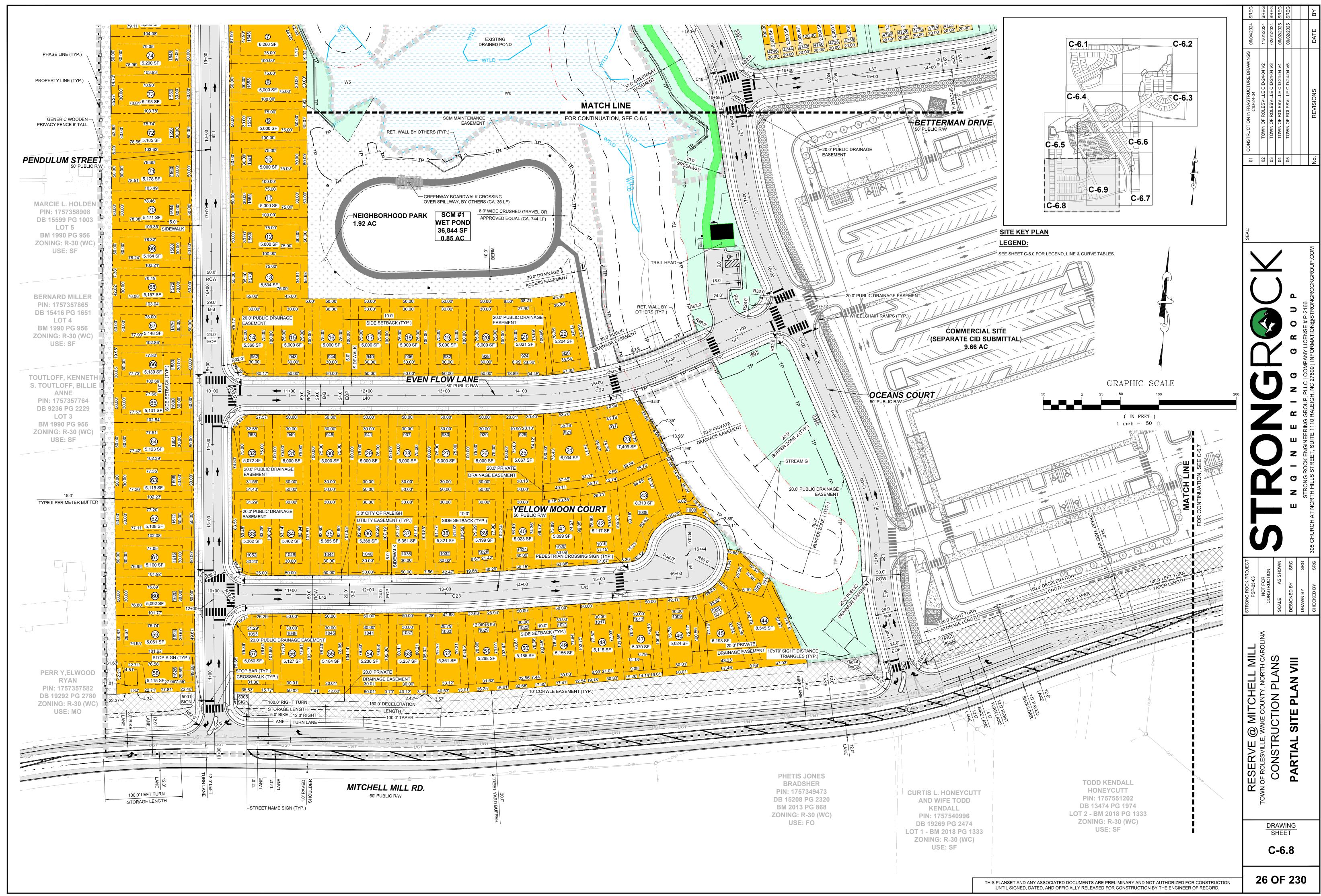


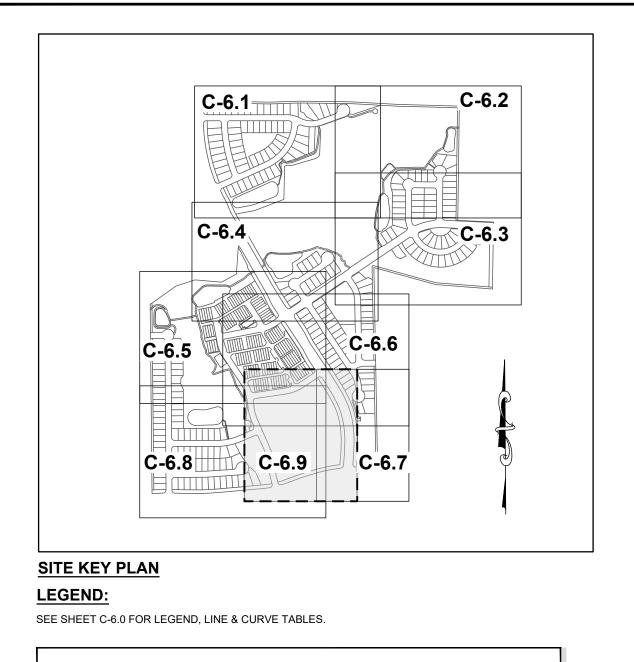






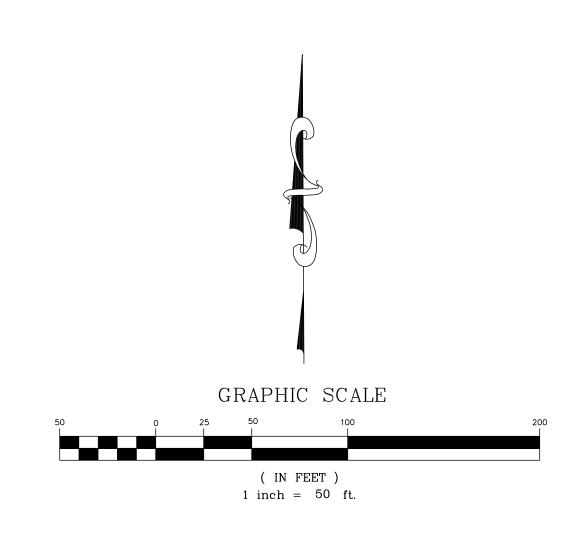


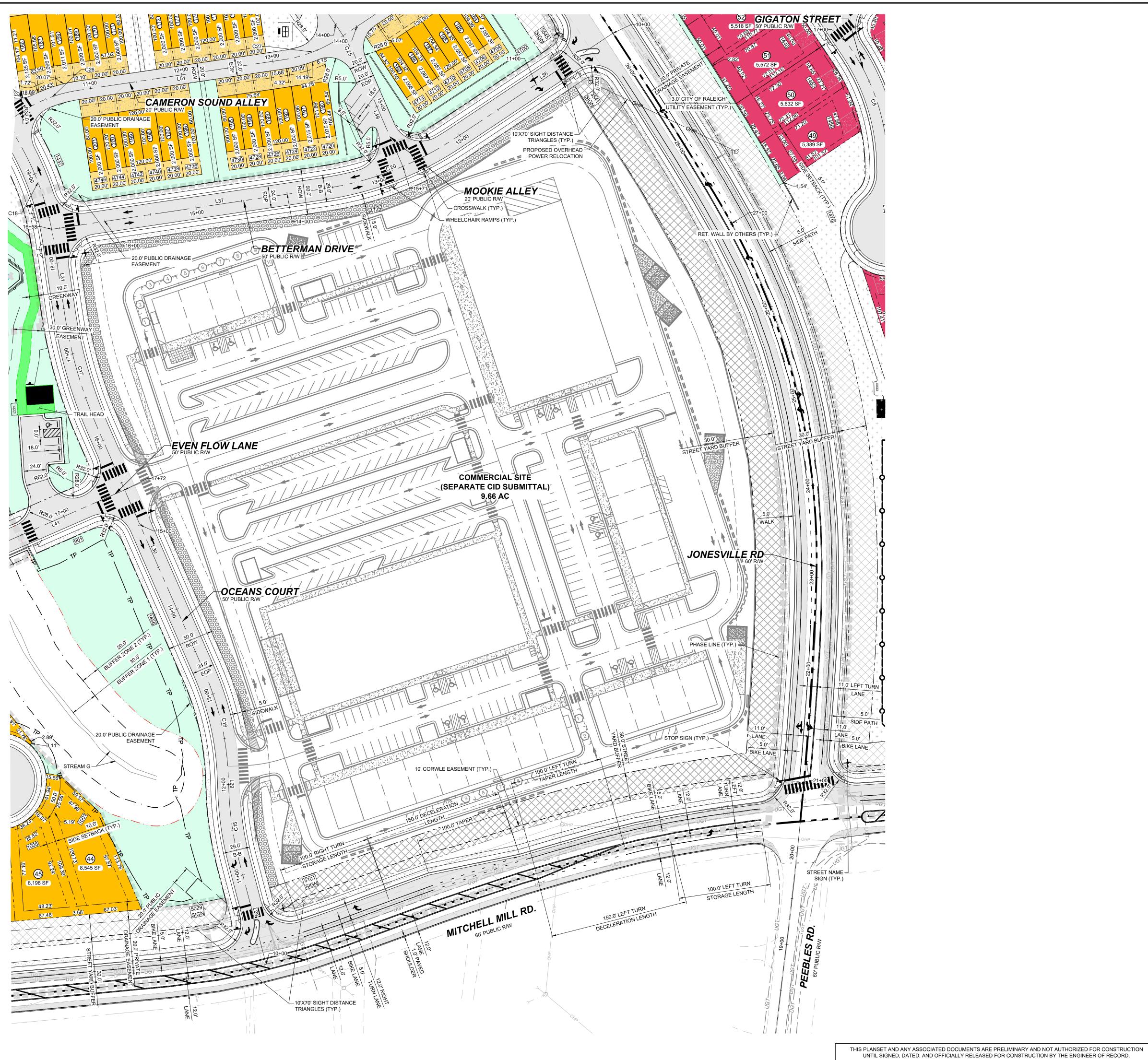




TOWNHOME NOTES:

STATES INTERNAL TOWNHOME DRIVEWAYS ARE PRIVATE EASEMENTS AS PER CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT





01	CONSTRUCTION INFRASTRUCTURE DRAWINGS CID-24-04	06/04/2024	SF
02	TOWN OF ROLESVILLE CID-24-04 V2	11/01/2024	SF
03	TOWN OF ROLESVILLE CID-24-04 V3	02/01/2024	SF
04	TOWN OF ROLESVILLE CID-24-04 V4	06/02/2025	SF
90	TOWN OF ROLESVILLE CID-24-04 V5	09/02/2025	SF
No.	REVISIONS	DATE	Ш

OLESVILLE, WAKE COUNTY, NORTH CAROLINA

ONSTRUCTION PLANS

DRAWING SHEET

C-6.9

DSF LOT	SIZE TABLE	- NC ZONE	DSF LOT	SIZE TABLE	- NC ZONE	DSF LOT	SIZE TABLE	- RM ZONE
OT NUMBER	AREA (SF)	DIMENSION (LF) FRONT: 50'	LOT NUMBER	AREA (SF)	DIMENSION (LF) FRONT: 132'	LOT NUMBER	AREA (SF)	DIMENSION (LF) FRONT: 50'
1	5,700	DEPTH: 114'	43	8,310	DEPTH: 105'	5	5,000	DEPTH: 100'
2	5,702	FRONT: 50' DEPTH: 100'	44	8,545	FRONT: 50' DEPTH: 174'	6	5,000	FRONT: 50' DEPTH: 100'
3	5,000	FRONT: 50' DEPTH: 100'	45	6,198	FRONT: 50' DEPTH: 125'	7	5,000	FRONT: 50' DEPTH: 100'
4	5,000	FRONT: 50' DEPTH: 100'	46	5,024	FRONT: 50' DEPTH: 101'	8	5,040	FRONT: 74' DEPTH: 100'
5	5,000	FRONT: 50' DEPTH: 100'	47	5,070	FRONT: 50' DEPTH: 102'	9	5,122	FRONT: 51' DEPTH: 112'
6	5,703	FRONT: 68' DEPTH: 100'	48	5,115	FRONT: 50' DEPTH: 103'	10	5,000	FRONT: 50' DEPTH: 100'
7	6,260	FRONT: 68' DEPTH: 100'	49	5,156	FRONT: 50' DEPTH: 103'	11	5,000	FRONT: 50' DEPTH: 100'
8	5,000	FRONT: 50' DEPTH: 100'	50	5,185	FRONT: 50' DEPTH: 104'	12	5,000	FRONT: 50' DEPTH: 100'
9	5,000	FRONT: 50' DEPTH: 100'	51	5,268	FRONT: 50' DEPTH: 104'	13	5,000	FRONT: 50' DEPTH: 100'
10	5,000	FRONT: 50' DEPTH: 100'	52	5,361	FRONT: 50' DEPTH: 105'	14	5,000	FRONT: 50' DEPTH: 100'
11	5,000	FRONT: 50' DEPTH: 100'	53	5,257	FRONT: 50' DEPTH: 105'	15	5,565	FRONT: 59' DEPTH: 100'
12	5,000	FRONT: 50' DEPTH: 100'	54	5,230	FRONT: 50' DEPTH: 105'	16	5,440	FRONT: 55' DEPTH: 100'
13	5,534	FRONT: 55' DEPTH: 100'	55	5,184	FRONT: 50' DEPTH: 104'	17	5,000	FRONT: 50' DEPTH: 100'
14	5,368	FRONT: 53' DEPTH: 100'	56	5,127	FRONT: 50' DEPTH: 103'	18	5,001	FRONT: 50' DEPTH: 100'
15	5,000	FRONT: 50' DEPTH: 100'	57	5,060	FRONT: 51' DEPTH: 102'	19	5,039	FRONT: 50' DEPTH: 102'
16	5,000	FRONT: 50' DEPTH: 100'	58	5,115	FRONT: 50' DEPTH: 102'	20	5,113	FRONT: 50' DEPTH: 103'
17	5,000	FRONT: 50' DEPTH: 100'	59	5,051	FRONT: 50' DEPTH: 102'	21	5,075	FRONT: 50' DEPTH: 103'
18	5,000	FRONT: 50' DEPTH: 100'	60	5,092	FRONT: 50' DEPTH: 102'	22	5,000	FRONT: 50' DEPTH: 100'
19	5,000	FRONT: 50' DEPTH: 100'	61	5,100	FRONT: 50' DEPTH: 102'	23	5,000	FRONT: 50' DEPTH: 100'
20	5,000	FRONT: 50' DEPTH: 100'	62	5,108	FRONT: 50' DEPTH: 102'	24	5,000	FRONT: 50' DEPTH: 100'
21	5,021	FRONT: 52' DEPTH: 101'	63	5,115	FRONT: 50' DEPTH: 102'	25	5,000	FRONT: 50' DEPTH: 100'
22	5,204	FRONT: 56' DEPTH: 102'	64	5,123	FRONT: 50' DEPTH: 103'	26	7,374	FRONT: 99' DEPTH: 100'
23	7,499	FRONT: 74' DEPTH: 100'	65	5,131	FRONT: 50' DEPTH: 103'	27	13,548	FRONT: 175' DEPTH: 130'
24	6,904	FRONT: 58' DEPTH: 101'	66	5,139	FRONT: 50' DEPTH: 103'	28	6,061	FRONT: 65' DEPTH: 101'
25	5,067	FRONT: 51' DEPTH: 101'	67	5,148	FRONT: 50' DEPTH: 103'	29	7,176	FRONT: 51' DEPTH: 126'
26	5,000	FRONT: 50' DEPTH: 100'	68	5,157	FRONT: 50' DEPTH: 103'	30	6,707	FRONT: 51' DEPTH: 126'
27	5,000	FRONT: 50' DEPTH: 100'	69	5,164	FRONT: 50' DEPTH: 103'	31	5,680	FRONT: 51' DEPTH: 107'
28	5,000	FRONT: 50' DEPTH: 100'	70	5,171	FRONT: 50' DEPTH: 103'	32	5,000	FRONT: 50' DEPTH: 100'
29	5,000	FRONT: 50' DEPTH: 100'	71	5,178	FRONT: 50' DEPTH: 104'	33	5,000	FRONT: 50' DEPTH: 100'
30	5,000	FRONT: 50' DEPTH: 100'	72	5,185	FRONT: 50' DEPTH: 104'	34	5,000	FRONT: 50' DEPTH: 100'
31	5,000	FRONT: 50' DEPTH: 100'	73	5,193	FRONT: 50' DEPTH: 104'	35	5,000	FRONT: 50' DEPTH: 100'
32	5,072	FRONT: 50' DEPTH: 100'	74	5,200	FRONT: 50' DEPTH: 104'	36	5,000	FRONT: 50' DEPTH: 100'
33	5,362	FRONT: 50' DEPTH: 108'	75	5,208	FRONT: 50' DEPTH: 104'	37	5,000	FRONT: 50' DEPTH: 100'
34	5,402	FRONT: 50' DEPTH: 108'	76	5,215	FRONT: 50' DEPTH: 104'	38	5,000	FRONT: 50' DEPTH: 100'
35	5,385	FRONT: 50' DEPTH: 108'	77	5,223	FRONT: 50' DEPTH: 105'	39	5,000	FRONT: 50' DEPTH: 100'
36	5,368	FRONT: 50' DEPTH: 107'	78	5,230	FRONT: 50' DEPTH: 105'	40	5,000	FRONT: 50' DEPTH: 100'
37	5,351	FRONT: 50' DEPTH: 107'	79	5,238	FRONT: 50' DEPTH: 105'	41	5,356	FRONT: 54' DEPTH: 100'
38	5,321	FRONT: 50' DEPTH: 106'	80	5,245	FRONT: 50' DEPTH: 105'	42	7,656	FRONT: 46' DEPTH: 140'
39	5,199	FRONT: 50' DEPTH: 106'	81	5,253	FRONT: 50' DEPTH: 105'	43	6,422	FRONT: 54' DEPTH: 140'
40	5,023	FRONT: 50' DEPTH: 102'	82	6,236	FRONT: 50' DEPTH: 105'	44	5,657	FRONT: 51' DEPTH: 119'
41	5,099	FRONT: 53' DEPTH: 100'	83	5,581	FRONT: 50' DEPTH: 114'	45	5,473	FRONT: 56' DEPTH: 109'
42	5,117	FRONT: 51' DEPTH: 105'			JEI III. 114	46	5,370	FRONT: 66' DEPTH: 100'

DOE 07	- 0.75 TABLE	DM 70M5
LOT NUMBER	SIZE TABLE AREA (SF)	- RM ZONE DIMENSION (LF)
47	11,760	FRONT: 62' DEPTH: 104'
48	5,021	FRONT: 53' DEPTH: 107'
49	5,389	FRONT: 52' DEPTH: 112'
50	5,632	FRONT: 50' DEPTH: 112'
51	5,572	FRONT: 50'
52	5,518	DEPTH: 112' FRONT: 50'
53	5,481	DEPTH: 110' FRONT: 50'
54	5,466	DEPTH: 110' FRONT: 50'
55	5,457	DEPTH: 110' FRONT: 50'
56	5,450	DEPTH: 109' FRONT: 50'
		DEPTH: 109' FRONT: 50'
57	5,449	DEPTH: 109' FRONT: 50'
58	5,453	DEPTH: 109'
59	5,282	DEPTH: 108'
60	5,070	DEPTH: 103'
61	5,021	DEPTH: 100'
62	5,013	FRONT: 50' DEPTH: 100'
63	5,432	FRONT: 55' DEPTH: 100'
64	5,000	FRONT: 50' DEPTH: 100'
65	5,000	FRONT: 50' DEPTH: 100'
66	6,595	FRONT: 92' DEPTH: 124'
67	6,898	FRONT: 75' DEPTH: 124'
68	5,505	FRONT: 50' DEPTH: 110'
69	5,500	FRONT: 50' DEPTH: 110'
70	5,500	FRONT: 50' DEPTH: 110'
71	5,500	FRONT: 50' DEPTH: 110'
72	5,587	FRONT: 50' DEPTH: 115'
73	5,161	FRONT: 51' DEPTH: 115'
74	7,143	FRONT: 50' DEPTH: 100'
75	5,755	FRONT: 50' DEPTH: 100'
76	5,056	FRONT: 69' DEPTH: 100'
77	5,005	FRONT: 50' DEPTH: 100'
78	5,000	FRONT: 50' DEPTH: 100'
79	6,325	FRONT: 78' DEPTH: 100'
80	8,057	FRONT: 68' DEPTH: 101'
81	10,300	FRONT: 56' DEPTH: 101'
82	6,284	FRONT: 60'
83	5,467	DEPTH: 100' FRONT: 58'
84	5,697	DEPTH: 114' FRONT: 50'
85	5,694	DEPTH: 114' FRONT: 50'
86	5,691	DEPTH: 114' FRONT: 50'
87	5,688	DEPTH: 114' FRONT: 50'
		DEPTH: 114' FRONT: 50'
88	5,684	DEPTH: 114'

LOT NUMBER	AREA (SF)	- RM ZONE DIMENSION (LF)
89	5,681	FRONT: 50'
90	5,203	DEPTH: 114' FRONT: 50'
91	5,206	DEPTH: 104' FRONT: 50'
		DEPTH: 104' FRONT: 50'
92	5,206	DEPTH: 104' FRONT: 50'
93	5,206	DEPTH: 104' FRONT: 54'
94	5,592	DEPTH: 104' FRONT: 54'
95	5,592	DEPTH: 104'
96	5,206	DEPTH: 104'
97	5,206	DEPTH: 104'
98	5,206	FRONT: 50' DEPTH: 104'
99	5,203	FRONT: 50' DEPTH: 104'
100	5,359	FRONT: 63' DEPTH: 100'
101	5,100	FRONT: 57' DEPTH: 110'
102	5,100	FRONT: 57' DEPTH: 110'
103	5,100	FRONT: 57' DEPTH: 110'
104	5,100	FRONT: 57' DEPTH: 110'
105	5,100	FRONT: 57' DEPTH: 110'
106	5,100	FRONT: 57' DEPTH: 110'
107	5,360	FRONT: 69' DEPTH: 110'
108	5,753	FRONT: 50' DEPTH: 115'
109	5,790	FRONT: 50' DEPTH: 115'
110	5,753	FRONT: 53' DEPTH: 100'
111	5,866	FRONT: 50' DEPTH: 100'
112	5,490	FRONT: 50' DEPTH: 100'
113	5,545	FRONT: 50' DEPTH: 100'
114	5,517	FRONT: 50' DEPTH: 100'
115	5,545	FRONT: 50' DEPTH: 100'
116	5,545	FRONT: 50' DEPTH: 100'
117	5,545	FRONT: 50'
118	5,545	DEPTH: 100'
119	5,545	DEPTH: 100'
120	5,545	DEPTH: 100' FRONT: 50'
121	5,545	DEPTH: 100' FRONT: 50'
		DEPTH: 100' FRONT: 50'
122	5,515	DEPTH: 100' FRONT: 59'
123	5,845	DEPTH: 100'
124	7,066	DEPTH: 110'
125	5,000	FRONT: 50' DEPTH: 100'
126	5,000	FRONT: 50' DEPTH: 100'
127	5,000	FRONT: 50' DEPTH: 100'
128	5,000	FRONT: 50' DEPTH: 100'
129	5,000	FRONT: 50' DEPTH: 100'
130	5,000	FRONT: 50' DEPTH: 100'

LOT NUMBER	AREA (SF)	DIMENSION (LF)
131	5,000	FRONT: 50' DEPTH: 100'
132	5,196	FRONT: 50' DEPTH: 100'
133	5,709	FRONT: 50' DEPTH: 100'
134	7,388	FRONT: 59' DEPTH: 102'
135	9,518	FRONT: 59' DEPTH: 152'
136	7,674	FRONT: 59' DEPTH: 131'
137	8,151	FRONT: 81' DEPTH: 109'
138	10,501	FRONT: 50' DEPTH: 236'
139	13,113	FRONT: 90' DEPTH: 277'
140	6,857	FRONT: 66' DEPTH: 108'
141	6,523	FRONT: 55' DEPTH: 129'
142	10,038	FRONT: 54' DEPTH: 170'
143	11,353	FRONT: 64' DEPTH: 170'
144	7,101	FRONT: 70' DEPTH: 118'
145	5,191	FRONT: 56' DEPTH: 98'
146	5,010	FRONT: 54' DEPTH: 94'
147	5,005	FRONT: 55' DEPTH: 92'
148	5,045	FRONT: 56' DEPTH: 91'
149	5,047	FRONT: 55' DEPTH: 92'
150	5,031	FRONT: 54' DEPTH: 93'
151	5,029	FRONT: 54' DEPTH: 95'
152	5,014	FRONT: 53' DEPTH: 96'
153	5,023	FRONT: 52' DEPTH: 97'
154	5,021	FRONT: 52' DEPTH: 98'
155	5,033	FRONT: 51' DEPTH: 99'
156	5,036	FRONT: 51' DEPTH: 100'
157	5,074	FRONT: 52' DEPTH: 101'
158	7,319	FRONT: 59' DEPTH: 120'
159	6,614	FRONT: 52' DEPTH: 121'
160	6,630	FRONT: 53' DEPTH: 121'
161	6,616	FRONT: 53' DEPTH: 121'
162	6,622	FRONT: 53' DEPTH: 121'
163	6,635	FRONT: 53' DEPTH: 121'
164	6,645	FRONT: 53' DEPTH: 121'
165	6,387	FRONT: 51' DEPTH: 122'
166	7,431	FRONT: 58' DEPTH: 122'
167	6,292	FRONT: 61' DEPTH: 110'
168	5,464	FRONT: 51' DEPTH: 110'
169	5,910	FRONT: 55' DEPTH: 100'
170	5,908	FRONT: 55' DEPTH: 100'
171	5,908	FRONT: 55' DEPTH: 100'
		FRONT: 55'

FRONT: 55' DEPTH: 100'

5,908

SF LOT	SIZE TABLE	- RM ZONE		DSF LOT	SIZE TABLE	- RM ZONE
//BER	AREA (SF)	DIMENSION (LF)		LOT NUMBER	AREA (SF)	DIMENSION (LF)
	5,000	FRONT: 50' DEPTH: 100'		173	5,909	FRONT: 55' DEPTH: 100'
	5,196	FRONT: 50' DEPTH: 100'		174	6,280	FRONT: 60' DEPTH: 110'
	5,709	FRONT: 50' DEPTH: 100'		175	5,454	FRONT: 56' DEPTH: 101'
•	7,388	FRONT: 59' DEPTH: 102'		176	5,000	FRONT: 50' DEPTH: 100'
•	9,518	FRONT: 59' DEPTH: 152'		177	5,000	FRONT: 50' DEPTH: 100'
•	7,674	FRONT: 59' DEPTH: 131'		178	5,000	FRONT: 50' DEPTH: 100'
,	8,151	FRONT: 81' DEPTH: 109'		179	5,000	FRONT: 50' DEPTH: 100'
}	10,501	FRONT: 50' DEPTH: 236'		180	5,000	FRONT: 50' DEPTH: 100'
	13,113	FRONT: 90' DEPTH: 277'		181	5,000	FRONT: 50' DEPTH: 100'
1	6,857	FRONT: 66' DEPTH: 108'		182	6,401	FRONT: 69' DEPTH: 100'
	6,523	FRONT: 55' DEPTH: 129'		183	5,000	FRONT: 55' DEPTH: 100'
	10,038	FRONT: 54' DEPTH: 170'		184	5,000	FRONT: 55' DEPTH: 100'
,	11,353	FRONT: 64' DEPTH: 170'		185	5,000	FRONT: 55' DEPTH: 100'
	7,101	FRONT: 70' DEPTH: 118'		186	5,000	FRONT: 55' DEPTH: 100'
	5,191	FRONT: 56' DEPTH: 98'		187	5,000	FRONT: 54' DEPTH: 100'
i	5,010	FRONT: 54' DEPTH: 94'		188	5,000	FRONT: 50' DEPTH: 100'
	5,005	FRONT: 55' DEPTH: 92'		189	5,000	FRONT: 50' DEPTH: 100'
}	5,045	FRONT: 56' DEPTH: 91'				
	5,047	FRONT: 55' DEPTH: 92'				
		ı	1			

RESERVE @ MITCHELL MILL
NN OF ROLESVILLE, WAKE COUNTY, NORTH CAROL
CONSTRUCTION PLANS

DRAWING SHEET

C-6.10

28 OF 230

20 80 80 80 8

NUMBER		PLAN 2268	PLAN 2396	PLAN 2525	PLAN 1984	PLAN 2097
LOTS	LOT TYPE	"A" SLAB	"A" SLAB	"B" SLAB	"A" SLAB	"A" SLAB
1	SINGLE FAMILY 50' WIDE					
2	SINGLE FAMILY 50' WIDE					
3	SINGLE FAMILY 50' WIDE					
4	SINGLE FAMILY 50' WIDE					
5	SINGLE FAMILY 50' WIDE					
6	SINGLE FAMILY 50' WIDE	X	X	X	X	X
7	SINGLE FAMILY 50' WIDE	X	X	X	X	X
8	SINGLE FAMILY 50' WIDE					
9	SINGLE FAMILY 50' WIDE					
10	SINGLE FAMILY 50' WIDE					
11	SINGLE FAMILY 50' WIDE					
12	SINGLE FAMILY 50' WIDE					
13	SINGLE FAMILY 50' WIDE					
14	SINGLE FAMILY 50' WIDE					
15	SINGLE FAMILY 50' WIDE					
16	SINGLE FAMILY 50' WIDE					
17	SINGLE FAMILY 50' WIDE					
18	SINGLE FAMILY 50' WIDE					
19	SINGLE FAMILY 50' WIDE					
20	SINGLE FAMILY 50' WIDE					
21	SINGLE FAMILY 50' WIDE					
22	SINGLE FAMILY 50' WIDE					
23	SINGLE FAMILY 50' WIDE	Х	Х	Х	Х	Х
24	SINGLE FAMILY 50' WIDE	X	Х	Х	X	Х
25	SINGLE FAMILY 50' WIDE					
26	SINGLE FAMILY 50' WIDE					
27	SINGLE FAMILY 50' WIDE					
28	SINGLE FAMILY 50' WIDE					
29	SINGLE FAMILY 50' WIDE					
30	SINGLE FAMILY 50' WIDE					
31	SINGLE FAMILY 50' WIDE					
32	SINGLE FAMILY 50' WIDE					
33	SINGLE FAMILY 50' WIDE					
34	SINGLE FAMILY 50' WIDE					
35	SINGLE FAMILY 50' WIDE					
36	SINGLE FAMILY 50' WIDE					
37	SINGLE FAMILY 50' WIDE					
38	SINGLE FAMILY 50' WIDE					
39	SINGLE FAMILY 50' WIDE					
40	SINGLE FAMILY 50' WIDE					
41	SINGLE FAMILY 50' WIDE					

UMBER LOTS	LOT TYPE	PLAN 2268 "A" SLAB	PLAN 2396 "A" SLAB	PLAN 2525 "B" SLAB	PLAN 1984 "A" SLAB	PLAN 2097 "A" SLAB
42	SINGLE FAMILY 50' WIDE					
43	SINGLE FAMILY 50' WIDE					
44	SINGLE FAMILY 50' WIDE	X	X	X	X	Х
45	SINGLE FAMILY 50' WIDE					
46	SINGLE FAMILY 50' WIDE					
47	SINGLE FAMILY 50' WIDE					
48	SINGLE FAMILY 50' WIDE					
49	SINGLE FAMILY 50' WIDE					
50	SINGLE FAMILY 50' WIDE					
51	SINGLE FAMILY 50' WIDE					
52	SINGLE FAMILY 50' WIDE					
43	SINGLE FAMILY 50' WIDE					
54	SINGLE FAMILY 50' WIDE					
55	SINGLE FAMILY 50' WIDE					
56	SINGLE FAMILY 50' WIDE					
57	SINGLE FAMILY 50' WIDE					
58	SINGLE FAMILY 50' WIDE					
59	SINGLE FAMILY 50' WIDE					
60	SINGLE FAMILY 50' WIDE					
61	SINGLE FAMILY 50' WIDE					
62	SINGLE FAMILY 50' WIDE					
63	SINGLE FAMILY 50' WIDE					
64	SINGLE FAMILY 50' WIDE					
65	SINGLE FAMILY 50' WIDE					
66	SINGLE FAMILY 50' WIDE					
67	SINGLE FAMILY 50' WIDE					
68	SINGLE FAMILY 50' WIDE					
69	SINGLE FAMILY 50' WIDE					
70	SINGLE FAMILY 50' WIDE					
71	SINGLE FAMILY 50' WIDE					
72	SINGLE FAMILY 50' WIDE					
73	SINGLE FAMILY 50' WIDE					
74	SINGLE FAMILY 50' WIDE					
75	SINGLE FAMILY 50' WIDE					
76	SINGLE FAMILY 50' WIDE					
77	SINGLE FAMILY 50' WIDE					
78	SINGLE FAMILY 50' WIDE					
79	SINGLE FAMILY 50' WIDE					
80	SINGLE FAMILY 50' WIDE					
81	SINGLE FAMILY 50' WIDE					
82	SINGLE FAMILY 50' WIDE					
83	SINGLE FAMILY 51' WIDE	X	X	X	X	

RESERVE @ MITCHELL MILL
OWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
SITE TABLES - NC ZONE

DRAWING SHEET

C-6.11

NUMBER LOTS	LOT TYPE	PLAN 2268 "A" SLAB	PLAN 2396 "A" SLAB	PLAN 2525 "B" SLAB	PLAN 1984 "A" SLAB	PLAN 2097 "A" SLAB
1	SINGLE FAMILY 50' WIDE	X	X	X	X	X
2	SINGLE FAMILY 50' WIDE	X	X	X	X	X
3	SINGLE FAMILY 50' WIDE	X				
4	SINGLE FAMILY 50' WIDE	X	X	X	X	X
5	SINGLE FAMILY 50' WIDE	X	X	X	X	X
6	SINGLE FAMILY 50' WIDE	X	X	X	X	X
7	SINGLE FAMILY 50' WIDE	Х	Х	X	Х	Х
8	SINGLE FAMILY 50' WIDE					
9	SINGLE FAMILY 50' WIDE	Х	Х	X	Х	Х
10	SINGLE FAMILY 50' WIDE	Х	Х	Х	Х	Х
11	SINGLE FAMILY 50' WIDE	Х	X	X	X	Х
12	SINGLE FAMILY 50' WIDE	Х	X	X	X	Х
13	SINGLE FAMILY 50' WIDE	Х	X	X	Х	Х
14	SINGLE FAMILY 50' WIDE	Х	X	X	X	Х
15	SINGLE FAMILY 50' WIDE	Х	X	X	Х	Х
16	SINGLE FAMILY 50' WIDE	Х	Х	Х	Х	Х
17	SINGLE FAMILY 50' WIDE	Х	X	X	X	Х
18	SINGLE FAMILY 50' WIDE	X	X	X	X	X
19	SINGLE FAMILY 50' WIDE	X	X	X	X	X
20	SINGLE FAMILY 50' WIDE	X	X	X	X	X
21	SINGLE FAMILY 50' WIDE	X	X	X	X	X
22	SINGLE FAMILY 50' WIDE	X	X	X	X	X
23	SINGLE FAMILY 50 WIDE	X	X	X	X	X
23 24	SINGLE FAMILY 50' WIDE	X	X	X	X	X
25	SINGLE FAMILY 50' WIDE	X	X	X	X	X
26	SINGLE FAMILY 50' WIDE					
27	SINGLE FAMILY 50' WIDE	X	X	X	X	X
28	SINGLE FAMILY 50' WIDE	X			X	
29	SINGLE FAMILY 50' WIDE	X	X	X	Х	X
30	SINGLE FAMILY 50' WIDE	X	X	X	X	X
31	SINGLE FAMILY 50' WIDE	X	X	X	X	X
32	SINGLE FAMILY 50' WIDE	X	X	X	X	X
33	SINGLE FAMILY 50' WIDE	X	X	X	X	X
34	SINGLE FAMILY 50' WIDE	X	X	X	X	X
35	SINGLE FAMILY 50' WIDE	X	X	X	X	X
36	SINGLE FAMILY 50' WIDE	X	X	X	X	X
37	SINGLE FAMILY 50' WIDE	X	X	X	X	X
38	SINGLE FAMILY 50' WIDE	X	X	X	X	X
39	SINGLE FAMILY 50' WIDE	X	X	X	X	X
40	SINGLE FAMILY 50' WIDE	Х	Х	Х	Х	Х
41	SINGLE FAMILY 50' WIDE	Х	X	Х	Х	Х
42	SINGLE FAMILY 50' WIDE	Х	X	X	X	Х
43	SINGLE FAMILY 50' WIDE	Х	X	X	X	Х
44	SINGLE FAMILY 50' WIDE	Х	X	X	Х	Х
45	SINGLE FAMILY 50' WIDE	X	X	X	Х	Х
46	SINGLE FAMILY 50' WIDE					
47	SINGLE FAMILY 50' WIDE	X	X	X	X	X
48	SINGLE FAMILY 50' WIDE	X				
49	SINGLE FAMILY 50' WIDE	X	X	X	X	X
50	SINGLE FAMILY 50' WIDE	X	X	X	X	X
51	SINGLE FAMILY 50' WIDE	X	X	X	X	X
52	SINGLE FAMILY 50' WIDE	X	X	X	X	X
53	SINGLE FAMILY 50' WIDE	X	X	X	X	X
53 	SINGLE FAMILY 50' WIDE	X	X	X	X	X
55	SINGLE FAMILY 50' WIDE	X	X	X	X	X
56	SINGLE FAMILY 50' WIDE	X	X	X	X	X
57	SINGLE FAMILY 50 WIDE	X	X	X	X	X
58	SINGLE FAMILY 50' WIDE	X	X	X	X	X
59	SINGLE FAMILY 50' WIDE	X	X	X	X	X
60	SINGLE FAMILY 50' WIDE	X	X	X	X	X
61	SINGLE FAMILY 50' WIDE	X	X	X	X	X
62	SINGLE FAMILY 50' WIDE	X	X	X	X	X
63	SINGLE FAMILY 50' WIDE	X	X	X	X	X
64	SINGLE FAMILY 50' WIDE	X	X	X	X	X
65	SINCLE EVAIL A 20, MIDE				V	

X

SINGLE FAMILY 50' WIDE

NUMBER LOTS	LOT TYPE	PLAN 2268 "A" SLAB	PLAN 2396 "A" SLAB	PLAN 2525 "B" SLAB	PLAN 1984 "A" SLAB	PLAN 2097 "A" SLAB
66	SINGLE FAMILY 50' WIDE	Х	X	X	X	X
67	SINGLE FAMILY 50' WIDE	Х	Х	Х	Х	Х
68	SINGLE FAMILY 50' WIDE	X	X	X	Х	X
69	SINGLE FAMILY 50' WIDE	Х	Х	Х	Х	X
70	SINGLE FAMILY 50' WIDE	Х	Х	Х	Х	Х
71	SINGLE FAMILY 50' WIDE	Х	Х	Х	Х	Х
72	SINGLE FAMILY 50' WIDE	X	X	X	X	X
73	SINGLE FAMILY 50' WIDE	X	X	X	X	X
74	SINGLE FAMILY 50' WIDE	X	X	X	X	X
75	SINGLE FAMILY 50' WIDE	, , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , ,		, , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , ,
76	SINGLE FAMILY 50' WIDE					
77	SINGLE FAMILY 50' WIDE	X	X	X	X	X
78	SINGLE FAMILY 50' WIDE	X	X	X	X	X
79	SINGLE FAMILY 50' WIDE	X	X	X	X	X
80	SINGLE FAMILY 50' WIDE					
81	SINGLE FAMILY 50' WIDE	X	X	X	X	X
82	SINGLE FAMILY 50' WIDE	X				
83	SINGLE FAMILY 50' WIDE	X	X	X	X	X
84	SINGLE FAMILY 50' WIDE	X	X	X	X	X
85	SINGLE FAMILY 50' WIDE	X	X	X	X	X
86	SINGLE FAMILY 50' WIDE	Х	Х	Х	Х	X
87	SINGLE FAMILY 50' WIDE	Х	Х	Х	Х	X
88	SINGLE FAMILY 50' WIDE	Х	Х	Х	Х	Х
89	SINGLE FAMILY 50' WIDE	X	X	X	X	X
90	SINGLE FAMILY 50' WIDE	X	X	X	X	X
91	SINGLE FAMILY 50' WIDE	X	X	X	X	X
92	SINGLE FAMILY 50' WIDE	X	X	X	X	X
93	SINGLE FAMILY 50' WIDE	X	X	X	X	X
94	SINGLE FAMILY 50' WIDE	X	X	X	X	X
95	SINGLE FAMILY 50' WIDE	X	X	X	X	X
96	SINGLE FAMILY 50' WIDE	X	X	X	X	X
97	SINGLE FAMILY 50' WIDE	X	X	X	X	X
98	SINGLE FAMILY 50' WIDE	X	X	X	X	X
99	SINGLE FAMILY 50' WIDE	X	X	X	X	X
100	SINGLE FAMILY 50' WIDE					
101	SINGLE FAMILY 50' WIDE					
102	SINGLE FAMILY 50' WIDE					
103	SINGLE FAMILY 50' WIDE					
104	SINGLE FAMILY 50' WIDE					
105	SINGLE FAMILY 50' WIDE					
106	SINGLE FAMILY 50' WIDE					
107	SINGLE FAMILY 50' WIDE					
108	SINGLE FAMILY 50' WIDE	X	X	X	X	X
109	SINGLE FAMILY 50' WIDE	X	X	X	X	X
			^	^	^	^
110	SINGLE FAMILY 50' WIDE	X				
111	SINGLE FAMILY 50' WIDE		.,	.,	.,	.,
112	SINGLE FAMILY 50' WIDE	X	X	X	X	X
113	SINGLE FAMILY 50' WIDE	X	X	X	X	X
114	SINGLE FAMILY 50' WIDE	X	X	X	X	X
115	SINGLE FAMILY 50' WIDE	X	X	Х	X	Х
116	SINGLE FAMILY 50' WIDE	X	X	Х	X	X
117	SINGLE FAMILY 50' WIDE	X	X	X	X	X
118	SINGLE FAMILY 50' WIDE	X	X	X	Х	X
119	SINGLE FAMILY 50' WIDE	X	Х	X	Х	X
120	SINGLE FAMILY 50' WIDE	X	Х	X	Х	X
121	SINGLE FAMILY 50' WIDE	X	X	X	X	X
122	SINGLE FAMILY 50' WIDE	X	X	X	X	X
123	SINGLE FAMILY 50' WIDE	X	X	X	X	X
124	SINGLE FAMILY 50' WIDE	X	X	X	X	X
125	SINGLE FAMILY 50 WIDE	X	X	X	X	X
126	SINGLE FAMILY 50' WIDE	X	X	X	X	X
127	SINGLE FAMILY 50' WIDE	X	X	X	X	X
128	SINGLE FAMILY 50' WIDE	X	X	X	X	X
129	SINGLE FAMILY 50' WIDE	X	X	X	X	X
130	SINGLE FAMILY 50' WIDE	X	X	X	X	X

132 SING 133 SING 134 SING 135 SING 136 SING 137 SING 138 SING 139 SING 140 SING 141 SING 142 SING 143 SING 144 SING 145 SING 146 SING 147 SING 148 SING 149 SING 150 SING 151 SING 152 SING 153 SING 154 SING 155 SING 156 SING 161 SING 162 SING 163 SING 164 SING 165 SING 166 SING 167 SING 170 SING <th>GLE FAMILY 50' WIDE GLE FAMILY 50' WIDE</th> <th>X X X X X X X X X X X X X X X X X X X</th> <th>X X X X X X X X X X X X X X X X X X X</th> <th>X X X X X X X X X X X X X X X X X X X</th> <th>X X X X X X X X X X X X X X X X X X X</th> <th>X X X X X X X X X X X X X X X X X X X</th>	GLE FAMILY 50' WIDE	X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X
133 SING 134 SING 135 SING 136 SING 137 SING 138 SING 139 SING 140 SING 141 SING 142 SING 143 SING 144 SING 145 SING 146 SING 147 SING 148 SING 149 SING 150 SING 151 SING 152 SING 151 SING 152 SING 153 SING 154 SING 155 SING 156 SING 157 SING 157 SING 158 SING 157 SING 158 SING 159 SING 160 SING 161 SING 162 SING 163 SING 164 SING 165 SING 165 SING 166 SING 167 SING 168 SING 169 SING 160 SING 161 SING 162 SING 163 SING 164 SING 165 SING 166 SING 167 SING 168 SING 169 SING 160 SING 161 SING 162 SING 163 SING 164 SING 165 SING 166 SING 167 SING 168 SING 169 SING 169 SING 160 SING 161 SING 165 SING 165 SING 166 SING 167 SING 167 SING 168 SING 169 SING 169 SING 160 SING 160 SING 161 SING 165 SING 165 SING 166 SING 167 SING 167 SING 178 SING 179 SING 170 SING 171 SING 172 SING 173 SING 174 SING 175 SING 175 SING 176 SING	GLE FAMILY 50' WIDE	X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X
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175 SING	GLE FAMILY 50' WIDE	X	X	X	X	X
176 SING	GLE FAMILY 50' WIDE	X	X	X	X	X
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182 SINO		X	X	X	X	X
	GLE FAMILY 50' WIDE	X	X	X	X	X
184 SINO		X	X	X	Х	X
185 SIN	GLE FAMILY 50' WIDE	X	X	X	X	X
186 SIN	GLE FAMILY 50' WIDE GLE FAMILY 50' WIDE		X	X	X	X
187 SING	GLE FAMILY 50' WIDE GLE FAMILY 50' WIDE GLE FAMILY 50' WIDE	X		X	Х	Х
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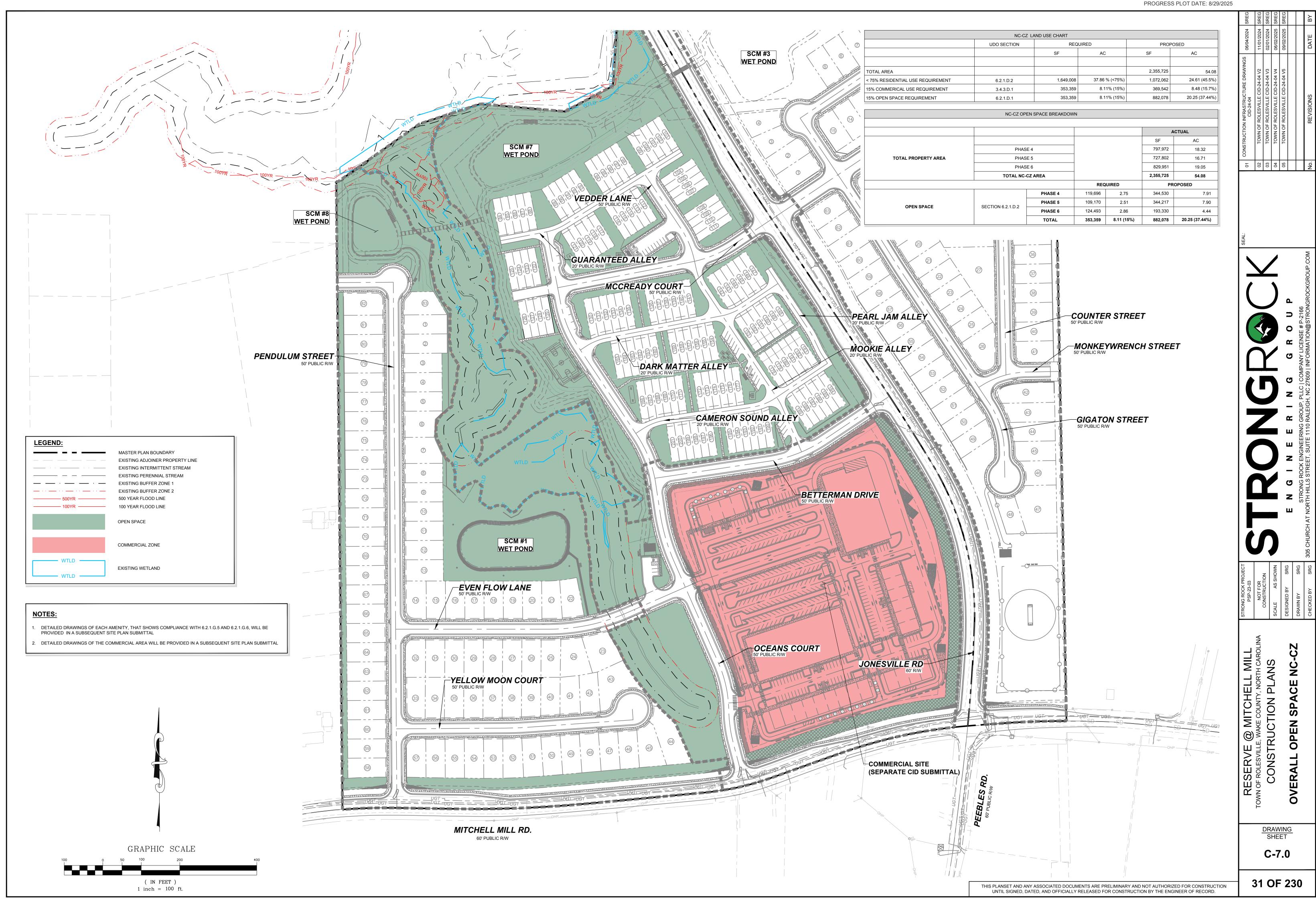
MBER .OTS	LOT TYPE	PLAN 2268 "A" SLAB	PLAN 2396 "A" SLAB	PLAN 2525 "B" SLAB	PLAN 1984 "A" SLAB	PLAN 2097 "A" SLAB
131	SINGLE FAMILY 50' WIDE	X	X	X	X	Х
132	SINGLE FAMILY 50' WIDE	X	X	X	X	X
133	SINGLE FAMILY 50' WIDE	X	X	X	X	X
134	SINGLE FAMILY 50' WIDE	X	X	X	X	X
135	SINGLE FAMILY 50' WIDE	Х	Х	Х	Х	Х
136	SINGLE FAMILY 50' WIDE	Х	Х	X	Х	X
137	SINGLE FAMILY 50' WIDE	Х	Х	X	Х	X
138	SINGLE FAMILY 50' WIDE	X	Х	X	X	Х
139	SINGLE FAMILY 50' WIDE	Х	Х	Х	Х	Х
140	SINGLE FAMILY 50' WIDE	Х	Х	X	Х	Х
141	SINGLE FAMILY 50' WIDE	X	X	X	X	X
142	SINGLE FAMILY 50' WIDE	X	X	X	X	X
143	SINGLE FAMILY 50' WIDE	X	X	X	X	X
144	SINGLE FAMILY 50' WIDE	X	X	X	X	X
145	SINGLE FAMILY 50' WIDE	X	X	X	X	X
146	SINGLE FAMILY 50' WIDE	X	X	X	X	X
147	SINGLE FAMILY 50' WIDE	X	X	X	X	X
148	SINGLE FAMILY 50' WIDE	X	X	X	X	X
149	SINGLE FAMILY 50' WIDE	X	X	X	X	X
150	SINGLE FAMILY 50' WIDE	X	X	X	X	X
151	SINGLE FAMILY 50' WIDE	X	X	X	X	X
152	SINGLE FAMILY 50' WIDE	X	X	X	X	X
153	SINGLE FAMILY 50' WIDE	X	X	X	X	X
154	SINGLE FAMILY 50' WIDE	X	X	X	X	X
155	SINGLE FAMILY 50' WIDE	X	X	X	X	X
156	SINGLE FAMILY 50' WIDE	X	X	X	X	X
157	SINGLE FAMILY 50' WIDE	X	X	X	X	X
158	SINGLE FAMILY 50' WIDE	Х	Х	X	Х	X
159	SINGLE FAMILY 50' WIDE	X	Х	X	X	Х
160	SINGLE FAMILY 50' WIDE	Х	Х	Х	Х	Х
161	SINGLE FAMILY 50' WIDE	Х	Х	Х	Х	Х
162	SINGLE FAMILY 50' WIDE	Х	Х	Х	Х	X
163	SINGLE FAMILY 50' WIDE	X	Х	X	X	X
164	SINGLE FAMILY 50' WIDE	X	X	X	X	X
165	SINGLE FAMILY 50' WIDE	X	X	X	X	X
166	SINGLE FAMILY 50' WIDE	X	X	X	X	X
167	SINGLE FAMILY 50' WIDE	X	X	X	X	X
168	SINGLE FAMILY 50' WIDE	X	X	X	X	X
		X	X	X	X	X
169	SINGLE FAMILY 50' WIDE					
170	SINGLE FAMILY 50' WIDE	X	X	X	X	X
171	SINGLE FAMILY 50' WIDE	X	X	X	X	X
172	SINGLE FAMILY 50' WIDE	X	X	X	X	X
173	SINGLE FAMILY 50' WIDE	X	X	X	X	X
174	SINGLE FAMILY 50' WIDE	X	X	X	X	X
175	SINGLE FAMILY 50' WIDE	X	X	X	X	X
176	SINGLE FAMILY 50' WIDE	X	X	X	X	X
177	SINGLE FAMILY 50' WIDE	X	X	X	X	Х
178	SINGLE FAMILY 50' WIDE	Х	X	X	Х	X
179	SINGLE FAMILY 50' WIDE	X	X	X	Х	X
180	SINGLE FAMILY 50' WIDE	X	X	X	Χ	X
181	SINGLE FAMILY 50' WIDE	X	X	X	Х	X
182	SINGLE FAMILY 50' WIDE	X	Х	X	X	Х
183	SINGLE FAMILY 50' WIDE	X	Х	X	Х	Х
184	SINGLE FAMILY 50' WIDE	Х	X	X	Х	Х
185	SINGLE FAMILY 50' WIDE	X	X	X	X	X
186	SINGLE FAMILY 50' WIDE	Χ	X	X	Χ	X
187	SINGLE FAMILY 50' WIDE	X	X	X	X	X
188	SINGLE FAMILY 50' WIDE	X	X	X	X	X
189	SINGLE FAMILY 50' WIDE	X	X	X	X	X
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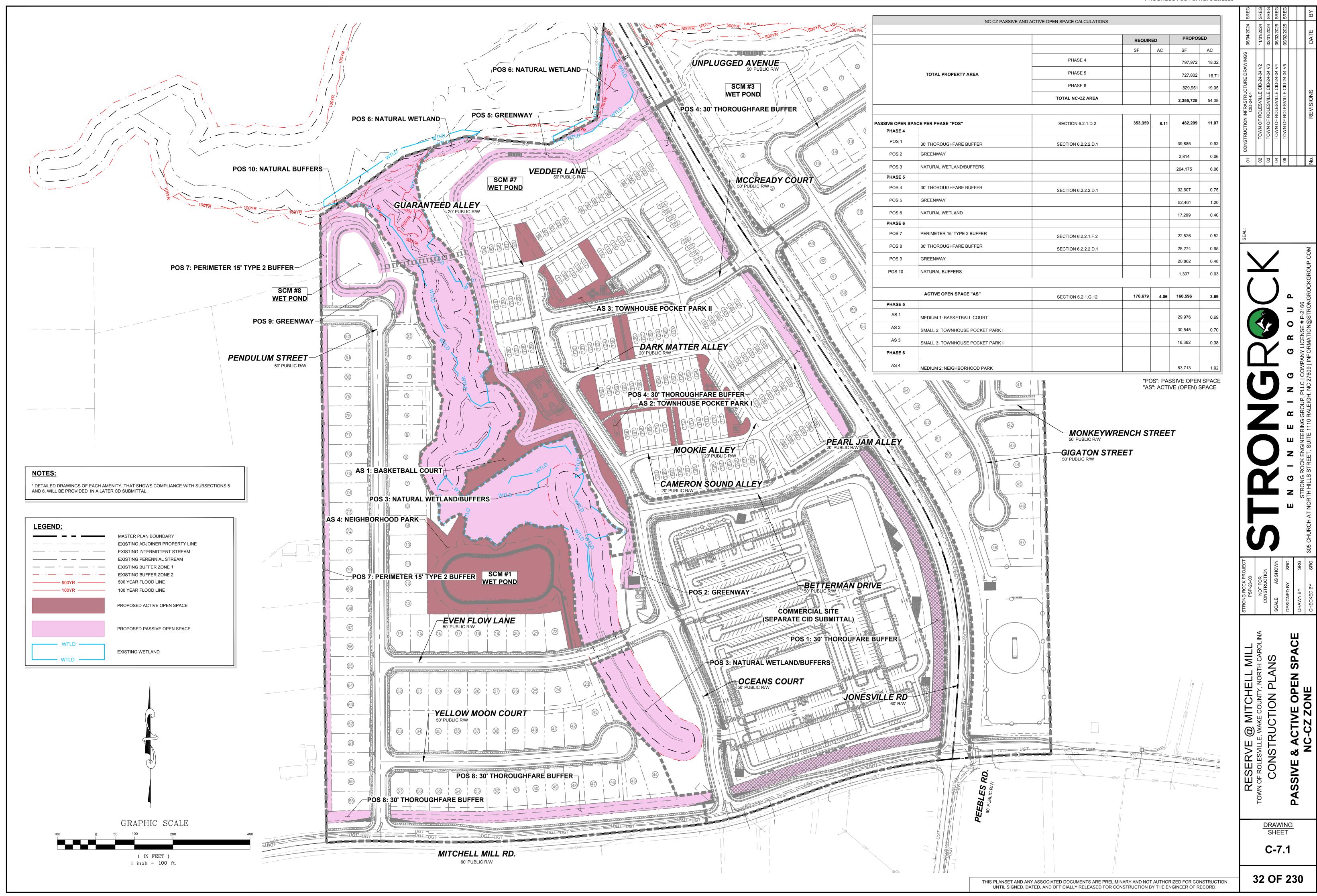
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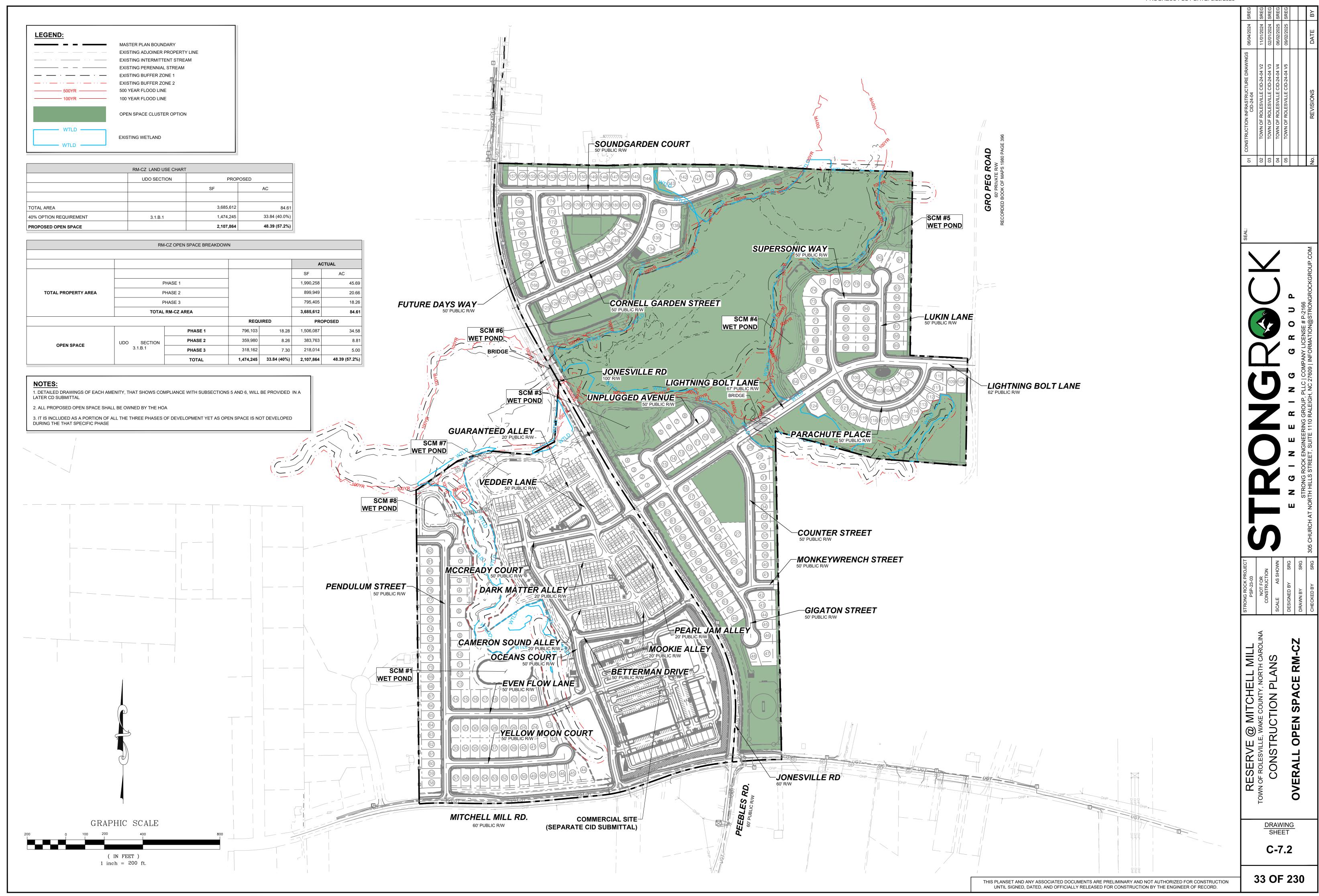
RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS
SITE TABLES - RM ZONE

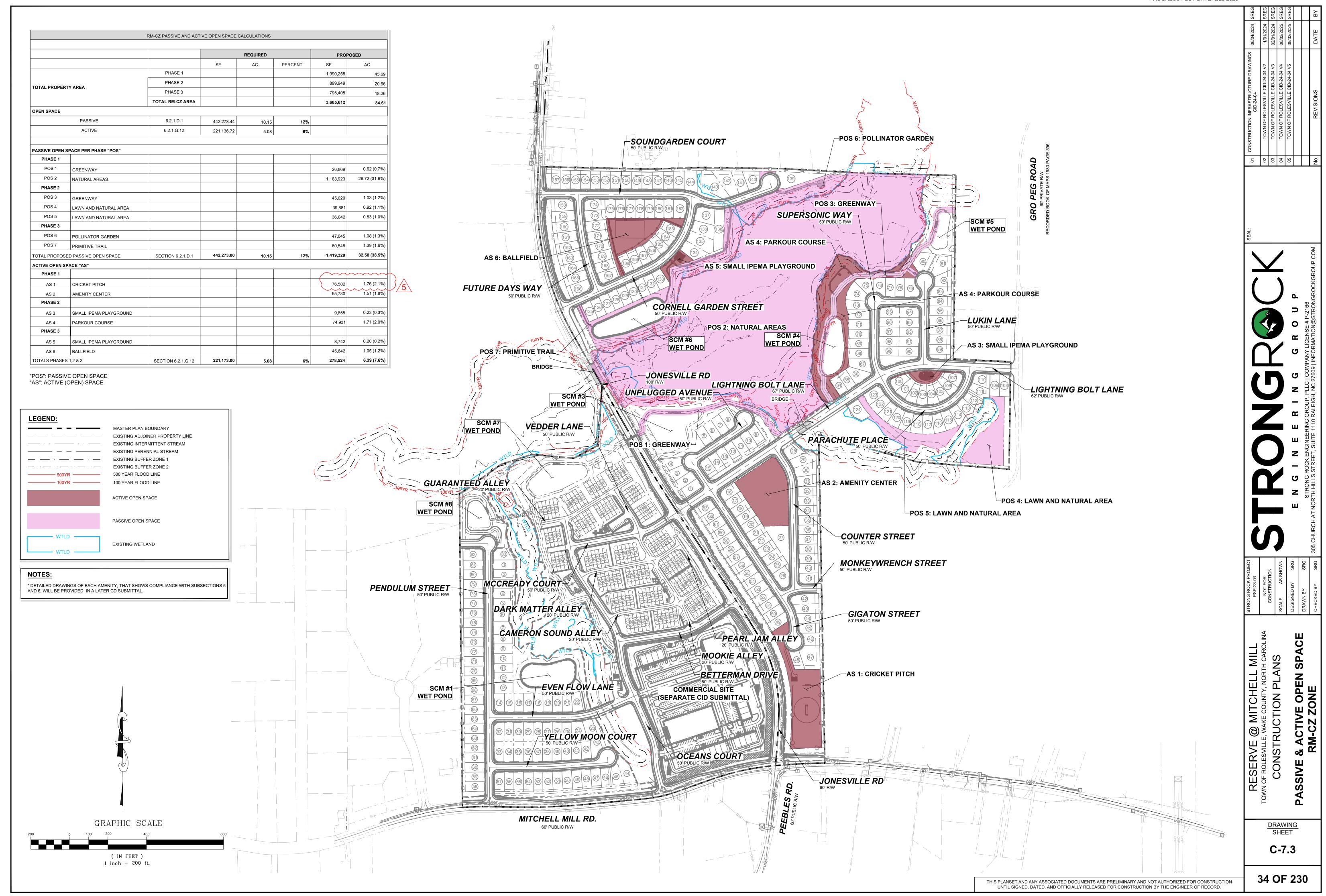
DRAWING SHEET

C-6.12









UTILITY NOTES

CONSTRUCTION.

- ALL UTILITY DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES (CORDPU) STANDARDS AND SPECIFICATIONS. UTILITY DESIGN SHALL ALSO MEET FIRE FLOW REQUIREMENTS OF NCFC.
- UTILITY SIZES AND LOCATIONS ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY AND ARE SUBJECT TO CHANGE BASED ON FINAL DESIGN AND CONSTRUCTION DRAWING APPROVAL. THIS SHALL INCLUDE BUT NOT LIMITED TO FIRE HYDRANT LOCATIONS.
- 3. ANY EXISTING WATER AND SEWER LINES TO BE USED AS PART OF THE FINAL DESIGN OF THE PROJECT, SHALL BE LOCATED BY SURVEY, TESTED BY A LICENSED CONTRACTOR AND APPROVED BY THE CITY OF RALEIGH INSPECTOR PRIOR TO SUBMITTAL OF CONSTRUCTION DRAWINGS.
- AS PART OF CONSTRUCTION DRAWING SUBMITTAL, FIRE FLOW CALCULATIONS SHALL BE PROVIDED SHOWING COMPLIANCE WITH NCFC. PROJECT MAY BE DEVELOPED IN PHASES AND ALL PHASES SHALL BE REQUIRED TO MEET THE MINIMUM REQUIRED FIRE FLOWS PER OCCUPANCY PROPOSED IN EACH PHASE.
- 5. AN APPROVED WATER SUPPLY FOR FIRE SUPPRESSION (TEMPORARY OR PERMANENT) SHALL BE PROVIDED AS SOON AS COMBUSTIBLE
- 6. UTILITY CONSTRUCTION APPROVAL IS REQUIRED FOR THIS PROJECT, PLANS TO BE PREPARED BY NC PROFESSIONAL ENGINEER.
- 7. RIGHT OF WAY AND/OR EASEMENT DEDICATION PLAT IS REQUIRED FOR THIS PROJECT (PRIOR TO CITY ACCEPTANCE OF UTILITIES).
- 8. ALL NECESSARY WETLAND, RIPARIAN BUFFER AND FLOODPLAIN PERMITS FROM USACE, NCDWQ & FEMA SHALL BE OBTAINED PRIOR TO

11. ALL MAINS UP TO 12 INCHES IN SIZE SHALL BE DESIGNED WITH A BLOW-OFF ASSEMBLY THE SAME SIZE AS THE DIAMETER OF THE PIPE.

- 9. PROJECT SHALL EXTEND PUBLIC WATER MAINS ALONG ALL INTERIOR AND ABUTTING RIGHT OF WAYS OF DEVELOPMENT.
- 10. FIRE HYDRANT ASSEMBLIES SHALL BE INSTALLED AT EVERY INTERSECTION AND AT 500' (RESIDENTIAL) MAX INTERVALS ALONG SITE FRONTAGE.
- 12. ALL WATER MAINS SHALL BE PRESSURE CLASS OR THICKNESS CLASS DUCTILE IRON PIPE DESIGNED IN ACCORDANCE WITH AWWA STANDARD
- 13. PROJECT SHALL EXTEND PUBLIC GRAVITY SEWER TO PERIPHERY OF DEVELOPMENT BASED ON NATURAL TOPOGRAPHY.
- 14. ALL CITY OF RALEIGH SANITARY SEWER EASEMENTS SHALL BE A MINIMUM OF 30 FEET.
- 15. THE SANITARY SEWER DESIGN SHALL BE EVALUATED DURING THE CONSTRUCTION DRAWING REVIEW TO ENSURE ADJACENT PROPERTIES HAVE ACCESS TO SANITARY SEWER WHERE FEASIBLE AND IN COMPLIANCE WITH THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT STANDARDS AND SPECIFICATIONS.
- 16. ALL OFF-SITE EASEMENTS SHALL BE ACQUIRED BY THE DEVELOPER. THESE OFF-SITE EASEMENTS SHALL BE RECORDED BY MAP AND BY DEED OF EASEMENT PRIOR TO CONSTRUCTION APPROVAL. THE EASEMENTS SHALL BE DEDICATED TO THE CITY OF RALEIGH AND ENTITLED "CITY OF RALEIGH SANITARY SEWER EASEMENT".
- 17. MAINTAIN APPROPRIATE COVER AND SEPARATION ON UTILITIES AND LABEL IN PROFILES; ANY UTILITY CROSSINGS ARE SUBJECT TO MINIMUM REQUIREMENTS
- 18. CONSTRUCTION APPROVAL WILL BE REQUIRED FOR ANY EXTENSIONS OF PUBLIC WATER OR SEWER MAINS.
- 19. PLAT RECORDATION REQUIRED AFTER CONSTRUCTION APPROVAL PRIOR TO BUILDING PERMIT.
- 20. DOT ENCROACHMENT AGREEMENT REQUIRED.
- 21. PRIVATE WATER SERVICES SIZED 34" 2" SHOULD BE TYPE "K" SOFT COPPER AND IN ACCORDANCE WITH PU HANDBOOK, APP. B, STANDARD WATER DETAIL W-23 AND W-25. IF WATER METERS CANNOT BE LOCATED WITHIN THE RIGHT-OF-WAY THEY MUST BE WITHIN RECORDED "CITY OF RALEIGH WATERLINE EASEMENTS.

STANDARD UTILITY NOTES:

• UTILITY PLAN(S) FOR CITY OF RALEIGH AND MERGER TOWNS

STANDARD UTILITY NOTES :

- . ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: CORPUD HANDBOOK, CURRENT EDITION)
- a. A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATERAL SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS THAN 25' FROM A PRIVATE WELL OR 50' FROM A PUBLIC WELL.
- b. WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER & MUST BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR. ALL
- DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER.
 c. WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATERMAIN, DIP MATERIALS OR
- STEEL ENCASEMENT EXTENDED 10' ON EACH SIDE OF CROSSING MUST BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS.

 d. 5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER
- SPECIFIED FOR SANITARY SEWER

 e. MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORMDRAIN CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A
- CONCRETE CRADLE HAVING 6" MIN. CLEARANCE (PER CORPUD DETAILS W- 41 & S-49).

 f. ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18" MIN. VERTICAL SEPARATION REQUIRED.

 3. ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY THE CITY OF RALEIGH PUBLIC
- UTILITIES DEPARTMENT PRIOR TO CONSTRUCTION.
 4. DEVELOPER SHALL PROVIDE 30 DAYS ADVANCE WRITTEN NOTICE TO OWNER FOR ANY WORK REQUIRED WITHIN AN EXISTING CITY OF RALEIGH
 UTILITY EASEMENT TRAVERSING PRIVATE PROPERTY.
- 5. CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24-HOUR ADVANCE NOTICE TO THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT.
- 6. SEWER BYPASS PUMPING A BYPASS PLAN SEALED BY AN NC PROFESSIONAL ENGINEER SHALL BE PROVIDED TO RALEIGH WATER PRIOR TO PUMPING OPERATIONS FOR APPROVAL. THE OPERATIONS AND EQUIPMENT SHALL COMPLY WITH THE PUBLIC UTILITIES HANDBOOK.
- 7. 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCE MAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS.

 8. IT IS THE DEVELOPER'S RESPONSIBILITY TO ABANDON OR REMOVE EXISTING WATER & SEWER SERVICES NOT BEING USED IN REDEVELOPMENT OF A
- SITE UNLESS OTHERWISE DIRECTED BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT. THIS INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF SERVICE FROM ROW OR EASEMENT PER CORPUD HANDBOOK PROCEDURE.
- 9. INSTALL WATER SERVICES WITH METERS LOCATED AT ROW OR WITHIN A 2'X2' WATERLINE EASEMENT IMMEDIATELY ADJACENT.

 NOTE: IT IS THE APPLICANT'S RESPONSIBILITY TO PROPERLY SIZE THE WATER SERVICE FOR EACH CONNECTION TO PROVIDE ADEQUATE FLOW &
- PERMIT. 11. PRIVATE SEWER MAINS AS PART OF A COLLECTION SYSTEM ARE PERMITTED AND INSPECTED UNDER THE PRIVATE INFRASTRUCTURE PERMIT FOR

IO.INSPECTIONS OF 4" AND LARGER WATER MAINS OF THE PRIVATE DISTRIBUTION SYSTEM WILL BE INSPECTED AS PART OF THE INFRASTRUCTURE

SEWER.

12. ANY WATER OR SEWER SERVICES ON PRIVATE PROPERTY THAT WILL BE INSTALLED UNDER CONSTRUCTION DRAWINGS MAY REQUIRE A PLUMBING

UTILITY PERMIT IN THE CITY OF RALEIGH. CONSULT WITH THE ENGINEERING INSPECTION COORDINATOR DURING THE PRE-CONSTRUCTION MEETING

- 13. INSTALL SEWER SERVICES WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED PER THE CURRENT NC PLUMBING CODE.

 14. PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI: BACKWATER VALVES ARE REQUIRED ON ALL SANITARY
- 14. PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI; BACKWATER VALVES ARE REQUIRED ON ALL SANITARY SEWER SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0' ABOVE THE NEXT UPSTREAMMANHOLE.
- 15. ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDWQ, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS (RESPECTIVELY) PRIOR TO CONSTRUCTION.

 16. NCDOT / RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN
- STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION.

 17. GREASE INTERCEPTOR / OIL WATER SEPARATOR SIZING CALCULATIONS & INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY THE RW FOG
- PROGRAM COORDINATOR PRIOR TO ISSUANCE OF A UC AND/OR BUILDING PERMIT. CONTACT (919) 996-4516 OR fog@raleighnc.gov FOR MORE INFORMATION.
- 18. CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON THE DEGREE OF HEALTH HAZARD INVOLVED AS LISTED IN
- APPENDIX B OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NORTH CAROLINA.

 19. THE DEVICES SHALL MEET THE AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS AND BE ON THE UNIVERSITY OF SOUTHERN CALIFORNIA APPROVAL LIST.
- 20. THE DEVICE AND INSTALLATION SHALL MEET THE GUIDELINES OF APPENDIX A GUIDELINES AND REQUIREMENTS FOR THE CROSS CONNECTION PROGRAM IN RALEIGH'S SERVICE AREA.
- 21.THE DEVICES SHALL BE INSTALLED AND TESTED (BOTH, INITIAL AND PERIODIC TESTING THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR THE LOCAL CROSS CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT. CONTACT Cross.connection@raleighnc.gov FOR MORE INFORMATION.

LEGEND:

22.NOTICE FOR PROJECTS THAT INVOLVE AN OVERSIZED MAIN OR URBAN MAIN REPLACEMENT. ANY CITY REIMBURSEMENT GREATER THAN \$250,000.00 MUST UNDERGO THE PUBLIC BIDDING PROCESS.

23.PRIVATE SUB-METERING - NO RESALE OF WATER SHALL OCCUR WITHOUT APPROVAL OF THE NORTH CAROLINA UTILITY COMMISSION.

BUBLIO

SUB-METERING SHALL BE IN ACCORDANCE WITH SECTION 1400 OF THE "SAFE DRINKING WATER ACT".

PUBLIC WATER DISTRIBUTION / EXTENSION SYSTEM

THE CITY OF RALEIGH CONSENTS TO THE CONNECTION AND EXTENSION OF THE CITY'S PUBLIC WATER SYSTEM AS SHOWN ON THIS PLAN. THE MATERIAL AND CONSTRUCTION METHODS USED FOR THIS PROJECT SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY'S PUBLIC UTILITIES HANDBOOK.

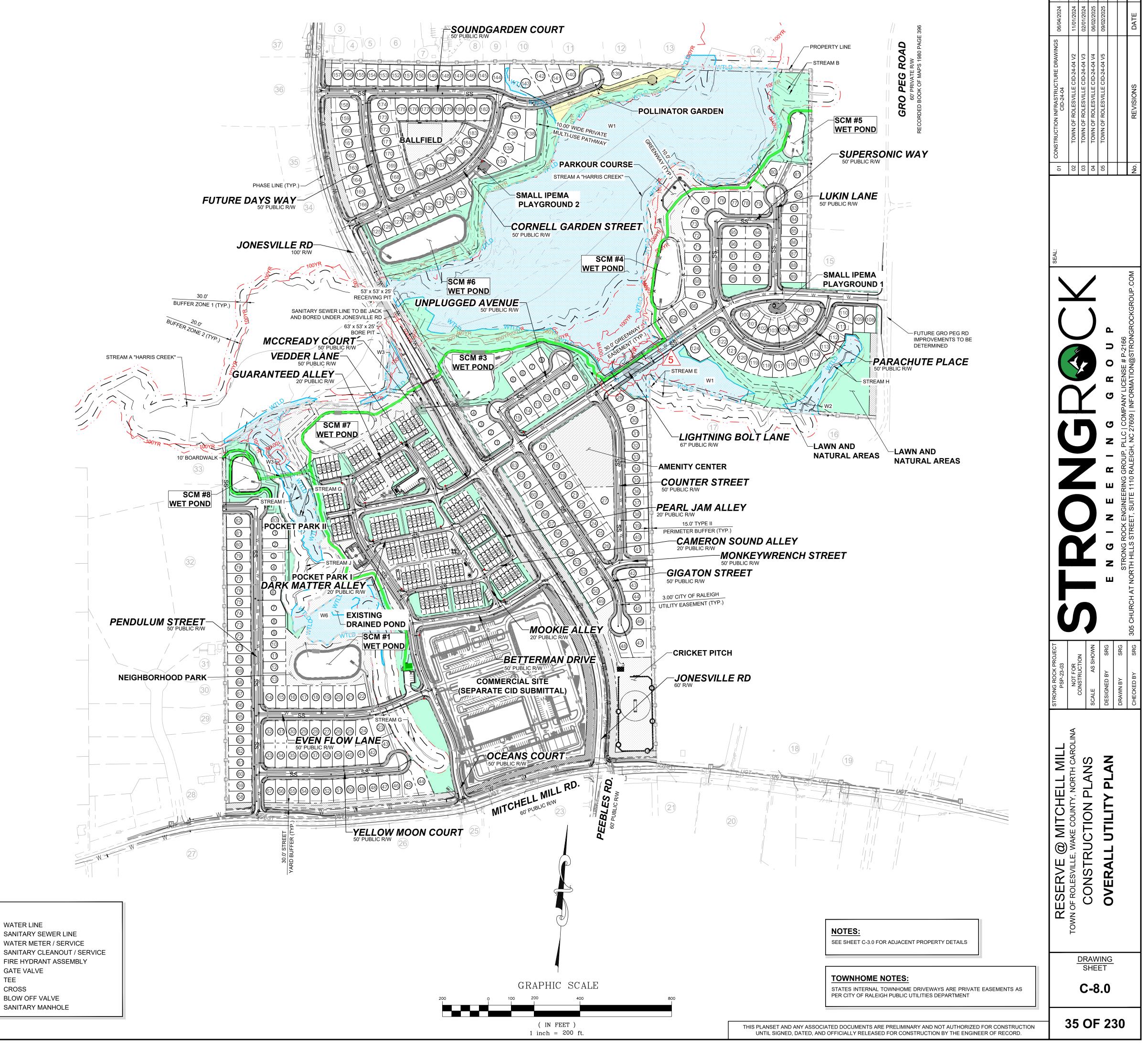
CITY OF RALEIGH
PUBLIC UTILITIES DEPARTMENT PERMIT #

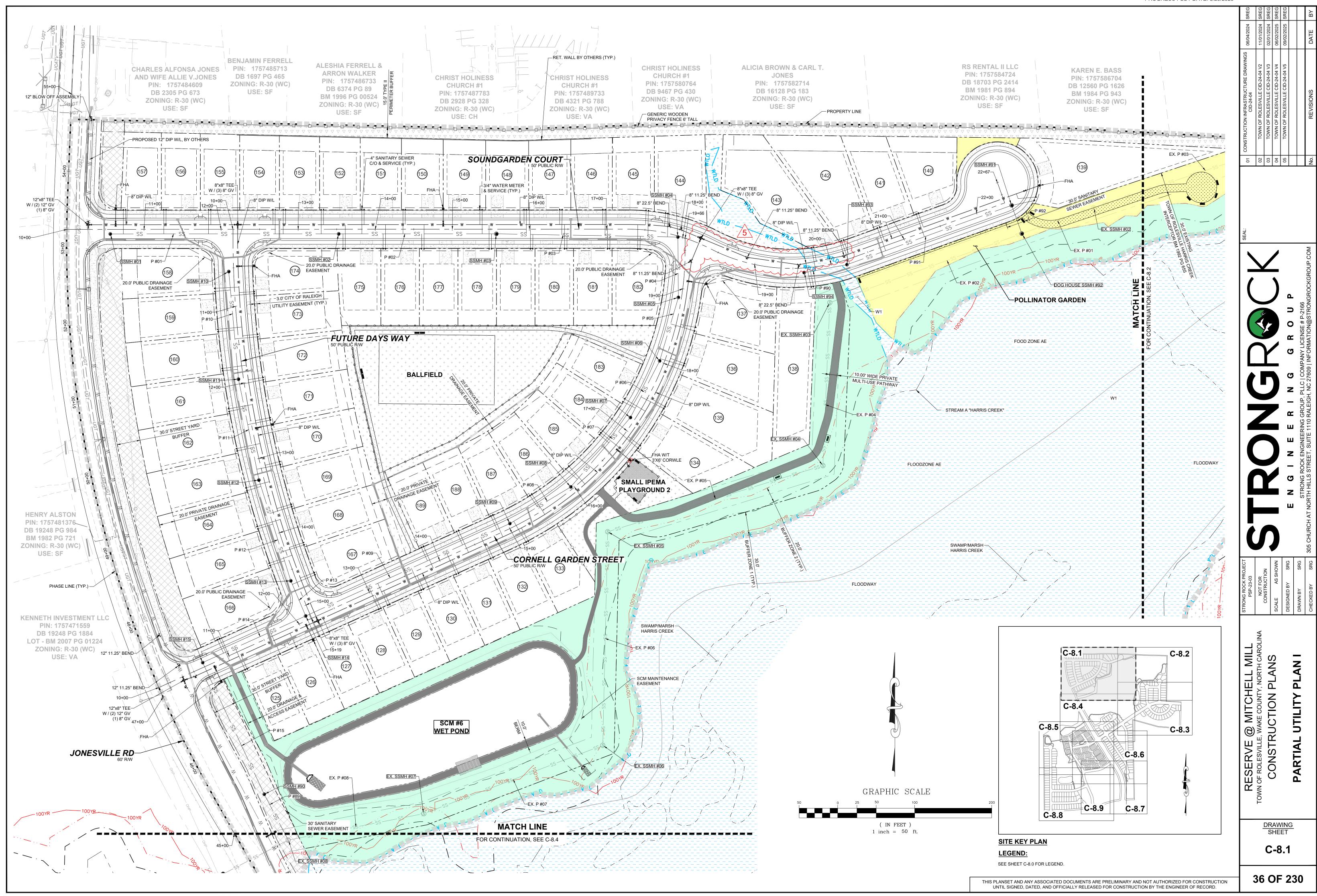
PUBLIC

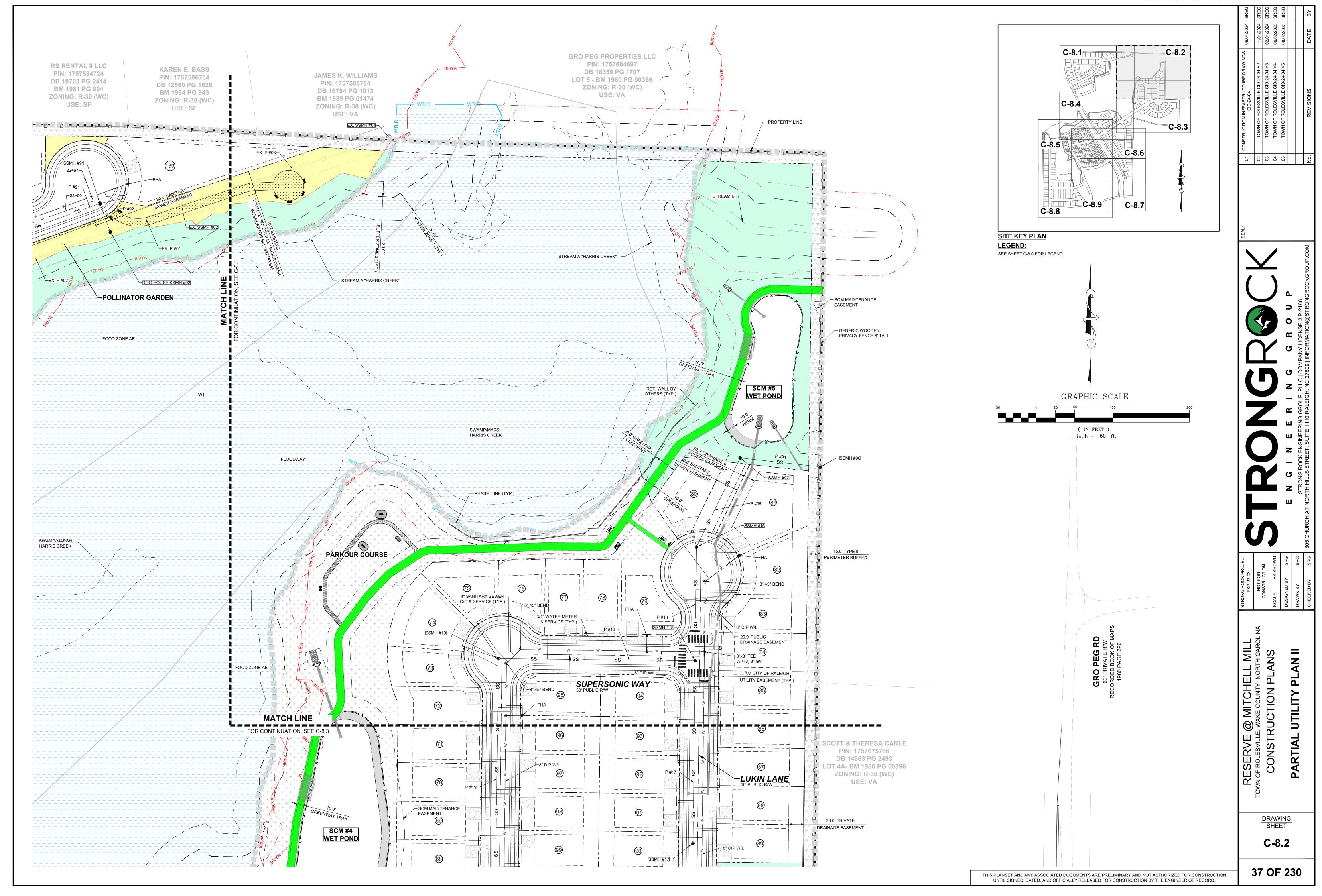
SEWER COLLECTION / EXTENSION SYSTEM

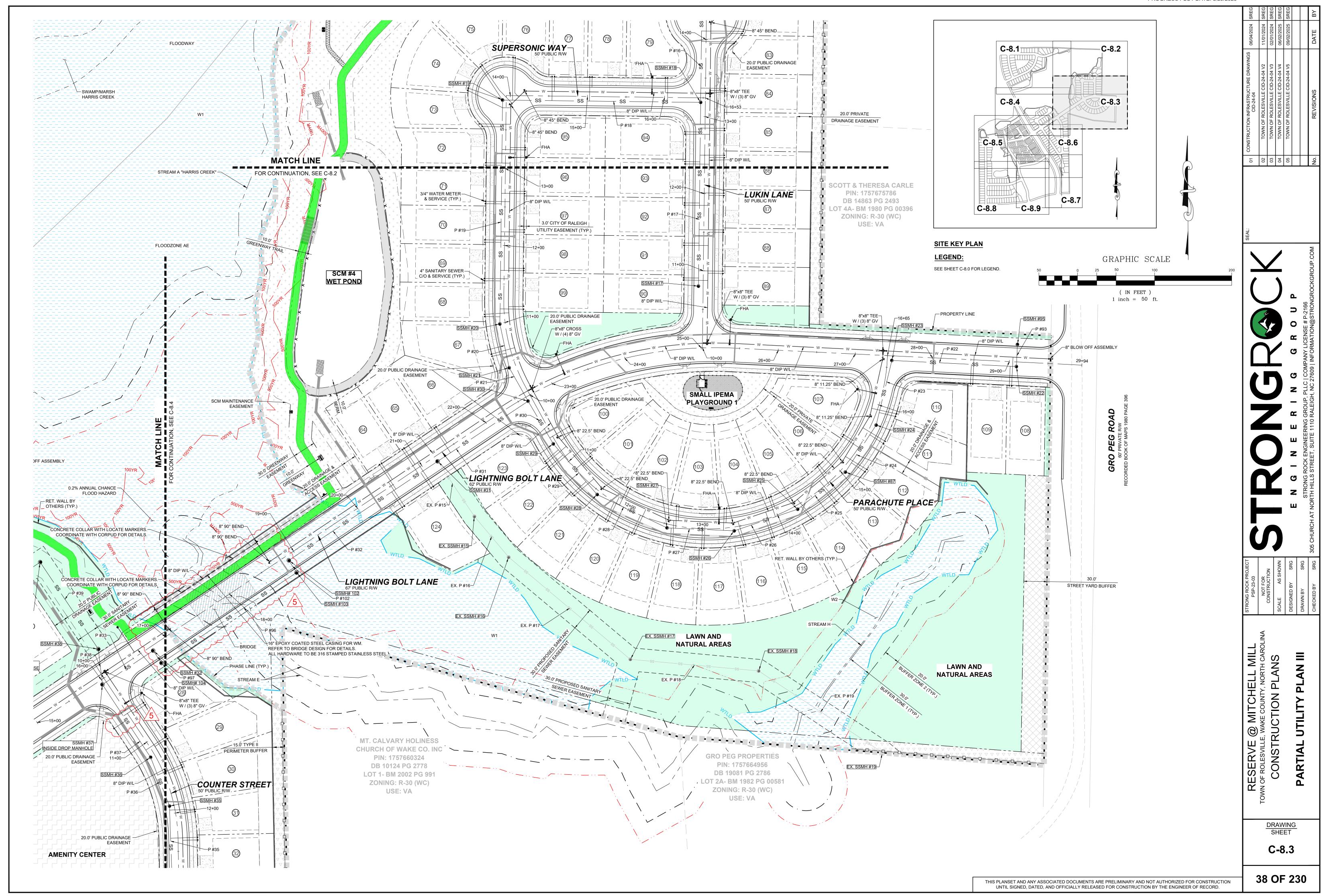
THE CITY OF RALEIGH CONSENTS TO THE CONNECTION AND EXTENSION OF THE CITY'S PUBLIC SEWER SYSTEM AS SHOWN ON THIS PLAN. THE MATERIAL AND CONSTRUCTION METHODS USED FOR THIS PROJECT SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY'S PUBLIC UTILITIES HANDBOOK.

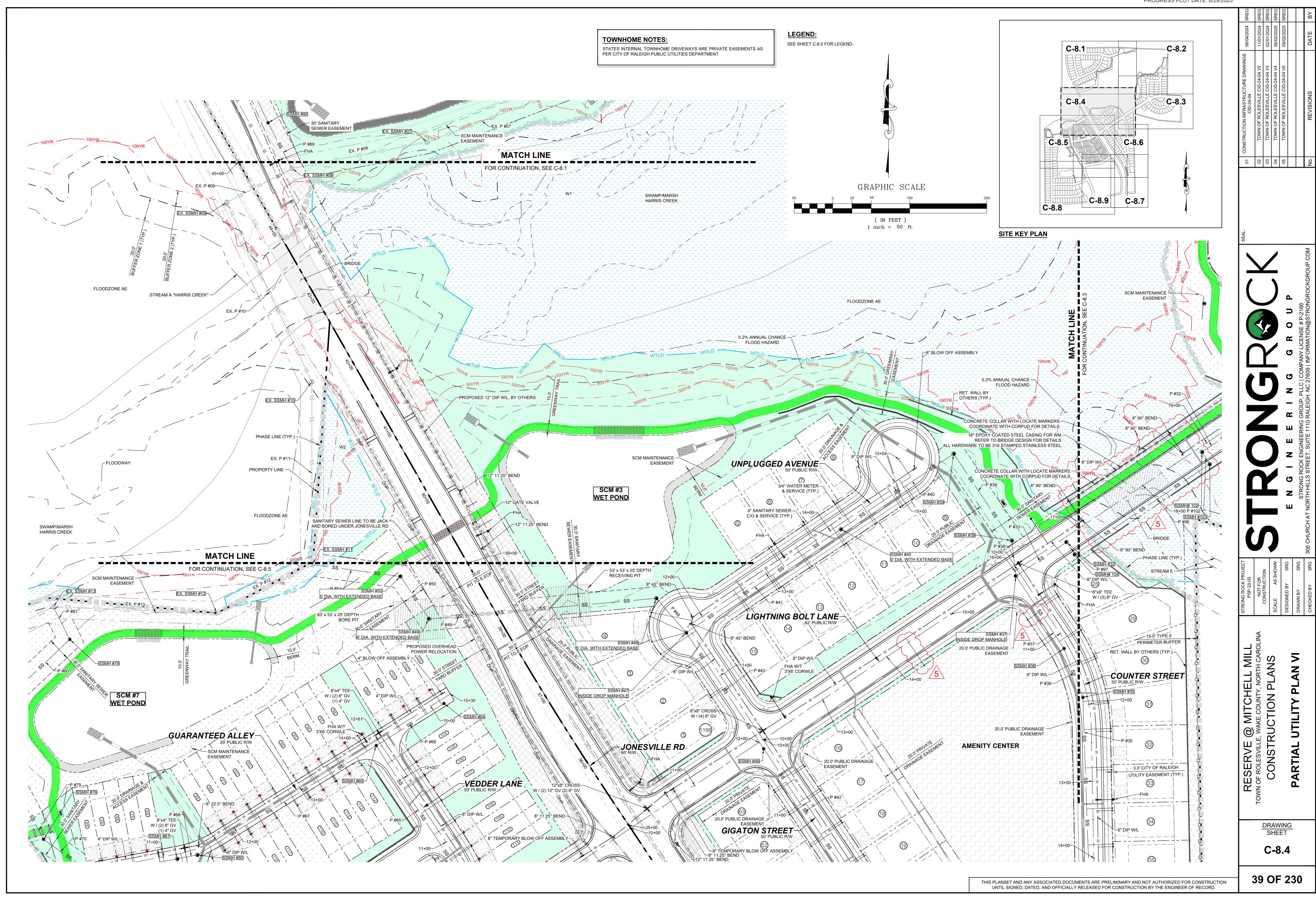
CITY OF RALEIGH
PUBLIC UTILITIES DEPARTMENT PERMIT # _

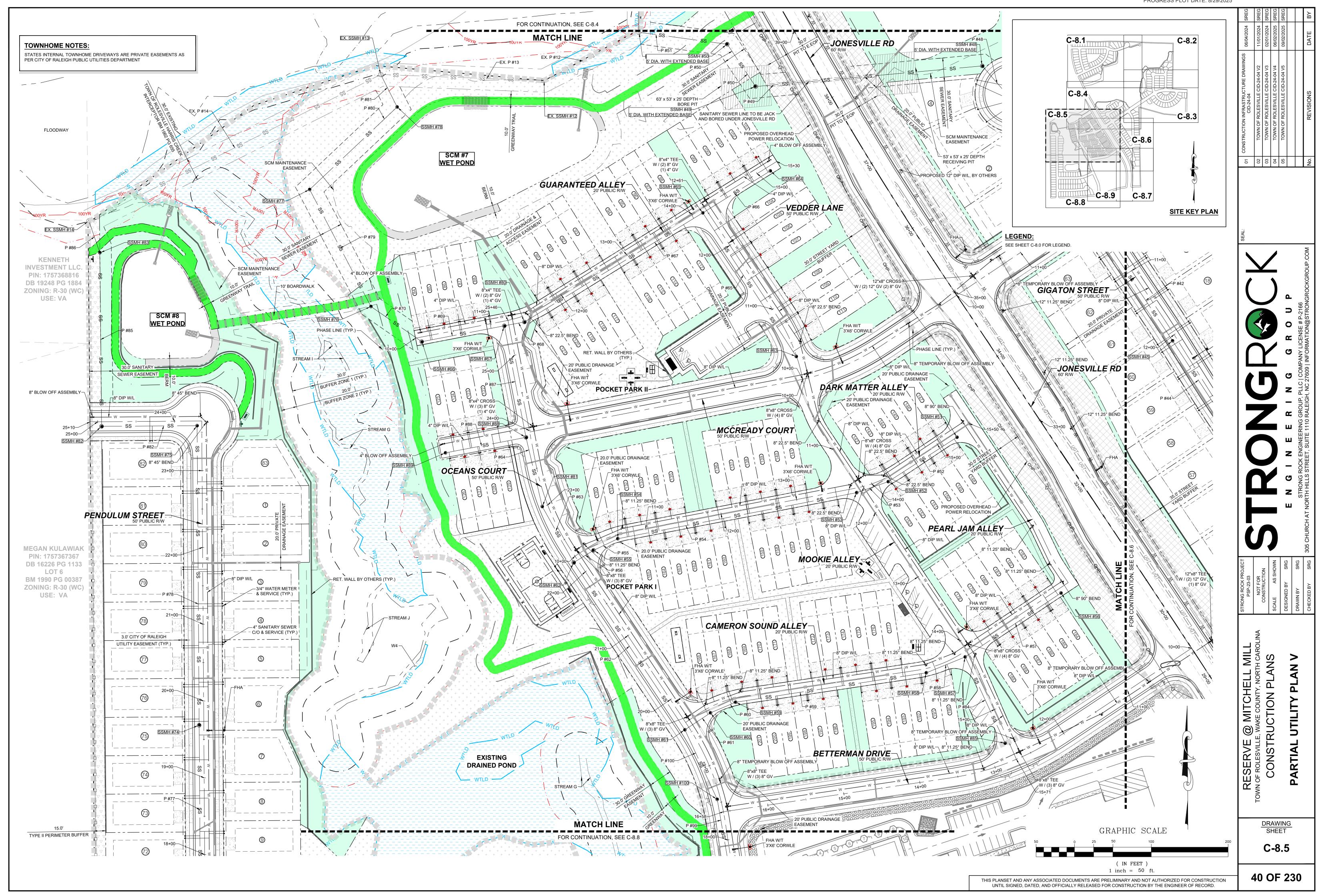


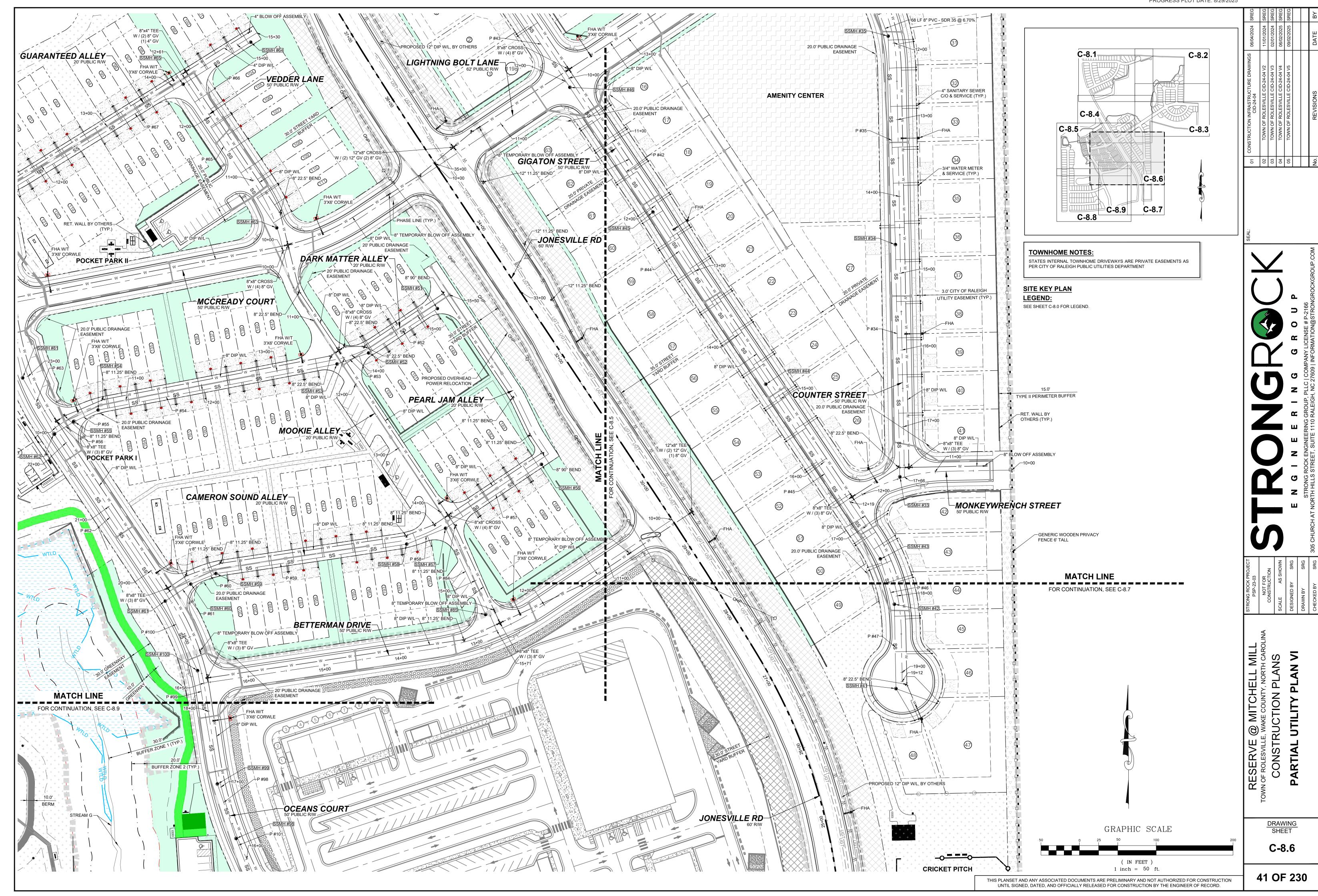


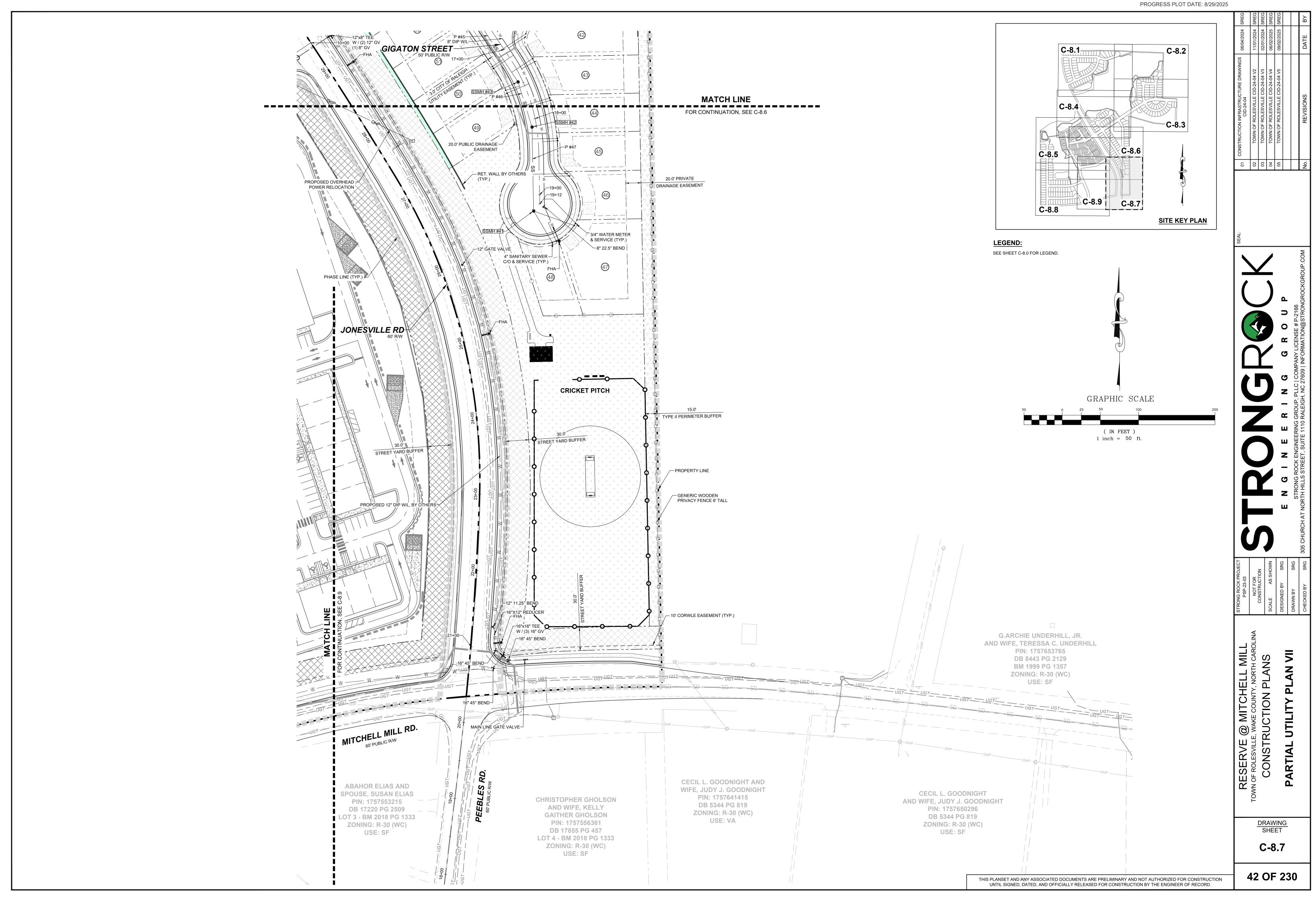


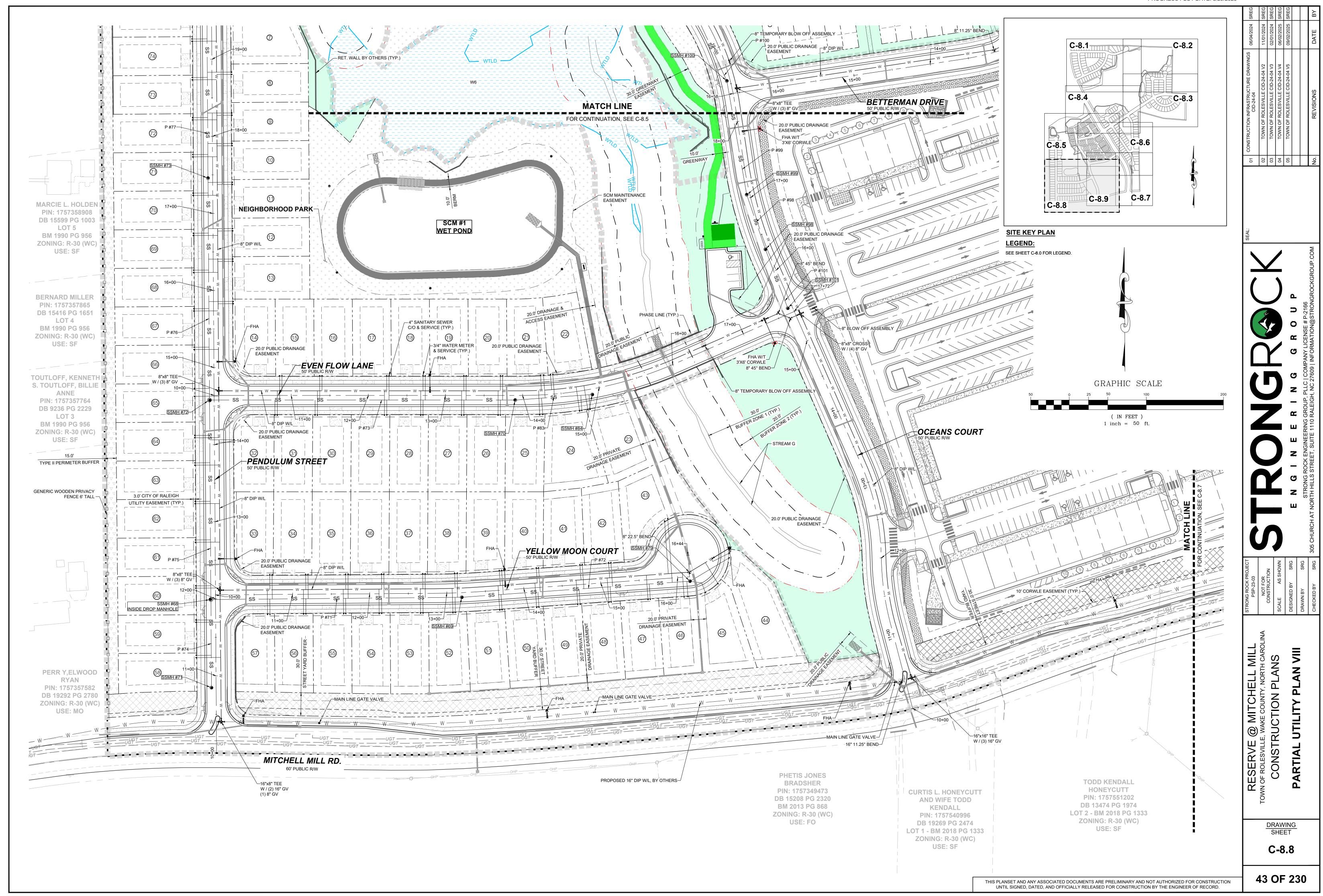


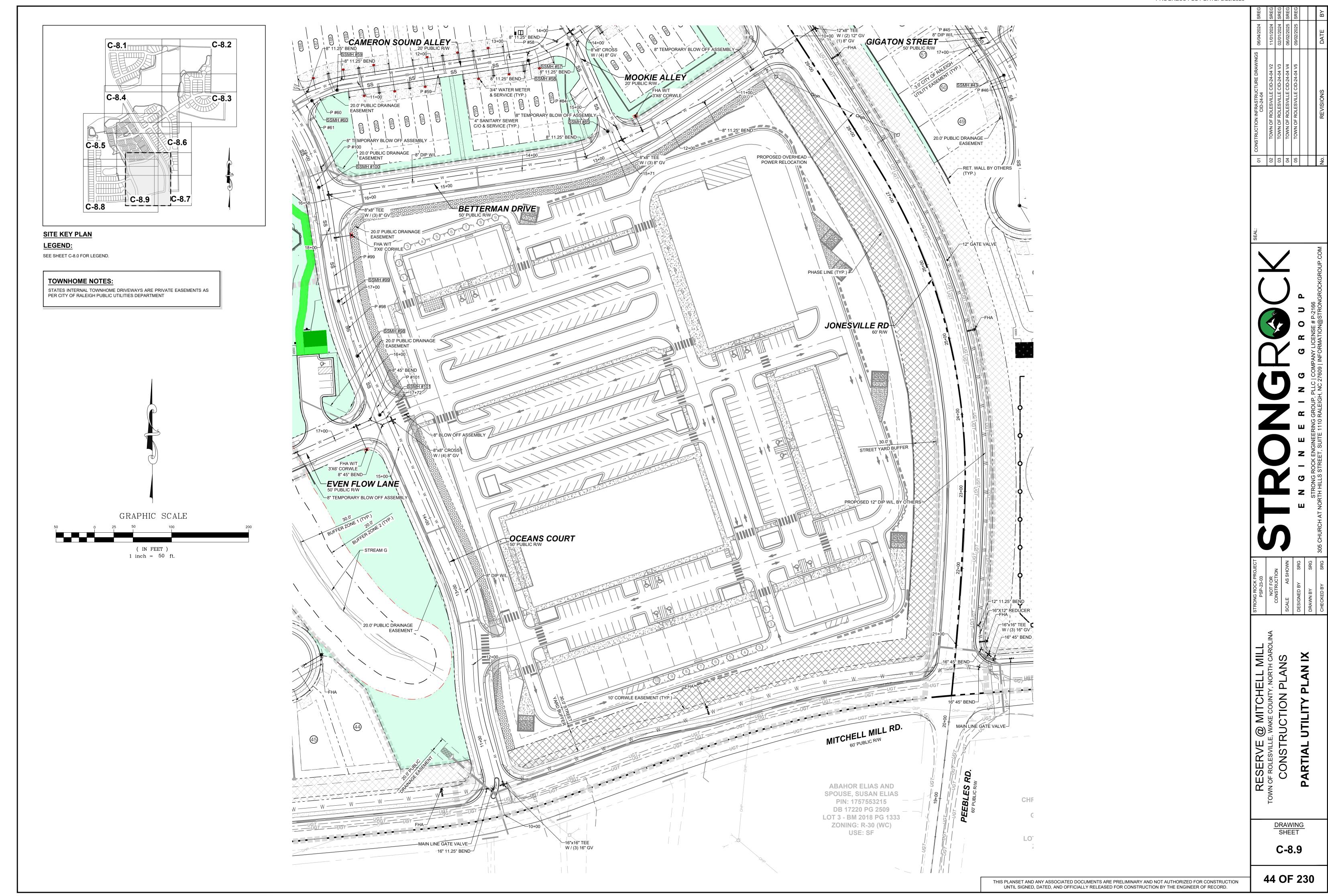












PIPE TABLE PIPE NO TYPE							
P#01 PVC - SDR 35 8" 296 252.37 250.89 0.50% P#02 PVC - SDR 26 8" 205 250.69 249.67 0.50% P#03 PVC - SDR 26 8" 235 249.47 245.88 1.52% P#04 PVC - SDR 35 8" 78 245.68 242.01 4.69% P#05 PVC - SDR 35 8" 86 241.81 241.38 0.50% P#06 PVC - SDR 35 8" 83 241.18 240.76 0.50% P#07 PVC - SDR 35 8" 119 240.56 239.97 0.50% P#08 PVC - SDR 35 8" 92 239.77 239.31 0.50% P#09 PVC - SDR 35 8" 291 237.87 236.42 0.50% P#10 PVC - SDR 35 8" 140 250.07 243.42 4.74% P#11 PVC - SDR 35 8" 137 238.49 237.81 0.50% P#12			PIPE	TABL	Ξ		
P#02 PVC - SDR 26 8" 205 250.69 249.67 0.50% P#03 PVC - SDR 26 8" 235 249.47 245.88 1.52% P#04 PVC - SDR 35 8" 78 245.68 242.01 4.69% P#05 PVC - SDR 35 8" 86 241.81 241.38 0.50% P#06 PVC - SDR 35 8" 83 241.18 240.76 0.50% P#07 PVC - SDR 35 8" 119 240.56 239.97 0.50% P#08 PVC - SDR 35 8" 92 239.77 239.31 0.50% P#09 PVC - SDR 35 8" 92 239.77 239.31 0.50% P#10 PVC - SDR 35 8" 140 250.07 243.42 4.74% P#11 PVC - SDR 35 8" 134 243.22 238.69 3.39% P#12 PVC - SDR 35 8" 137 238.49 237.81 0.50% P#13	PIPE NO	TYPE	SIZE	LF	INV. IN	INV. OUT	GRADE
P#03 PVC - SDR 26 8" 235 249.47 245.88 1.52% P#04 PVC - SDR 35 8" 78 245.68 242.01 4.69% P#05 PVC - SDR 35 8" 86 241.81 241.38 0.50% P#06 PVC - SDR 35 8" 83 241.18 240.76 0.50% P#07 PVC - SDR 35 8" 119 240.56 239.97 0.50% P#08 PVC - SDR 35 8" 92 239.77 239.31 0.50% P#09 PVC - SDR 35 8" 291 237.87 236.42 0.50% P#10 PVC - SDR 35 8" 140 250.07 243.42 4.74% P#11 PVC - SDR 35 8" 134 243.22 238.69 3.39% P#12 PVC - SDR 35 8" 137 238.49 237.81 0.50% P#13 PVC - SDR 35 8" 147 236.22 232.44 2.58% P#15	P #01	PVC - SDR 35	8"	296	252.37	250.89	0.50%
P#04 PVC - SDR 35 8" 78 245.68 242.01 4.69% P#05 PVC - SDR 35 8" 86 241.81 241.38 0.50% P#06 PVC - SDR 35 8" 83 241.18 240.76 0.50% P#07 PVC - SDR 35 8" 119 240.56 239.97 0.50% P#08 PVC - SDR 35 8" 92 239.77 239.31 0.50% P#09 PVC - SDR 35 8" 92 237.87 236.42 0.50% P#10 PVC - SDR 35 8" 140 250.07 243.42 4.74% P#11 PVC - SDR 35 8" 134 243.22 238.69 3.39% P#12 PVC - SDR 35 8" 137 238.49 237.81 0.50% P#13 PVC - SDR 35 8" 147 236.22 232.44 2.58% P#14 PVC - SDR 35 8" 147 236.22 232.44 2.58% P#15	P #02	PVC - SDR 26	8"	205	250.69	249.67	0.50%
P#05 PVC - SDR 35 8" 86 241.81 241.38 0.50% P#06 PVC - SDR 35 8" 83 241.18 240.76 0.50% P#07 PVC - SDR 35 8" 119 240.56 239.97 0.50% P#08 PVC - SDR 35 8" 92 239.77 239.31 0.50% P#09 PVC - SDR 35 8" 291 237.87 236.42 0.50% P#10 PVC - SDR 35 8" 140 250.07 243.42 4.74% P#11 PVC - SDR 35 8" 134 243.22 238.69 3.39% P#12 PVC - SDR 35 8" 137 238.49 237.81 0.50% P#13 PVC - SDR 35 8" 50 237.61 236.60 2.03% P#14 PVC - SDR 35 8" 147 236.22 232.44 2.58% P#15 PVC - SDR 35 8" 189 232.24 231.29 0.50% P#17	P #03	PVC - SDR 26	8"	235	249.47	245.88	1.52%
P#06 PVC - SDR 35 8" 83 241.18 240.76 0.50% P#07 PVC - SDR 35 8" 119 240.56 239.97 0.50% P#08 PVC - SDR 35 8" 92 239.77 239.31 0.50% P#09 PVC - SDR 35 8" 291 237.87 236.42 0.50% P#10 PVC - SDR 35 8" 140 250.07 243.42 4.74% P#11 PVC - SDR 35 8" 134 243.22 238.69 3.39% P#12 PVC - SDR 35 8" 137 238.49 237.81 0.50% P#13 PVC - SDR 35 8" 50 237.61 236.60 2.03% P#14 PVC - SDR 35 8" 147 236.22 232.44 2.58% P#15 PVC - SDR 35 8" 189 232.24 231.29 0.50% P#16 PVC - SDR 35 8" 149 251.98 251.24 0.50% P#17	P #04	PVC - SDR 35	8"	78	245.68	242.01	4.69%
P#07 PVC - SDR 35 8" 119 240.56 239.97 0.50% P#08 PVC - SDR 35 8" 92 239.77 239.31 0.50% P#09 PVC - SDR 35 8" 291 237.87 236.42 0.50% P#10 PVC - SDR 35 8" 140 250.07 243.42 4.74% P#11 PVC - SDR 35 8" 134 243.22 238.69 3.39% P#12 PVC - SDR 35 8" 137 238.49 237.81 0.50% P#13 PVC - SDR 35 8" 50 237.61 236.60 2.03% P#14 PVC - SDR 35 8" 147 236.22 232.44 2.58% P#15 PVC - SDR 35 8" 189 232.24 231.29 0.50% P#16 PVC - SDR 35 8" 149 251.98 251.24 0.50% P#17 PVC - SDR 35 8" 238 257.50 251.55 2.49% P#18	P #05	PVC - SDR 35	8"	86	241.81	241.38	0.50%
P #08 PVC - SDR 35 8" 92 239.77 239.31 0.50% P #09 PVC - SDR 35 8" 291 237.87 236.42 0.50% P #10 PVC - SDR 35 8" 140 250.07 243.42 4.74% P #11 PVC - SDR 35 8" 134 243.22 238.69 3.39% P #12 PVC - SDR 35 8" 137 238.49 237.81 0.50% P #13 PVC - SDR 35 8" 50 237.61 236.60 2.03% P #14 PVC - SDR 35 8" 147 236.22 232.44 2.58% P #15 PVC - SDR 35 8" 189 232.24 231.29 0.50% P #16 PVC - SDR 35 8" 149 251.98 251.24 0.50% P #17 PVC - SDR 35 8" 238 257.50 251.55 2.49% P #18 PVC - SDR 35 8" 257 251.04 249.76 0.50% P	P #06	PVC - SDR 35	8"	83	241.18	240.76	0.50%
P#09 PVC - SDR 35 8" 291 237.87 236.42 0.50% P#10 PVC - SDR 35 8" 140 250.07 243.42 4.74% P#11 PVC - SDR 35 8" 134 243.22 238.69 3.39% P#12 PVC - SDR 35 8" 137 238.49 237.81 0.50% P#13 PVC - SDR 35 8" 50 237.61 236.60 2.03% P#14 PVC - SDR 35 8" 147 236.22 232.44 2.58% P#15 PVC - SDR 35 8" 189 232.24 231.29 0.50% P#16 PVC - SDR 35 8" 149 251.98 251.24 0.50% P#17 PVC - SDR 35 8" 238 257.50 251.55 2.49% P#18 PVC - SDR 35 8" 257 251.04 249.76 0.50% P#20 PVC - SDR 35 8" 290 249.56 245.97 1.23% P#21	P #07	PVC - SDR 35	8"	119	240.56	239.97	0.50%
P #10 PVC - SDR 35 8" 140 250.07 243.42 4.74% P #11 PVC - SDR 35 8" 134 243.22 238.69 3.39% P #12 PVC - SDR 35 8" 137 238.49 237.81 0.50% P #13 PVC - SDR 35 8" 50 237.61 236.60 2.03% P #14 PVC - SDR 35 8" 147 236.22 232.44 2.58% P #15 PVC - SDR 35 8" 189 232.24 231.29 0.50% P #16 PVC - SDR 35 8" 149 251.98 251.24 0.50% P #17 PVC - SDR 35 8" 238 257.50 251.55 2.49% P #18 PVC - SDR 35 8" 257 251.04 249.76 0.50% P #19 PVC - SDR 35 8" 290 249.56 245.97 1.23% P #20 PVC - SDR 35 8" 50 243.62 241.49 4.27% P	P #08	PVC - SDR 35	8"	92	239.77	239.31	0.50%
P#11 PVC - SDR 35 8" 134 243.22 238.69 3.39% P#12 PVC - SDR 35 8" 137 238.49 237.81 0.50% P#13 PVC - SDR 35 8" 50 237.61 236.60 2.03% P#14 PVC - SDR 35 8" 147 236.22 232.44 2.58% P#15 PVC - SDR 35 8" 189 232.24 231.29 0.50% P#16 PVC - SDR 35 8" 149 251.98 251.24 0.50% P#17 PVC - SDR 35 8" 238 257.50 251.55 2.49% P#18 PVC - SDR 35 8" 257 251.04 249.76 0.50% P#19 PVC - SDR 35 8" 290 249.56 245.97 1.23% P#20 PVC - SDR 35 8" 58 245.77 243.82 3.37% P#21 PVC - SDR 35 8" 50 243.62 241.49 4.27% P#22 PVC - SDR 35 8" 86 272.62 267.66 5.74%	P #09	PVC - SDR 35	8"	291	237.87	236.42	0.50%
P#12 PVC - SDR 35 8" 137 238.49 237.81 0.50% P#13 PVC - SDR 35 8" 50 237.61 236.60 2.03% P#14 PVC - SDR 35 8" 147 236.22 232.44 2.58% P#15 PVC - SDR 35 8" 189 232.24 231.29 0.50% P#16 PVC - SDR 35 8" 149 251.98 251.24 0.50% P#17 PVC - SDR 35 8" 238 257.50 251.55 2.49% P#18 PVC - SDR 35 8" 257 251.04 249.76 0.50% P#19 PVC - SDR 35 8" 290 249.56 245.97 1.23% P#20 PVC - SDR 35 8" 58 245.77 243.82 3.37% P#21 PVC - SDR 35 8" 50 243.62 241.49 4.27% P#22 PVC - SDR 35 8" 162 280.31 272.82 4.63% P#23 PVC - SDR 35 8" 73 267.46 263.81 5.01%	P #10	PVC - SDR 35	8"	140	250.07	243.42	4.74%
P#13 PVC - SDR 35 8" 50 237.61 236.60 2.03% P#14 PVC - SDR 35 8" 147 236.22 232.44 2.58% P#15 PVC - SDR 35 8" 189 232.24 231.29 0.50% P#16 PVC - SDR 35 8" 149 251.98 251.24 0.50% P#17 PVC - SDR 35 8" 238 257.50 251.55 2.49% P#18 PVC - SDR 35 8" 257 251.04 249.76 0.50% P#19 PVC - SDR 35 8" 290 249.56 245.97 1.23% P#20 PVC - SDR 35 8" 58 245.77 243.82 3.37% P#21 PVC - SDR 35 8" 50 243.62 241.49 4.27% P#22 PVC - SDR 35 8" 162 280.31 272.82 4.63% P#23 PVC - SDR 35 8" 86 272.62 267.66 5.74% P#24	P #11	PVC - SDR 35	8"	134	243.22	238.69	3.39%
P#14 PVC - SDR 35 8" 147 236.22 232.44 2.58% P#15 PVC - SDR 35 8" 189 232.24 231.29 0.50% P#16 PVC - SDR 35 8" 149 251.98 251.24 0.50% P#17 PVC - SDR 35 8" 238 257.50 251.55 2.49% P#18 PVC - SDR 35 8" 257 251.04 249.76 0.50% P#19 PVC - SDR 35 8" 290 249.56 245.97 1.23% P#20 PVC - SDR 35 8" 58 245.77 243.82 3.37% P#21 PVC - SDR 35 8" 50 243.62 241.49 4.27% P#22 PVC - SDR 35 8" 162 280.31 272.82 4.63% P#23 PVC - SDR 35 8" 86 272.62 267.66 5.74% P#24 PVC - SDR 35 8" 73 267.46 263.81 5.01% P#25 PVC - SDR 35 8" 78 263.61 260.38 4.12%	P #12	PVC - SDR 35	8"	137	238.49	237.81	0.50%
P#15 PVC - SDR 35 8" 189 232.24 231.29 0.50% P#16 PVC - SDR 35 8" 149 251.98 251.24 0.50% P#17 PVC - SDR 35 8" 238 257.50 251.55 2.49% P#18 PVC - SDR 35 8" 257 251.04 249.76 0.50% P#19 PVC - SDR 35 8" 290 249.56 245.97 1.23% P#20 PVC - SDR 35 8" 58 245.77 243.82 3.37% P#21 PVC - SDR 35 8" 50 243.62 241.49 4.27% P#22 PVC - SDR 35 8" 162 280.31 272.82 4.63% P#23 PVC - SDR 35 8" 86 272.62 267.66 5.74% P#24 PVC - SDR 35 8" 73 267.46 263.81 5.01% P#25 PVC - SDR 35 8" 78 263.61 260.38 4.12%	P #13	PVC - SDR 35	8"	50	237.61	236.60	2.03%
P #16 PVC - SDR 35 8" 149 251.98 251.24 0.50% P #17 PVC - SDR 35 8" 238 257.50 251.55 2.49% P #18 PVC - SDR 35 8" 257 251.04 249.76 0.50% P #19 PVC - SDR 35 8" 290 249.56 245.97 1.23% P #20 PVC - SDR 35 8" 58 245.77 243.82 3.37% P #21 PVC - SDR 35 8" 50 243.62 241.49 4.27% P #22 PVC - SDR 35 8" 162 280.31 272.82 4.63% P #23 PVC - SDR 35 8" 86 272.62 267.66 5.74% P #24 PVC - SDR 35 8" 73 267.46 263.81 5.01% P #25 PVC - SDR 35 8" 78 263.61 260.38 4.12%	P #14	PVC - SDR 35	8"	147	236.22	232.44	2.58%
P #17 PVC - SDR 35 8" 238 257.50 251.55 2.49% P #18 PVC - SDR 35 8" 257 251.04 249.76 0.50% P #19 PVC - SDR 35 8" 290 249.56 245.97 1.23% P #20 PVC - SDR 35 8" 58 245.77 243.82 3.37% P #21 PVC - SDR 35 8" 50 243.62 241.49 4.27% P #22 PVC - SDR 35 8" 162 280.31 272.82 4.63% P #23 PVC - SDR 35 8" 86 272.62 267.66 5.74% P #24 PVC - SDR 35 8" 73 267.46 263.81 5.01% P #25 PVC - SDR 35 8" 78 263.61 260.38 4.12%	P #15	PVC - SDR 35	8"	189	232.24	231.29	0.50%
P #18 PVC - SDR 35 8" 257 251.04 249.76 0.50% P #19 PVC - SDR 35 8" 290 249.56 245.97 1.23% P #20 PVC - SDR 35 8" 58 245.77 243.82 3.37% P #21 PVC - SDR 35 8" 50 243.62 241.49 4.27% P #22 PVC - SDR 35 8" 162 280.31 272.82 4.63% P #23 PVC - SDR 35 8" 86 272.62 267.66 5.74% P #24 PVC - SDR 35 8" 73 267.46 263.81 5.01% P #25 PVC - SDR 35 8" 78 263.61 260.38 4.12%	P #16	PVC - SDR 35	8"	149	251.98	251.24	0.50%
P #19 PVC - SDR 35 8" 290 249.56 245.97 1.23% P #20 PVC - SDR 35 8" 58 245.77 243.82 3.37% P #21 PVC - SDR 35 8" 50 243.62 241.49 4.27% P #22 PVC - SDR 35 8" 162 280.31 272.82 4.63% P #23 PVC - SDR 35 8" 86 272.62 267.66 5.74% P #24 PVC - SDR 35 8" 73 267.46 263.81 5.01% P #25 PVC - SDR 35 8" 78 263.61 260.38 4.12%	P #17	PVC - SDR 35	8"	238	257.50	251.55	2.49%
P #20 PVC - SDR 35 8" 58 245.77 243.82 3.37% P #21 PVC - SDR 35 8" 50 243.62 241.49 4.27% P #22 PVC - SDR 35 8" 162 280.31 272.82 4.63% P #23 PVC - SDR 35 8" 86 272.62 267.66 5.74% P #24 PVC - SDR 35 8" 73 267.46 263.81 5.01% P #25 PVC - SDR 35 8" 78 263.61 260.38 4.12%	P #18	PVC - SDR 35	8"	257	251.04	249.76	0.50%
P #21 PVC - SDR 35 8" 50 243.62 241.49 4.27% P #22 PVC - SDR 35 8" 162 280.31 272.82 4.63% P #23 PVC - SDR 35 8" 86 272.62 267.66 5.74% P #24 PVC - SDR 35 8" 73 267.46 263.81 5.01% P #25 PVC - SDR 35 8" 78 263.61 260.38 4.12%	P #19	PVC - SDR 35	8"	290	249.56	245.97	1.23%
P #22 PVC - SDR 35 8" 162 280.31 272.82 4.63% P #23 PVC - SDR 35 8" 86 272.62 267.66 5.74% P #24 PVC - SDR 35 8" 73 267.46 263.81 5.01% P #25 PVC - SDR 35 8" 78 263.61 260.38 4.12%	P #20	PVC - SDR 35	8"	58	245.77	243.82	3.37%
P #23 PVC - SDR 35 8" 86 272.62 267.66 5.74% P #24 PVC - SDR 35 8" 73 267.46 263.81 5.01% P #25 PVC - SDR 35 8" 78 263.61 260.38 4.12%	P #21	PVC - SDR 35	8"	50	243.62	241.49	4.27%
P #24 PVC - SDR 35 8" 73 267.46 263.81 5.01% P #25 PVC - SDR 35 8" 78 263.61 260.38 4.12%	P #22	PVC - SDR 35	8"	162	280.31	272.82	4.63%
P #25 PVC - SDR 35 8" 78 263.61 260.38 4.12%	P #23	PVC - SDR 35	8"	86	272.62	267.66	5.74%
	P #24	PVC - SDR 35	8"	73	267.46	263.81	5.01%
P #26 PVC - SDR 35 8" 87 260 18 256 87 3 81%	P #25	PVC - SDR 35	8"	78	263.61	260.38	4.12%
	P #26	PVC - SDR 35	8"	87	260.18	256.87	3.81%

		PIPE	TABL	E		
PIPE NO	TYPE	SIZE	LF	INV. IN	INV. OUT	GRADE
P #27	PVC - SDR 35	8"	87	256.67	249.70	8.00%
P #28	PVC - SDR 35	8"	100	249.50	247.20	2.29%
P #29	PVC - SDR 35	8"	87	247.00	244.67	2.68%
P #30	PVC - SDR 35	8"	64	244.47	242.90	2.44%
P #31	PVC - SDR 26	8"	141	241.29	239.50	1.27%
P #32	PVC - SDR 26	8"	232	237.00	235.84	0.50%
P #33	PVC - SDR 26	8"	79	233.80	233.40	0.50%
P #34	PVC - SDR 35	8"	302	278.17	264.71	4.45%
P #35	PVC - SDR 35	8"	272	264.51	249.94	5.36%
P #36	PVC - SDR 35	8"	68	249.74	245.20	6.70%
P #37	PVC - SDR 35	8"	113	245.00	241.80	2.83%
P #38	PVC - SDR 26	8"	46	233.20	232.97	0.50%
P #39	PVC - SDR 26	8"	136	232.77	232.09	0.50%
P #40	DIP	8"	176	231.89	231.01	0.50%
P #41	DIP	8"	242	230.81	229.60	0.50%
P #42	PVC - SDR 35	8"	195	265.30	256.12	4.70%
P #43	PVC - SDR 26	8"	181	250.14	255.92	3.18%
P #44	PVC - SDR 35	8"	268	277.10	265.50	4.33%
P #45	PVC - SDR 35	8"	272	288.55	277.30	4.14%
P #46	PVC - SDR 35	8"	62	291.50	290.19	2.12%
P #47	PVC - SDR 35	8"	110	297.32	291.70	5.12%
P #48	DIP	8"	59	229.40	229.11	0.50%
P #49	DIP	8"	296	228.91	227.42	0.50%
P #50	DIP	8"	66	227.22	226.89	0.50%
P #51	DIP	8"	116	226.69	226.11	0.50%
P #52	PVC - SDR 35	8"	106	277.37	267.79	9.00%

		PIPE	TABL	E		
PIPE NO	TYPE	SIZE	LF	INV. IN	INV. OUT	GRADE
P #53	PVC - SDR 35	8"	44	267.59	266.02	3.61%
P #54	PVC - SDR 35	8"	317	265.82	248.77	5.38%
P #55	PVC - SDR 26	8"	35	248.57	246.61	5.59%
P #56	PVC - SDR 26	8"	30	246.41	246.26	0.50%
P #57	PVC - SDR 35	8"	150	283.63	278.13	3.67%
P #58	PVC - SDR 35	8"	55	277.93	277.36	1.05%
P #59	PVC - SDR 35	8"	251	277.16	261.79	6.12%
P #60	PVC - SDR 35	8"	35	261.59	259.36	6.28%
P #61	PVC - SDR 35	8"	40	259.16	258.96	0.50%
P #62	PVC - SDR 26	8"	261	258.76	248.56	3.90%
P #63	PVC - SDR 26	8"	84	246.06	245.64	0.50%
P #64	PVC - SDR 26	8"	92	245.44	243.93	1.63%
P #65	PVC - SDR 35	8"	223	258.42	247.76	4.78%
P #66	PVC - SDR 35	8"	104	249.85	245.76	3.95%
P #67	PVC - SDR 26	8"	272	245.56	240.01	2.04%
P #68	PVC - SDR 26	8"	27	239.81	239.67	0.50%
P #69	PVC - SDR 26	8"	110	239.47	238.93	0.50%
P #70	PVC - SDR 26	8"	80	238.73	235.52	3.99%
P #71	DIP	8"	325	266.82	265.19	0.50%
P #72	DIP	8"	297	268.50	267.02	0.50%
P #73	PVC - SDR 26	8"	396	267.04	265.06	0.50%
P #74	PVC - SDR 26	8"	114	283.62	276.12	6.56%
P #75	DIP	8"	259	264.99	263.70	0.50%
P #76	PVC - SDR 26	8"	288	263.50	262.06	0.50%
P #77	PVC - SDR 26	8"	223	261.86	256.83	2.26%
P #78	PVC - SDR 26	8"	390	254.33	249.00	1.37%

		PIPE	TABL	E		
PIPE NO	TYPE	SIZE	LF	INV. IN	INV. OUT	GRAD
P #79	PVC - SDR 35	8"	172	235.32	231.63	2.149
P #80	PVC - SDR 35	8"	157	231.43	230.65	0.509
P #81	PVC - SDR 35	8"	47	230.45	230.21	0.509
P #82	PVC - SDR 26	8"	124	248.80	248.18	0.50%
P #83	PVC - SDR 35	8"	100	267.75	267.24	0.50%
P #84	PVC - SDR 35	8"	124	288.26	280.13	6.57%
P #85	PVC - SDR 26	8"	226	247.98	230.01	7.959
P #86	PVC - SDR 35	8"	44	229.81	225.98	8.749
P #87	PVC - SDR 26	8"	148	241.42	240.68	0.50%
P #88	PVC - SDR 26	8"	107	242.15	241.62	0.509
P #89	PVC - SDR 35	8"	67	231.09	230.76	0.509
P #90	PVC - SDR 35	8"	57	245.52	245.23	0.509
P #91	PVC - SDR 26	8"	227	245.03	238.92	2.699
P #92	PVC - SDR 26	8"	39	236.42	233.77	6.809
P #93	PVC - SDR 35	8"	29	280.93	280.51	1.479
P #94	DIP	8"	105	253.56	253.03	0.50%
P #95	DIP	8"	130	252.83	252.18	0.50%
P #96	PVC - SDR 26	8"	211	235.35	234.29	0.50%
P #97	PVC - SDR 26	8"	19	234.09	234.00	0.50%
P #98	PVC - SDR 35	8"	75	269.26	266.98	3.049
P #99	PVC - SDR 35	8"	150	265.89	261.68	2.829
P #100	PVC - SDR 35	8"	100	261.48	259.87	1.619
P #101	PVC - SDR 35	8"	82	271.30	270.00	1.59%
P #102	PVC - SDR 26	8"	19	235.64	235.55	0.50%

	(SSMH TAI	BLE		
SSMH NO	SIZE	TOP	INV. IN	INV. OUT	DEPTH
DOG HOUSE SSMH #92	5'	245.04	231.47 E 233.77 N	231.27 W	13.77
SSMH #01	4'	260.03		252.37 E	7.66
SSMH #02	4'	262.40	250.89 W	250.69 E	11.71
SSMH #03	5'	263.57	249.67 W	249.47 E	14.10
SSMH #04	4'	254.44	245.88 W	245.68 S	8.75
SSMH #05	4'	250.97	242.01 N	241.81 S	9.17
SSMH #06	4'	248.92	241.38 N	241.18 SW	7.75
SSMH #07	4'	248.43	240.76 NE	240.56 SW	7.87
SSMH #08	4'	247.89	239.97 NE	239.77 SW	8.12
SSMH #09	4'	247.37	239.31 NE	237.87 SW	9.50
SSMH #10	4'	259.76		250.07 S	9.71
SSMH #11	4'	252.90	243.42 N	243.22 S	9.70
SSMH #12	4'	247.22	238.69 N	238.49 S	8.72
SSMH #13	4'	245.86	237.81 N	237.61 SE	8.25
SSMH #14	4'	245.88	236.42 NE 236.60 NW	236.22 SW	9.67
SSMH #15	4'	242.33	232.44 NE	232.24 SE	10.09
SSMH #16	4'	260.64	252.18 NE	251.98 S	8.68
SSMH #17	4'	264.62		257.50 N	7.15
SSMH #18	4'	262.16	251.24 N 251.55 S	251.04 W	11.14
SSMH #19	4'	260.40	249.76 E	249.56 S	10.84
SSMH #20	4'	253.93	245.97 N	245.77 S	8.15
SSMH #21	4'	253.02	243.82 N	243.62 SE	9.40
SSMH #22	4'	286.97	280.51 N	280.31 W	6.67
SSMH #23	4'	281.12	272.82 E	272.62 S	8.50
SSMH #24	4'	276.42	267.66 N	267.46 SW	8.95
SSMH #25	4'	268.23	260.38 NE	260.18 W	8.05
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	SSM	1H TABLE			
SSMH NO	SIZE	TOP	INV. IN	INV. OUT	DEPTH
SSMH #26	4'	263.50	256.87 E	256.67 W	6.83
SSMH #27	4'	258.77	249.70 E	249.50 NW	9.27
SSMH #28	4'	254.94	247.20 SE	247.00 NW	7.95
SSMH #29	4'	253.50	244.67 SE	244.47 NW	9.03
SSMH #30	4'	252.81	242.90 SE 241.49 NW	241.29 SW	11.54
SSMH #31	5'	249.52	239.50 NE 237.20 SE	237.00 SW	13.02
SSMH #32	5'	250.52	234.00 SE	233.80 SW	16.74
SSMH #33	4'	289.81		278.17 N	11.66
SSMH #34	4'	273.17	264.71 S	264.51 N	8.66
SSMH #35	4'	258.17	249.94 S	249.74 N	8.45
SSMH #36	4'	254.48	245.20 S	245.00 NW	9.48
SSMH #37 INSIDE DROP MANHOLE	5'	251.44	233.40 NE 241.80 SE	233.20 N	18.24
SSMH #38	5'	251.47	232.97 S	232.77 NW	18.72
SSMH #39	5'	248.80	232.09 SE	231.89 SW	16.91
SSMH #40 5' DIA. WITH EXTENDED BASE	5'	251.12	231.01 NE	230.81 SW	20.31
SSMH #41	4'	304.11		297.32 N	6.79
SSMH #42	4'	299.36	291.70 S	291.50 N	7.86
SSMH #43	4'	296.66	290.19 S	288.55 NW	8.13
SSMH #44	4'	285.04	277.30 SE	277.10 NW	7.94
SSMH #45	4'	273.64	265.50 SE	265.30 NW	8.37
SSMH #46	4'	266.75	256.12 SE	255.92 NW	10.86
SSMH #47 INSIDE DROP MANHOLE	5'	258.71	250.14 SE 229.60 NE	229.40 NW	29.31
SSMH #48 5' DIA. WITH EXTENDED BASE	5'	256.75	229.11 SE	228.91 W	27.85
SSMH #49 5' DIA. WITH EXTENDED BASE	5'	252.74	227.42 E	227.22 NW	25.52
SSMH #50 5' DIA. WITH EXTENDED BASE	5'	249.24	226.89 SE	226.69 W	22.55
SSMH #51	4'	284.10		277.37 SW	6.73

	S	SMH TAB	LE		
SSMH NO	SIZE	TOP	INV. IN	INV. OUT	DEPTH
SSMH #52	4'	277.39	267.79 NE	267.59 W	9.80
SSMH #53	4'	275.58	266.02 E	265.82 W	9.77
SSMH #54	4'	259.35	248.77 E	248.57 SW	10.78
SSMH #55	5'	258.84	246.61 NE	246.41 SW	12.43
SSMH #56	4'	290.90		283.63 SW	7.27
SSMH #57	4'	288.52	278.13 NE 280.13 SE	277.93 W	10.61
SSMH #58	4'	285.89	277.36 E	277.16 W	8.73
SSMH #59	4'	269.29	261.79 E	261.59 SW	7.70
SSMH #60	4'	268.18	259.36 NE	259.16 SW	9.01
SSMH #61	4'	267.51	258.96 NE 259.87 SE	258.76 NW	8.74
SSMH #62	5'	258.52	246.26 NE 248.56 SE	246.06 NW	12.46
SSMH #63	4'	270.15		258.42 NW	11.72
SSMH #64	4'	258.00		249.85 SW	8.15
SSMH #65	4'	257.19	247.76 SE 245.76 NE	245.56 SW	11.64
SSMH #66	5'	253.09	238.93 E	238.73 NW	14.36
SSMH #67	5'	252.46	239.67 E 240.68 S	239.47 W	12.98
SSMH #68 INSIDE DROP MANHOLE	5'	285.04	265.19 E 276.12 S	264.99 N	20.07
SSMH #69	4'	278.59	267.02 E	266.82 W	11.77
SSMH #70	4'	275.31	267.24 E	267.04 W	8.26
SSMH #71	4'	290.01		283.62 N	6.41
SSMH #72	5'	275.55	263.70 S 265.06 E	263.50 N	12.08
SSMH #73	4'	272.67	262.06 S	261.86 N	10.81
SSMH #74	5'	269.01	256.83 S	254.33 N	14.67
SSMH #75	4'	260.48	249.00 S	248.80 W	11.70
SSMH #76	4'	241.30	235.52 SE	235.32 NW	5.99
SSMH #77	4'	236.45	231.63 SE	231.43 NE	5.01

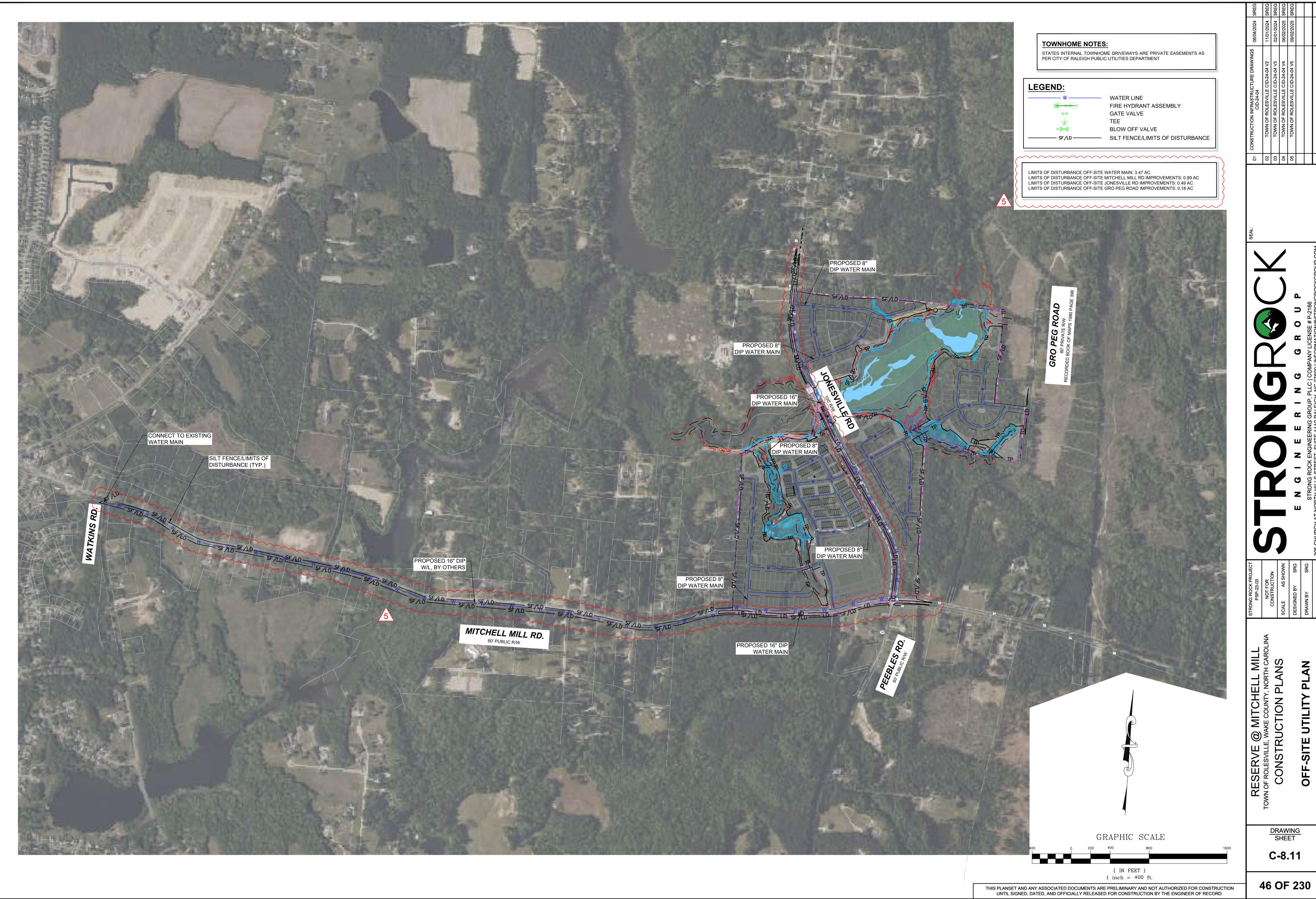
	ı	SSN	//H TABLE	<u> </u>	Γ
SSMH NO	SIZE	TOP	INV. IN	INV. OUT	DEPTH
SSMH #78	4'	240.05	230.65 SW	230.45 NW	9.60
SSMH #79	4'	273.26		268.50 W	4.76
SSMH #80	5'	252.39	240.01 NE	239.81 W	12.58
SSMH #81	4'	255.30	245.64 SE	245.44 N	9.88
SSMH #82	5'	265.05	248.18 E	247.98 N	17.07
SSMH #83	4'	240.25	230.01 S	229.81 N	10.44
SSMH #84	4'	273.50		267.75 W	5.76
SSMH #85	4'	295.31		288.26 NW	7.05
SSMH #87	4'	272.47	263.81 NE	263.61 SW	8.86
SSMH #88	5'	253.44	243.93 S 241.62 W	241.42 N	12.05
SSMH #89	4'	247.84		242.15 E	5.69
SSMH #90	4'	239.60	231.29 NW	231.09 SE	8.51
SSMH #91	5'	252.57	238.92 W	236.42 S	16.14
SSMH #93	4'	251.48	245.23 W	245.03 E	6.44
SSMH #94	4'	251.21		245.52 E	5.69
SSMH #95	4'	287.14		280.93 S	6.22
SSMH #96	5'	271.00		253.56 W	17.44
SSMH #97	4'	256.78	253.03 E	252.83 SW	3.95
SSMH #98	4'	276.60	270.00 S	269.26 N	7.34
SSMH #99	4'	275.42	266.98 S	265.89 N	9.53
SSMH #100	4'	270.76	261.68 S	261.48 NW	9.29
SSMH #101	4'	276.99		271.30 N	5.69
SSMH #103	5'	248.61	235.55 NW	235.35 SW	13.27
SSMH# 102	5'	248.37	235.84 NE	235.64 SE	12.73
SSMH# 104	5'	250.69	234.29 NE	234.09 NW	16.60

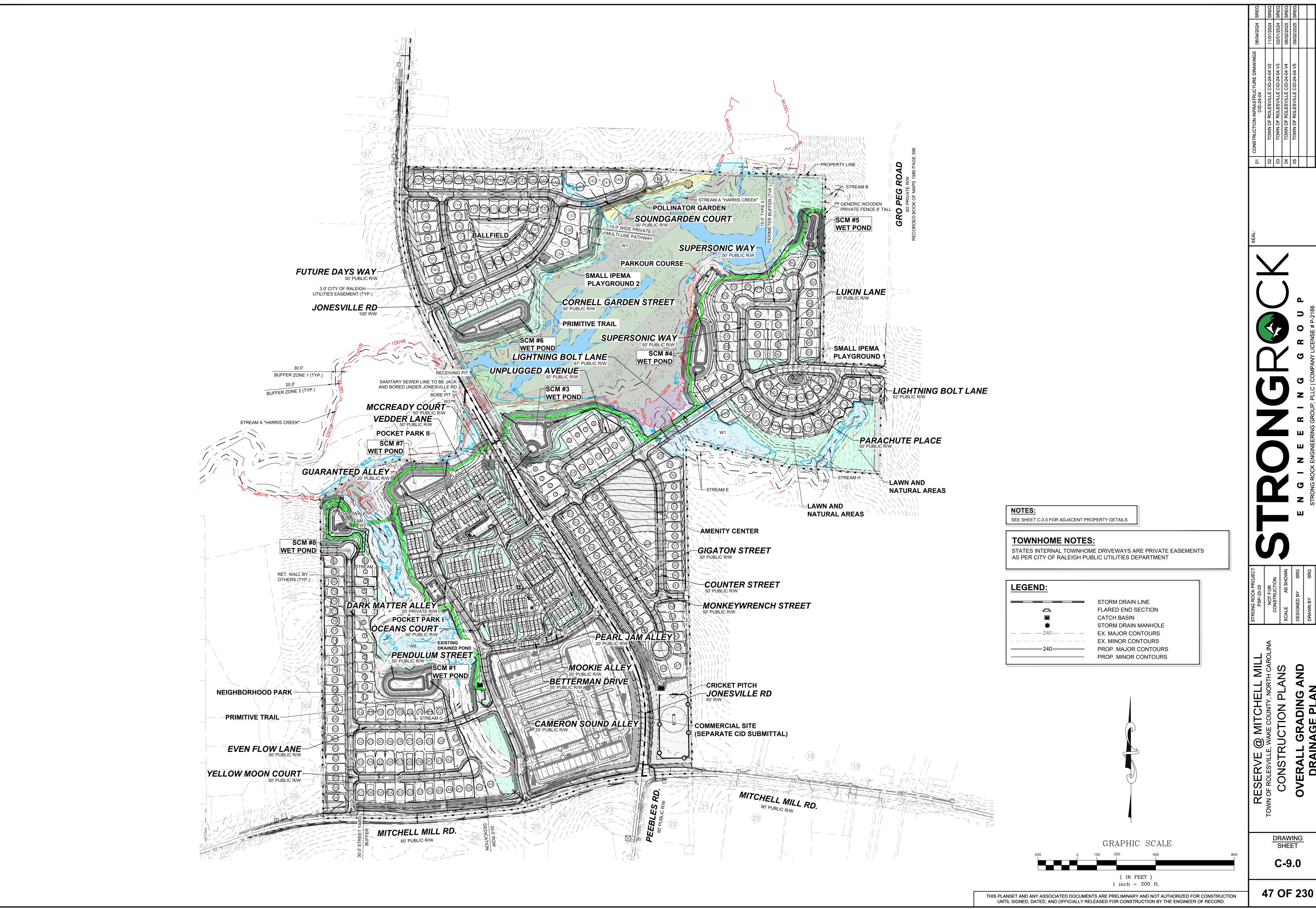
SS CHURCH AT NORTH HILLS STREET, SUITE 1110 RALEIGH, NC 27609 | INFORMATION@STRONGROCKGROUF

DRAWING SHEET

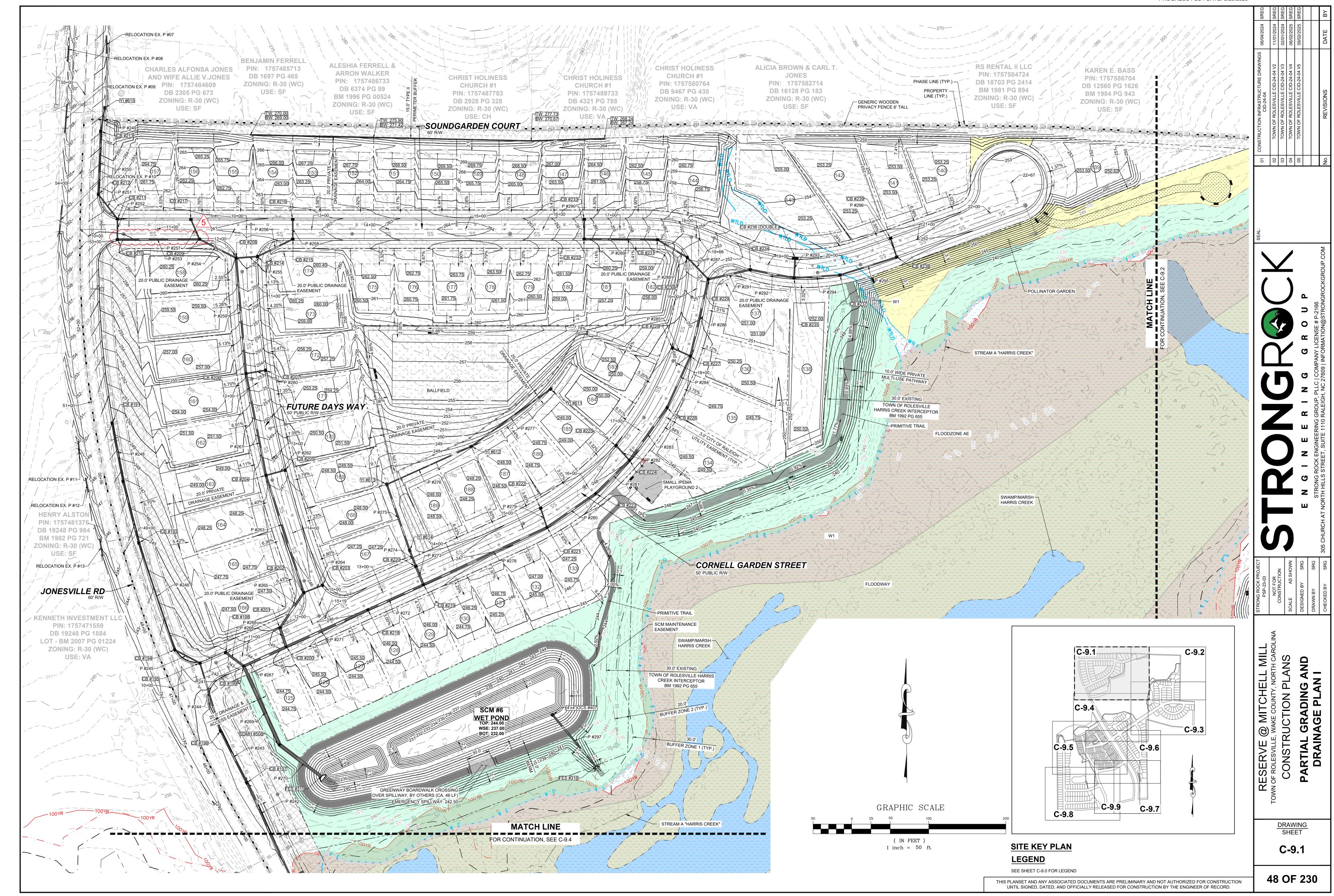
C-8.10

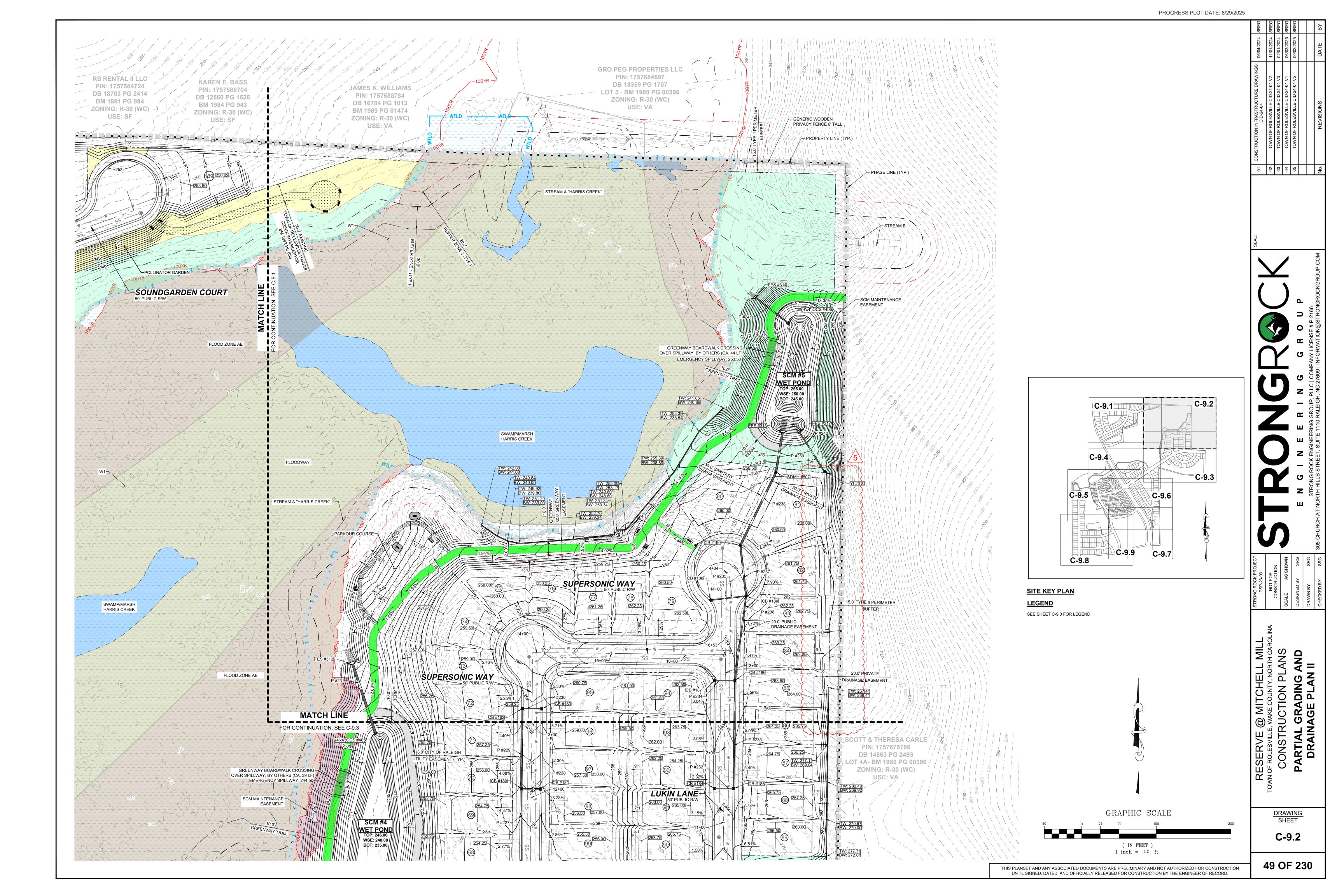
45 OF 230

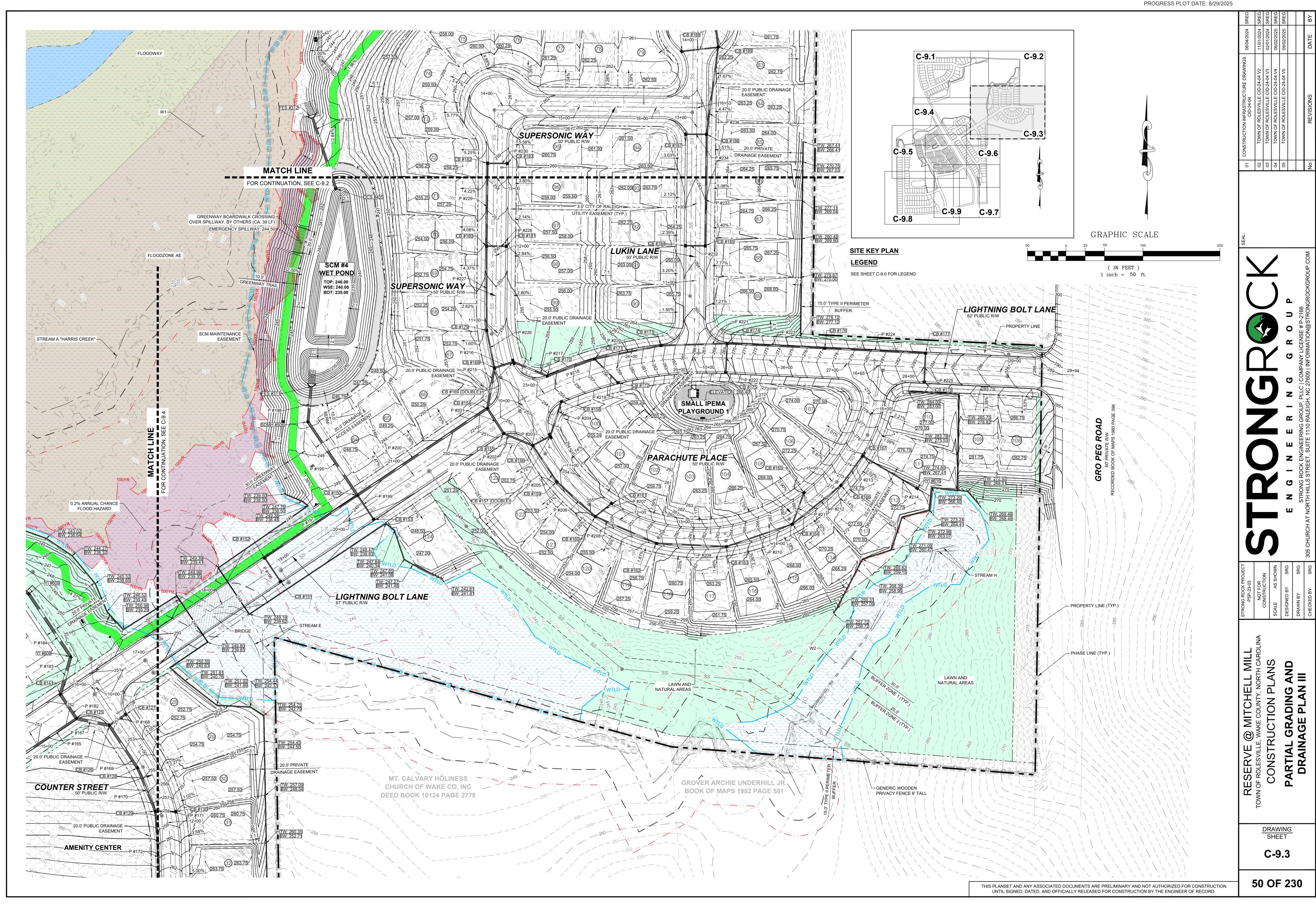


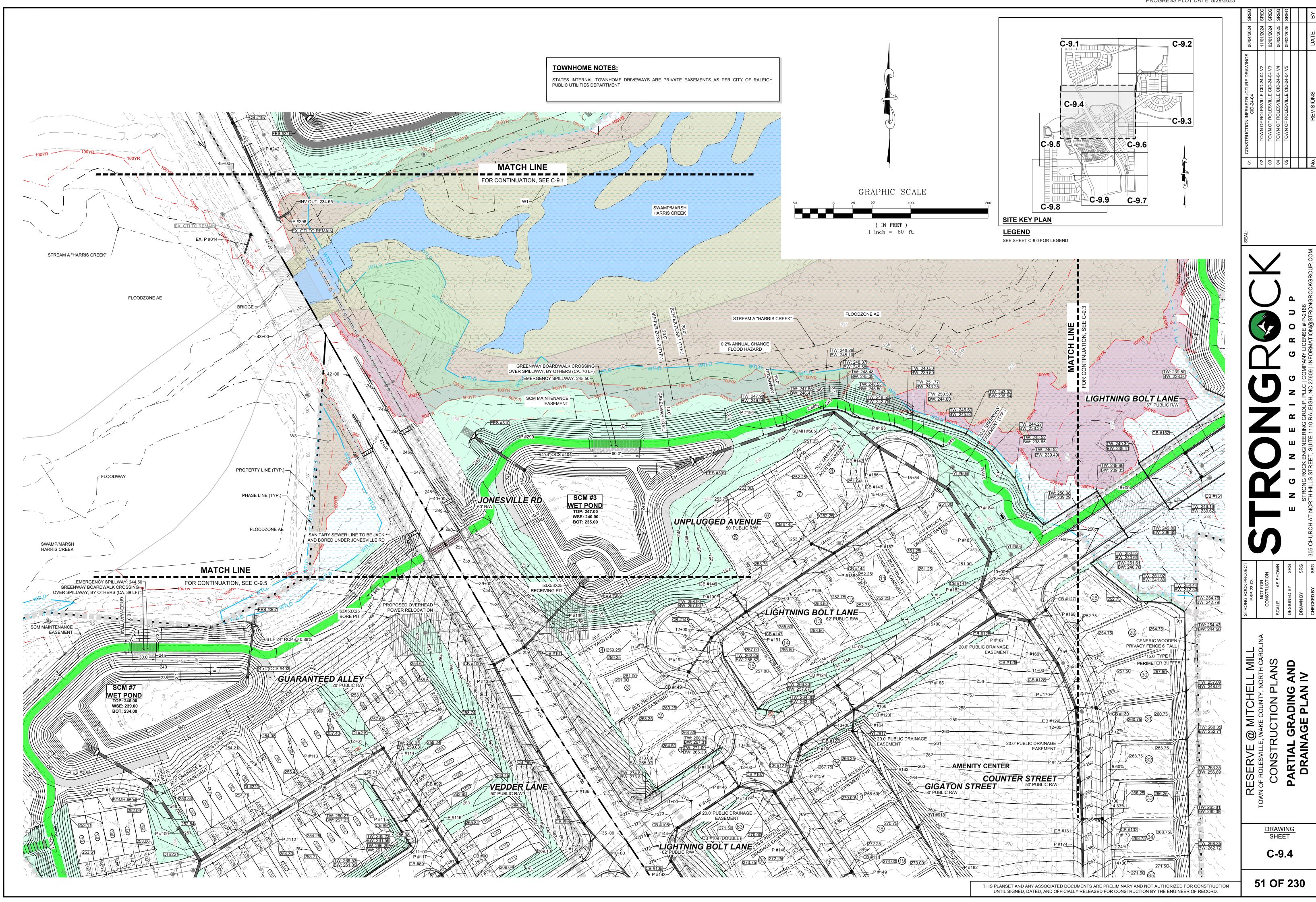


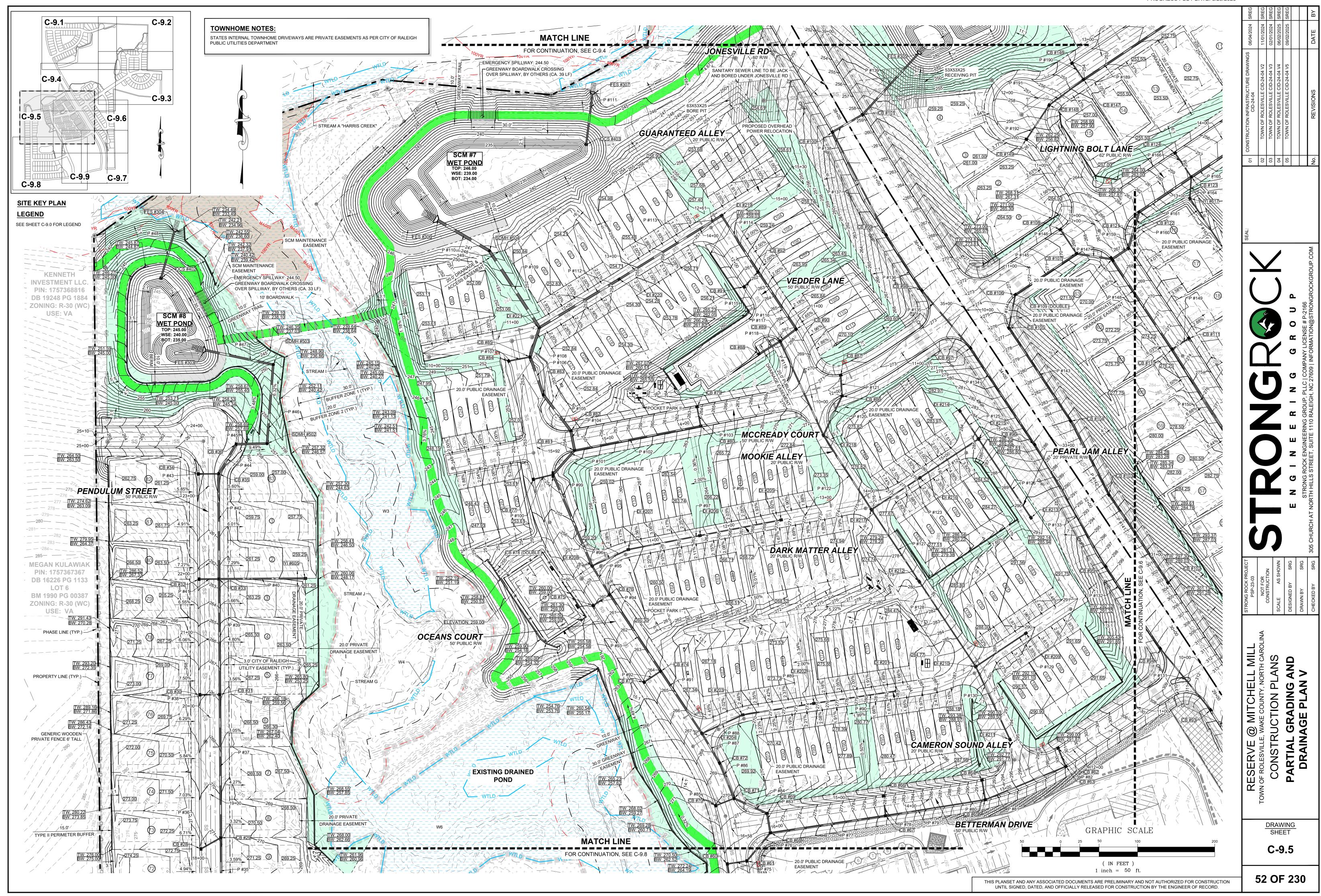
DRAWING







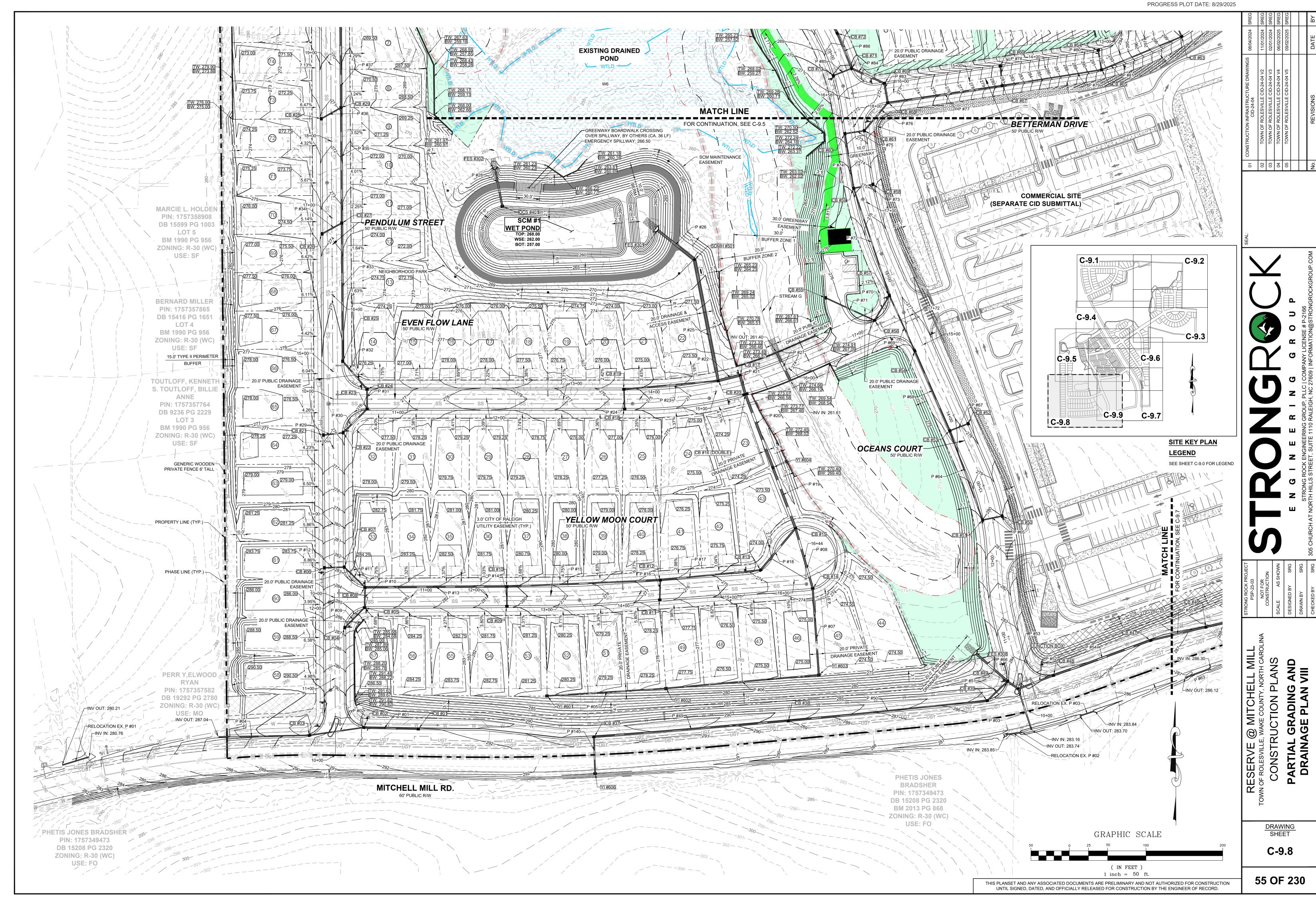


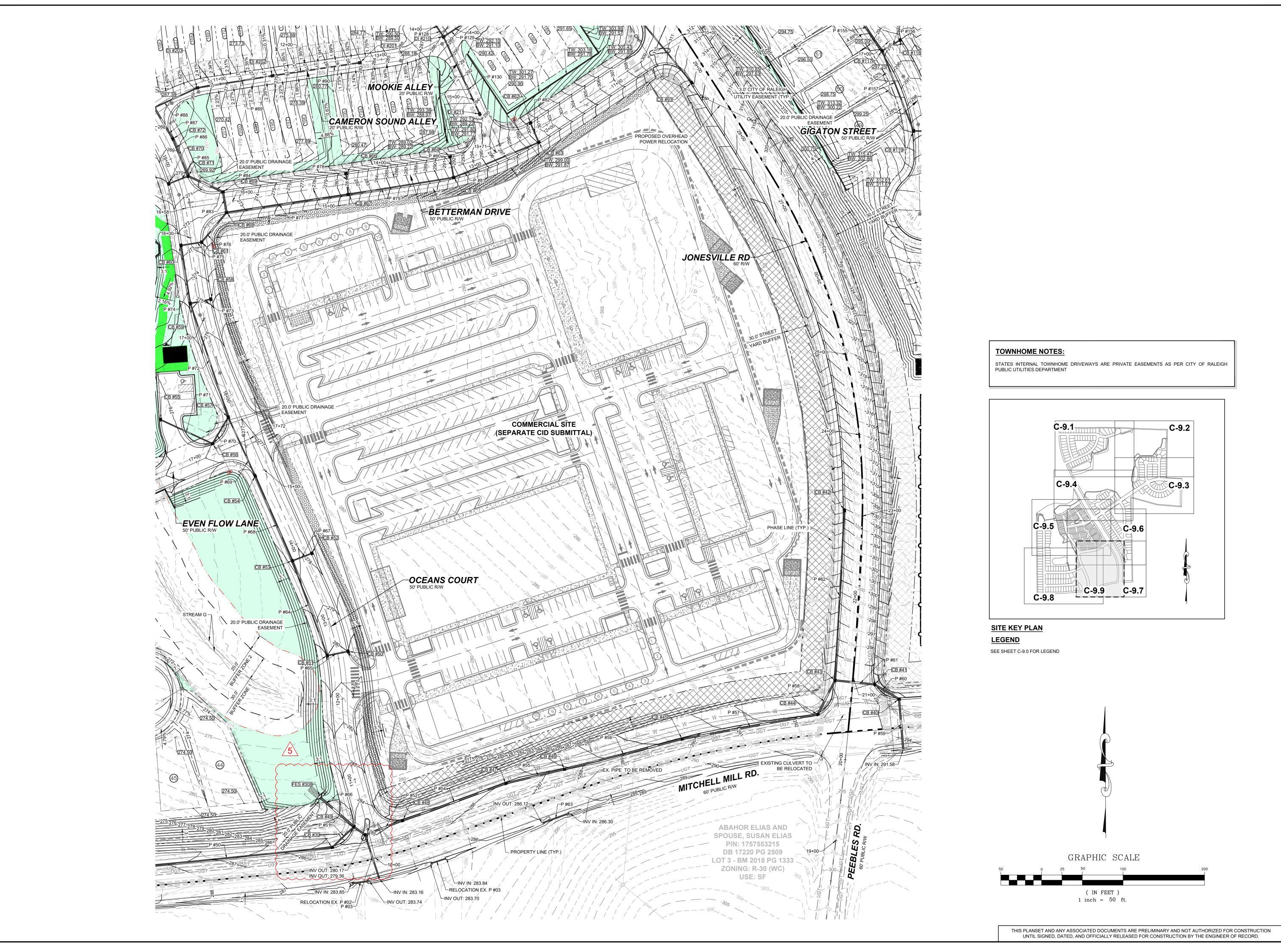






DRAWING SHEET C-9.7





OF ROLESVILLE, WAKE COUNTY, NOF CONSTRUCTION PLAPARTIAL GRADING ADRAINAGE PLAN IN

DRAWING SHEET

C-9.9

ABL	_						ŀ	PIPE I	ABLE						۲	1PE I	ABLE						ŀ	PIPE I	ABLE		
LF	INV. IN	INV. OUT	GRADE		PIPE NO	TYPE	SIZE	LF	INV. IN	INV. OUT	GRADE		PIPE NO	TYPE	SIZE	LF	INV. IN	INV. OUT	GRADE	Γ	PIPE NO	TYPE	SIZE	LF	INV. IN	INV. OUT	GRADE
82	256.43	251.85	5.61%		P #181	RCP	15"	26	280.26	280.13	0.50%		P #201	RCP	30"	39	245.56	245.17	1.00%		P #221	RCP	18"	86	264.10	257.81	7.32%
150	270.04	265.37	3.11%		P #182	RCP	42"	38	244.35	244.16	0.50%		P #202	RCP	24"	41	246.78	246.08	1.71%		P #222	RCP	15"	38	264.59	264.40	0.50%
150	265.17	255.90	6.18%		P #183	RCP	42"	50	243.70	243.18	1.02%		P #203	RCP	18"	26	248.02	247.77	1.00%		P #223	RCP	18"	127	272.13	264.33	6.17%
28	255.70	253.16	9.13%		P #184	RCP	42"	98	242.98	242.49	0.50%		P #204	RCP	18"	47	249.84	248.22	3.44%		P #224	RCP	18"	131	278.46	272.33	4.67%
221	251.10	245.32	2.61%		P #185	RCP	42"	106	242.29	241.76	0.50%		P #205	RCP	18"	56	248.91	247.00	3.39%		P #225	RCP	15"	38	278.85	278.66	0.50%
38	253.31	253.12	0.50%		P #186	RCP	18"	85	244.83	243.70	1.33%		P #206	RCP	18"	67	249.92	249.11	1.20%		P #226	RCP	18"	50	248.83	248.41	0.85%
44	244.77	244.55	0.50%		P #187	RCP	18"	101	245.73	245.03	0.70%		P #207	RCP	15"	27	250.99	250.73	0.97%		P #227	RCP	18"	110	250.94	249.03	1.74%
26	246.46	246.33	0.50%		P #188	RCP	15"	31	246.99	246.70	0.91%		P #208	RCP	18"	87	253.57	250.42	3.63%		P #228	RCP	15"	26	251.37	251.25	0.50%
66	247.68	245.20	3.73%]	P #189	RCP	18"	137	248.03	245.93	1.53%		P #209	RCP	18"	91	258.57	253.81	5.24%		P #229	RCP	15"	107	253.72	251.37	2.18%
61	251.62	248.26	5.55%		P #190	RCP	15"	26	249.59	249.46	0.50%		P #210	RCP	15"	90	263.41	258.84	5.05%		P #230	RCP	15"	26	254.05	253.92	0.50%
27	253.49	253.11	1.43%		P #191	RCP	15"	56	252.55	248.23	7.76%		P #211	RCP	15"	43	265.56	263.61	4.49%		P #231	RCP	36"	97	240.00	237.51	2.58%
145	260.86	252.78	5.58%		P #192	RCP	15"	53	255.95	252.75	6.02%		P #212	RCP	15"	81	266.79	263.61	3.93%		P #232	RCP	15"	26	259.05	258.92	0.50%
26	261.24	261.11	0.50%	_	P #193	RCP	42"	73	241.56	241.16	0.56%		P #213	RCP	15"	47	267.46	266.99	1.00%		P #233	RCP	15"	145	258.72	257.55	0.80%
200	271.92	261.25	5.34%		P #194	RCP	42"	191	240.96	240.00	0.50%		P #214	RCP	15"	82	268.07	267.66	0.50%		P #234	RCP	15"	27	257.46	257.32	0.50%
26	272.25	272.12	0.50%		P #195	RCP	36"	115	241.34	240.43	0.79%		P #215	RCP	30"	53	247.17	245.60	2.93%		P #235	RCP	15"	48	256.81	256.58	0.50%
190	278.67	272.22	3.39%		P #196	RCP	15"	37	243.64	243.45	0.50%		P #216	RCP	24"	26	247.58	247.45	0.50%		P #236	RCP	18"	114	257.12	256.24	0.77%
42	285.00	281.55	8.12%]	P #197	RCP	18"	145	243.25	242.52	0.50%		P #217	RCP	24"	48	248.69	247.78	1.92%		P #237	RCP	24"	68	256.04	255.15	1.30%
28	279.01	278.87	0.50%		P #198	RCP	36"	46	240.23	240.00	0.50%		P #218	RCP	24"	65	252.23	248.96	5.01%		P #238	RCP	30"	109	254.86	250.51	4.00%
38	279.40	279.21	0.50%	_	P #199	RCP	18"	38	244.04	243.84	0.54%		P #219	RCP	15"	43	253.94	252.77	2.69%		P #239	RCP	30"	54	248.29	248.00	0.54%
66	279.93	279.60	0.50%		P #200	RCP	30"	203	244.97	241.54	1.69%		P #220	RCP	18"	88	257.54	252.43	5.80%		P #240	RCP	18"	62	249.50	248.00	2.40%
	PE TABLE		<u></u>		_					PIPE TABLE		<u> </u>	ı														
SIZ			NV. OUT	GRAD	\dashv \vdash		PE NO		TYPE	SIZE LF				ADE													
30			241.88	0.50%	\dashv \vdash	RELOCAT			_	15" 37	_			18%													
15			243.19	1.43%	\dashv \vdash	RELOCAT			_	18" 22				50%													
30			242.49	0.50%	\dashv \vdash	RELOCAT			_	15" 21				35%													
24			243.11	0.50%	\dashv \vdash	RELOCAT			_	15" 29				30%													
15			244.40	0.50%	\dashv \vdash	RELOCAT			_	15" 31				12%													
24			243.68	0.92%	\dashv \vdash	RELOCAT			_	15" 24				23%													
18			246.06	5.34%	\dashv \vdash	RELOCAT			_	15" 25				64%													
18	" 45		248.36	6.61%	\dashv \vdash	RELOCAT			_	15" 22	-			93%													
15	" 95	255.65	251.71	4.15%		RELOCAT	ION EX	. P #09	RCP	15" 38	266.68	26	55.44 3.2	22%													
15	" 26	255.98	255.85	0.50%	5 1	RELOCAT	ION EX	P #10	RCP	15" 39	260.96	25	58.19 7.0)9%													

P#01 CLASS IV RCP 15" 71 288.76 288.40 6 P#02 CLASS IV RCP 15" 71 288.20 287.84 6 P#03 RCP 18" 57 283.16 280.17 5 P#04 CLASS IV RCP 15" 119 287.64 287.04 6 P#05 RCP 15" 155 275.73 272.77 7 P#06 RCP 18" 200 272.57 268.64 7 P#07 RCP 24" 113 268.44 267.87 6 P#08 RCP 30" 82 267.22 266.10 7 P#09 RCP 15" 37 281.91 279.46 6 P#10 RCP 15" 26 279.26 278.73 27	GRADE 0.50% 0.50% 5.26% 0.50% 1.91% 1.97% 0.50% 1.37% 6.69%
P#01 CLASS IV RCP 15" 71 288.76 288.40 6 P#02 CLASS IV RCP 15" 71 288.20 287.84 6 P#03 RCP 18" 57 283.16 280.17 5 P#04 CLASS IV RCP 15" 119 287.64 287.04 6 P#05 RCP 15" 155 275.73 272.77 7 P#06 RCP 18" 200 272.57 268.64 P#07 RCP 24" 113 268.44 267.87 6 P#08 RCP 30" 82 267.22 266.10 79.46 6 P#09 RCP 15" 37 281.91 279.46 6 P#10 RCP 15" 26 279.26 278.73 278.73	0.50% 0.50% 5.26% 0.50% 1.91% 1.97% 0.50% 1.37%
P#02 CLASS IV RCP 15" 71 288.20 287.84 P#03 RCP 18" 57 283.16 280.17 P#04 CLASS IV RCP 15" 119 287.64 287.04 P#05 RCP 15" 155 275.73 272.77 P#06 RCP 18" 200 272.57 268.64 P#07 RCP 24" 113 268.44 267.87 P#08 RCP 30" 82 267.22 266.10 P#09 RCP 15" 37 281.91 279.46 P#10 RCP 15" 26 279.26 278.73	0.50% 5.26% 0.50% 1.91% 1.97% 0.50%
P #03 RCP 18" 57 283.16 280.17 38 P #04 CLASS IV RCP 15" 119 287.64 287.04 6 P #05 RCP 15" 155 275.73 272.77 272.77 P #06 RCP 18" 200 272.57 268.64 268.64 267.87 6 P #07 RCP 24" 113 268.44 267.87 6 P #08 RCP 30" 82 267.22 266.10 6 P #09 RCP 15" 37 281.91 279.46 6 P #10 RCP 15" 26 279.26 278.73 3	5.26% 0.50% 1.91% 1.97% 0.50% 1.37%
P #04 CLASS IV RCP 15" 119 287.64 287.04 6 P #05 RCP 15" 155 275.73 272.77 7 P #06 RCP 18" 200 272.57 268.64 7 P #07 RCP 24" 113 268.44 267.87 6 P #08 RCP 30" 82 267.22 266.10 7 P #09 RCP 15" 37 281.91 279.46 6 P #10 RCP 15" 26 279.26 278.73 2	0.50% 1.91% 1.97% 0.50% 1.37%
P #05 RCP 15" 155 275.73 272.77 P #06 RCP 18" 200 272.57 268.64 P #07 RCP 24" 113 268.44 267.87 P #08 RCP 30" 82 267.22 266.10 P #09 RCP 15" 37 281.91 279.46 P #10 RCP 15" 26 279.26 278.73	1.91% 1.97% 0.50% 1.37%
P #06 RCP 18" 200 272.57 268.64 P #07 RCP 24" 113 268.44 267.87 0 P #08 RCP 30" 82 267.22 266.10 P #09 RCP 15" 37 281.91 279.46 P #10 RCP 15" 26 279.26 278.73	1.97% 0.50% 1.37%
P #07 RCP 24" 113 268.44 267.87 6 P #08 RCP 30" 82 267.22 266.10 6 P #09 RCP 15" 37 281.91 279.46 6 P #10 RCP 15" 26 279.26 278.73 278.73 279.26	0.50%
P #08 RCP 30" 82 267.22 266.10 P #09 RCP 15" 37 281.91 279.46 6 P #10 RCP 15" 26 279.26 278.73 3	1.37%
P #09 RCP 15" 37 281.91 279.46 P #10 RCP 15" 26 279.26 278.73	
P #10 RCP 15" 26 279.26 278.73	6.69%
P #11 RCP 15" 38 277.84 277.65	2.00%
	0.50%
P #12 RCP 15" 26 278.17 278.04	0.50%
P #13 RCP 18" 185 277.45 275.51	1.05%
P #14 RCP 15" 26 274.85 274.57	1.06%
P #15 RCP 18" 200 274.37 271.08	1.64%
P #16 RCP 15" 26 271.97 271.85	0.50%
P #17 RCP 18" 131 270.88 268.11	2.11%
P #18 RCP 24" 71 267.91 266.10	2.55%
P #19 RCP 36" 85 265.90 265.48	0.50%
P #20 RCP 36" 102 265.28 264.62	0.65%

		F	PIPE T	ABLE		
PIPE NO	TYPE	SIZE	LF	INV. IN	INV. OUT	GRADE
P #21	RCP	36"	26	264.42	264.29	0.50%
P #22	RCP	36"	29	264.09	263.94	0.50%
P #23	RCP	18"	123	270.56	264.74	4.72%
P #24	RCP	15"	26	270.89	270.76	0.50%
P #25	RCP	36"	161	263.74	262.67	0.67%
P #26	RCP	36"	61	262.47	262.00	0.77%
P #27	RCP	36"	42	261.61	261.40	0.50%
P #28	RCP	24"	49	262.00	261.54	0.94%
P #29	RCP	15"	26	271.15	271.02	0.50%
P #30	RCP	18"	44	270.82	270.57	0.57%
P #31	RCP	18"	26	270.37	270.24	0.50%
P #32	RCP	18"	48	270.04	269.80	0.50%
P #33	RCP	18"	180	269.60	268.45	0.64%
P #34	RCP	18"	29	268.87	268.65	0.76%
P #35	RCP	18"	151	268.25	265.36	1.93%
P #36	RCP	15"	29	265.80	264.65	3.92%
P #37	RCP	24"	186	264.45	262.56	1.02%
P #38	RCP	15"	26	263.37	263.24	0.50%
P #39	RCP	24"	150	262.36	256.00	4.24%
P #40	RCP	24"	112	254.76	254.20	0.50%
		F	PIPE T	ABLE		

PIPE NO	TYPE	SIZE	LF	INV. IN	INV. OUT	GRAE
P #41	RCP	18"	26	254.73	254.50	0.929
P #42	RCP	30"	136	254.00	253.32	0.509
P #43	RCP	15"	26	254.92	254.72	0.779
P #44	RCP	30"	45	253.12	251.04	4.669
P #45	RCP	30"	40	250.84	248.04	7.009
P #46	RCP	30"	103	247.84	240.65	7.009
P #47	RCP	30"	90	240.45	240.00	0.509
P #48	RCP	24"	63	237.00	234.19	4.449
P #49	CLASS IV RCP	18"	254	285.17	283.85	0.529
P #50	CLASS IV RCP	18"	261	283.65	280.35	1.26%
P #51	CLASS IV RCP	18"	37	280.15	279.17	2.689
P #52	CLASS IV RCP	24"	49	279.60	279.36	0.509
P #53	CLASS IV RCP	24"	17	279.16	278.74	2.489
P #54	CLASS IV RCP	24"	135	280.48	279.80	0.509
P #55	CLASS IV RCP	24"	74	281.92	280.68	1.689
P #56	CLASS IV RCP	24"	149	284.32	282.12	1.479
P #57	CLASS IV RCP	24"	169	286.75	284.52	1.329
P #58	CLASS IV RCP	24"	47	287.98	286.95	2.209
P #59	CLASS IV RCP	24"	62	291.58	289.73	2.989
P #60	CLASS IV RCP	24"	35	289.53	289.24	0.839

	PIPE TABLE								
PIPE NO	TYPE	SIZE	LF	INV. IN	INV. OUT	GRADI			
P #61	CLASS IV RCP	24"	49	289.04	288.79	0.50%			
P #62	CLASS IV RCP	15"	209	300.69	288.18	5.99%			
P #63	CLASS IV RCP	18"	36	286.30	286.12	0.50%			
P #64	RCP	15"	124	275.19	273.13	1.66%			
P #65	RCP	15"	26	275.52	275.39	0.50%			
P #66	RCP	30"	54	278.54	278.27	0.50%			
P #67	RCP	15"	26	273.34	273.21	0.50%			
P #68	RCP	15"	114	272.93	271.79	1.00%			
P #69	RCP	15"	79	271.59	269.00	3.27%			
P #70	RCP	15"	38	270.47	270.29	0.50%			
P #71	RCP	15"	70	271.03	270.67	0.50%			
P #72	RCP	15"	147	268.80	268.07	0.50%			
P #73	RCP	15"	26	270.09	269.57	2.01%			
P #74	RCP	15"	72	267.87	266.72	1.58%			
P #75	RCP	15"	26	266.52	266.39	0.50%			
P #76	RCP	18"	48	266.19	265.96	0.50%			
P #77	RCP	15"	151	275.28	266.54	5.80%			
P #78	RCP	15"	26	276.32	276.20	0.50%			
P #79	RCP	15"	131	286.62	275.95	8.14%			
P #80	RCP	15"	26	287.13	286.98	0.58%			

PIPE TABLE										
PIPE NO	TYPE	SIZE	LF	INV. IN	INV. OUT	GRADE				
P #81	RCP	15"	113	294.91	286.82	7.16%				
P #82	RCP	15"	26	295.85	295.59	0.99%				
P #83	RCP	24"	26	265.76	265.58	0.68%				
P #84	RCP	24"	47	265.38	264.84	1.15%				
P #85	RCP	15"	26	265.57	265.45	0.50%				
P #86	RCP	24"	50	264.64	263.20	2.90%				
P #87	RCP	24"	45	263.00	261.93	2.40%				
P #88	RCP	15"	58	264.27	261.93	4.03%				
P #89	RCP	15"	93	269.70	264.47	5.60%				
P #90	RCP	15"	108	278.41	269.90	7.86%				
P #91	RCP	24"	97	261.51	258.32	3.29%				
P #92	RCP	15"	25	259.59	258.68	3.65%				
P #93	RCP	24"	119	257.77	254.31	2.89%				
P #94	RCP	15"	26	255.44	254.64	3.10%				
P #95	RCP	24"	44	254.08	251.46	6.00%				
P #96	RCP	15"	52	254.52	252.24	4.41%				
P #97	RCP	15"	95	258.51	254.72	4.02%				
P #98	RCP	15"	107	265.79	258.71	6.60%				
P #99	RCP	30"	129	251.26	246.91	3.38%				
P #100	RCP	15"	26	249.04	248.53	1.94%				

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				F	PIPE T	ABLE		
DE		PIPE NO	TYPE	SIZE	LF	INV. IN	INV. OUT	GRADE
6%		P #101	RCP	30"	42	246.71	245.59	2.67%
9%		P #102	RCP	18"	167	258.78	247.89	6.54%
3%		P #103	RCP	15"	26	259.11	258.98	0.50%
5%		P #104	RCP	36"	26	245.39	244.98	1.59%
0%		P #105	RCP	36"	59	244.78	244.48	0.50%
0%		P #106	RCP	36"	52	244.28	244.02	0.50%
0%		P #107	RCP	15"	28	245.92	245.15	2.71%
3%		P #108	RCP	36"	40	243.82	243.16	1.65%
)%		P #109	RCP	42"	119	242.96	240.10	2.41%
6%		P #110	RCP	42"	78	239.90	239.00	1.16%
9%		P #111	RCP	24"	66	239.00	238.42	0.88%
5%		P #112	RCP	36"	121	247.93	243.16	3.94%
9%		P #113	RCP	30"	157	251.30	248.13	2.02%
0%		P #114	RCP	24"	87	255.23	251.50	4.29%
0%		P #115	RCP	15"	26	257.04	255.96	4.11%
1%		P #116	RCP	24"	89	258.84	255.64	3.60%
2%		P #117	RCP	24"	26	259.17	259.04	0.50%
0%		P #118	RCP	24"	32	259.53	259.37	0.50%
3%		P #119	RCP	18"	134	266.31	261.37	3.68%
1%		P #120	RCP	18"	56	266.91	266.63	0.50%
	-							

	PIPE TABLE									
PIPE NO	TYPE	SIZE	LF	INV. IN	INV. OUT	GRADE				
P #01	CLASS IV RCP	15"	71	288.76	288.40	0.50%				
P #02	CLASS IV RCP	15"	71	288.20	287.84	0.50%				
P #03	RCP	18"	57	283.16	280.17	5.26%				
P #04	CLASS IV RCP	15"	119	287.64	287.04	0.50%				
P #05	RCP	15"	155	275.73	272.77	1.91%				
P #06	RCP	18"	200	272.57	268.64	1.97%				
P #07	RCP	24"	113	268.44	267.87	0.50%				
P #08	RCP	30"	82	267.22	266.10	1.37%				
P #09	RCP	15"	37	281.91	279.46	6.69%				
P #10	RCP	15"	26	279.26	278.73	2.00%				
P #11	RCP	15"	38	277.84	277.65	0.50%				
P #12	RCP	15"	26	278.17	278.04	0.50%				
P #13	RCP	18"	185	277.45	275.51	1.05%				
P #14	RCP	15"	26	274.85	274.57	1.06%				
P #15	RCP	18"	200	274.37	271.08	1.64%				
P #16	RCP	15"	26	271.97	271.85	0.50%				
P #17	RCP	18"	131	270.88	268.11	2.11%				
P #18	RCP	24"	71	267.91	266.10	2.55%				
P #19	RCP	36"	85	265.90	265.48	0.50%				
P #20	RCP	36"	102	265.28	264.62	0.65%				
		PIPE	TABLE							
PIPE NO	TYPE	SIZE	LF	INV. IN	INV. OUT	GRADE				
P #121	RCP	18"	27	267.25	267.11	0.50%				
		I	1							

18" 115 270.89 266.51

15" 75 274.18 271.34 3.78%

15" 91 278.38 274.38 4.38%

 15"
 44
 278.80
 278.58
 0.50%

 15"
 123
 286.06
 278.58
 6.09%

 15"
 112
 275.28
 271.09
 3.73%

 15"
 132
 283.15
 275.48
 5.80%

 15"
 78
 285.35
 283.35
 2.56%

 15"
 105
 290.26
 283.75
 6.22%

 15"
 103
 309.08
 302.38
 6.50%

5.10%

15" | 128 | 302.18 | 293.68

15" | 183 | 293.48 | 280.02

15" | 150 | 279.82 | 270.99

18" 98 270.79 265.64

18" 86 265.44 261.07

18" | 150 | 260.87 | 253.30

24" | 45 | 251.91 | 249.10 | 6.23%

24" | 107 | 247.75 | 240.00 | 7.23%

P #122

P #123

P #124

P #125

P #126

P #127

P #128

P #129

P #130

P #131

P #132

P #133

P #134

P #135

P #136

P #137

P #138

P #139

RCP

RCP

RCP

RCP

P #21	RCP	36"	26	264.42	264.29	0.50%			
P #22	RCP	36"	29	264.09	263.94	0.50%			
P #23	RCP	18"	123	270.56	264.74	4.72%			
P #24	RCP	15"	26	270.89	270.76	0.50%			
P #25	RCP	36"	161	263.74	262.67	0.67%			
P #26	RCP	36"	61	262.47	262.00	0.77%			
P #27	RCP	36"	42	261.61	261.40	0.50%			
P #28	RCP	24"	49	262.00	261.54	0.94%			
P #29	RCP	15"	26	271.15	271.02	0.50%			
P #30	RCP	18"	44	270.82	270.57	0.57%			
P #31	RCP	18"	26	270.37	270.24	0.50%			
P #32	RCP	18"	48	270.04	269.80	0.50%			
P #33	RCP	18"	180	269.60	268.45	0.64%			
P #34	RCP	18"	29	268.87	268.65	0.76%			
P #35	RCP	18"	151	268.25	265.36	1.93%			
P #36	RCP	15"	29	265.80	264.65	3.92%			
P #37	RCP	24"	186	264.45	262.56	1.02%			
P #38	RCP	15"	26	263.37	263.24	0.50%			
P #39	RCP	24"	150	262.36	256.00	4.24%			
P #40	RCP	24"	112	254.76	254.20	0.50%			
		F	PIPE T	ABLE					
PIPE NO	TYPE	SIZE	LF	INV. IN	INV. OUT	GRADE			
P #141	RCP	15"	137	298.95	288.52	7.59%			

		- I	PIPE T	ABLE		
PIPE NO	TYPE	SIZE	LF	INV. IN	INV. OUT	GRADE
P #141	RCP	15"	137	298.95	288.52	7.59%
P #142	RCP	15"	108	288.14	280.61	6.98%
P #143	RCP	15"	145	280.41	271.94	5.85%
P #144	RCP	15"	44	271.74	268.46	7.45%
P #145	RCP	18"	96	268.00	264.36	3.80%
P #146	RCP	15"	38	264.46	264.27	0.50%
P #147	RCP	24"	46	263.58	262.28	2.81%
P #148	RCP	24"	140	267.34	261.65	4.05%
P #149	RCP	15"	26	268.37	268.24	0.50%
P #150	RCP	24"	149	273.94	267.59	4.25%
P #151	RCP	18"	26	274.52	274.39	0.50%
P #152	RCP	18"	150	280.82	274.48	4.22%
P #153	RCP	15"	26	281.15	281.02	0.50%
P #154	RCP	15"	99	285.16	281.14	4.05%
P #155	RCP	15"	115	289.86	285.36	3.90%
P #156	RCP	15"	26	290.19	290.06	0.50%
P #157	RCP	15"	106	294.78	290.19	4.34%
P #158	RCP	15"	26	295.22	295.07	0.59%
P #159	RCP	30"	26	261.45	261.03	1.63%

	PIPE TABLE								
PIPE NO	TYPE	SIZE	LF	INV. IN	INV. OUT	GRADE			
P #161	RCP	30"	82	256.43	251.85	5.61%			
P #162	RCP	18"	150	270.04	265.37	3.11%			
P #163	RCP	15"	150	265.17	255.90	6.18%			
P #164	RCP	15"	28	255.70	253.16	9.13%			
P #165	RCP	30"	221	251.10	245.32	2.61%			
P #166	RCP	15"	38	253.31	253.12	0.50%			
P #167	CLASS IV RCP	42"	44	244.77	244.55	0.50%			
P #168	CLASS IV RCP	24"	26	246.46	246.33	0.50%			
P #169	CLASS IV RCP	36"	66	247.68	245.20	3.73%			
P #170	RCP	30"	61	251.62	248.26	5.55%			
P #171	RCP	15"	27	253.49	253.11	1.43%			
P #172	RCP	18"	145	260.86	252.78	5.58%			
P #173	RCP	15"	26	261.24	261.11	0.50%			
P #174	RCP	15"	200	271.92	261.25	5.34%			
P #175	RCP	15"	26	272.25	272.12	0.50%			
P #176	RCP	15"	190	278.67	272.22	3.39%			
P #177	RCP	15"	42	285.00	281.55	8.12%			
P #178	RCP	15"	28	279.01	278.87	0.50%			
P #179	RCP	15"	38	279.40	279.21	0.50%			
P #180	RCP	15"	66	279.93	279.60	0.50%			

		i	PIPE T	ABLE	
PIPE NO	TYPE	SIZE	LF	INV. IN	INV. OUT
P #181	RCP	15"	26	280.26	280.13
P #182	RCP	42"	38	244.35	244.16
P #183	RCP	42"	50	243.70	243.18
P #184	RCP	42"	98	242.98	242.49
P #185	RCP	42"	106	242.29	241.76
P #186	RCP	18"	85	244.83	243.70
P #187	RCP	18"	101	245.73	245.03
P #188	RCP	15"	31	246.99	246.70
P #189	RCP	18"	137	248.03	245.93
P #190	RCP	15"	26	249.59	249.46
P #191	RCP	15"	56	252.55	248.23
P #192	RCP	15"	53	255.95	252.75
P #193	RCP	42"	73	241.56	241.16
P #194	RCP	42"	191	240.96	240.00
P #195	RCP	36"	115	241.34	240.43
P #196	RCP	15"	37	243.64	243.45
P #197	RCP	18"	145	243.25	242.52
P #198	RCP	36"	46	240.23	240.00
P #199	RCP	18"	38	244.04	243.84
P #200	RCP	30"	203	244.97	241.54

PIPE TABLE										
PIPE NO	TYPE	SIZE	LF	INV. IN	INV. OUT	GRADE				
P #201	RCP	30"	39	245.56	245.17	1.00%				
P #202	RCP	24"	41	246.78	246.08	1.71%				
P #203	RCP	18"	26	248.02	247.77	1.00%				
P #204	RCP	18"	47	249.84	248.22	3.44%				
P #205	RCP	18"	56	248.91	247.00	3.39%				
P #206	RCP	18"	67	249.92	249.11	1.20%				
P #207	RCP	15"	27	250.99	250.73	0.97%				
P #208	RCP	18"	87	253.57	250.42	3.63%				
P #209	RCP	18"	91	258.57	253.81	5.24%				
P #210	RCP	15"	90	263.41	258.84	5.05%				
P #211	RCP	15"	43	265.56	263.61	4.49%				
P #212	RCP	15"	81	266.79	263.61	3.93%				
P #213	RCP	15"	47	267.46	266.99	1.00%				
P #214	RCP	15"	82	268.07	267.66	0.50%				
P #215	RCP	30"	53	247.17	245.60	2.93%				
P #216	RCP	24"	26	247.58	247.45	0.50%				
P #217	RCP	24"	48	248.69	247.78	1.92%				
P #218	RCP	24"	65	252.23	248.96	5.01%				
P #219	RCP	15"	43	253.94	252.77	2.69%				
P #220	RCP	18"	88	257.54	252.43	5.80%				

		F	PIPE T	ABLE		
PIPE NO	TYPE	SIZE	LF	INV. IN	INV. OUT	GRADE
P #221	RCP	18"	86	264.10	257.81	7.32%
P #222	RCP	15"	38	264.59	264.40	0.50%
P #223	RCP	18"	127	272.13	264.33	6.17%
P #224	RCP	18"	131	278.46	272.33	4.67%
P #225	RCP	15"	38	278.85	278.66	0.50%
P #226	RCP	18"	50	248.83	248.41	0.85%
P #227	RCP	18"	110	250.94	249.03	1.74%
P #228	RCP	15"	26	251.37	251.25	0.50%
P #229	RCP	15"	107	253.72	251.37	2.18%
P #230	RCP	15"	26	254.05	253.92	0.50%
P #231	RCP	36"	97	240.00	237.51	2.58%
P #232	RCP	15"	26	259.05	258.92	0.50%
P #233	RCP	15"	145	258.72	257.55	0.80%
P #234	RCP	15"	27	257.46	257.32	0.50%
P #235	RCP	15"	48	256.81	256.58	0.50%
P #236	RCP	18"	114	257.12	256.24	0.77%
P #237	RCP	24"	68	256.04	255.15	1.30%
P #238	RCP	30"	109	254.86	250.51	4.00%
P #239	RCP	30"	54	248.29	248.00	0.54%
P #240	RCP	18"	62	249.50	248.00	2.40%

P #140	CLASS IV RCP	18"	48	286.22	285.37	1.78%
		PIPE	TABLE	Ξ		
PIPE NO	TYPE	SIZE	LF	INV. IN	INV. OUT	GRADE
P #241	RCP	18"	55	246.50	241.24	9.52%
P #242	CLASS IV RCP	24"	137	235.68	235.00	0.50%
P #243	CLASS IV RCP	18"	75	236.26	235.88	0.50%
P #244	CLASS IV RCP	18"	92	236.92	236.46	0.50%
P #245	CLASS IV RCP	18"	37	237.30	237.12	0.50%
P #246	CLASS IV RCP	15"	146	239.72	237.50	1.51%
P #247	RCP	15"	82	241.86	239.92	2.36%
P #248	RCP	15"	77	244.55	242.06	3.24%
P #249	RCP	15"	31	262.22	261.63	1.90%
P #250	RCP	15"	82	261.43	257.68	4.58%
P #251	RCP	15"	40	257.48	255.43	5.09%
P #252	RCP	15"	27	255.23	254.86	1.36%
P #253	RCP	18"	106	254.61	254.08	0.50%
P #254	RCP	18"	54	253.88	253.34	1.00%
P #255	RCP	18"	28	255.15	254.88	1.00%
P #256	RCP	18"	51	256.42	255.35	2.10%
P #257	RCP	15"	28	256.13	255.99	0.50%
P #258	RCP	15"	26	256.83	256.70	0.50%
P #259	RCP	24"	150	252.68	247.99	3.12%
P #260	RCP	15"	26	248.84	248.59	1.00%

		PIPE	TABLE	Ē.		
PIPE NO	TYPE	SIZE	LF	INV. IN	INV. OUT	GRADE
P #261	RCP	24"	135	246.56	241.92	3.44%
P #262	RCP	15"	26	242.82	242.30	2.00%
P #263	RCP	24"	160	241.25	240.18	0.67%
P #264	RCP	15"	26	241.21	241.08	0.50%
P #265	RCP	30"	55	239.72	239.19	0.96%
P #266	RCP	36"	26	238.93	238.80	0.50%
P #267	CLASS IV RCP	36"	60	238.60	238.30	0.50%
P #268	CLASS IV RCP	30"	30	238.45	238.30	0.50%
P #269	CLASS IV RCP	42"	112	238.10	237.54	0.50%
P #270	RCP	42"	68	237.34	237.00	0.50%
P #271	RCP	36"	116	239.41	238.83	0.50%
P #272	RCP	30"	79	240.01	239.61	0.50%
P #273	RCP	30"	26	240.34	240.21	0.50%
P #274	RCP	24"	22	240.67	240.54	0.62%
P #275	RCP	24"	91	241.33	240.87	0.50%
P #276	RCP	15"	120	242.13	241.53	0.50%
P #277	RCP	15"	127	242.96	242.33	0.50%
P #278	RCP	30"	177	241.10	240.22	0.50%
P #279	RCP	15"	26	242.90	242.77	0.50%
P #280	RCP	30"	77	241.68	241.30	0.50%

P #160 | RCP | 30" | 49 | 260.77 | 256.72 | 8.26%

		PIPE	TABLE	Ξ		
PIPE NO	TYPE	SIZE	LF	INV. IN	INV. OUT	GRADE
P #281	RCP	30"	62	242.19	241.88	0.50%
P #282	RCP	15"	26	243.56	243.19	1.43%
P #283	CLASS IV RCP	30"	84	242.91	242.49	0.50%
P #284	RCP	24"	73	243.48	243.11	0.50%
P #285	RCP	15"	26	244.53	244.40	0.50%
P #286	RCP	24"	102	244.62	243.68	0.92%
P #287	RCP	18"	39	248.16	246.06	5.34%
P #288	RCP	18"	45	251.33	248.36	6.61%
P #289	RCP	15"	95	255.65	251.71	4.15%
P #290	RCP	15"	26	255.98	255.85	0.50%
P #291	RCP	24"	56	245.10	244.82	0.50%
P #292	RCP	24"	58	245.59	245.30	0.50%
P #293	RCP	18"	26	246.21	246.08	0.50%
P #294	RCP	18"	60	246.19	245.90	0.50%
P #295	RCP	18"	77	246.78	246.39	0.50%
P #296	RCP	15"	26	247.11	246.98	0.50%
P #297	RCP	24"	88	237.00	236.56	0.50%
P #298	CLASS IV RCP	24"	19	234.80	234.65	0.78%
P #299	RCP	36"	77	239.00	238.61	0.50%

PIPE TABLE								
PIPE NO	TYPE	SIZE	LF	INV. IN	INV. OUT	GRADE		
RELOCATION EX. P #01	RCP	15"	37	280.76	280.21	1.48%		
RELOCATION EX. P #02	RCP	18"	22	283.85	283.74	0.50%		
RELOCATION EX. P #03	RCP	15"	21	283.84	283.70	0.65%		
RELOCATION EX. P #04	RCP	15"	29	277.32	276.50	2.80%		
RELOCATION EX. P #05	RCP	15"	31	276.63	275.58	3.42%		
RELOCATION EX. P #06	RCP	15"	24	274.79	273.78	4.23%		
RELOCATION EX. P #07	RCP	15"	25	270.31	270.15	0.64%		
RELOCATION EX. P #08	RCP	15"	22	271.44	270.14	5.93%		
RELOCATION EX. P #09	RCP	15"	38	266.68	265.44	3.22%		
RELOCATION EX. P #10	RCP	15"	39	260.96	258.19	7.09%		
RELOCATION EX. P #11	RCP	15"	19	247.55	246.92	3.39%		
RELOCATION EX. P #12	RCP	15"	20	246.00	245.50	2.55%		
RELOCATION EX. P #13	RCP	15"	24	243.33	242.98	1.43%		

RESERVE @ MITCHELL MILL
VN OF ROLESVILLE, WAKE COUNTY, NORTH CAROL
CONSTRUCTION PLANS STORM DRAINAGE

00 03 00 01

DRAWING SHEET C-9.10

	CATCH	BASIN TA	ABLE	
CB NO	SIZE	TOP	INV. IN	INV. OUT
CB #01	2' X 3'	292.07		288.76 W
CB #02	2' X 3'	292.06	288.40 E	288.20 W
CB #03	2' X 3'	290.71	287.84 E	287.64 W
CB #04	2' X 3'	286.39		281.91 NE
CB #05	2' X 3'	284.00	279.46 SW	279.26 N
CB #06	2' X 3'	282.61		278.17 E
CB #07	2' X 3'	282.48	278.04 W	277.84 SE
CB #08	2' X 3'	283.59	277.65 NW 278.73 S	277.45 E
CB #09	2' X 3'	280.22		274.85 N
CB #10	2' X 3'	280.22	274.57 S 275.51 W	274.37 E
CB #11	2' X 3'	276.41		271.97 N
CB #12	2' X 3'	276.36	271.85 S 271.08 W	270.88 E
CB #13	2' X 3'	273.56	268.11 W	267.91 NE
CB #14	2' X 3'	273.41	267.87 S	267.22 N
CB #15	2' X 3'	272.35	266.10 SW 266.10 S	265.90 N
CB #16 (DOUBLE)	2' X 3'	273.08	264.62 S	264.42 N
CB #17	2' X 3'	273.07	264.29 S	264.09 W
CB #18	2' X 3'	275.32		270.89 N
CB #19	2' X 3'	275.34	270.76 S	270.56 E
CB #20	2' X 3'	273.19	264.74 W 263.94 E	263.74 N

	C	ATCH BA	SIN TABLE	
CB NO	SIZE	TOP	INV. IN	INV. OUT
CB #21	2' X 3'	275.81		271.15 E
CB #22	2' X 3'	275.77	271.02 W	270.82 N
CB #23	2' X 3'	276.05	270.57 SW	270.37 N
CB #24	2' X 3'	275.86	270.24 S	270.04 N\
CB #25	2' X 3'	275.10	269.80 SE	269.60 N
CB #26	2' X 3'	273.58		268.87 N
CB #27	2' X 3'	273.36	268.45 S 268.65 SW	268.25 N
CB #28	2' X 3'	271.12		265.80 N
CB #29	2' X 3'	270.88	265.36 S 264.65 SW	264.45 N
CB #30	2' X 3'	267.81		263.37 E
CB #31	2' X 3'	267.81	262.56 S 263.24 W	262.36 N
CB #32	2' X 3'	262.50		254.73 E
CB #33	2' X 3'	262.50	256.00 S 254.50 W 254.20 E	254.00 N
CB #34	2' X 3'	260.48		254.92 E
CB #35	2' X 3'	259.87	253.32 S 254.72 W	253.12 N
CB #36	2' X 3'	259.69	251.04 SW	250.84 E
CB #37	2' X 3'	290.08	285.37 S	285.17 E
CB #38	2' X 3'	288.98	283.85 W	283.65 E
CB #39	2' X 3'	285.22	280.35 W	280.15 N
CB #40	2' X 3'	294.44	289.73 S	289.53 N

CATCH BASIN TABLE							
CB NO	SIZE	TOP	INV. IN	INV. OUT			
CB #41	2' X 3'	293.89	289.24 SE	289.04 W			
CB #42	2' X 3'	305.80		300.69 S			
CB #43	2' X 3'	293.41	288.79 E 288.18 N	287.98 SW			
CB #44	2' X 3'	292.33	286.95 NE	286.75 W			
CB #45	2' X 3'	289.80	284.52 E	284.32 W			
CB #46	2' X 3'	287.47	282.12 E	281.92 W			
CB #47	2' X 3'	286.03	280.68 E	280.48 W			
CB #48	2' X 3'	285.25	279.80 E	279.60 W			
CB #49	2' X 3'	283.99	279.17 SW 278.74 SE	278.54 NW			
CB #50	2' X 3'	279.95		275.52 W			
CB #51	2' X 3'	279.97	275.39 E	275.19 N			
CB #52	2' X 3'	277.77		273.34 W			
CB #53	2' X 3'	277.77	273.13 S 273.21 E	272.93 NW			
CB #54	2' X 3'	277.10	271.79 SE	271.59 NW			
CB #55	2' X 3'	275.69		271.03 SE			
CB #56	2' X 3'	275.98	270.67 NW	270.47 NE			
CB #57	2' X 3'	276.48	270.29 SW 269.00 SE	268.80 N			
CB #58	2' X 3'	274.75		270.09 W			
CB #59	2' X 3'	274.77	269.57 E 268.07 S	267.87 N			
CB #60	2' X 3'	272.51	266.72 S	266.52 E			

CB NO	SIZE	TOP	INV. IN	INV. OUT
CB #61	2' X 3'	272.51	266.39 W	266.19 NE
CB #62	2' X 3'	300.29		295.85 SE
CB #63	2' X 3'	300.03	295.59 NW	294.91 W
CB #64	2' X 3'	291.57		287.13 S
CB #65	2' X 3'	291.42	286.82 E 286.98 N	286.62 W
CB #66	2' X 3'	280.76		276.32 S
CB #67	2' X 3'	280.66	276.20 N 275.95 E	275.28 W
CB #68	2' X 3'	272.04	265.96 SW 266.54 E	265.76 N
CB #69	2' X 3'	272.08	265.58 S	265.38 NW
CB #70	2' X 3'	270.01		265.57 E
CB #71	2' X 3'	270.14	264.84 SE 265.45 W	264.64 N
CB #72	2' X 3'	268.45	263.20 S	263.00 NW
CB #73	2' X 3'	264.03		259.59 NE
CB #74	2' X 3'	264.03	258.32 SE 258.68 SW	257.77 NW
CB #75	2' X 3'	259.88		255.44 NE
CB #76	2' X 3'	259.93	254.64 SW 254.31 SE	254.08 NW
CB #77	2' X 3'	253.58		249.04 E
CB #78 (DOUBLE)	2' X 3'	253.46	246.91 SE 248.53 W	246.71 NE
CB #79	2' X 3'	263.54		259.11 S
CB #80	2' X 3'	263.54	258.98 N	258.78 W

	CATCH BASIN TABLE							
CB NO	SIZE	TOP	INV. IN	INV. OUT				
CB #81	2' X 3'	254.08	245.59 SW 247.89 E	245.39 N				
CB #82	2' X 3'	254.08	244.98 S	244.78 NW				
CB #83	2' X 3'	252.85	244.48 SE	244.28 N				
CB #84	2' X 3'	252.77		245.92 E				
CB #85	2' X 3'	252.54	244.02 S 245.15 W	243.82 N				
CB #86	2' X 3'	272.09	267.11 N	266.91 SW				
CB #87	2' X 3'	271.96		267.25 S				
CB #88	2' X 3'	264.85		259.53 NE				
CB #89	2' X 3'	267.16	259.37 SW 261.37 SE	259.17 NE				
CB #90	2' X 3'	267.10	259.04 SW	258.84 NW				
CB #91	2' X 3'	261.95		257.04 NE				
CB #92	2' X 3'	261.55	255.64 SE 255.96 SW	255.23 NW				
CB #93	2' X 3'	313.77		309.08 NW				
CB #94	2' X 3'	307.40	302.38 SE	302.18 NW				
CB #95	2' X 3'	298.12	293.68 SE	293.48 NW				
CB #96	2' X 3'	285.15	280.02 SE	279.82 NW				
CB #97	2' X 3'	276.03	270.99 SE	270.79 NW				
CB #98	2' X 3'	270.89	265.64 SE	265.44 NW				
CB #99	2' X 3'	266.43	261.07 SE	260.87 NW				
CB #100	2' X 3'	259.31	253.30 SE	251.91 NE				

CB NO	SIZE	TOP	INV. IN	INV. OL
CB #101	2' X 3'	258.53	249.10 SW	247.75
CB #102	2' X 3'	303.54		298.95 N
CB #103	2' X 3'	293.11	288.52 SE	288.14 N
CB #104	2' X 3'	285.05	280.61 SE	280.41 N
CB #105	2' X 3'	276.48	271.94 SE	271.74
CB #106	2' X 3'	272.59	268.46 S	268.001
CB #107	2' X 3'	268.91	264.27 NW 264.36 SW	263.58
CB #108	2' X 3'	268.90		264.46
CB #109 (DOUBLE)	2' X 3'	266.95	261.65 SE 262.28 W	261.45 [
CB #110	2' X 3'	272.84	268.24 NE 267.59 SE	267.34 N
CB #111	2' X 3'	272.81		268.37 5
CB #112	2' X 3'	279.22		274.52 \$
CB #113	2' X 3'	279.19	274.39 NE 274.48 SE	273.94 N
CB #114	2' X 3'	285.58	281.14 SE 281.02 NE	280.82 N
CB #115	2' X 3'	285.59		281.15
CB #116	2' X 3'	289.79	285.36 SE	285.16 N
CB #117	2' X 3'	294.72	290.06 NE 290.19 S	289.86 N
CB #118	2' X 3'	294.61		290.19
CB #119	2' X 3'	299.51	295.07 E	294.78
CB #120	2' X 3'	299.66		295.22

	C/	ATCH BAS	SIN TABLE	
CB NO	SIZE	TOP	INV. IN	INV. OUT
CB #121	2' X 3'	266.95	261.03 SW	260.77 N
CB #122	2' X 3'	262.70	256.72 S	256.43 NE
CB #123	2' X 3'	257.73	251.85 SW 253.12 NW 253.16 S	251.10 NE
CB #124	2' X 3'	257.74		253.31 SE
CB #125	2' X 3'	251.66	244.55 E 245.32 SW	244.35 NW
CB #126	2' X 3'	251.74	246.33 NE 245.20 SE	244.77 W
CB #127	2' X 3'	251.73		246.46 SW
CB #128	2' X 3'	254.19	248.26 S	247.68 NW
CB #129	2' X 3'	257.55	252.78 S 253.11 E	251.62 N
CB #130	2' X 3'	257.93		253.49 W
CB #131	2' X 3'	265.68	261.11 E 261.25 S	260.86 N
CB #132	2' X 3'	265.68		261.24 W
CB #133	2' X 3'	276.69		272.25 W
CB #134	2' X 3'	276.66	272.12 E 272.22 S	271.92 N
CB #135	2' X 3'	287.10	278.87 E 281.55 S	278.67 N
CB #136	2' X 3'	290.32		285.00 N
CB #137	2' X 3'	287.34	279.21 SE	279.01 W
CB #138	2' X 3'	287.21	279.60 E	279.40 NW
CB #139	2' X 3'	284.70	280.13 S	279.93 W
CB #140	2' X 3'	284.70		280.26 N

CB NO	SIZE	TOP	INV. IN	INV. OUT
CB #141	2' X 3'	251.65	244.16 SE	243.70 N
CB #142	2' X 3'	248.73	241.76 SE 243.70 S	241.56 NW
CB #143	2' X 3'	249.91	245.03 SW	244.83 N
CB #144	2' X 3'	251.14	245.93 SW 246.70 W	245.73 NE
CB #145	2' X 3'	251.43		246.99 E
CB #146	2' X 3'	254.03		249.59 SE
CB #147	2' X 3'	254.00	248.23 SW 249.46 NW	248.03 NE
CB #148	2' X 3'	257.52	252.75 SW	252.55 NE
CB #149	2' X 3'	260.46		255.95 NE
CB #150	2' X 3'	248.75	241.54 NE 243.84 SE 242.52 SW	241.34 NW
CB #151	2' X 3'	248.07		243.64 NW
CB #152	2' X 3'	248.07	243.45 SE	243.25 NE
CB #153	2' X 3'	248.76		244.04 NW
CB #154	2' X 3'	251.32	245.17 SE 245.60 N	244.97 SW
CB #155	2' X 3'	251.35	246.08 E	245.56 NW
CB #156	2' X 3'	253.03	247.77 NE 247.00 SE	246.78 W
CB #157 (DOUBLE)	2' X 3'	253.02	248.22 N	248.02 SW
CB #158	2' X 3'	254.64		249.84 S
CB #159	2' X 3'	253.83	249.11 SE	248.91 NW
CB #160	2' X 3'	255.17	250.73 NE 250.42 SE	249.92 NW

CATCH BASIN TABLE

CB NO	SIZE	TOP	INV. IN	INV. OUT
CB #161	2' X 3'	255.43		250.99 SW
CB #162	2' X 3'	258.52	253.81 E	253.57 NW
CB #163	2' X 3'	263.28	258.84 E	258.57 W
CB #164	2' X 3'	268.05	263.61 N 263.61 NE	263.41 W
CB #165	2' X 3'	270.00		265.56 S
CB #166	2' X 3'	272.31	266.99 NE	266.79 SW
CB #167	2' X 3'	274.79	267.66 SE	267.46 SW
CB #168	2' X 3'	253.12	248.41 N 247.45 E	247.17 S
CB #169 (DOUBLE)	2' X 3'	253.11	247.78 SE	247.58 W
CB #170	2' X 3'	254.48	248.96 E	248.69 NW
CB #171	2' X 3'	257.21	252.77 SE 252.43 E	252.23 W
CB #172	2' X 3'	258.37		253.94 NW
CB #173	2' X 3'	262.54	257.81 E	257.54 W
CB #174	2' X 3'	269.03	264.40 S 264.33 E	264.10 W
CB #175	2' X 3'	269.03		264.59 N
CB #176	2' X 3'	277.04	272.33 E	272.13 W
CB #177	2' X 3'	283.28	278.66 S	278.46 W
CB #178	2' X 3'	283.28		278.85 N
CB #179	2' X 3'	253.84	249.03 N	248.83 S
CB #180	2' X 3'	255.81	251.25 E 251.37 N	250.94 S

CATCH BASIN TABLE

	C <i>F</i>	ATCH BAS	SIN TABLE	-
CB NO	SIZE	TOP	INV. IN	INV. OUT
CB #181	2' X 3'	255.81		251.37 W
CB #182	2' X 3'	258.48	253.92 E	253.72 S
CB #183	2' X 3'	258.48		254.05 W
CB #184	2' X 3'	263.48		259.05 E
CB #185	2' X 3'	263.48	258.92 W	258.72 N
CB #186	2' X 3'	262.21	257.55 S 257.32 W	257.12 N
CB #187	2' X 3'	261.90		257.46 E
CB #188	2' X 3'	261.25		256.81 E
CB #189	2' X 3'	261.01	256.24 S 256.58 W	256.04 N
CB #190	2' X 3'	260.40	255.15 S	254.86 NE
CB #191	2' X 3'	248.99		244.55 S
CB #192	2' X 3'	246.50	242.06 N	241.86 S
CB #193	2' X 3'	244.36	239.92 N	239.72 S
CB #194	2' X 3'	241.02	237.50 N	237.30 SE
CB #195	2' X 3'	241.06	237.12 NW	236.92 S
CB #196	2' X 3'	238.62	236.46 N	236.26 SE
CB #197	2' X 3'	238.43	235.88 NW	235.68 SE
CB #198	2' X 3'	242.79		238.45 SE
CB #199	2' X 3'	243.31	238.30 NE 238.30 NW	238.10 SE
CB #200	2' X 3'	245.13	238.80 N 238.83 NE	238.60 SW

	CA	ATCH BAS	SIN TABLE	
CB NO	SIZE	TOP	INV. IN	INV. OUT
CB #201	2' X 3'	245.05	239.19 NE	238.93 S
CB #202	2' X 3'	245.58	241.08 E 240.18 N	239.72 SW
CB #203	2' X 3'	245.65		241.21 W
CB #204	2' X 3'	247.25	242.30 E 241.92 N	241.25 S
CB #205	2' X 3'	247.26		242.82 W
CB #206	2' X 3'	253.24	248.59 E 247.99 N	246.56 S
CB #207	2' X 3'	253.28		248.84 W
CB #208	2' X 3'	259.93	254.88 E 253.34 NW	252.68 S
CB #209	2' X 3'	260.59	255.99 NW 254.08 W	253.88 SE
CB #210	2' X 3'	259.32	254.86 N	254.61 E
CB #211	2' X 3'	259.95	255.43 NW	255.23 S
CB #212	2' X 3'	262.12	257.68 N	257.48 SE
CB #213	2' X 3'	266.07	261.63 N	261.43 S
CB #214	2' X 3'	260.15	255.35 NE	255.15 W
CB #215	2' X 3'	261.27	256.70 N	256.42 SW
CB #216	2' X 3'	261.26		256.83 S
CB #217	2' X 3'	260.57		256.13 SE
CB #218	2' X 3'	246.06	239.61 NE	239.41 SW
CB #219	2' X 3'	246.44	240.22 NE 240.21 N	240.01 SW
CB #220	2' X 3'	246.44	240.54 N	240.34 S

	CATCH	BASIN TA	ABLE	
CB NO	SIZE	TOP	INV. IN	INV. OUT
CB #221	2' X 3'	247.31	241.30 NE 242.77 N	241.10 SW
CB #222	2' X 3'	247.34		242.90 S
CB #223	2' X 3'	247.68	241.88 NE	241.68 SW
CB #224	2' X 3'	247.98	242.49 NE 243.19 NW	242.19 SW
CB #225	2' X 3'	248.00		243.56 SE
CB #226	2' X 3'	248.38	243.11 NE	242.91 SW
CB #227	2' X 3'	248.93	243.68 N 244.40 NW	243.48 SW
CB #228	2' X 3'	248.97		244.53 SE
CB #229	2' X 3'	251.45	246.06 NW 244.82 E	244.62 S
CB #230	2' X 3'	253.17	248.36 NW	248.16 SE
CB #231	2' X 3'	256.14	251.71 W	251.33 SE
CB #232	2' X 3'	260.42	255.85 N	255.65 E
CB #233	2' X 3'	260.42		255.98 S
CB #234	2' X 3'	251.46	245.30 E	245.10 W
CB #235	2' X 3'	250.92	245.90 E 246.08 N	245.59 W
CB #236 (DOUBLE)	2' X 3'	250.92		246.21 S
CB #237	2' X 3'	251.17	246.39 E	246.19 W
CB #238	2' X 3'	251.54	246.98 N	246.78 W
CB #239	2' X 3'	251.55		247.11 S
JUNCTION BOX	2' X 3'	284.80	280.17 S 279.36 E	279.16 NW

	Υ	ARD INLE	T TABLE	
YI NO	SIZE	TOP	INV. IN	INV. OUT
YI #601	2' X 3'	280.17		275.73 E
YI #602	2' X 3'	277.34	272.77 W	272.57 E
YI #603	2' X 3'	274.33	268.64 W	268.44 N
YI #604	2' X 3'	272.35	265.48 S	265.28 N
YI #605	2' X 3'	259.20		254.76 W
YI #606	2' X 3'	290.93		286.22 N
YI #607	2' X 3'	273.84		270.04 NV
YI #608	2' X 3'	250.06	243.18 S	242.98 NV
YI #609	2' X 3'	250.05	242.49 SE	242.29 NV
YI #610	2' X 3'	258.54		249.50 NV

	Y	ARD INLE	T TABLE	
YI NO	SIZE	TOP	INV. IN	INV. OUT
YI #611	2' X 3'	247.40		242.96 SW
YI #612	2' X 3'	246.90	242.33 NE	242.13 SW
YI #613	2' X 3'	246.00	241.53 NE	241.33 S
YI #614	2' X 3'	246.81	240.87 N	240.67 S
YI #615	2' X 3'	267.32		262.22 S
YI #616	2' X 3'	271.95		268.07 NW
YI #617	2' X 3'	262.06	255.90 SE	255.70 N
YI #618	2' X 3'	269.35	265.37 SE	265.17 NW

	D	ROP INLE	T TABLE	
DI NO	SIZE	TOP	INV. IN	INV. OUT
DI #201	2' X 3'	282.85		278.41 W
DI #202	2' X 3'	274.61	269.90 E	269.70 W
DI #203	2' X 3'	269.17	264.47 E	264.27 SW
DI #204	2' X 3'	267.17	261.93 NE 261.93 SE	261.51 NW
DI #205	2' X 3'	270.30		265.79 W
DI #206	2' X 3'	263.44	258.71 E	258.51 W
DI #207	2' X 3'	259.37	254.72 E	254.52 SW
DI #208	2' X 3'	258.20	251.46 SE 252.24 NE	251.26 NW
DI #209	2' X 3'	289.79		285.35 SW
DI #210	2' X 3'	288.19	283.35 NE 283.75 SE	283.15 NW
DI #211	2' X 3'	294.70		290.26 NW

		ROP INL	ET TABLE	
DI NO	SIZE	TOP	INV. IN	INV. OU
DI #212	2' X 3'	279.68	275.48 SE	275.28 N
DI #213	2' X 3'	290.50		286.06 N
DI #214	2' X 3'	283.24		278.80 S
DI #215	2' X 3'	285.44	278.58 SE 278.58 NW	278.38 S\
DI #216	2' X 3'	279.20	274.38 NE	274.18 S\
DI #217	2' X 3'	275.84	271.34 NE 271.09 SE	270.89 N\
DI #218	2' X 3'	272.46	266.63 NE 266.51 SE	266.31 N\
DI #219	2' X 3'	257.09	251.50 SE	251.30 S\
DI #220	2' X 3'	254.26	248.13 NE	247.93 SV
DI #221	2' X 3'	252.20	243.16 NE 243.16 S	242.96 N\

		SDMH TA	ABLE	
SDMH NO	SIZE	TOP	INV. IN	INV. OUT
SDMH #501	4'	269.04	262.67 S	262.47 NW
SDMH #502	4'	257.23	248.04 W	247.84 N
SDMH #503	4'	249.40	240.65 S	240.45 W
SDMH #504	4'	247.47	240.10 SE	239.90 NW
SDMH #505	4'	248.54	241.16 SE	240.96 W
SDMH #506	4'	246.84	240.43 SE	240.23 N
SDMH #507	4'	258.38	250.51 SW	248.29 N
SDMH #508	4'	244.10	237.54 NW	237.34 SE

	ocs	TABLE	
OCS NO	SIZE	TOP	INV. OUT
OCS #401	2' X 3'	265.20	262.00 N
OCS #402	2' X 3'	244.00	237.00 N
OCS #403	2' X 3'	243.25	239.00 N
OCS #404	2' X 3'	244.25	239.00 NW
OCS #405	2' X 3'	243.85	240.00 N
OCS #406	2' X 3'	253.00	246.50 NW
OCS #407	2' X 3'	241.25	237.00 SE

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FES NO	SIZE	INV. OUT
FES #301	36"	262.00 SE
FES #302	24"	261.54 S
FES #303	30"	240.00 E
FES #304	24"	234.19 S
FES #305	24"	240.00 SW
FES #306	42"	239.00 SE
FES #307	24"	238.42 S
FES #308	30"	278.27 SE
FES #309	42"	240.00 E
FES #310	36"	238.61 SE

FES TABLE

F	ES TAB	LE
FES NO	SIZE	INV. OUT
FES #311	36"	240.00 S
FES #312	36"	237.51 S
FES #313	30"	248.00 S
FES #314	18"	241.24 SE
FES #315	42"	237.00 NW
FES #316	24"	236.56 NW
FES #317	18"	248.00 SE

RESERVE @ MITCHELL MILL
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA
CONSTRUCTION PLANS

STORM DRAINAGE TABLES

DRAWING SHEET

C-9.11

OFFSITE SPOIL NOTE:

IF AN OFFSITE SOIL SPOIL OR BORROW SITE IS UTILIZED, THEN THE DISTURBED AREA FOR THE SPOIL/BORROW SITE MUST BE INCLUDED IN THE LAND-DISTURBANCE PLAN AND PERMIT UNLESS THE SPOIL/BORROW SITE ALREADY HAS A SEPARATE LAND-DISTURBANCE PERMIT.

STAGE 1 SPECIFIC SEQUENCE:

- SCHEDULE AND HOLD A PRE-CONSTRUCTION CONFERENCE PRIOR TO BEGINNING ANY LAND-DISTURBING ACTIVITIES. THIS CONFERENCE SHOULD BE ATTENDED BY A REPRESENTATIVE OF THE FINANCIALLY RESPONSIBLE PARTY AND/OR THE GENERAL CONTRACTOR, GRADING SUB-CONTRACTOR, EROSION CONTROL SUB-CONTRACTOR AND THE WAKE COUNTY S&E OFFICE.
- . OBTAIN LAND DISTURBING PERMIT AND PLACARD, AND POST THE PLACARD ON SITE.
- 3. OBTAIN AN APPROVED (STAMPED) S&E CONTROL PLAN AND KEEP IT ON SITE, EITHER IN THE INSPECTION BOX, CONSTRUCTION OFFICE OR WITH THE CONTRACTOR.
- 4. OBTAIN THE 401/404 PERMIT (IF APPLICABLE) AND KEEP IT ON-SITE. ENSURE ALL REQUIREMENTS OF THE PERMIT ARE MET.
- INSTALL CONSTRUTION EGRESS/EXITS, SILT FENCING, ADD ROLLED EROSION CONTROL PRODUCT. JACK AND BORE SEWER CONNECTION SHOULD ALSO BEGIN OPERATION. ENSURE SAFE SHOWRING AND MAINTAIN CLEAR ZONES AROUND THE PITS.
- THE INSTALLATION OF SEDIMENT TRAPS/BASINS, DIVERSION DITCHES, TEMPORARY PIES, CLEAR WATER DIVERSION, CHECK DAMS, AND OTHER INITIAL EROSION CONTROL MEASURES SHOULD COMMENCE AFTER THE JACK AND BORE OPERATION AS SPECIFIED IN THE PLAN. REMOVE ONLY TREES AND GROUND COVER NECESSRY TO INSTALL THESE DEVICES, SEE "STREAM CROSSING SEQUENCE."
- IF A STOCKPILE IS NECESSARY DUE TO EXCAVATION OF THE SEDIMENT TRAP/BASIN, PLACE A DOUBLE ROW OF SILT FENCE 10 FEET APART. TREES AND GROUNDCOVER MAY BE REMOVED ONLY AS NECESSARY FOR THIS STOCKPILE. IF MATERIAL IS GOING TO BE HAULED OFF-SITE, A SEPARATE EROSION CONTROL PERMIT MUST BE OBTAINED FOR THE DESTINATION OF THE MATERIAL. SEE 'STOCKPILE NOTES.'
- 3. NOTIFY THE WAKE COUNTY S&E SITE INSPECTOR AFTER MEASURES HAVE BEEN INSTALLED AND PROJECT HAS STARTED
-). PROVIDE TEMPORARY GROUNDCOVER FOR DIVERSION DITCHES AND SEDIMENT TRAPS/BASINS WITHIN 3 DAYS OF COMPLETION.
- 10. CALL ENVIRONMENTAL CONSULTANT FOR AN ONSITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT TO OBTAIN A CERTIFICATE OF COMPLIANCE.
- I1. $\,$ BEGIN CLEARING, GRUBBING AND GRADING OF SITE IN ACCORDANCE WITH THE APPROVED S&E CONTROL PLAN.

STAGE 2 SPECIFIC SEQUENCE:

- AFTER CONTRACTOR HAS COMPLETED ROUGH GRADING OPERATIONS:
- A. TEMPORARY GROUND COVER SUFFICIENT TO RESTRAIN EROSION SHALL BE PROVIDED AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) DAYS AFTER COMPLETING THE WORK.
- B. PERMANENTLY STABILIZE ALL SLOPES AND/OR OTHER AREAS THAT ARE AT FINAL GRADE. REFER TO SEEDING DETAILS.
- INSTALL UTILITIES, INCLUDING STORM NETWORK. CONTRACTOR SHALL ONLY EXCAVATE THE AMOUNT OF TRENCH TO ALLOW FOR ONE DAY OF PIPE INSTALLATION. STABILIZE GROUND COVER AS WORK IS COMPLETED.
- A. USE BERMS, DIVERSIONS, AND PIPE INLET PROTECTION TO PREVENT SEDIMENT RUNOFF FROM ENTERING THE STORM SYSTEM.
- B. INSTALL INLET PROTECTION ON ALL COMPLETED STORM STRUCTURES.
- 3. COMPLETE OUTSTANDING CONSTRUCTION; RETAINING WALLS (STABILIZE UPSLOPE), PAVING, FINE GRADING, ETC. STABILIZE GROUND COVER AS WORK IS COMPLETED.
- I. PERMANENTLY STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENUDED AREAS PER GROUND STABILIZATION TIME FRAMES.

STAGE 3 SPECIFIC SEQUENCE:

- WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL ENVIRONMENTAL CONSULTANT FOR AN INSPECTION.
- 2. IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATORS, SHOULD NOW BE INSTALLED.
- 3. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT. OBTAIN A CERTIFICATE OF COMPLETION.
- I. WAKE COUNTY MUST GRANT PERMISSION TO CONVERT THE SEDIMENT BASIN OVER TO STORMWATER USE PRIOR TO COMPLETING ANY RELATED WORK. SEE 'BASIN REMOVAL
- 5. ADHERE TO ALL REQUIREMENTS OF THE 401/404 PERMIT (IF APPLICABLE).

BASIN REMOVAL SEQUENCE

- SCHEDULE A SITE MEETING WITH THE ENVIRONMENTAL CONSULTANT TO DETERMINE IF A BASIN CAN BE REMOVED. INSTALL SILT FENCING OR OTHER TEMPORARY EROSION CONTROL MEASURES AS NEEDED PRIOR TO REMOVAL OF THE BASIN.
- CONTACT NCDEQ RALEIGH REGIONAL OFFICE (919) 791-4200 TO DETERMINE THE DIVISION OF ENERGY, MINERAL AND LAND RESOURCES CONTACT PERSON TO RECEIVE DEWATERING NOTIFICATIONS. AT LEAST 10 DAYS PRIOR TO BEGINNING DEWATERING ACTIVITY, SEND EMAIL TO NCDEQ-DEMLR CONTACT PERSON AND COPY ENVIRONMENTAL CONSULTANT THAT MET YOU ONSITE. THE EMAIL SHOULD INCLUDE: E&SC JURISDICTION: WAKE COUNTY, WAKE COUNTY PROJECT: NAME, NUMBER, AND LOCATION (CITY/TOWN), ENVIRONMENTAL CONSULTANT NAME, AND ADDRESS THE FOLLOWING: A)REASON FOR CONVERSION, B)BASIN #, C)DEWATERING METHOD, AND D) ALL OTHER NECESSARY INFO FROM PART II, SECTION G, ITEM 4 OF THE NCG01. (KEEP EMAIL FOR YOUR NPDES MONITORING DOCUMENTATION)
- AFTER RECEIVING POSITIVE CONFIRMATION FROM NCDEQ-DEMLR THAT YOU MAY REMOVE THE BASIN OR ON > DAY 11, WHICHEVER IS SOONER. REMOVE BASIN(S) AND ASSOCIATED TEMPORARY DIVERSION DITCHES. IF PIPES NEED TO BE EXTENDED, PERFORM THIS OPERATION AT THIS TIME. FINE GRADE AREA IN PREPARATION FOR
- I. PERFORM SEEDBED PREPARATION, SEED, MULCH AND ANCHOR ANY RESULTING BARE AREAS IMMEDIATELY.
- INSTALL VELOCITY DISSIPATORS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CONTROL PLAN.
- WHEN SITE IS FULLY STABILIZED, CALL ENVIRONMENTAL CONSULTANT FOR APPROVAL OF REMOVING REMAINING TEMPORARY EROSION CONTROL MEASURES AND ADVICE ON WHEN SITE CAN BE ISSUED A CERTIFICATE OF COMPLETION. NOTE: A MEETING SHOULD ALSO BE SCHEDULED WITH THE ENVIRONMENTAL CONSULTANT TO DETERMINE WHEN A BASIN MAY BE CONVERTED FOR STORMWATER USE. SOME MUNICIPALITIES MAY ALSO REQUIRE THIS.

EROSION CONTROL NARRATIVE

- THE PURPOSE OF THIS PLAN IS TO DEVELOP 390 LOTS RESIDENTIAL SUBDIVISION. LAND DISTURBANCE WILL BE KEPT TO THE MINIMUM AMOUNT NEEDED TO INSTALL THE INFRUSTRAUTRE, STORMWATER DEVICES AND ROUGH GRADED LOTS SHOWN ON THE PLANS
- EROSION SHALL BE CONTROLLED BY USING A COMBINATION OF TEMPORARY AND PERMANENT STABILIZATION MEASURES THROUGHOUT THE SITE. IN GENERAL STRIPPING OF VEGETATION, REGRADING OR OTHER DEVELOPMENT IS TO BE DONE IN SUCH A WAY THAT WILL MINIMIZE EROSION, EROSION AND SEDIMENT WILL BE CONTROLLED BY SILT FENCE, DIVERSION DITCHES, DAMS, SEDIMENT/SKIMMER BASINS, INLET AND OUTLET PROTECTION, SLOPE DRAINS AND EROSION CONTROLMATTING. CONSTRUCTION ENTRANCES WILL PROVIDE ACCESS TO THE SITE. THE AMOUNT OF DISTURBED AREA AND THE DURATION OF EXPOSURE WILL BE KEPT TO A PRACTICAL MINIMUM AND PERMANENT VEGETATION AND SCM'S WILL BE INSTALLED AS SOON AS POSSIBLE TO PREVENT EROSION.

STREAM CROSSING SEQUENCE:

- INSTALL CROSSINGS PRIOR TO ANY OTHER ACTIVITIES. PLACE CROSSINGS IN TEMPORARY CONSTRUCTION EASEMENTS ONLY.
- MINIMIZE STREAMBANK CLEARING. DO NOT EXCAVATE ROCK BOTTOM STREAMBEDS TO INSTALL THE CROSSING. LAY THE CULVERT PIPES ON THE STREAMBED "AS IS" WHEN APPLICABLE. PLACE AS MANY PIPES AS POSSIBLE WITHIN THE LOW AREA OF THE STREAM. PLACE REMAINING PIPES REQUIRED TO CROSS THE STREAM ON THE EXISTING STREAM BOTTOM.
- INSTALL PIPES WITH A MAXIMUM SPACING OF 12-INCHES BETWEEN PIPES. THE MINIMUM SIZED PIPE CULVERT THAT MAY BE USED IS
- I. INSTALL CULVERTS WITH A LENGTH THAT EXTEND THE FULL WIDTH OF THE CROSSING, INCLUDING SIDE SLOPES.
- 5 TEMPORARY STREAM CROSSING
- * USE COARSE AGGREGATE OF CLEAN LIMESTONE RIPRAP WITH A 6-INCH D50 OR GREATER TO FORM THE CROSSING. INSTALL THE STONE COVER OVER THE CULVERT EQUAL TO ½ THE DIAMETER OF THE CULVERT OR 12-INCHES, WHICHEVER IS GREATER, BUT NO GREATER THAN 18-INCHES. * LIMIT ALL FILL MATERIALS ASSOCIATED WITH THE ROADWAY APPROACH TO A MAXIMUM HEIGHT OF 2-FEET ABOVE THE EXISTING FLOOD PLAIN ELEVATION.

EROSION CONTROL NOTES:

- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST TOWN OF ROLESVILLE STANDARDS, SPECIFICATIONS AND DETAILS.
- GRADING AND EROSION CONTROL METHODS SHALL ADHERE TO THE TOWN OF ROLESVILLE SOIL AND EROSION CONTROL STANDARDS AND SPECIFICATIONS.
- GRADING AND EROSION CONTROL METHODS SHALL ADHERE TO THE NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES DIVISION OF WATER QUALITY (DWQ) STANDARDS AND SPECIFICATIONS. WHERE DIFFERENT FROM WAKE COUNTY STANDARDS, THE MORE STRINGENT METHOD SHALL BE APPLIED.
- FAILURE TO FOLLOW THE APPROVED PLAN SEQUENCE AND DETAILS COULD SUBJECT THE FINANCIALLY RESPONSIBLE PARTY TO FINES AND PENALTIES ISSUED BY EITHER THE WAKE COUNTY EROSION CONTROL DEPARTMENT OR THE DWO.
- CONTRACTOR SHALL SEED AND STABILIZE ALL STEEP SLOPES (GREATER THAN 2H:1V) WITHIN 7 DAYS, 10 DAYS FOR MODERATE SLOPES (3H:1V OR GREATER) AND WITHIN 14 CALENDAR DAYS EVERYWHERE ELSE (STATE LAW 2009-486).
- FOR ANY LAND-DISTURBING ACTIVITY WHERE GRADING ACTIVITIES HAVE BEEN COMPLETED, TEMPORARY OR PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN EROSION SHALL BE PROVIDED AS SOON AS PRACTICAL, BUT IN NO CASE LATER THAN SEVEN (7) DAYS AFTER COMPLETING THE WORK. STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON LARGE DENUDED AREAS AND WHEN SPECIFICALLY REQUIRED AS PART OF THE CONSTRUCTION SEQUENCE ON THE PLAN.
- NO DEBRIS SHALL BE TRACKED ONTO PUBLIC RIGHT OF WAY. IF THE SITUATION OCCURS WHERE MUD, ROCK AND DEBRIS IS TRACKED ONTO PAVEMENT, THE CONTRACTOR SHALL CLEAN THE PAVEMENT AND INSTALL ADDITIONAL MEASURES TO PREVENT THE FUTURE OCCURRENCE.
- 8. THE EROSION CONTROL INSPECTOR MAY REQUIRE ADDITIONAL FIELD MEASURES AS NECESSARY TO PROVIDE ADEQUATE PROTECTION FROM RECEIVING WATER COURSES. EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON SITE. THE CONTRACTOR SHALL CALL FOR AN INSPECTION BY
- . CONTRACTOR SHALL INSPECT ALL SEDIMENT /EROSION CONTROL DEVICES AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE.
- 1. A COPY OF THE APPROVED EROSION CONTROL PLAN MUST BE ON FILE AT THE JOB SITE AT ALL TIMES.

NCDEQ ONCE INITIAL MEASURES ARE IN PLACE. (SEE CONSTRUCTION SEQUENCES)

- 12. CONSTRUCTION, MAINTENANCE, AND REMOVAL OF ALL EROSION CONTROL DEVICES ARE THE RESPONSIBILITY OF THE GRADING CONTRACTOR UNLESS OTHERWISE NOTED.
- 13. 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.
- 14. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE CITY/COUNTY ENGINEERING DEPARTMENT AND ARE THE
- PROTECTION OF EXISTING VEGETATION: AT THE START OF GRADING INVOLVING THE STRIPPING OF TOPSOIL OR LOWERING OF EXISTING GRADE AROUND A TREE, A CLEAN, SHARP, VERTICAL CUT SHALL BE MADE AT THE EDGE OF THE TREE SAVE AREA AT THE SAME TIME AS OTHER EROSION CONTROL MEASURES ARE INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE. NO STORAGE OF MATERIALS, FILL, OR EQUIPMENT AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECTED AREA AND SHALL BE POSTED ON THE PROTECTION FENCE. A PROTECTION FENCE CONSTRUCTED OF MATERIAL RESISTANT TO DEGRADATION BY SUN, WIND, AND MOISTURE FOR THE DURATION OF THE CONSTRUCTION, SHALL BE INSTALLED AT THE SAME TIME AS THE EROSION CONTROL MEASURES AND SHALL BE IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE.
- . A CONSTRUCTION SEQUENCE HAS BEEN PROVIDED. INSTALLATION OF ALL PROPOSED SEDIMENTATION & EROSION CONTROL MEASURES IN THE SEQUENCE(S) PROVIDED AND MAINTENANCE OF THOSE DEVICES IS REQUIRED. THE CONTRACTOR MAY BE ALLOWED, WITH PRIOR APPROVAL FROM THE OWNER, TO COORDINATE CHANGES TO THE PLAN WITH THE ON-SITE SEDIMENTATION & EROSION CONTROL INSPECTOR AND THE ENGINEER.
- 7. PROVIDE INLET PROTECTION AROUND ALL SITE STORM INLETS. PROTECT OPEN PIPES UNDER CONSTRUCTION WITH EITHER PLYWOOD OR WITH MESH AND GRAVEL WEIRS. RUNOFF SHALL NOT BE ALLOWED IN ANY OPEN TRENCH.
- 18. CONTRACTOR WILL FIELD LOCATE SILT FENCE OUTLETS AT LOW POINTS IN SILT FENCE AS REQUIRED TO PROVIDE RELIEF FROM CONCENTRATED FLOWS AND PONDING.
- TEMPORARY DIVERSIONS SHALL BE MAINTAINED DAILY BY CONTRACTOR SO THAT THEY ARE FUNCTIONAL AT THE END OF EACH WORKDAY AND WHEN STOPPING WORK FOR
- 20. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER
- BE PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN 21. DISTURBANCE OUTSIDE OF THE SITE PROPERTY LIMITS OR PUBLIC RIGHT-OF-WAY SHALL ONLY BE AS ALLOWED BY SIGNED GRADING AGREEMENTS AND/OR EASEMENTS

AND ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL

- 22. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN SAFE OPEN ACCESS TO ALL PROPERTIES ALONG ADJACENT PROPERTIES DURING CONSTRUCTION PERIOD FOR
- 3. SLOPES GREATER THAN 3:1 AND/OR GREATER THAN 10' IN VERTICAL DIFFERENCE SHALL BE INSTALLED WITH ROLLED EROSION CONTROL PRODUCT IMMEDIATELY UPON INSTALLATION.

LIMITS OF DISTURBANCE: 4.745.913 SF (108.95 AC)

LIMITS OF DISTURBANCE PHASE 1: 23.38 AC

RESPONSIBILITY OF THE CONTRACTOR.

- LIMITS OF DISTURBANCE PHASE 2: 16.37 AC LIMITS OF DISTURBANCE PHASE 3: 17.64 AC

Channel Lining

CL #1

CL #2

CL #3

CL #4

CL #5

CL #6

CI #7

CL #8

CL #9

CL #10

CL #11

CL #12

CL #13

14.727

10 696

28,290

15.337

3.424

19,240

19,504

4,763

NUMBER

6

- LIMITS OF DISTURBANCE PHASE 5: 14.75 AC LIMITS OF DISTURBANCE PHASE 6: 18.19 AC LIMITS OF DISTURBANCE OFF-SITE WATER MAIN: 3 47 AC
- LIMITS OF DISTURBANCE OFF-SITE MITCHELL MILL RD IMPROVEMENTS: 0.89 AC

BETWEEN THE DEVELOPER AND THE OFFSITE PROPERTY OWNER.

LIMITS OF DISTURBANCE OFF-SITE JONESVILLE RD IMPROVEMENTS: 0.49 AC LIMITS OF DISTURBANCE OFF-SITE GRO PEG ROAD IMPROVEMENTS: 0.18 AC

15

Length (ft)

457

1543

1105

474

464

677

234

568

945

772

559

772

772

REQUIRED VOLUME (CUBIC FEET) REQUIRED SURFACE AREA (SQUARE FEET)

7.5

Start Point Elev.

285.30

309.90

283.70

269.80

255.40

259.30

291.90

311.20

305.30

265.50

287.00

265.50

265.50

12.688

9 215

24.373

13.214

2.950

16,576

16.803

4,104

			RIP RA	P SUMMARY		
RIP RAP #	MATERIAL	LENGTH (FT)	WIDTH (FT)	STONE DIAMETER (IN)	THICKNESS (IN")	SLOPE DRAIN (IN)
1	Class A	4	3	3	9	12
2	Class I	20	7.5	13	22	30
3	Class B	12	6	6	22	24
4	Class A	6	4.5	3	9	18
5	Class B	12	6	6	22	24
6	Class B	12	6	6	22	24
7	Class A	6	4.5	3	9	18
8	Class B	9	4.5	6	22	18
9	Class A	4	3	3	9	12

End Point

255.00

239.30

240.50

253.30

242.60

244.70

286.30

288 40

251.50

245.00

268.60

245.00

245.00

Drainage Area

1.19

11.29

4.18

1 27

5 81

3.22

1 52

2.89

1.43

7.80

8.18

7.80

7 80

Slope

6.6%

4.6%

3.9%

3.5%

2.8%

2.2%

2.4%

4.0%

5.7%

2.7%

3.3%

2.7%

2.7%

TOP WIDTH (FT)

130

150

85

80

126

TEMPORARY SEDIMENT BASIN SUMMARY

| Sideslope (x:1) | Depth (ft)

1.5

2.0

1.5

1.5

1.5

1.5

1.5

1.5

1.5

1.5

1.5

TOP LENGTH (FT)

250

270

180

260

175

365

293

120

GENERAL SEQUENCE:

ENFORCEMENT NOTE 1. FAILURE TO FOLLOW THIS CONSTRUCTION SEQUENCE MAY RESULT IN LOCAL ENFORCEMENT ACTIONS, INCLUDING BUT NOT LIMITED TO CIVIL PENALTIES TO \$5000 PER VIOLATION PER DAY, INJUNCTIVE RELIEF, CRIMINAL PENALTIES, AND PERMIT REVOCATION. ADDITIONALLY, OFF-SITE SEDIMENTATION MAY RESULT IN RESTORATION REQUIREMENTS.

ENFORCEMENT NOTE 2. IF THE WAKE COUNTY S&E STAFF DETERMINES THAT EXCESSIVE SEDIMENT IS LEAVING THE SITE, A REVISED SEDIMENTATION AND EROSION CONTROL PLAN MAY BE REQUIRED, WITH ASSOCIATED REQUIREMENTS FOR ADDITIONAL S&E MEASURES.

REQUIRED WAKE COUNTY CONSTRUCTION SEQUENCE

- SCHEDULE A PRECONSTRUCTION CONFERENCE WITH THE ENVIRONMENTAL CONSULTANT. OBTAIN A LAND-DISTURBING PERMIT.
- INSTALL GRAVEL CONSTRUCTION PAD. TEMPORARY DIVERSIONS, SILT FENCE, AND PREPARE JACK AND BORE LOCATIONS, INSTALL SEDIMENT BASINS AND OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
- CALL ENVIRONMENTAL CONSULTANT FOR AN ONSITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT TO OBTAIN A CERTIFICATE OF COMPLIANCE.
- BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE.
- AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION. BUILDING, ETC.

INSTALL STORM SEWER, IF SHOWN, AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, SEDIMENT TRAPS OR OTHER APPROVED MEASURES

- STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH DENUDED AREAS PER
- WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL ENVIRONMENTAL CONSULTANT FOR AN INSPECTION.
- IF SITE IS APPROVED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES. SUCH AS VELOCITY DISSIPATORS. SHOULD NOW BE INSTALLED
- WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE ENVIRONMENTAL CONSULTANT. OBTAIN A CERTIFICATE OF COMPLETION.

STOCK PILE NOTES:

- STOCKPILE FOOTPRINTS SHALL BE SETBACK A MINIMUM OF 25' FROM ADJACENT PROPERTY LINES
- 2. STOCKPILE HEIGHT SHALL NOT EXCEED 35 FEET.
- 3. STOCKPILE SLOPES SHALL BE 2:1 OR FLATTER
- I. STOCKPILING MATERIALS ADJACENT TO A DITCH, DRAINAGEWAY, WATERCOURSE, WETLAND, STREAM BUFFER, OR OTHER BODY OF WATER SHALL BE AVOIDED
- UNLESS AN ALTERNATIVE LOCATION IS DEMONSTRATED TO BE UNAVAILABLE.
- 5. ANY CONCENTRATED FLOW LIKELY TO AFFECT THE STOCKPILE SHALL BE DIVERTED TO AN APPROVED BMP
- 6. OFF-SITE SPOIL OR BORROW AREAS MUST BE IN COMPLIANCE WITH WAKE COUNTY UDO AND STATE REGULATIONS. ALL SPOIL AREAS OVER AN ACRE ARE REQUIRED TO HAVE AN APPROVED SEDIMENT CONTROL PLAN. DEVELOPER/CONTRACTOR SHALL NOTIFY WAKE COUNTY OF ANY OFFSITE DISPOSAL OF SOIL, PRIOR TO DISPOSAL. FILL OF FEMA FLOODWAYS AND NON-ENCROACHMENT AREAS ARE PROHIBITED EXCEPT AS OTHERWISE PROVIDED BY SUBSECTION 14-19-2 OF THE WAKE COUNTY UNIFIED DEVELOPMENT ORDINANCE (CERTIFICATIONS AND PERMITS REQUIRED).

MAINTENANCE REQUIREMENTS:

Top

8

10

8

8

8

8

8

8

BOTTOM WIDTH (FT)

112

132

67

26

62

108

Width (ft)

2

2

2

2

2

Velocity

(ft/s)

15.79

13.11

14.24

11 44

10 18

9.00

9.48

12.28

14.63

9.99

11.12

13.19

16.60

Q10 Flow (cfs)

4.23

40.26

14.91

4.52

20.70

11 48

5.40

10.31

5.10

27.80

29.17

9.43

4.82

232

252

162

157

347

275

102

- A. SEEDING OR COVERING STOCKPILES WITH TARPS OR MULCH IS REQUIRED AND WILL REDUCE EROSION PROBLEMS. TARPS SHOULD BE KEYED IN AT THE TOP OF THE SLOPE TO KEEP WATER FROM RUNNING UNDERNEATH THE PLASTIC.
- B. IF A STOCKPILE IS TO REMAIN FOR FUTURE USE AFTER THE PROJECT IS COMPLETE (BUILDERS, ETC.), THE FINANCIAL RESPONSIBLE PARTY MUST NOTIFY WAKE COUNTY OF A NEW RESPONSIBLE PARTY FOR THAT STOCKPILE

Lining Type

NAG; Polypropylene; Double Net; Vegetated

Geocoir/Dekowe: 700

NAG; Polypropylene; Double Net; Vegetated

Geocoir/Dekowe: 700

E. Coast Ero. Blank.; Straw/Coir, 2 Nets

E. Coast Ero, Blank,: Straw, Juke Net

N. Am. Green; Coconut; Double Net

Geocoir/Dekowe: 700

NAG: Polypropylene: Double Net: Vegetated

E. Coast Ero. Blank.; Straw/Coir, 2 Nets

Geocoir/Dekowe; 400

Geocoir/Dekowe; 700

NAG; Polypropylene; Double Net; Vegetated

BOTTOM LENGTH (FT) SKIMMER SIZE (IN) ORIFICE SIZE (IN) DEPTH (FT)

2.00

2.00

2 50

2.00

1.50

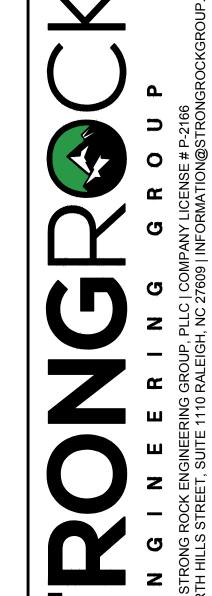
2.50

2.50

1 50

D. ESTABLISH AND MAINTAIN A VEGETATIVE BUFFER AT THE TOE OF THE SLOPE (WHERE PRACTICAL).

DATE	REVISIONS	No.
09/02/202	TOWN OF ROLESVILLE CID-24-04 V5	90
06/02/202	TOWN OF ROLESVILLE CID-24-04 V4	04
02/01/203	TOWN OF ROLESVILLE CID-24-04 V3	60
11/01/202	TOWN OF ROLESVILLE CID-24-04 V2	02
06/04/202	CONSTRUCTION INFRASTRUCTURE DRAWINGS CID-24-04	10



DRAWING SHEET

59 OF 230

THIS PLANSET AND ANY ASSOCIATED DOCUMENTS ARE PRELIMINARY AND NOT AUTHORIZED FOR CONSTRUCTION UNTIL SIGNED, DATED, AND OFFICIALLY RELEASED FOR CONSTRUCTION BY THE ENGINEER OF RECORD.

3.00

3.00

3 00

3.00

3.00

3.00

3.00

3.00

2.00

1.75

2 50

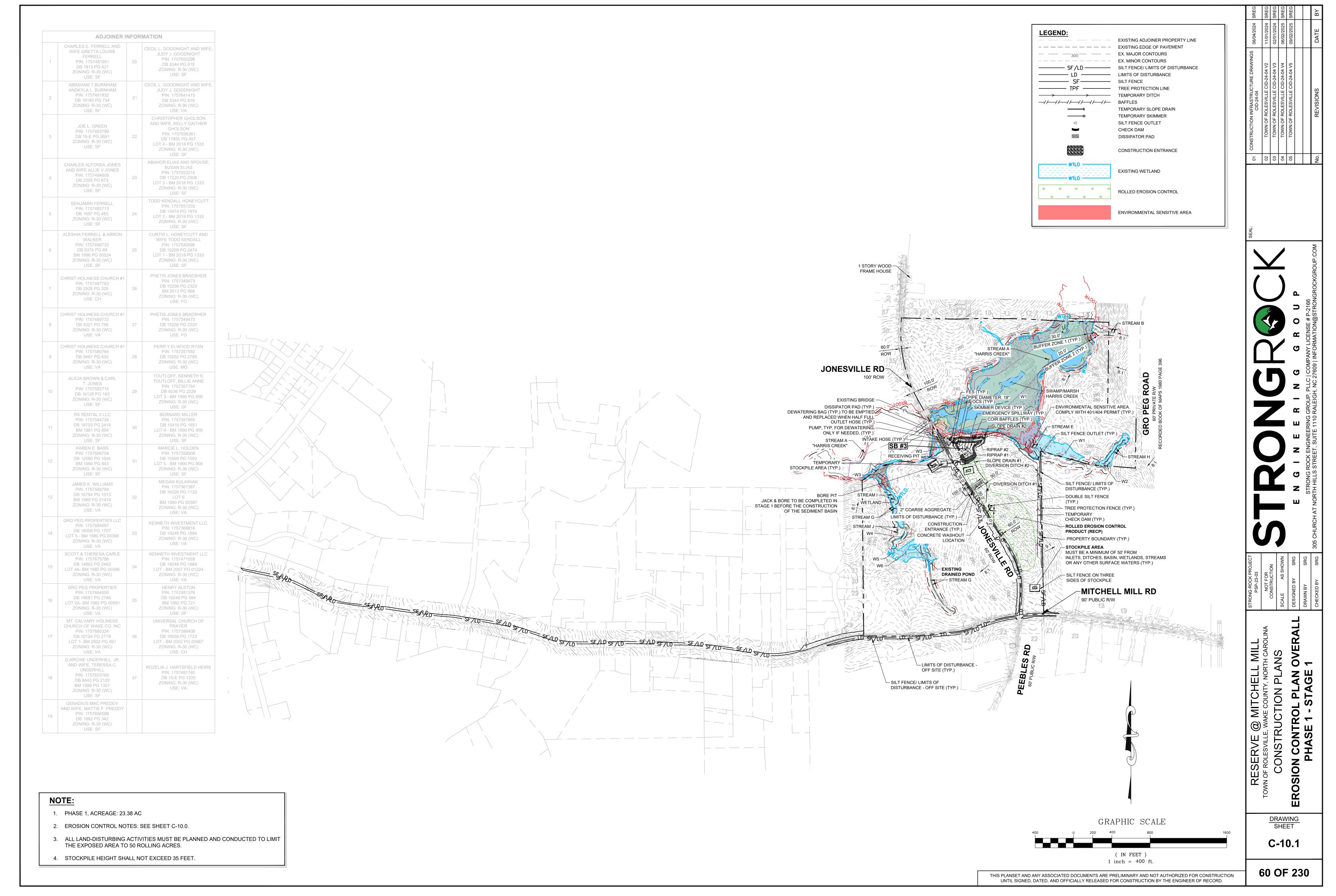
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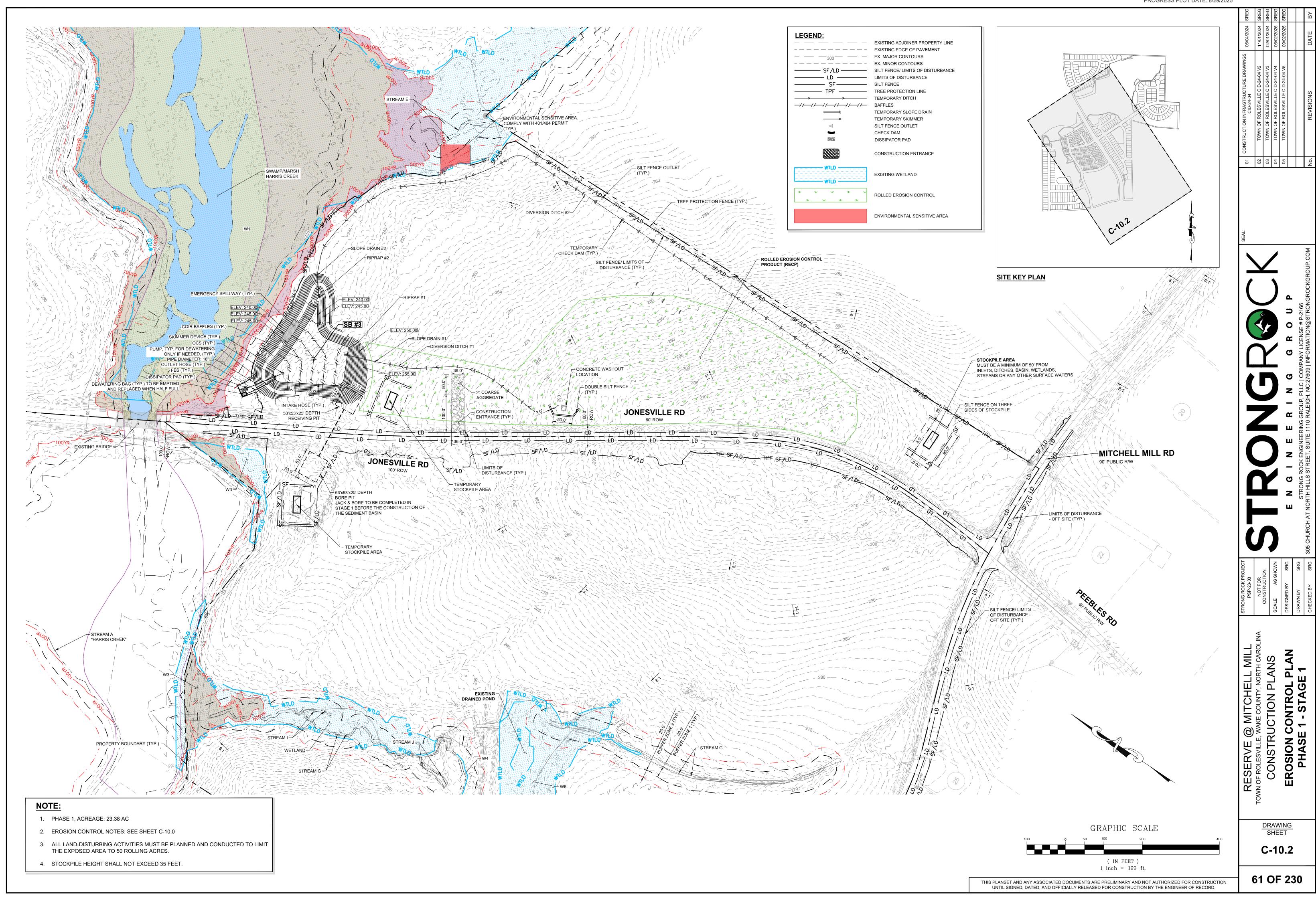
1.00

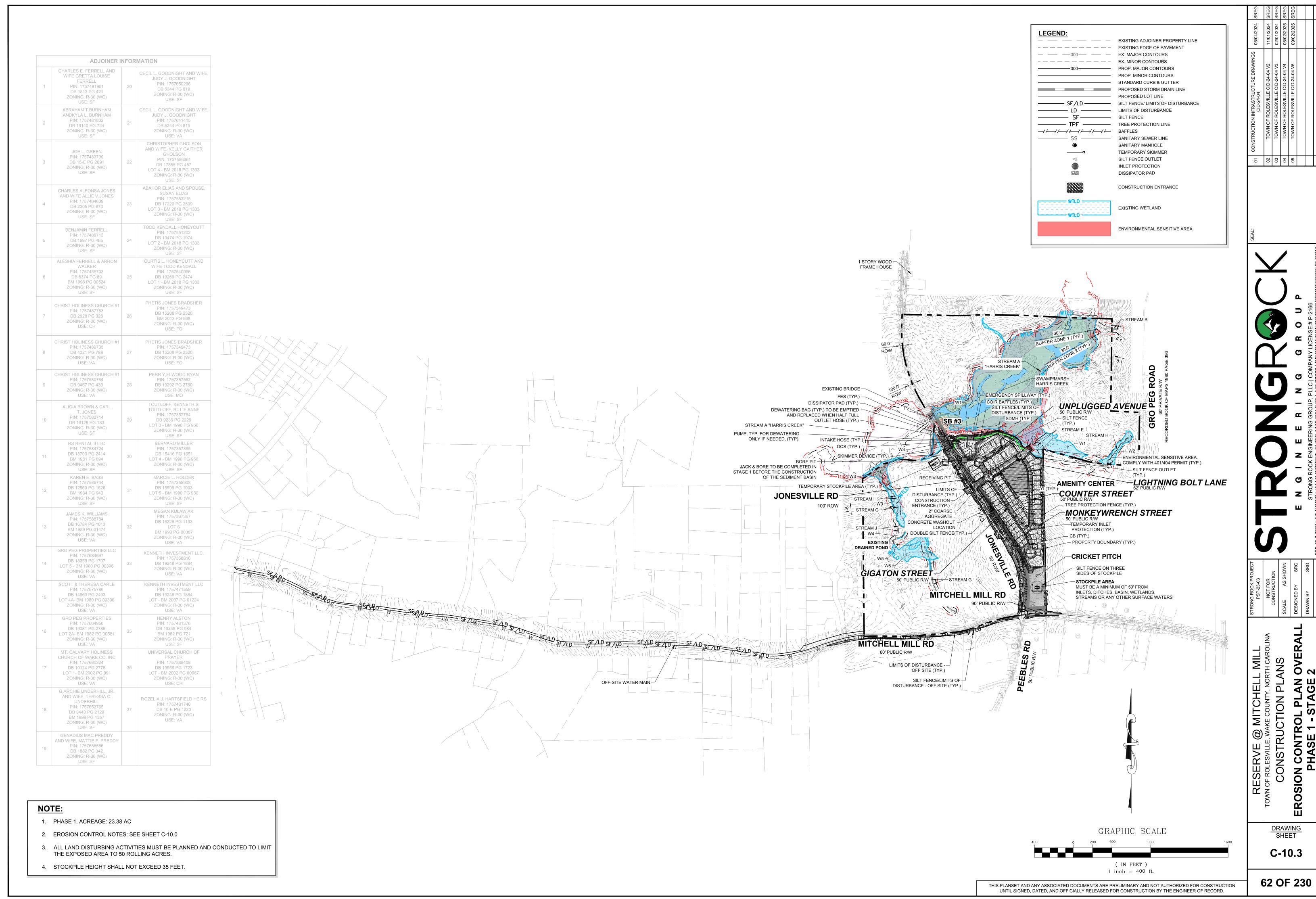
2.25

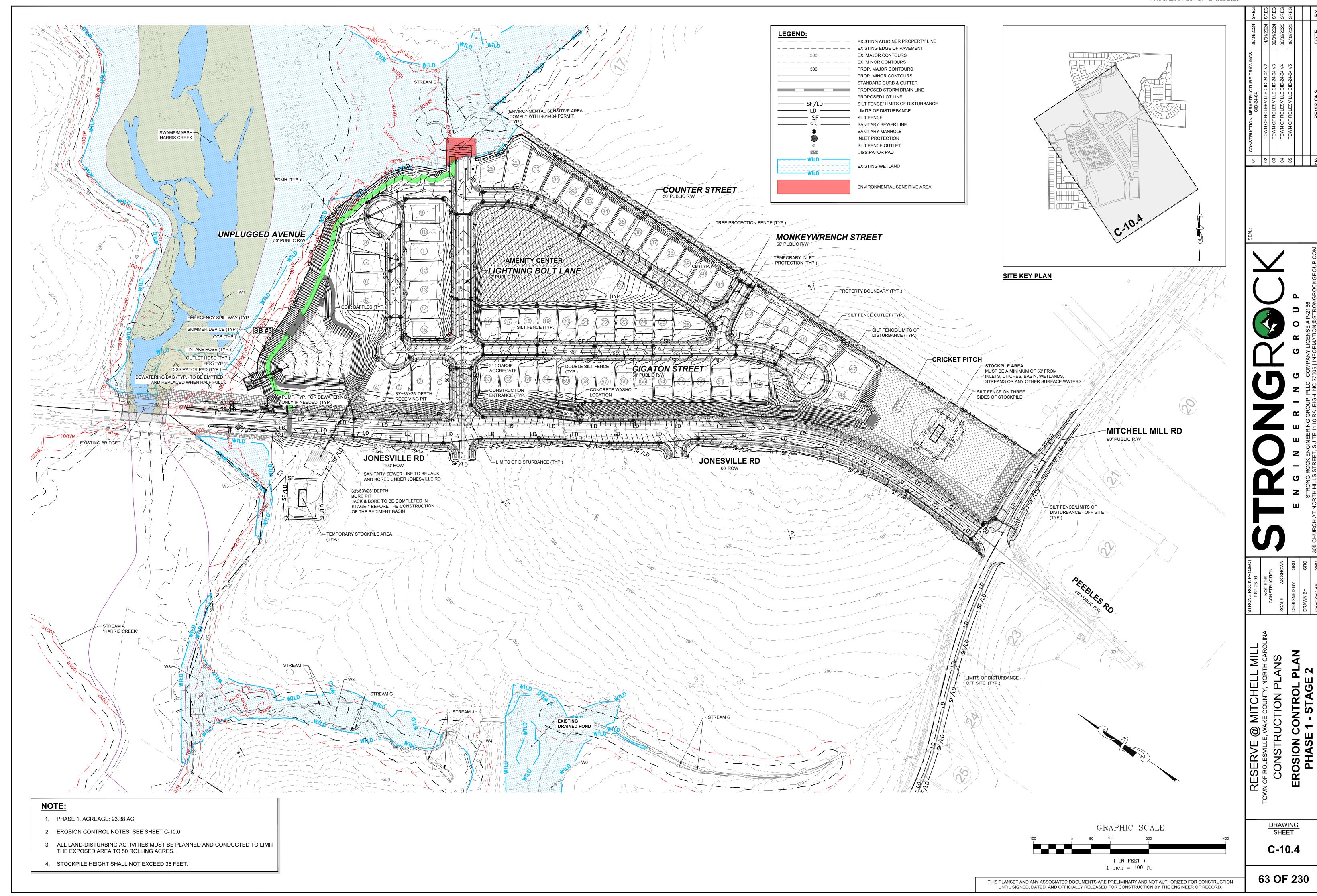
2.25

1.25









EXISTING ADJOINER PROPERTY LINE

PROP. MINOR CONTOURS

PROPOSED LOT LINE

SANITARY MANHOLE INLET PROTECTION SILT FENCE OUTLET DISSIPATOR PAD

EXISTING WETLAND

ENVIRONMENTAL SENSITIVE AREA

STANDARD CURB & GUTTER

- - - - - - EXISTING EDGE OF PAVEMENT

SF/LD — SILT FENCE/ LIMITS OF DISTURBANCE LIMITS OF DISTURBANCE

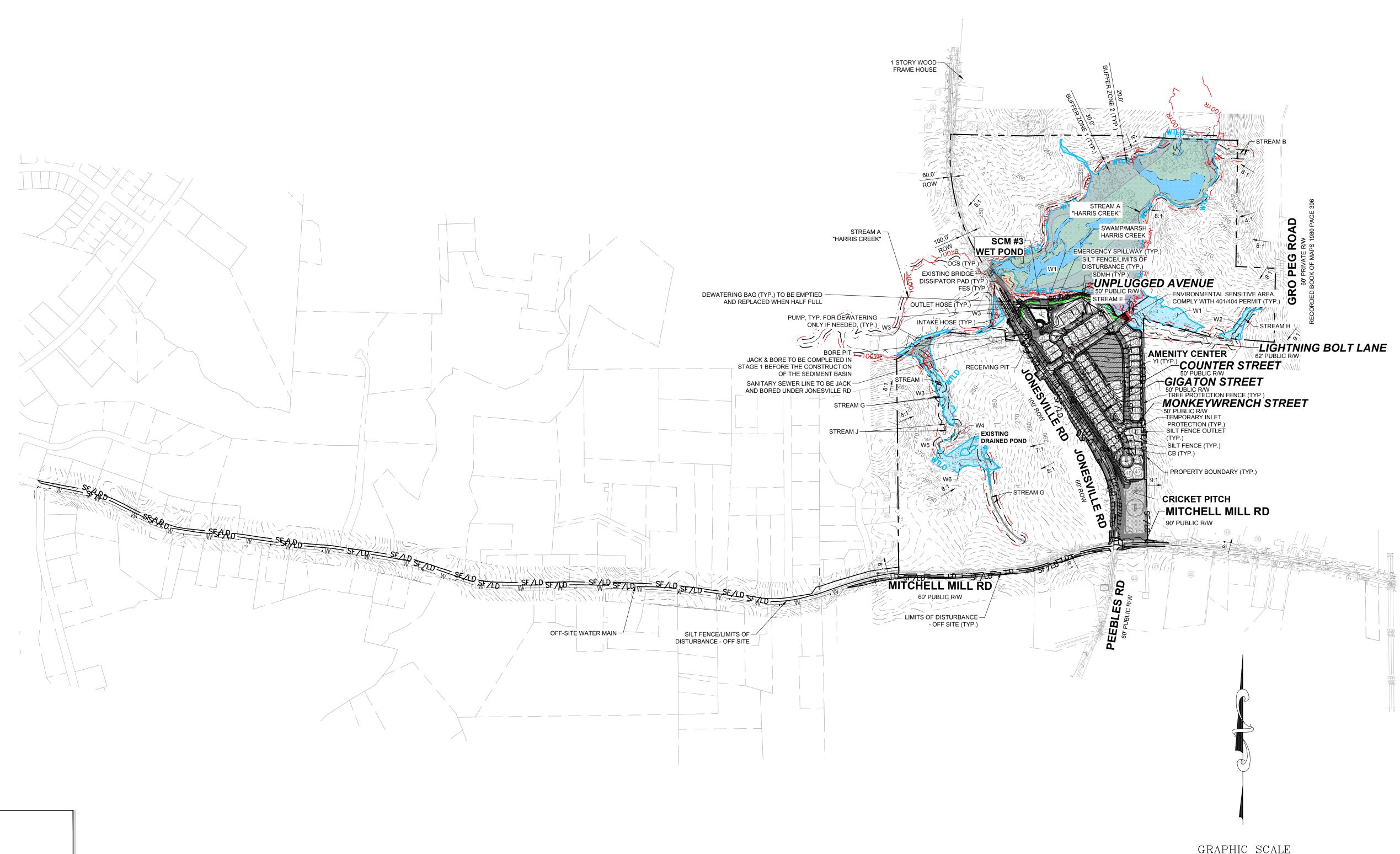
PROPOSED STORM DRAIN LINE

SS SANITARY SEWER LINE

— — 300— — EX. MAJOR CONTOURS EX. MINOR CONTOURS

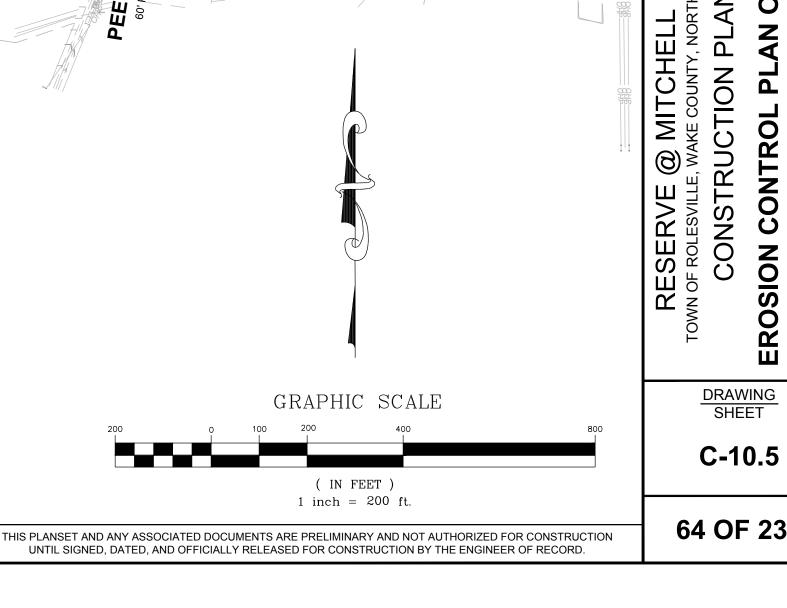
— SF——— SILT FENCE

	ADJOINER I	NFOR	MATION
1	CHARLES E. FERRELL AND WIFE GRETTA LOUISE FERRELL PIN: 1757481951 DB 1813 PG 421 ZONING: R-30 (WC) USE: SF	20	CECIL L. GOODNIGHT AND WIFE, JUDY J. GOODNIGHT PIN: 1757650296 DB 5344 PG 819 ZONING: R-30 (WC) USE: SF
2	ABRAHAM T.BURNHAM ANDKYLA L. BURNHAM PIN: 1757481832 DB 19140 PG 734 ZONING: R-30 (WC) USE: SF	21	CECIL L. GOODNIGHT AND WIFE, JUDY J. GOODNIGHT PIN: 1757641415 DB 5344 PG 819 ZONING: R-30 (WC) USE: VA
3	JOE L. GREEN PIN: 1757483799 DB 15-E PG 2691 ZONING: R-30 (WC) USE: SF	22	CHRISTOPHER GHOLSON AND WIFE, KELLY GAITHER GHOLSON PIN: 1757556361 DB 17855 PG 457 LOT 4 - BM 2018 PG 1333 ZONING: R-30 (WC) USE: SF
4	CHARLES ALFONSA JONES AND WIFE ALLIE V.JONES PIN: 1757484609 DB 2305 PG 673 ZONING: R-30 (WC) USE: SF	23	ABAHOR ELIAS AND SPOUSE, SUSAN ELIAS PIN: 1757553215 DB 17220 PG 2509 LOT 3 - BM 2018 PG 1333 ZONING: R-30 (WC) USE: SF
5	BENJAMIN FERRELL PIN: 1757485713 DB 1697 PG 465 ZONING: R-30 (WC) USE: SF	24	TODD KENDALL HONEYCUTT PIN: 1757551202 DB 13474 PG 1974 LOT 2 - BM 2018 PG 1333 ZONING: R-30 (WC) USE: SF
6	ALESHIA FERRELL & ARRON WALKER PIN: 1757486733 DB 6374 PG 89 BM 1996 PG 00524 ZONING: R-30 (WC) USE: SF	25	CURTIS L. HONEYCUTT AND WIFE TODD KENDALL PIN: 1757540996 DB 19269 PG 2474 LOT 1 - BM 2018 PG 1333 ZONING: R-30 (WC) USE: SF
7	CHRIST HOLINESS CHURCH #1 PIN: 1757487783 DB 2928 PG 328 ZONING: R-30 (WC) USE: CH	26	PHETIS JONES BRADSHER PIN: 1757349473 DB 15208 PG 2320 BM 2013 PG 868 ZONING: R-30 (WC) USE: FO
8	CHRIST HOLINESS CHURCH #1 PIN: 1757489733 DB 4321 PG 788 ZONING: R-30 (WC) USE: VA	27	PHETIS JONES BRADSHER PIN: 1757349473 DB 15208 PG 2320 ZONING: R-30 (WC) USE: FO
9	CHRIST HOLINESS CHURCH #1 PIN: 1757580764 DB 9467 PG 430 ZONING: R-30 (WC) USE: VA	28	PERR Y,ELWOOD RYAN PIN: 1757357582 DB 19292 PG 2780 ZONING: R-30 (WC) USE: MO
10	ALICIA BROWN & CARL T. JONES PIN: 1757582714 DB 16128 PG 183 ZONING: R-30 (WC) USE: SF	29	TOUTLOFF, KENNETH S. TOUTLOFF, BILLIE ANNE PIN: 1757357764 DB 9236 PG 2229 LOT 3 - BM 1990 PG 956 ZONING: R-30 (WC) USE: SF
11	RS RENTAL II LLC PIN: 1757584724 DB 18703 PG 2414 BM 1981 PG 894 ZONING: R-30 (WC) USE: SF	30	BERNARD MILLER PIN: 1757357865 DB 15416 PG 1651 LOT 4 - BM 1990 PG 956 ZONING: R-30 (WC) USE: SF
12	KAREN E. BASS PIN: 1757586704 DB 12560 PG 1626 BM 1984 PG 943 ZONING: R-30 (WC) USE: SF	31	MARCIE L. HOLDEN PIN: 1757358908 DB 15599 PG 1003 LOT 5 - BM 1990 PG 956 ZONING: R-30 (WC) USE: SF
13	JAMES K. WILLIAMS PIN: 1757588784 DB 16784 PG 1013 BM 1989 PG 01474 ZONING: R-30 (WC) USE: VA	32	MEGAN KULAWIAK PIN: 1757367367 DB 16226 PG 1133 LOT 6 BM 1990 PG 00387 ZONING: R-30 (WC) USE: VA
14	GRO PEG PROPERTIES LLC PIN: 1757684697 DB 18359 PG 1707 LOT 5 - BM 1980 PG 00396 ZONING: R-30 (WC) USE: VA	33	KENNETH INVESTMENT LLC. PIN: 1757368816 DB 19248 PG 1884 ZONING: R-30 (WC) USE: VA
15	SCOTT & THERESA CARLE PIN: 1757675786 DB 14863 PG 2493 LOT 4A- BM 1980 PG 00396 ZONING: R-30 (WC) USE: VA	34	KENNETH INVESTMENT LLC PIN: 1757471559 DB 19248 PG 1884 LOT - BM 2007 PG 01224 ZONING: R-30 (WC) USE: VA
16	GRO PEG PROPERTIES PIN: 1757664956 DB 19081 PG 2786 LOT 2A- BM 1982 PG 00581 ZONING: R-30 (WC) USE: VA	35	HENRY ALSTON PIN: 1757481376 DB 19248 PG 984 BM 1982 PG 721 ZONING: R-30 (WC) USE: SF
17	MT. CALVARY HOLINESS CHURCH OF WAKE CO. INC PIN: 1757660324 DB 10124 PG 2778 LOT 1- BM 2002 PG 991 ZONING: R-30 (WC) USE: VA	36	UNIVERSAL CHURCH OF PRAYER PIN: 1757388408 DB 19559 PG 1723 LOT - BM 2002 PG 00667 ZONING: R-30 (WC) USE: CH
18	G.ARCHIE UNDERHILL, JR. AND WIFE, TERESSA C. UNDERHILL PIN: 1757653765 DB 8443 PG 2129 BM 1999 PG 1357 ZONING: R-30 (WC) USE: SF	37	ROZELIA J. HARTSFIELD HEIRS PIN: 1757481740 DB 10-E PG 1220 ZONING: R-30 (WC) USE: VA
19	GENADIUS MAC PREDDY AND WIFE, MATTIE F. PREDDY PIN: 1757656586 DB 1882 PG 342 ZONING: R-30 (WC)		



NOTE:

- 1. PHASE 1, ACREAGE: 23.38 AC
- 2. EROSION CONTROL NOTES: SEE SHEET C-10.0
- 3. ALL LAND-DISTURBING ACTIVITIES MUST BE PLANNED AND CONDUCTED TO LIMIT THE EXPOSED AREA TO 50 ROLLING ACRES.
- 4. STOCKPILE HEIGHT SHALL NOT EXCEED 35 FEET.



02 03 03 05 05

DRAWING SHEET