#### **EXISTING CONDITIONS**

\* INFORMATION ABOUT EXISTING UNDERGROUND FACILITIES AND SUBSURFACE CONDITIONS INDICATED ON THESE DRAWINGS IS NOT BASED ON AN EXHAUSTIVE INVESTIGATION OF SUCH FACILITIES OR CONDITIONS, AND THE ENGINEER MAKES NO WARRANTY TO ANY PARTY REGARDING THEM. EXISTING UTILITY LINE LOCATIONS SHOWN SHOULD BE CONSIDERED APPROXIMATE, AND ACTUAL UTILITIES AND CONDITIONS MAY DIFFER FROM THOSE INDICATED. IF DIFFERING UTILITIES OR CONDITIONS EXIST, THEY MAY BE ENCOUNTERED DURING THE COURSE OF THE PROJECT WORK, AND MAY IMPACT THE PROJECT SCOPE AND TIME REQUIREMENTS.

## PROTECTION AND SAFETY

- \* PRIOR TO BEGINNING WORK, AND AS NEEDED DURING THE COURSE OF PROJECT WORK, CONTRACTOR SHALL NOTIFY ALL APPLICABLE UTILITY LOCATION SERVICES AND UTILITY PROVIDERS TO REASONABLY VERIFY THE LOCATION OF ALL KNOWN OR SUSPECTED UTILITIES, IN ACCORDANCE WITH STATE REGULATIONS. CONTRACTOR IS ADVISED THAT SOME UTILITY PROVIDERS DO NOT SUBSCRIBE TO ONE-CALL SERVICES, AND MUST BE CONTACTED SEPARATELY.
- CONTRACTOR SHALL PROVIDE ADEQUATE MEANS AND METHODS FOR PROTECTION OF ALL EXISTING UTILITIES AND SITE FEATURES WHICH ARE INTENDED TO REMAIN IN
- CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROL MEASURES DURING THE COURSE OF PROJECT WORK IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS THE N.C. SUPPLEMENT TO THE MUTCD. ANY REGULATORY AGENCY REQUIREMENTS, AND PROJECT-SPECIFIC SAFETY
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SAFETY PROGRAMS AND MEASURES ON THE PROJECT SITE OR OTHERWISE RELATING TO THE PROJECT WORK, AND SHALL COMPLY WITH ALL SAFETY CODES AND REGULATIONS APPLICABLE THERETO, FOR THE PROTECTION OF WORKERS, VISITORS, AND THE GENERAL PUBLIC.

- \* ALL WATER SYSTEM AND SANITARY SEWER WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
- o REQUIREMENTS OF THE CITY OF RALEIGH, INCLUDING THE LATEST EDITION OF CONSTRUCTION STANDARDS AND SPECIFICATIONS, CONSTRUCTION DETAILS, POLICIES AND PROCEDURES, AND FIELD DIRECTIVES BY THE UTILITY INSPECTOR.
- o REGULATIONS OF NCDENR-DIVISION OF WATER QUALITY, INCLUDING NCAC 2T REGULATIONS AND MINIMUM DESIGN CRITERIA FOR THE PERMITTING OF GRAVITY
- o REGULATIONS OF NCDENR-PUBLIC WATER SUPPLY,
- RULES GOVERNING PUBLIC WATER SYSTEMS. o STREET RIGHT-OF-WAY ENCROACHMENT PERMIT
- REQUIREMENTS, AS APPLICABLE. o OSHA REQUIREMENTS RELATED TO SAFETY. o REQUIREMENTS OF THE N.C PLUMBING CODE.

## NOTIFICATIONS

- NOTIFY THE ENGINEER AT LEAST TWO BUSINESS DAYS PRIOR TO BEGINNING OR RESUMING WATERLINE OR SANITARY SEWER WORK. THE ENGINEER MUST OBSERVE CONNECTIONS, INSTALLATION, BACKFILLING, AND TESTING WORK. IN ORDER TO PROVIDE NECESSARY PROJECT CERTIFICATIONS AND CLOSE-OUT DOCUMENTS.
- NOTIFY THE APPLICABLE UTILITY AND ROADWAY AUTHORITIES IN ACCORDANCE WITH THEIR REQUIREMENTS PRIOR TO BEGINNING UTILITY WORK.
- \* NOTIFY THE GEOTECHNICAL ENGINEER AND TESTING SERVICE AT LEAST TWO BUSINESS DAYS PRIOR TO BEGINNING OR RESUMING TRENCHING OR BACKFILLING WORK.

# TRENCHING AND BACKFILLING

- \* WHERE ROCK OR OTHER HARD MATERIAL OCCURS AT THE DESIGNED TRENCH BOTTOM, OVEREXCAVATE TRENCH DEPTH 6 INCHES AND REPLACE OVEREXCAVATION MATERIAL WITH WHERE THE DESIGNED TRENCH BOTTOM CONSISTS OF
- UNSUITABLE BEARING SOIL, UNDERCUT TRENCH BOTTOM AND REPLACE UNDERCUT MATERIAL IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
- BACKFILL SOIL SHALL BE SUITABLE MATERIAL AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
- BACKFILL SOIL SHALL BE PLACED IN LOOSE LIFTS OF 8 INCH MAXIMUM THICKNESS AND COMPACTED TO 98% OF THE SOIL'S MAXIMUM DRY DENSITY, WITHOUT DAMAGING OR DISPLACING PIPE.
- \* INSTALL MARKING TAPE OR TRACER WIRE OVER UTILITY LINES AS REQUIRED BY THE LOCAL UTILITY AUTHORITY.

# STORAGE AND HANDLING

\* PIPING, FITTINGS, GASKETS, AND OTHER MATERIALS SHALL BE KEPT CLEAN WHILE BEING STORED AND DURING CONSTRUCTION ACTIVITIES. PIPE BUNDLES SHALL BE STORED ON FLAT SURFACES WITH UNIFORM SUPPORT, AND PROTECTED FROM PROLONGED EXPOSURE TO SUNLIGHT WITH A COVERING ALLOWING AIR FLOW UNDERNEATH. GASKETS SHALL NOT BE EXPOSED TO OIL, GREASE, OZONE, EXCESSIVE HEAT OR DIRECT SUNLIGHT. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR STORAGE AND HANDLING OF ALL MATERIALS.

# **CLEARANCES**

- \* SANITARY SEWER MAINS AND POTABLE WATER MAINS SHALL BE INSTALLED WITH A MINIMUM HORIZONTAL CLEARANCE OF 10 FEET BETWEEN THE OUTSIDE EDGES OF EACH PIPE. \* WHERE UTILITY AND/OR DRAINAGE LINES CROSS, THE FOLLOWING VERTICAL CLEARANCES SHALL BE PROVIDED FROM THE OUTSIDE EDGES OF EACH PIPE:
- o SANITARY SEWER OVER OR UNDER STORM DRAINAGE: 24 INCHES.
- o POTABLE WATER OVER SANITARY SEWER: 18 INCHES, WITH WATER MAIN JOINTS SPACED AT MAXIMUM EQUIDISTANT LOCATIONS FROM THE POINT OF
- o POTABLE WATER UNDER SANITARY SEWER: 18 INCHES, WITH BOTH PIPELINES CONSTRUCTED OF FERROUS MATERIAL HAVING JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR 10 FEET EACH WAY OF THE POINT OF CROSSING, AND WITH A FULL SECTION OF WATER MAIN
- PIPE CENTERED AT THE POINT OF CROSSING. o POTABLE WATER OVER OR UNDER STORM DRAINAGE:
- \* IF THE SPECIFIED SEPARATIONS CANNOT BE ACHIEVED, CONSULT THE ENGINEER FOR ALTERNATIVES PRIOR TO PIPELINE INSTALLATION.

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#### UTILITY SPECIFICATIONS (cont.)

- \* WATER MAIN PIPING SHALL BE DUCTILE IRON PIPE PER AWWA C151, PRESSURE CLASS 350, WITH INTERIOR CEMENT MORTAR LINING AND EXTERIOR BITUMINOUS SEAL. JOINTS SHALL BE PUSH-ON TYPE WITH RUBBER GASKETS PER AWWA C111. FITTINGS SHALL BE COMPACT MECHANICAL JOINT DUCTILE IRON PER AWWA C153, PRESSURE CLASS
- PROVIDE ALL WATER SYSTEM MATERIALS IN ACCORDANCE WITH LOCAL WATER AUTHORITY REQUIREMENTS.
- INSTALL WATERLINES TO PROVIDE 36" COVER TO FINISHED GRADE, UNLESS OTHERWISE SHOWN OR APPROVED BY THE ENGINEER AND INSPECTOR.
- \* ALL WATERLINE BENDS, CROSSES, TEES, AND ENDS SHALL BE RESTRAINED USING CONCRETE BLOCKING OR A MECHANICAL JOINT WEDGE-ACTION RESTRAINT SYSTEM RATED FOR 350 PSI
- \* DO NOT OPERATE WATER SYSTEM VALVES WITHOUT PERMISSION OF THE WATER AUTHORITY.
- CONTRACTOR SHALL COORDINATE EXACT FIRE HYDRANT, WATER METER, AND BACKFLOW PREVENTER LOCATIONS WITH WATER AUTHORITY INSPECTOR PRIOR TO INSTALLATION.

## BACKFLOW PREVENTION

\* BACKFLOW PREVENTER ASSEMBLIES AND ENCLOSURES SHALL CONFORM TO ALL LOCAL WATER AUTHORITY REQUIREMENTS, AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL PROVIDE INITIAL TESTING AND CERTIFICATIONS AS REQUIRED FOR ACCEPTANCE.

#### FIRE PROTECTION

- WATER MAINS SHALL BE INSTALLED AND MADE OPERATIONAL AS SOON AS PRACTICAL TO PROVIDE ACTIVE
- FIRE HYDRANT SERVICE DURING BUILDING CONSTRUCTION. COORDINATE TYPE AND LOCATION OF HYDRANTS, FIRE DEPARTMENT CONNECTIONS, AND OTHER FIRE PROTECTION SYSTEM COMPONENTS WITH LOCAL FIRE CODE OFFICIAL PRIOR TO INSTALLATION.

## SANITARY SEWER

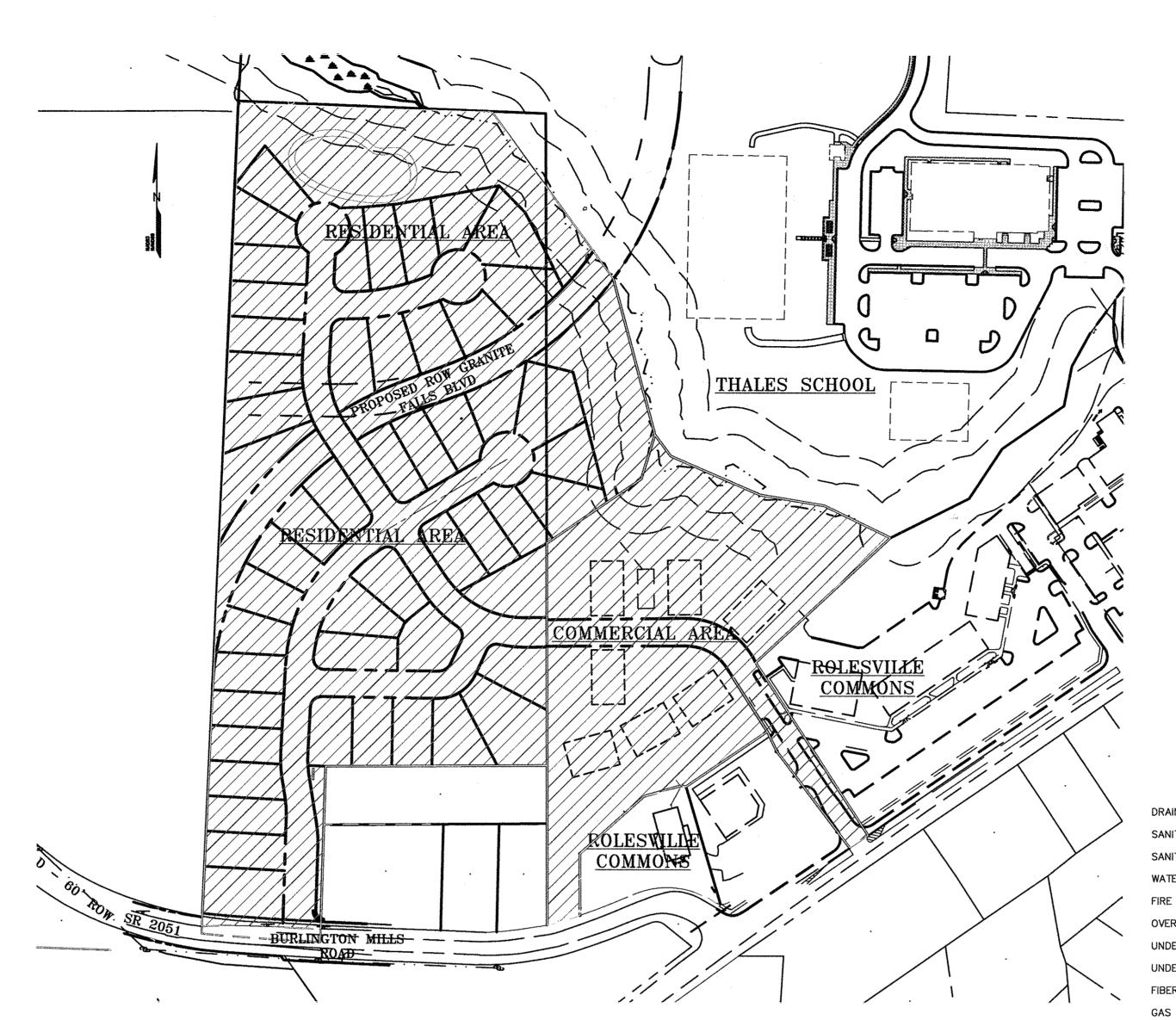
- \* SANITARY SEWER MAIN PIPING SHALL BE DUCTILE IRON PIPE PER AWWA C151, PRESSURE CLASS 350, WITH INTERIOR EPOXY LINING AND EXTERIOR BITUMINOUS SEAL. JOINTS SHALL BE PUSH-ON TYPE WITH RUBBER GASKETS PER AWWA C111.
- SANITARY SEWER MAIN PIPING SHALL BE PVC PIPE PER ASTM D3034, SDR 35. JOINTS SHALL BE PUSH-ON TYPE
- WITH RUBBER GASKETS PER ASTM F477. SANITARY SEWER MAINS SHALL BE INSTALLED WITH 36 INCHES MINIMUM COVER TO FINISHED GRADE, EXCEPT AS OTHERWISE SPECIFIED.
- SANITARY SEWER SERVICE LINES AND CLEANOUTS SHALL BE INSTALLED IN ACCORDANCE WITH THE N.C. PLUMBING CODE, AND HAVE 24 INCHES MINIMUM COVER TO FINISHED GRADE. SERVICE LINES SHALL MAINTAIN MAXIMUM SERVICE DEPTH
- USING A 2.1% SLOPE UNLESS OTHERWISE SPECIFIED. \* SERVICE PIPE AND FITTINGS WITHIN PUBLIC STREET RIGHTS-OF-WAY SHALL BE CAST IRON WITH GASKETED JOINTS, AND IN OTHER AREAS SHALL BE SCHEDULE 40 PVC WITH SOLVENT WELDED JOINTS, EXCEPT ALL CLEANOUTS
- SHALL BE FITTED WITH THREADED BRONZE PLUGS. SERVICE LINE CLEANOUTS IN VEHICULAR AREAS SHALL BE TRAFFIC BEARING CLEANOUTS.

- \* FOR CONNECTIONS TO EXISTING UTILITY AND DRAINAGE LINES, CONTRACTOR SHALL VERIFY EXISTING PIPE SIZE AND MATERIAL, AND PROVIDE APPROPRIATE CONNECTION
- \* ANY CONNECTION TO EXISTING UTILITES, OR ANY UTILITY SERVICE INTERRUPTION, SHALL BE FIRST COORDINATED WITH THE GOVERNING UTILITY AUTHORITY, AND PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THAT
- \* SITE UTILITY CONTRACTOR SHALL EXTEND WATER AND SANITARY SEWER SERVICES TO WITHIN 5 FEET OF THE POINT OF BUILDING PENETRATION FOR EACH UTILITY.
- BUILDING PLUMBER SHALL PROVIDE TRANSITION MATERIALS AND FITTINGS, AND MAKE PROPER CONNECTIONS TO SITE UTILITY STUB-OUTS FOR ALL WATER AND SANITARY SEWER
- SITE UTILITY CONTRACTOR SHALL EXTEND ROOF DRAINAGE PIPING TO WITHIN 5 FEET OF ALL DOWNSPOUT LOCATIONS, FOR EXTENSION AND CONNECTION TO DOWNSPOUTS BY

# TESTING AND ACCEPTANCE

- THE GEOTECHNICAL ENGINEER SHALL PROVIDE MATERIAL AND DENSITY TESTING DURING THE COURSE OF THE WORK. PRIOR TO PLACEMENT OF ANY BASE OR PAVEMENT, CONTRACTOR SHALL PROVIDE PROOF-ROLLING OF ALL TRENCH AREAS TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
- \* PRIOR TO ANY SANITARY SEWER OR WATER SYSTEM IMPROVEMENTS BEING PLACED INTO SERVICE:
- o CONTRACTOR SHALL SUCCESSFULLY TEST ALL WATER MAINS FOR WATER LEAKAGE AND WATER QUALITY IN ACCORDANCE WITH CITY OF RALIEGH AND NCDENR REQUIREMENTS
- o CONTRACTOR SHALL SUCCESSFULLY TEST ALL SANITARY SEWER MAINS FOR DEFLECTION AND LEAKAGE, AND TEST ALL SANITARY MANHOLES FOR LEAKAGE, IN ACCORDANCE WITH CITY OF RALEIGH AND NCDENR REQUIREMENTS.
- o CONTRACTOR SHALL PERFORM VIDEO INSPECTION OF INSTALLED SANITARY SEWER MAINS AND PROVIDE DOCUMENTATION PER LOCAL REQUIREMENTS.
- o CONTRACTOR SHALL PROVIDE TO ENGINEER A SET OF MARKED UP DRAWINGS SHOWING UTILITY CHANGES. DIMENSIONAL ADJUSTMENTS, DISCOVERED SUBSURFACE UTILITIES, AND OTHER AS-BUILT INFORMATION. o CONTRACTOR SHALL PROVIDE DOCUMENTATION OF ALL
- TESTING RESULTS TO ENGINEER. o ALL IMPROVEMENTS SHALL PASS FINAL INSPECTION BY ENGINEER AND THE UTILITY AUTHORITY.
- o ENGINEER SHALL SUBMIT ALL CERTIFICATIONS AND OTHER CLOSE-OUT DOCUMENTS TO APPLICABLE LOCAL AND STATE AUTHORITIES.

- CONTRACTOR SHALL PROVIDE PRIMARY COORDINATION WITH UTILITY SERVICE PROVIDERS FOR BUILDING UTILITY SERVICES. THIS WORK SHALL INCLUDE MAKING APPLICATIONS FOR SERVICE, COORDINATING AND SCHEDULING WORK BY OTHERS, VERIFYING ROUTINGS AND EQUIPMENT LOCATIONS, FURNISHING AND INSTALLING
- CONDUIT AND PADS, AND RELATED WORK AS NEEDED. \* CONTRACTOR SHALL PROVIDE PROPER RESTORATION AND CLEAN-UP OF ALL AREAS DISTURBED BY UTILITY



# MATTINGLY SUBDIVISION MAJOR SUBDIVISION - PRELIMINARY

# SITE DATA:

ROLESVILLE, North Carolina

OWNER/DEVELOPER:

PARCEL ACREAGE:

RIVER BASIN:

NO. OF LOTS:

LLOYDS OF ROLESVILLE 2008 SOUTH MAIN STREET WAKE FOREST, NC 27587 PHONE: 919-554-8775

CONTACT: LLOYD MATTINGLY APPLICANT/DEVELOPER: CIVIL CONSULTANTS, INC.

3708 LYCKAN PARKWAY SUITE 201 DURHAM, NC 27707 PHONE: 919-490-1645

CONTACT: KEITH GETTLE, P.E. PROJECT: PLANNED UNIT DEVELOPMENT (R&PUD)

1758-68-2706 (6.48 AC) CO 1758-59-6055 (17.96 AC) R1

1758-69-0358 (2.93 AC) R1) RESIDENTIAL 19.7 ACRES

COMMERCIAL 6 ACRES (+/-) PROJECT ACREAGE: 26 ACRES CURRENT ZONING: R1 AMD CO

PROPOSED ZONING: R&PUD **NEUSE RIVER BASIN** 50 RESIDENTIAL LOTS

PROJECT DENSITY: RESIDENTIAL 2.5 UNITS/ACRE RESIDENTIAL BUILDING SETBACKS REQUIRED: 25' FRONT 0-10' AGGREGATE SIDE

25' REAR COMMERCIAL BUILDING SETBACKS PROVIDED: 20' FRONT 15' SIDE

35' REAR

MAXIMUM BUILDING HEIGHT:

MINIMUM RESIDENTIAL LOT SIZE REQUIRED: R1 20,000 SF MINIMUM RESIDENTIAL LOT SIZE PROPOSED: R&PUD 8000 SF

EXISITNG IMPERVIOUS SURFACE: PROPOSED IMPERVIOUS SURFACE: TBD

FLEX/OFFICE (4) BUILDING 6000 SF =24.000 SF 1 SPACE PER 500 SF (24,000 / 500 )= 48 REQUIRED MEDICAL/OFFICE (3) @ 6000 SF = 18,000 SF 4.5 / 1000 = 81 SPACES

81 PROVIDED

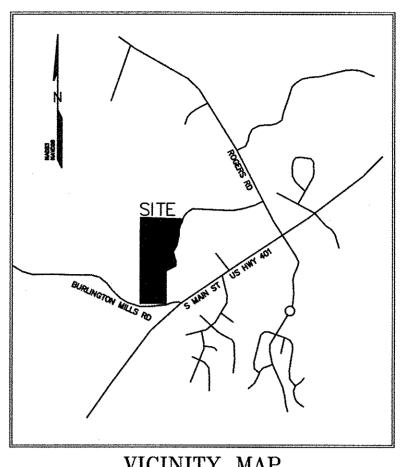
OPEN SPACE REQUIRED:

OPEN SPACE PROVIDED:

RESIDENTIAL = 19.7 AC (10%) 19.7AC-1.26 (ROW)=18.44AC TOTAL -- 18.54AC X10% = 1.84 AC 50% ACRES USEABLE = .92AC

TYPICAL KEYED NOTE LABEL

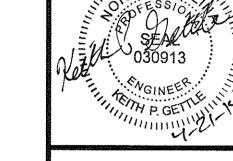
6.08 ACRES TOTAL (31%) 4.27 ACRES IN BUFFER 0.75 WALKWAY, OPEN AREA



VICINITY MAP

# DRAWING INDEX:

COVER SHEET **EXISTING CONDITIONS & DEMOLITION PLAN** SITE PLAN UTILITY PLAN BUFFER PLAN



# **LEGEND**

	NEW	EXISTING
DRAINAGE STRUCTURE		
SANITARY SEWER MANHOLE	<b>S</b>	\$
SANITARY SEWER CLEANOUT	c.o.	
WATER VALVE	⊗	⊗
FIRE HYDRANT	×	470
OVERHEAD UTILITY LINE	OH	ADDRESSES ASSESSED ASSESSED ASSESSED
UNDERGROUND ELECTRIC LINE	<b>E</b>	XE
UNDERGROUND TELECOM/DATA LINE	то	XTD
FIBER OPTIC CABLE	F0	XF0
GAS LINE	G	XG
STORM DRAINAGE PIPE		XSD
SANITARY SEWER LINE	SS	XSS
WATER LINE		XW
SURFACE ELEVATION CONTOUR	400	**************************************
SURFACE SPOT ELEVATION	356.44	x 356.44
CLEARING LIMIT/TREE LINE	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	000000000
LIMIT OF DISTURBANCE		
ELECTRICAL TRANSFORMER PAD	T	T

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**PRELIMINARY** DO NOT USE FOR CONSTRUCTION



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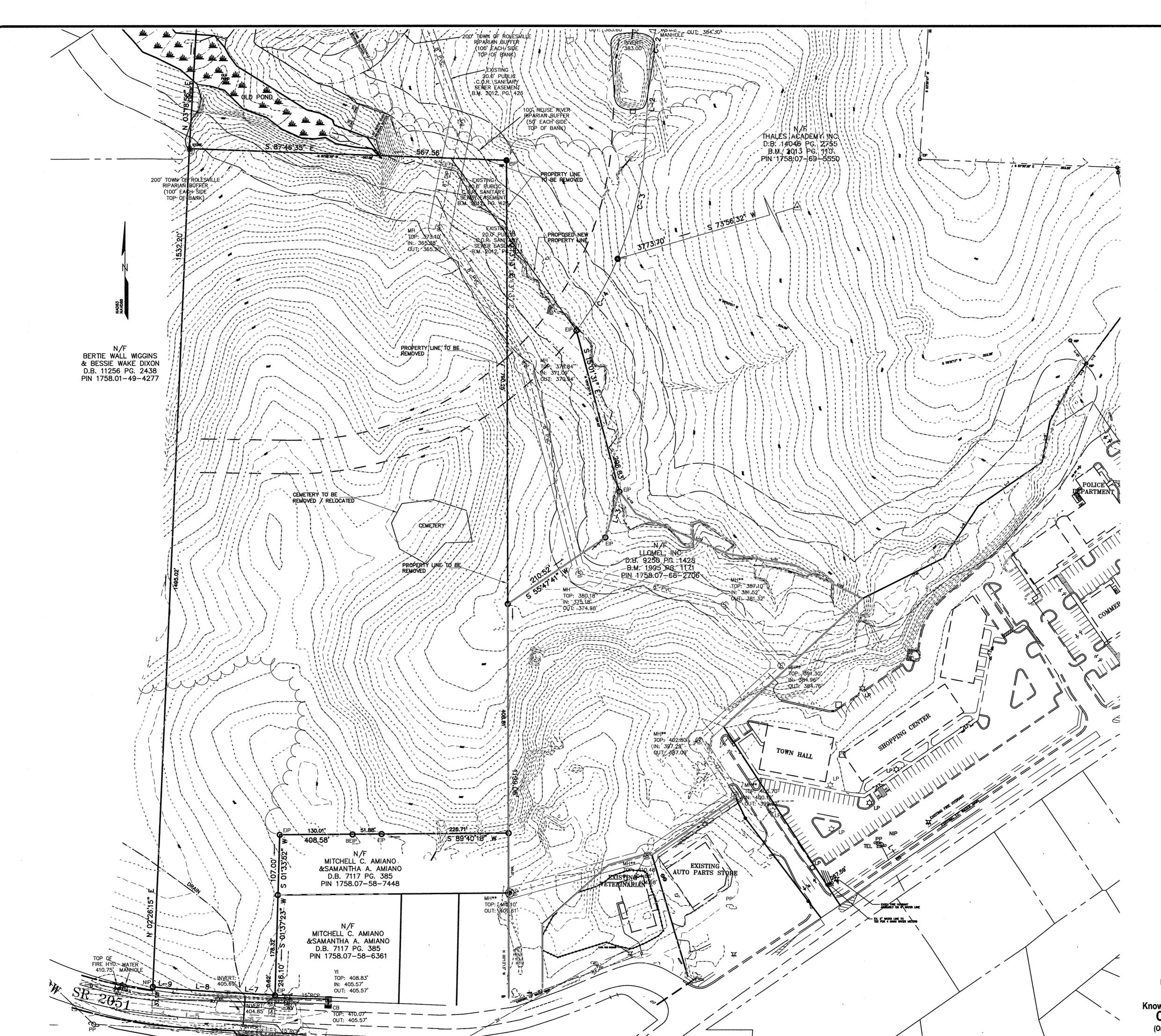
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HORIZONTAL SCALE: VERTICAL SCALE: PROJECT MANAGER DRAWN BY: PROJECT NO: DRAWING NAME 20023 DWG

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## **DEMOLITION NOTES**

- 1. PROPERTY BOUNDARY AND EXISTING CONDITIONS INFORMATION TAKEN FROM A FIELD SURVEY BY CAWTHORNE, MOSS AND PANCIERA, PC ENTITLED "SURVEY FOR LLOYDS OF ROLESVILLE, LLC, DATED JULY 24, 2013.
- PRIOR TO BEGINNING WORK, AND AS NEEDED DURING THE COURSE OF PROJECT WORK, CONTRACTOR SHALL NOTIFY ALL APPLICABLE UTILITY LOCATION SERVICES AND UTILITY PROVIDERS TO REASONABLY VERIFY THE LOCATION OF ALL KNOWN OR SUSPECTED UTILITIES, IN ACCORDANCE WITH STATE REGULATIONS. CONTRACTOR IS ADVISED THAT SOME UTILITY PROVIDERS DO NOT SUBSCRIBE TO ONE-CALL SERVICES, AND MUST BE CONTACTED SEPARATELY.
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- 6. ALL VEGETATIVE MATERIAL GENERATED BY CLEARING AND GRUBBING ACTIVITIES SHALL BE COMPLETELY REMOVED FROM THE PROJECT SITE AND DISPOSED LEGALLY. NO ONSITE BURNING OF CLEARED MATERIAL SHALL OCCUR.
- ALL PAVEMENT, CURB, PIPE, STRUCTURES AND OTHER PHYSICAL SITE FEATURES THAT ARE INDICATED OR REQUIRED TO BE REMOVED SHALL BE DISPOSED LEGALLY IN AN OFFSITE



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