WALLBROOK

S. MAIN STREET
ROLESVILLE, NORTH CAROLINA

TOWNHOMES CONSTRUCTION DRAWINGS CD22-04

PROJECT NUMBER: CPR-19100
DATE: MAY 22, 2023

SPECIAL USE PERMIT CONDITIONS

A. USES AND MAXIMUM DENSITIES ARE LIMITED TO THOSE SHOWN ON EACH SITE ON THE CONCEPT PLAN. ANY RESIDENTIAL UNITS NOT DESIGNATED ON THE RESIDENTIAL-TOWNHOMES TRACT MAY BE USED ON ANY OF THE TRACTS LABELED FOR NON-RESIDENTIAL USES.
B. PRIOR TO THE ISSUANCE OF THE FIRST CERTIFICATE OF OCCUPANCY FOR THE FIRST RESIDENTIAL UNIT IN THE EAST SIDE AS SHOWN ON THE CONCEPT PLAN, DEVELOPER WILL COMPLETE THE EXTENSION OF WALL CREEK DRIVE TO MAIN STREET.
C. IF APPLICANT SEEKS A CERTIFICATE OF OCCUPANCY PRIOR TO THE COMMENCEMENT OF WORK ON THE LAPP GRANT PROJECT IMPROVEMENTS, THEN PRIOR TO THE ISSUANCE OF THE FIRST CERTIFICATE OF OCCUPANCY OF THE FIRST RESIDENTIAL UNIT IN THE EAST SITE AND IN ACCORDANCE WITH THE "WALLBROOK DEVELOPMENT TIA ADDENDUM -- RESIDENTIAL-ONLY PHASE" DATED FEBRUARY 13, 2020, DEVELOPER WILL CONSTRUCT A 100' NORTHBOUND RIGHT TURN LANE AND A 100' SOUTHBOUND LEFT TURN LANE AT THE INTERSECTION OF WALL CREEK DRIVE (AS EXTENDED) AND MAIN STREET. IF WORK ON THE LAPP GRANT PROJECT IMPROVEMENTS IS COMMENCED BEFORE THE FIRST CERTIFICATE OF OCCUPANCY IS REQUESTED, DEVELOPER IS NOT REQUIRED TO CONSTRUCT THE AFOREMENTIONED IMPROVEMENTS.
D. NO LATER THAN SIX MONTHS FOLLOWING THE COMPLETION OF THE LAPP GRANT PROJECT IMPROVEMENTS, DEVELOPER WILL COMPLETE BOTH 1) THE EXTENSION OF VIRGINIA WATER DRIVE TO MAIN STREET AND 2) THE EXTENSION OF BURLINGTON MILLS ROAD (AS REALIGNED) FROM MAIN STREET TO VIRGINIA WATER DRIVE.
E. DEVELOPER WILL COMPLETE TRAFFIC IMPROVEMENTS AS SET FORTH IN OCTOBER 12, 2020 MEMO BY STANTEC.
F. AS SHOWN ON THE "PRELIMINARY PLAT PLAN - SP 21-02," AREAS OF THE SITE EAST OF THE RIPARIAN STREAM AND ADJACENT TO WAKE COUNTY PINS 1758676836, 1758674619, 1758674416, 1758674204, 1758674100, AND 1758663984 SHALL NOT BE DEVELOPED WITH STRUCTURES OR IMPROVEMENTS.

PARCEL OWNER LIST

PIN	OWNER	AREA
1758-56-8976	WALLBROOK LANDCO, LLC. 3 KEEL STREET, SUITE 2 WRIGHTSVILLE BEACH, NC 28480	42.324 AC.

DEVELOPER/OWNER

WALLBROOK LANDCO, LLC.
3 KEEL STREET, SUITE 2
WRIGHTSVILLE BEACH, NC 28480

CURRENT ZONING: CO SUD

SURVEY BY:

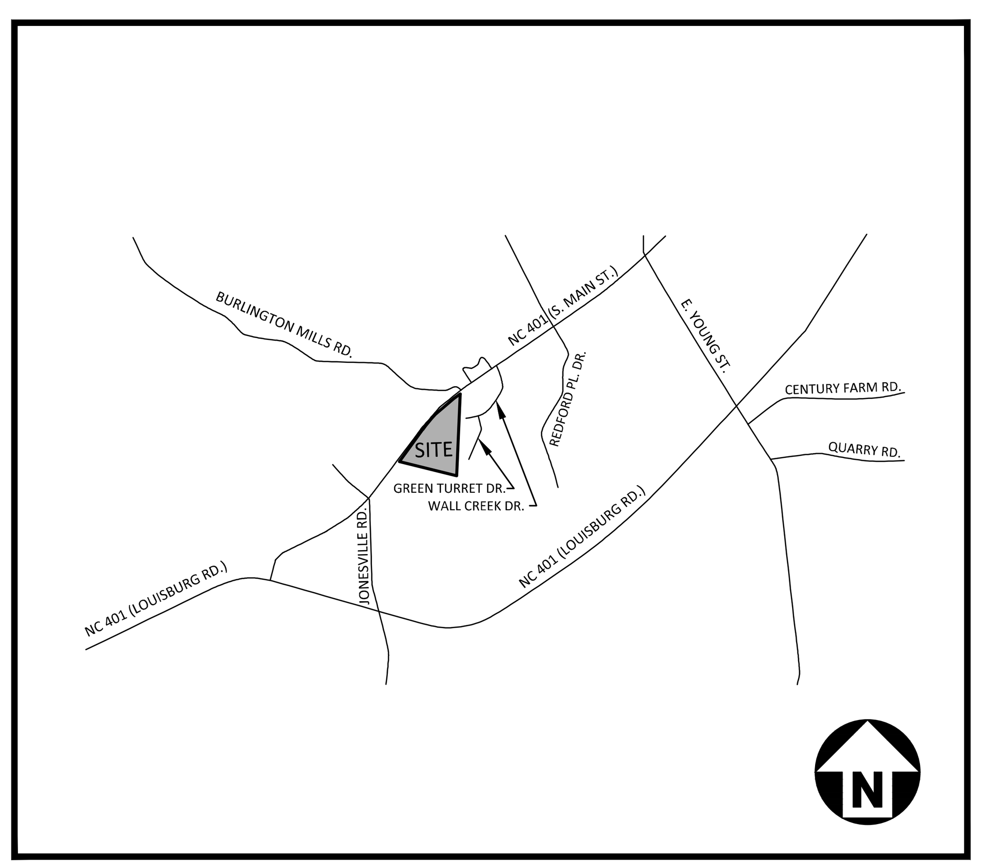
JOHNSON, MIRMIRAN & THOMPSON
9201 ARBORETUM PARKWAY, SUITE 310
RICHMOND, VIRGINIA 23236

TOPOGRAPHIC MARCH 25, 2020
ALTA SURVEY MARCH 25, 2020

WILLIAM T. ROBBINS, PLS
NC LICENSE # 4192
804-323-9900

SURVEY NOTES

1. THE PROPERTY LIES IN ZONE "X" PER NATIONAL FLOOD INSURANCE PROGRAM RATE MAP (FIRM), WAKE COUNTY, NORTH CAROLINA, PANEL 1758, MAP NO. 3720175800J, DATED MAY 2, 2006.
2. THE SURVEY IS REFERENCED TO THE NORTH CAROLINA STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983, 2001 ADJUSTMENT, NAD83(2001). ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES.
3. THE SUBJECT PARCEL IS ZONED CO-SUD (COMMERCIAL OUTLYING SPECIAL USE DISTRICT) PER WAKE COUNTY GIS.
4. SURVEY WAS PREPARED BY JOHNSON, MIRMIRAN & THOMPSON UNDER THE SUPERVISION OF WILLIAM T. ROBBINS, PLS. FIELD WORK WAS COMPLETED MARCH 25, 2020.
5. AREAS COMPUTED BY COORDINATE METHOD.
6. NO CEMETERIES OBSERVED AS A RESULTS OF THE SURVEY.



VICINITY MAP
N.T.S.

15.4.5 - Streets

15.4.5.1
Type of Street Required All subdivision lots shall abut at least 20 feet on a public street. All public streets shall be dedicated to the Town of Rolesville, the State of North Carolina or the public as determined appropriate by the Board of Commissioners of the Town of Rolesville. All public streets shall be built to the standards of this ordinance and all other applicable standards of the Town of Rolesville and the North Carolina Department of Transportation. Public streets not dedicated to the Town which are eligible for acceptance into the State Highway System shall be constructed to the standards necessary to be put on the State Highway System or the standards in this ordinance, whichever is stricter, in regard to each particular item and shall be put on such system. Streets not dedicated to the Town which are not eligible to be put on the State Highway System because there are too few lots or residences shall, nevertheless, be dedicated to the public and shall be in accordance with the standards in this ordinance or the standards necessary to be put on the State Highway System, whichever is stricter in regard to each particular item, so as to be eligible to be put on the system at a
later date. A written maintenance agreement with provisions for maintenance of the street until it is put on the State System shall be included with the final plat.

15.4.5.2
Subdivision Street Disclosure Statement All streets shown on the final plat shall be designated in accordance with G.S. § 136-102.6 and designation as public shall be conclusively presumed an offer of dedication to the public. Where streets are dedicated to the public but not accepted into a municipal or the State system, before lots are sold, a statement explaining the status of the street shall be included with the final plat.

EROSION CONTROL, STORMWATER AND FLOODPLAIN MANAGEMENT
APPROVED
EROSION CONTROL ☐ SEC-084327-2022
STORMWATER MGMT. ☐ SWF-084502-2022
FLOOD STUDY ☐ S-________________
DATE________________
WAKE COUNTY NORTH CAROLINA
EFFECTIVE: 08/23/17
Janet Boyer
Digitally signed by Janet Boyer
DN: C=US, E=janet.boyer@wakegov.com, O=Wake County, OU=Watershed Management, CN=Janet Boyer
Date: 2024.10.25 09:42:39-04'00'
ENVIRONMENTAL CONSULTANT SIGNATURE

QUANTITIES :

STREETS

WALL CREEK DR	60' R/W	615 LF
LETTIE LN	50' R/W	1,180 LF
WALLSTONE WAY	50' R/W	1,470 LF
CHIMNEY DR	50' R/W	205 LF
DEEP OAK DR	20' PRIVATE ALLEY	635 LF
RANDY DR	20' PRIVATE ALLEY	240 LF
ROLES WAY	20' PRIVATE ALLEY	585 LF
ZIGGY LN	20' PRIVATE ALLEY	445 LF

PUBLIC UTILITY IMPROVEMENTS QUANTITIES
(CONSTRUCTION DRAWINGS)

ITEM	TOTALS
NUMBER OF LOTS	140
LOT NUMBERS	1-140
6" PUBLIC WATER (LF)	0 LF
8" PUBLIC WATER (LF)	3,420 LF
8" PUBLIC SEWER (LF)	2,195 LF
12" PUBLIC SEWER (LF)	1,565 LF
WATER SERVICE STUBS	141-22=118*
SEWER SERVICE STUBS	141

* 22 SERVICES ALONG WALLBROOK DRIVE TO BE INSTALLED BY OTHERS

Rolesville
Genuine Community • Capital Connection • Est. 1837
Planning

CD 22-04 Wallbrook Townhomes REVISION
APPROVED
Date: September 18, 2024
Town of Rolesville Planning Department

NOTE: PHASE 2 RELIES ON DESIGN AND INFRASTRUCTURE BY OTHERS FOR PUBLIC WATER. PHASE 2 IS NOT TO BE PLATTED UNTIL THE WATER BY OTHERS IS INSTALLED, INSPECTED AND ACCEPTED BY RALEIGH.

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SITE PERMITTING APPROVAL

Water and Sewer Permits (If applicable)

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 # S-5230

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 # W-4043

The City of Raleigh consents to the connection to its public sewer system and extension of the private sewer collection system as shown on this plan. The material and constructions 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 # ________________

CITY OF RALEIGH – PLANS AUTHORIZED FOR CONSTRUCTION

Plans for the proposed use have been reviewed for general compliance with applicable codes. This limited review, and authorization for construction is not to be considered to represent total compliance with all legal requirements for development and construction. The property owner, design consultants, and contractors are each responsible for compliance with all applicable City, State and Federal laws. This specific authorization below is not a permit, nor shall it be construed to permit any violation of City, State or Federal Law. All Construction must be in accordance with all Local, State, and Federal Rules and Regulations.

Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval Timothy Beasley (Timothy Beasley I am approving this document. 2024.11.13 14:38:59-05'00')
City of Raleigh Review Officer

FINAL DRAWING - RELEASED FOR CONSTRUCTION

McADAMS
The John R. McAdams Company, Inc.
621 Hillsborough Street
Suite 500
Raleigh, NC 27603
phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187
www.mcadamsco.com

CONTACT

MIKE SANCHEZ
sanchez@mcadamsco.com
PHONE: 919. 361. 5000

CLIENT

WALLBROOK LANDCO, LLC
3 KEEL STREET, SUITE 2
WRIGHTSVILLE BEACH, NORTH CAROLINA
28480-1709

PROJECT DIRECTORY

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL
Digitally signed by William T O'Daniel
Date: 2024.08.30 15:42:09-04'00'

REVISIONS

NO.	DATE	
1	09. 27. 2023	WALL CREEK DRIVE TIE-IN REVISIONS
2	11. 02. 2023	EW-400 REVISION
3	05. 10. 2024	UPDATING SCM B GRADING AND SCM A OUTLET
4	06. 06. 2024	SEWER MANHOLE REVISIONS
5	08. 30. 2024	UPDATED BUILDING FOOTPRINTS AND IMPERVIOUS AREA

CONSTRUCTION DRAWINGS FOR:

WALLBROOK
ROLESVILLE, NORTH CAROLINA
PROJECT NUMBER: CPR-19100

X:\Projects\CPR\CPR-19100\04-Production\Engineering\Site Plan-Construction Drawings\Current Drawings\CPR19100-CD-CS1.dwg, 8/30/2024 3:27:12 PM, Tommy Dabolt

GENERAL NOTES:

1. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL 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 GIVEN.
2. THERE MAY BE WETLANDS WITHIN THIS SITE. IT IS THE OWNER'S RESPONSIBILITY FOR WETLANDS JURISDICTION AND PERMIT DISTURBANCE PRIOR TO ANY GRADING ACTIVITY.

SITE PLAN NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST TOWN OF ROLESVILLE AND/OR NCDOT STANDARDS AND SPECIFICATIONS AS APPLICABLE.
2. ALL DIMENSIONS SHOWN ON SITE PLAN ARE MEASURED TO BACK OF CURB UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL MAINTAIN AN "AS-BUILT" SET OF DRAWINGS TO RECORD THE EXACT LOCATION OF ALL PIPING PRIOR TO CONCEALMENT. DRAWINGS SHALL BE GIVEN TO THE ENGINEER UPON COMPLETION OF THE PROJECT WITH A COPY OF THE TRANSMITTAL LETTER TO THE OWNER.
4. EXISTING IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED/RESTORED TO THEIR ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER, BY THE CONTRACTOR RESPONSIBLE FOR THE DAMAGE.
5. THE CONTRACTOR SHALL NOTE THAT THE DRAWINGS MAY NOT SHOW EVERY OFFSET, TRANSITION, FITTING, ETC. THAT MAY BE REQUIRED. THE CONTRACTOR SHALL INSTALL SUCH STANDARD APPURTENANCES AS REQUIRED TO CLOSELY FOLLOW THE GRADES AND ALIGNMENTS DEPICTED ON THE PLANS.
6. CONTRACTOR SHALL NOTIFY "NC811" (811) OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NC811". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
7. CONTRACTOR IS RESPONSIBLE FOR COORDINATING CONSTRUCTION ACTIVITIES WITH THE APPROPRIATE UTILITY COMPANIES FOR ANY REQUIRED RELOCATIONS (I.E. POWER POLES, TELEPHONE PEDESTALS, WATER METERS, ETC.).
8. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION, FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
9. ACCESSIBLE RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH NCDOT DETAILS.
10. ALL SIDEWALKS THAT CONNECT TO THE PUBLIC RIGHT-OF-WAY MUST BE ACCESSIBLE TO PERSONS WHO ARE BLIND, HAVE LOW VISION AND PEOPLE WITH MOBILITY DISABILITIES. PEDESTRIAN EXISTING ROUTES AND ALTERNATE PEDESTRIAN ROUTES DURING CONSTRUCTION WILL BE REQUIRED TO BE COMPLIANT WITH THE PUBLIC RIGHTS OF WAY ACCESSIBILITY GUIDELINES (PROWAG), 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
11. TYPICAL PAVEMENT SECTION DETAILS ARE SHOWN WITHIN THIS SET AND INTENDED TO BE A MINIMUM PAVEMENT SECTION REQUIREMENT. THE CURRENT GEOTECHNICAL REPORT SHALL OVER-RIDE ALL TYPICAL PAVEMENT SECTIONS SHOWN, IF THE GEOTECHNICAL ENGINEER DEEMS A HEAVIER SECTION IS REQUIRED.
12. EQUIPMENT AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED PROVIDED APPROVAL HAS BEEN OBTAINED FROM THE OWNER IN WRITING PRIOR TO ORDERING OR INSTALLATION. THE CONTRACTOR SHALL WAIVE ANY CLAIM FOR ADDITIONAL COST RELATED TO SUBSTITUTION OF ALTERNATE EQUIPMENT.
13. ALL SIGNAGE ASSOCIATED WITH THE PUBLIC STREET SYSTEM SHALL ADHERE TO MUTCD STANDARDS AND SPECIFICATIONS.

NOTES:

1. ROADS LABELED AS PUBLIC WILL BE DEDICATED AS PUBLIC ROW TO BE MAINTANED BY THE TOWN OF ROLESVILLE.
2. ROADS LABELED AS PRIVATE WILL BE DEDICATED AS PRIVATE AND BE MAINTAINED BY THE HOA.
3. GREENWAY EASEMENTS LABELED AS PUBLIC WILL BE DEDICATED AS PUBLIC AND BE MAINTAINED BY THE TOWN OF ROLESVILLE.
4. SANITARY SEWER EASEMENTS WILL BE DEDICATED AS PUBLIC EASEMENTS TO THE CITY OF RALEIGH.

STORM DRAINAGE NOTES

1. ALL STORM DRAINAGE PIPES SHOWN SHALL BE REINFORCED CONCRETE (RCP) (MINIMUM CLASS III) UNLESS NOTED OTHERWISE. CONTRACTOR TO COORDINATE WITH THE GEOTECH TO VERIFY TYPE OF BEDDING REQUIRED BASED ON SOIL CONDITIONS. CONTRACTOR TO SELECT REQUIRED CLASS OF PIPE BASED ON DEPTH OF PIPE AND BEDDING PROVIDED PER THE AMERICAN CONCRETE PIPE ASSOCIATION GUIDELINES.
2. ALL STORM DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF ROLESVILLE STANDARDS.
3. ALL CONCRETE SHALL MEET A MINIMUM 3000 PSI COMPRESSIVE STRENGTH.
4. ALL PIPE IN STORM DRAIN STRUCTURES SHALL BE STRUCK EVEN WITH INSIDE WALL.
5. ALL PIPE JOINTS SHALL BE MADE WITH PREFORMED JOINT SEALER, WHICH CONFORMS TO AASHTO SPECIFICATION M-198 FOR TYPE B FLEXIBLE PLASTIC GASKETS UNLESS OTHERWISE NOTED.
6. THE INTERIOR SURFACES OF ALL STORM DRAINAGE STRUCTURES SHALL BE POINTED UP AND SMOOTHED TO AN ACCEPTABLE STANDARD, USING MORTAR MIXED TO MANUFACTURER'S SPECIFICATIONS.
7. ALL BACKFILL SHALL BE NON-PLASTIC IN NATURE, FREE FROM ROOTS, VEGETATION MATTER, WASTE CONSTRUCTION MATERIAL OR OTHER OBJECTIONABLE MATERIAL. SAID MATERIAL SHALL BE CAPABLE OF BEING COMPACTED BY MECHANICAL MEANS AND SHALL HAVE NO TENDENCY TO FLOW OR BEHAVE IN A PLASTIC MANNER UNDER THE TAMPING BLOWS OR PROOF ROLLING.
8. MATERIALS DEEMED BY THE OWNER'S REPRESENTATIVE OR GEOTECH AS UNSUITABLE FOR BACKFILL PURPOSES SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL.
9. BACKFILLING OF TRENCHES SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PIPE IS LAID. THE FILL AROUND THE PIPE SHALL BE THOROUGHLY COMPACTED TO 95 % OF THE MAXIMUM DRY DENSITY OBTAINABLE WITH THE STANDARD PROCTOR TEST. THE TOP EIGHT (8) INCHES SHALL BE COMPACTED TO 100 PERCENT STANDARD PROCTOR.
10. UNDER NO CIRCUMSTANCES SHALL WATER BE ALLOWED TO RISE IN UNBACKFILLED TRENCHES AFTER PIPE HAS BEEN PLACED.
11. ALL CONCRETE PIPE AND PRECAST STORM STRUCTURES SHALL MEET NCDOT STANDARDS BY MANUFACTURER.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING ALL PIPE AND STRUCTURES FOR CRACKS OR BREAKS, PRIOR TO INSTALLATION. ANY DAMAGED ITEMS SHALL NOT BE INSTALLED.

GRADING NOTES

1. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION, FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL 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 GIVEN.
2. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS; FINAL RULE 29CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH. EXCAVATION EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRES THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER, PROVIDED BY CONTRACTOR RESPONSIBLE FOR EXCAVATION.
3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF ROLESVILLE AND/OR NCDOT STANDARDS AND SPECIFICATIONS AS APPLICABLE.
4. CONTRACTOR SHALL NOTIFY "NC811" (811) OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NC811". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
5. CONSTRUCTION, MAINTENANCE AND REMOVAL OF ALL EROSION CONTROL DEVICES ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. TIMING OF REMOVAL SHALL BE COORDINATED WITH THE EROSION CONTROL INSPECTOR.
6. EXISTING UTILITIES AND STRUCTURES SHOWN, BOTH UNDERGROUND AND ABOVE GROUND, ARE BASED ON A FIELD SURVEY AND THE BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BEGINNING RELATED CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
7. SOIL UNDER BUILDINGS, PAVED AREAS AND WITHIN SLOPES GREATER THAN 3:1 (H:V) SHALL BE APPROVED, PLACED AND COMPACTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.

RETAINING WALL NOTES

1. THE RETAINING WALL ALIGNMENT SHOWN ON THESE PLANS DEPICTS THE LOCATION OF THE FRONT FACE OF THE RETAINING WALL AT THE TOP OF THE WALL. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING RETAINING WALLS ARE NOT LOCATED IN ANY STREAM BUFFERS, AND THEIR CONSTRUCTION DOES NOT ENCROACH INTO ANY ADJACENT PROPERTIES DUE TO ANY BATTER INCORPORATED IN THE DESIGN OF THE WALLS.
2. RETAINING WALLS ARE TO BE DESIGN-BUILD PROJECTS BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN FINAL CONSTRUCTION DRAWINGS FROM A REGISTERED ENGINEER AND GAIN ALL REQUIRED PERMITS NECESSARY FOR THE CONSTRUCTION OF THE RETAINING WALLS.
3. RETAINING WALLS SHALL BE ASSUMED TO BE BACKFILLED WITH OFF-SITE BORROW MATERIAL OR PROCESSED FILL, UNLESS THE CONTRACTOR CAN PROVIDE TO THE OWNER WITH CONFIRMATION FROM THE GEOTECHNICAL ENGINEER AND THE RETAINING WALL DESIGNER, THAT READILY AVAILABLE ON-SITE SOILS CAN BE USED.
4. THE TOP AND BOTTOM OF WALL ELEVATIONS SHOWN ON THESE PLANS IDENTIFY FINISHED GRADE ELEVATIONS ONLY. THE EXTENT THAT THE RETAINING WALL WILL BE EXTENDED BELOW GRADE TO THE FOOTING OR ABOVE GRADE TO THE TOP OF THE CAP BLOCK COURSE SHALL BE IDENTIFIED ON THE RETAINING WALL CONSTRUCTION DRAWINGS.
5. ALL RETAINING WALLS OVER 30" HIGH SHALL HAVE A SAFETY FENCE (DESIGN BY OTHERS).
6. ANY TIEBACK SYSTEMS FOR THE RETAINING WALLS SHALL NOT BE ALLOWED WITHIN PUBLIC RIGHT-OF-WAY.

CITY OF RALEIGH PUBLIC UTILITIES STANDARD UTILITY NOTES (AS APPLICABLE)

1. ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: CORPUD HANDBOOK, CURRENT EDITION)
2. UTILITY SEPARATION REQUIREMENTS:
   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.
   e. MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN 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. 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.
5. 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCEMAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS.
6. 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.
7. INSTALL 3/4" COPPER 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 & PRESSURE.
8. INSTALL 4" PVC SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED EVERY 75 LINEAR FEET MAXIMUM.
9. 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 UPSTREAM MANHOLE.
10. 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.
11. NCDOT / RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION.
12. GREASE INTERCEPTOR / OIL WATER SEPARATOR SIZING CALCULATIONS & INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY THE CORPUD FOG PROGRAM COORDINATOR PRIOR TO ISSUANCE OF A BUILDING PERMIT. CONTACT TIM BEASLEY AT (919) 996-2334 OR TIMOTHY.BEASLEY@RALEIGHNC.GOV FOR MORE INFORMATION.
13. CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON DEGREE OF HEALTH HAZARD INVOLVED AS LISTED IN APPENDIX-B OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NORTH CAROLINA. THESE GUIDELINES ARE THE MINIMUM REQUIREMENTS. THE DEVICES SHALL MEET AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS OR BE ON THE UNIVERSITY OF SOUTHERN CALIFORNIA APPROVAL LIST. 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 JOANIE HARTLEY AT (919) 996-5923 OR JOANIE.HARTLEY@RALEIGHNC.GOV FOR MORE INFORMATION.

SETBACKS

R3 PUD	
FRONT (FRONT LOAD)	20 FT
FRONT (ALLEY LOAD)	10 FT
SIDE	5 FT
AGGREGATE SIDE	10 FT
CORNER SIDE	10 FT
REAR (FRONT LOAD)	15 FT
REAR (ALLEY LOAD)	5 FT (RIGHT-OF-WAY)
MIN LOT WIDTH	26 FT (FRONT) 20 FT (ALLEY)

SITE AND OPEN SPACE AREAS

TOTAL SITE AREA	23.38 AC
RETAIL	0.00 AC
RESIDENTIAL	23.38 AC
R3 PUD	140 PROPOSED TOWNHOMES
TOTAL UNITS	140
OVERALL DENSITY	5.99 DU/AC
TOWNHOME AREA	23.38 AC
TOWNHOME DENSITY	5.99 DU/AC
ALLOWED DENSITY	10 DU/AC (TOWNHOME)
TOTAL IMPERVIOUS	562,727 SF (12.09 AC)
OPEN SPACE	15% OF TOTAL SITE AREA REQUIRED 3.50 AC REQUIRED 8.89 AC PROVIDED
TOWNHOMES 15% TH AREA (23.38 AC) 35% ACTIVE OS AREA (3.50 AC) TOTAL OPEN SPACE REQUIRED: TOTAL OPEN SPACE PROVIDED:	 3.50 ACRES REQUIRED 1.23 ACRES REQUIRED 3.50 AC 1.80 AC IMPROVED OPEN SPACE 7.09 AC UNIMPROVED OPEN SPACE 8.89 AC TOTAL OPEN SPACE PROVIDED

REQUIRED TOWNHOME PARKING

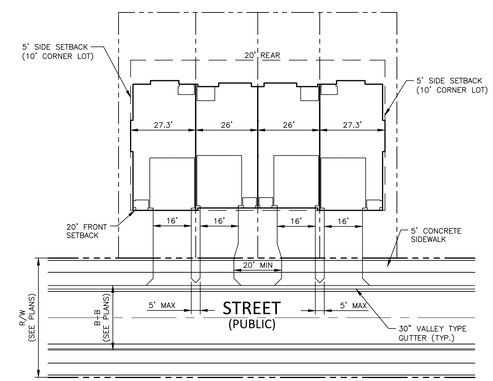
TOTAL UNITS	140
TOTAL 3 BEDROOM UNITS (2 SPACES/TH + 0.5 SPACES PER BEDROOM OVER 2) =	124 (124 x 2) + (124 x 0.5) = 310
TOTAL 4 BEDROOM UNITS (2 SPACES/TH + 0.5 SPACES PER BEDROOM OVER 2) =	16 (16 x 2) + (16 x 0.5) +(16 x 0.5)= 48
VISITOR PARKING	140 UNITS/4 = 35 SPACES
MAIL KIOSK PARKING	6 (SEE MAIL KIOSK CALCULATION TABLE)
TOTAL REQUIRED PARKING	399 SPACES
PROVIDED PARKING:	
GARAGE PARKING	140 x 2 = 280
DRIVEWAY PARKING	140 x 1 =140
STREET PARKING	0
MAIL KIOSK PARKING	6 (1 ACCESSIBLE)
DOG PARK PARKING	11 (2 ACCESSIBLE)
PARKING LOT SPACES	46 (12 AMENITY, 6 MAIL, 28 GUEST)
TOTAL PARKING PROVIDED	477 SPACES

MAIL KIOSK CALCULATIONS

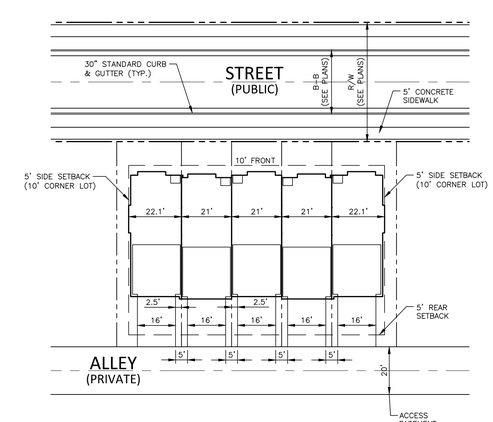
NUMBER OF MAIL BOXES(UNITS)	REQUIRED PARKING SPACES
52 OR LESS	2
53-78	3
79-104	4
105 OR MORE	4 PLUS 1 PER EACH ADDITIONAL 26 MAILBOXES

MAIL KIOSK AREA
MAIL KIOSK CALCULATION:
140 UNITS @ 16 UNITS/KIOSK (CBU) = 9 KIOSKS (CBUs)

MAIL KIOSK PARKING: 140 UNITS
REQUIRED: 6 SPACES
PROVIDED: 6 SPACES (1 ACCESSIBLE)



TYPICAL TOWNHOME LAYOUT
(FRONT LOADED UNITS)
SCALE: 1" = 30'



TYPICAL TOWNHOME LAYOUT
(ALLEY LOADED UNITS)
SCALE: 1" = 30'

McADAMS
The John R. McAdams Company, Inc.
621 Hillsborough Street
Suite 500
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license number: C-0293, C-187
www.mcadamsco.com

WALLBROOK LANDCO, LLC
3 KEEL STREET, SUITE 2
WRIGHTSVILLE BEACH, NORTH CAROLINA
28480-1709

WALLBROOK
CONSTRUCTION DRAWINGS
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T O'Daniel
Date: 2024.08.30 15:44:56-04'00'

REVISIONS

NO.	DATE	
1	09. 27. 2023	WALL CREEK DRIVE TIE-IN REVISIONS
2	11. 02. 2023	EW-400 REVISION
3	05. 10. 2024	UPDATING SCM B GRADING AND SCM A OUTLET
4	06. 06. 2024	SEWER MANHOLE REVISIONS
5	08. 30. 2024	UPDATED BUILDING FOOTPRINTS AND IMPERVIOUS AREA

PLAN INFORMATION

PROJECT NO.	CPR-19100
FILENAME	CPR19100-CD-N1
CHECKED BY	WTO
DRAWN BY	JMS
SCALE	---
DATE	05. 22. 2023

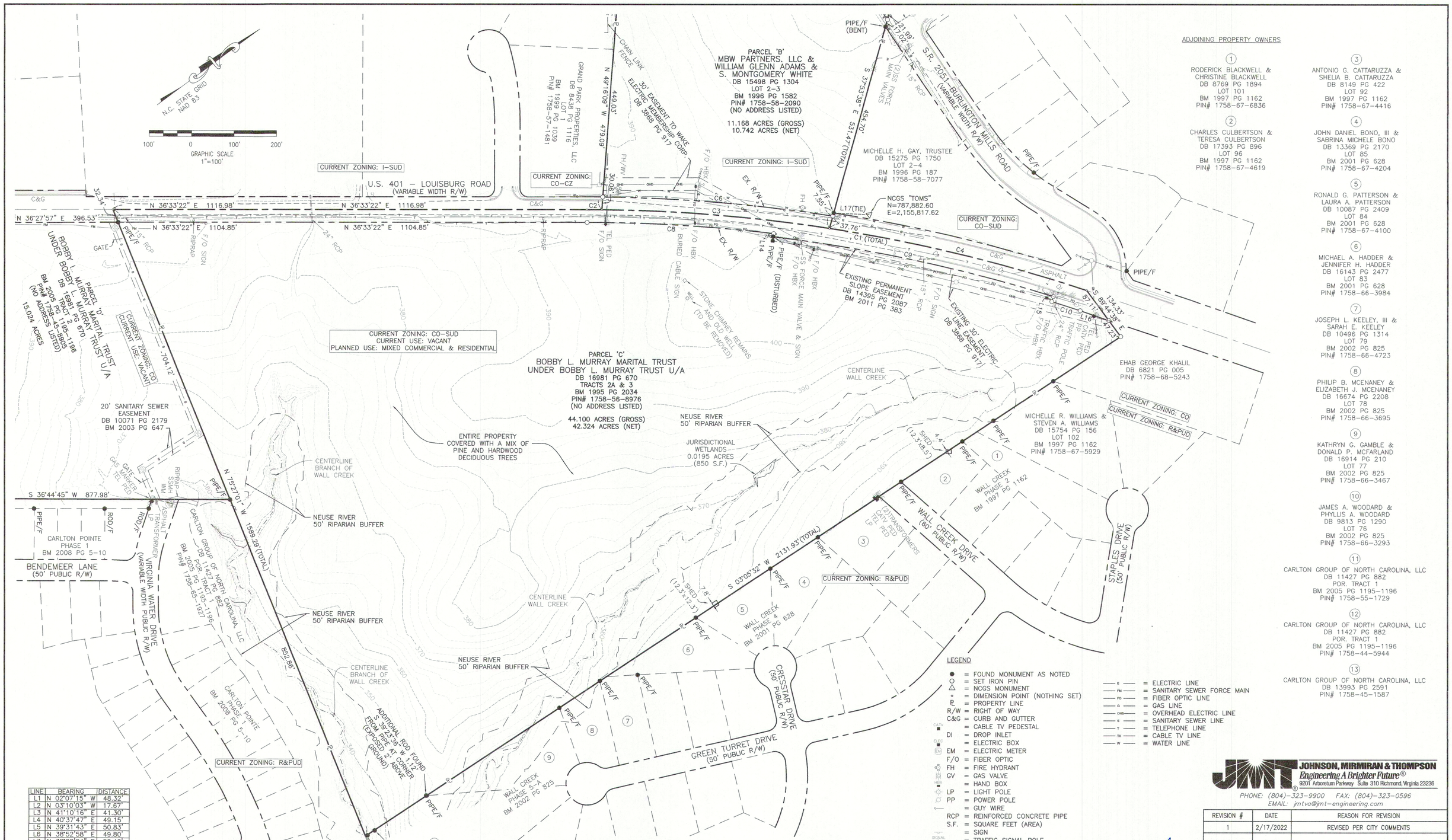
SHEET

PROJECT NOTES

C0.00

FINAL DRAWING - RELEASED FOR CONSTRUCTION

X:\Projects\CPR\CPR-19100\04-Production\Engineering\Site Plan-Construction Drawings\Current Drawings\CPR19100-CD-N1.dwg, 8/29/2024 2:04:42 PM, Tommy Daboit



ADJOINING PROPERTY OWNERS

1. RODERICK BLACKWELL & CHRISTINE BLACKWELL
DB 8769 PG 1894
LOT 101
BM 1997 PG 1162
PIN# 1758-67-6836

2. CHARLES CULBERTSON & TERESA CULBERTSON
DB 17393 PG 896
LOT 96
BM 1997 PG 1162
PIN# 1758-67-4619

3. ANTONIO G. CATTARUZZA & SHELIA B. CATTARUZZA
DB 8149 PG 422
LOT 92
BM 1997 PG 1162
PIN# 1758-67-4416

4. JOHN DANIEL BONO, III & SABRINA MICHELE BONO
DB 13369 PG 2170
LOT 85
BM 2001 PG 628
PIN# 1758-67-4204

5. RONALD G. PATTERSON & LAURA A. PATTERSON
DB 10087 PG 2409
LOT 84
BM 2001 PG 628
PIN# 1758-67-4100

6. MICHAEL A. HADDER & JENNIFER H. HADDER
DB 16143 PG 2477
LOT 83
BM 2001 PG 628
PIN# 1758-66-3984

7. JOSEPH L. KEELEY, III & SARAH E. KEELEY
DB 10496 PG 1314
LOT 79
BM 2002 PG 825
PIN# 1758-66-4723

8. PHILIP B. MCENANEY & ELIZABETH J. MCENANEY
DB 16674 PG 2208
LOT 78
BM 2002 PG 825
PIN# 1758-66-3695

9. KATHRYN G. GAMBLE & DONALD P. MCFARLAND
DB 16914 PG 210
LOT 77
BM 2002 PG 825
PIN# 1758-66-3467

10. JAMES A. WOODARD & PHYLLIS A. WOODARD
DB 9813 PG 1290
LOT 76
BM 2002 PG 825
PIN# 1758-66-3293

11. CARLTON GROUP OF NORTH CAROLINA, LLC
DB 11427 PG 882
POR. TRACT 1
BM 2005 PG 1195-1196
PIN# 1758-55-1729

12. CARLTON GROUP OF NORTH CAROLINA, LLC
DB 11427 PG 882
POR. TRACT 1
BM 2005 PG 1195-1196
PIN# 1758-44-5944

13. CARLTON GROUP OF NORTH CAROLINA, LLC
DB 13993 PG 2591
PIN# 1758-45-1587

LEGEND

- ● = FOUND MONUMENT AS NOTED
- ○ = SET IRON PIN
- △ = NCGS MONUMENT
- ∘ = DIMENSION POINT (NOTHING SET)
- PL = PROPERTY LINE
- R/W = RIGHT OF WAY
- C&G = CURB AND GUTTER
- CATV = CABLE TV PEDESTAL
- DI = DROP INLET
- ELEC = ELECTRIC BOX
- EM = ELECTRIC METER
- F/O = FIBER OPTIC
- FH = FIRE HYDRANT
- GV = GAS VALVE
- HBX = HAND BOX
- LP = LIGHT POLE
- PP = POWER POLE
- = GUY WIRE
- RCP = REINFORCED CONCRETE PIPE
- S.F. = SQUARE FEET (AREA)
- = SIGN
- SIGNAL = TRAFFIC SIGNAL POLE
- SS = SANITARY SEWER MANHOLE
- SSFM = SANITARY SEWER FORCE MAIN VALVE
- SD = STORM DRAIN MANHOLE
- TP = TELEPHONE PEDESTAL
- TRAF = TRAFFIC BOX
- WATER = WATER BOX
- WM = WATER METER
- WMH = WATER MANHOLE
- WV = WATER VALVE
- WELL = WELL
- X-WALK = PEDESTRIAN X-WALK POLE

- E = ELECTRIC LINE
- FM = SANITARY SEWER FORCE MAIN
- FO = FIBER OPTIC LINE
- G = GAS LINE
- OHE = OVERHEAD ELECTRIC LINE
- S = SANITARY SEWER LINE
- T = TELEPHONE LINE
- TV = CABLE TV LINE
- W = WATER LINE

LINE	BEARING	DISTANCE
L1	N 02°07'15" W	48.32'
L2	N 03°10'03" W	17.67'
L3	N 41°10'16" E	41.30'
L4	N 40°37'47" E	49.15'
L5	N 39°31'43" E	50.83'
L6	N 38°52'58" E	49.80'
L7	N 38°22'04" E	50.40'
L8	N 37°17'31" E	50.37'
L9	S 75°02'10" E	50.12'
L10	S 77°31'31" E	22.85'
L11	S 77°31'31" E	29.16'
L12	S 84°03'28" E	50.67'
L13	S 87°10'20" E	135.52'
L14	S 46°39'44" E	7.50'
L15	S 36°12'58" E	12.50'
L16	N 55°13'38" E	70.99'
L17	N 39°21'58" E	83.92'

CURVE TABLE

CURVE	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C1	1197.82'	3750.00'	18°18'05"	S 45°42'25" W	1192.73'
C2	35.15'	3750.00'	0°32'13"	S 36°49'29" W	35.15'
C3	537.89'	3750.00'	8°13'06"	S 41°12'09" W	537.43'
C4	624.78'	3750.00'	9°32'45"	S 50°05'04" W	624.06'
C5	65.86'	123.92'	30°27'05"	S 17°21'49" E	65.09'
C6	543.86'	3780.00'	8°14'37"	S 41°14'38" W	543.40'
C7	276.12'	600.00'	26°22'04"	N 60°23'53" W	273.69'
C8	440.32'	3720.00'	6°46'55"	S 39°56'50" W	440.07'
C9	675.88'	3712.50'	10°25'52"	S 48°33'13" W	674.95'
C10	70.31'	3700.00'	1°05'20"	S 54°18'48" W	70.31'

JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future®
9201 Arboretum Parkway Suite 310 Richmond, Virginia 23236
PHONE: (804)-323-9900 FAX: (804)-323-0596
EMAIL: jmtva@jmt-engineering.com

REVISION #	DATE	REASON FOR REVISION
1	2/17/2022	REVISED PER CITY COMMENTS

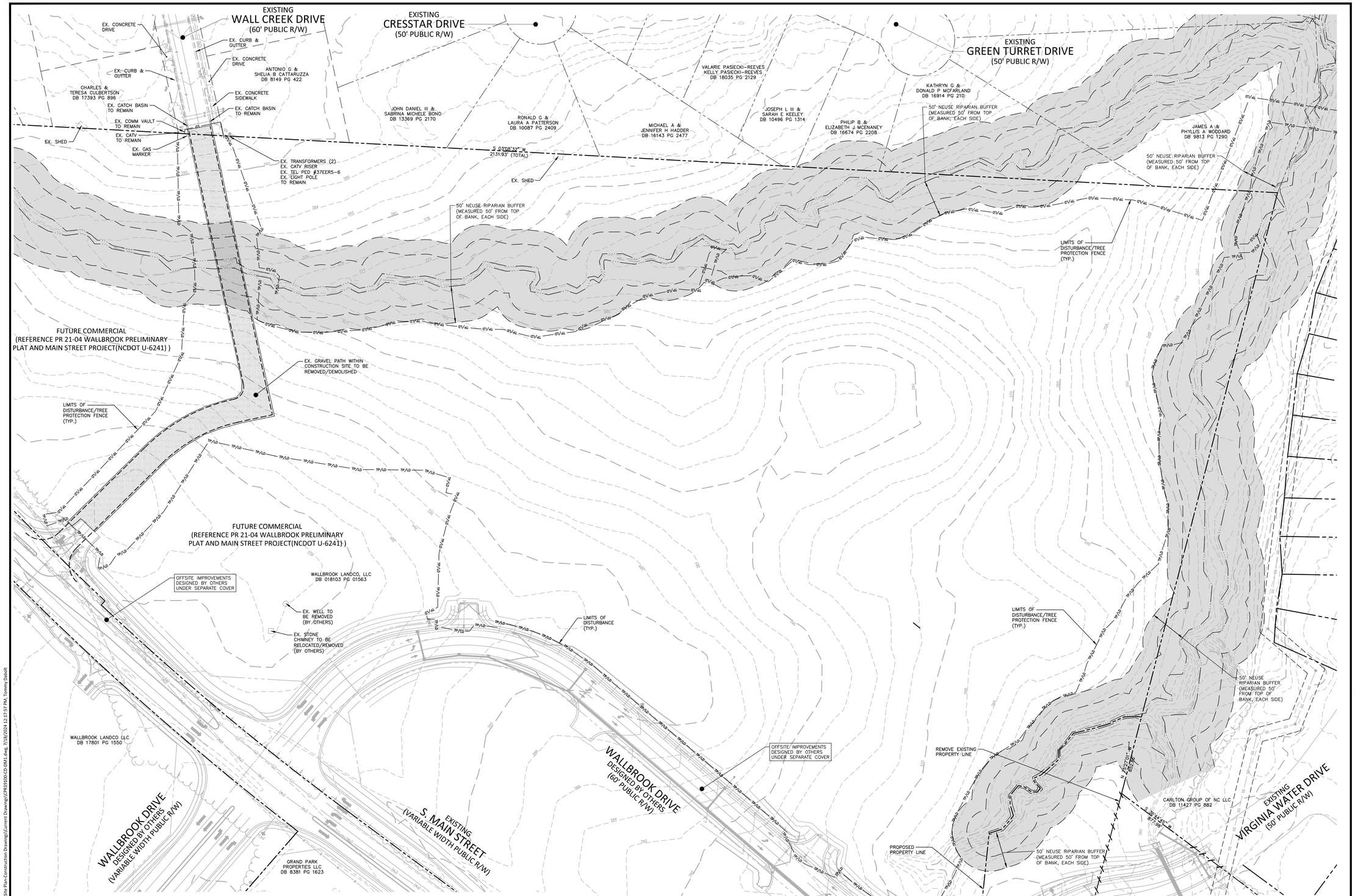
NORTH CAROLINA PROFESSIONAL SEAL L-5205 LAND SURVEYOR MICHAEL W. ZMUDA
2/17/22

EXISTING CONDITIONS

WALLBROOK

WAKE FOREST TOWNSHIP
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA

DRAWN BY: JSZ	PROJECT#:	
CHECKED BY: WTR	CONTRACT#:	JMT#: 17-10946-001
DATE: 03/25/2020	SCALE: 1"=100'	SHEET 1 OF 1



DEMOLITION LEGEND

TREE	TREE OR OTHER VEGETATION TO BE REMOVED
	UNDERGROUND UTILITY TO BE REMOVED
	AREA TO BE REMOVED (SIDEWALK, CURB AND GUTTER, STRUCTURES, ASPHALT, CONCRETE PAVING, ETC.)

NOTE: SEE PLAN FOR DETAILED DEMOLITION PROCEDURES, SEQUENCING AND SPECIFICATIONS.

DEMOLITION NOTES:

1. IN ACCORDANCE WITH 40 CFR, PART 61, SUBPART M, A THOROUGH INSPECTION SHALL BE CONDUCTED FOR ASBESTOS-CONTAINING MATERIALS, PRIOR TO CONDUCTING A RENOVATION OR DEMOLITION ACTIVITY OF AN EXISTING STRUCTURE. THE ASBESTOS INSPECTION MUST BE CONDUCTED BY A NORTH CAROLINA ACCREDITED ASBESTOS INSPECTOR. ALL REGULATED AND/OR FRIABLE ASBESTOS-CONTAINING MATERIALS IDENTIFIED DURING THE SURVEY, WHICH WILL BE DISTURBED, MUST BE PROPERLY REMOVED BY ACCREDITED INDIVIDUALS BEFORE BEGINNING THE RENOVATION OR DEMOLITION ACTIVITY. IF REGULATED AND/OR FRIABLE ASBESTOS CONTAINING MATERIALS TO BE REMOVED EXCEED 160 SQUARE FEET, 260 LINEAR FEET OR 35 CUBIC FEET, A PERMIT SHALL BE APPLIED FOR THROUGH THE NORTH CAROLINA DEPARTMENT OF HEALTH AND HUMAN SERVICES.
2. ALL MATERIAL TO BE DEMOLISHED SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT A PERMITTED SITE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL LAWS.

FINAL DRAWING - RELEASED FOR CONSTRUCTION

X:\Projects\CPR\CPR-19100\04-Production\Engineering\Site Plan-Construction Drawings\Current Drawings\CPR19100-CD-DM1.dwg, 7/18/2024 12:17:57 PM, Tommy Dabolt

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3 KEEL STREET, SUITE 2
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WALLBROOK
CONSTRUCTION DRAWINGS
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T. O'Daniel
Date: 2024.08.30 15:43:31-04'00'

REVISIONS

NO.	DATE	
1	09. 27. 2023	WALL CREEK DRIVE TIE-IN REVISIONS
2	11. 02. 2023	EW-400 REVISION
3	05. 10. 2024	UPDATING SCM & GRADING AND SCM A OUTLET
4	06. 06. 2024	SEWER MANHOLE REVISIONS
5	07. 19. 2024	UPDATED BUILDING FOOTPRINTS AND IMPERVIOUS AREA

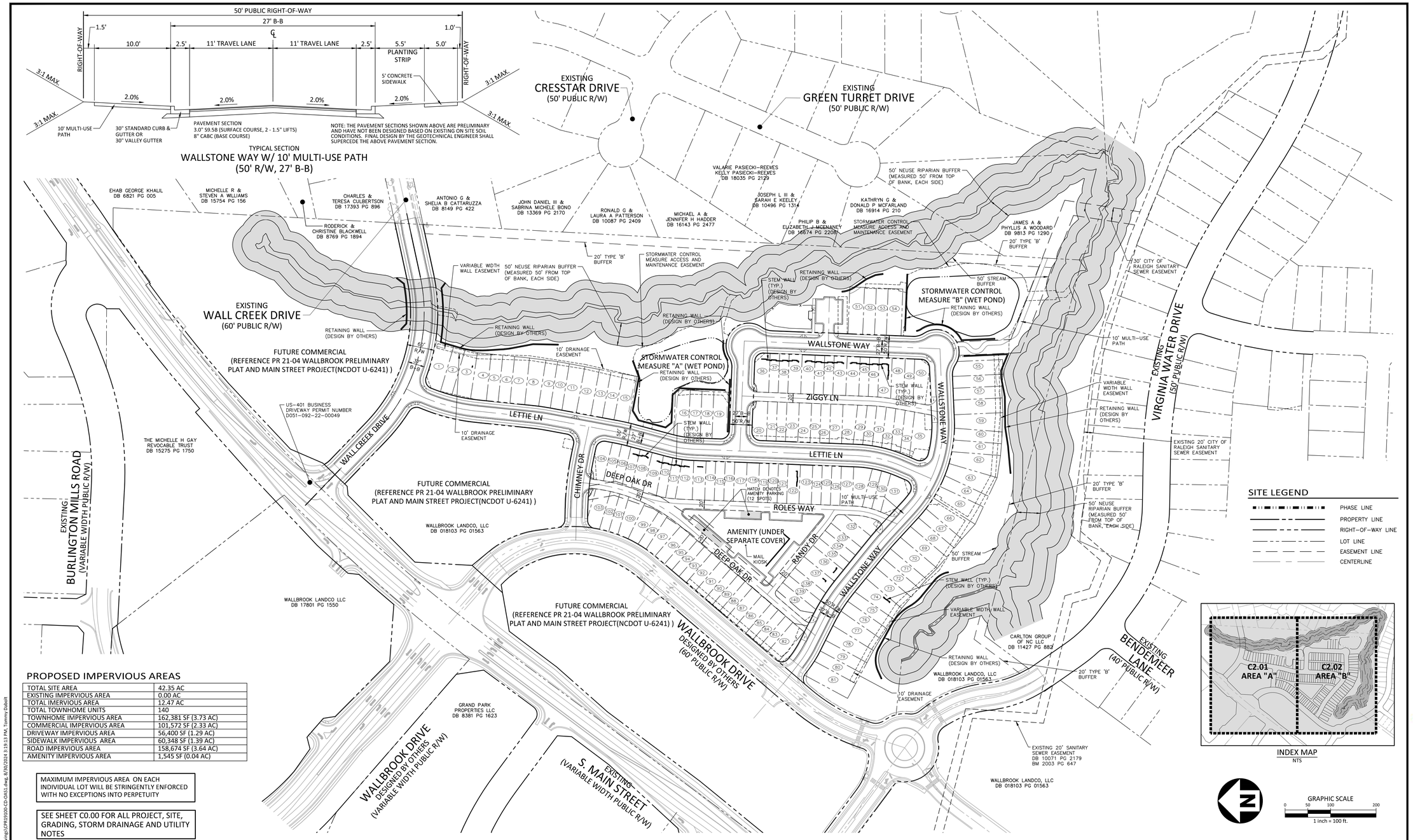
PLAN INFORMATION

PROJECT NO.	CPR-19100
FILENAME	CPR19100-CD-DM1
CHECKED BY	WTO
DRAWN BY	JMS
SCALE	1"=60'
DATE	05. 22. 2023

SHEET

DEMOLITION PLAN

C1.01

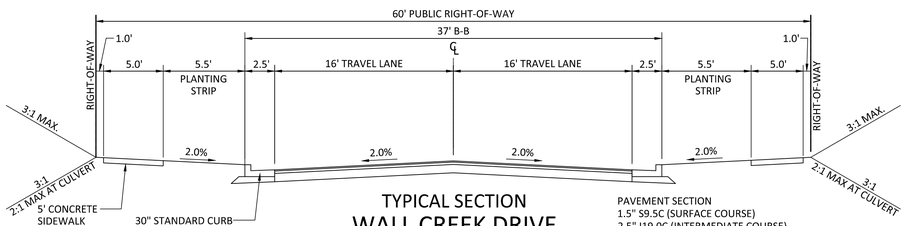


PROPOSED IMPERVIOUS AREAS

TOTAL SITE AREA	42.35 AC
EXISTING IMPERVIOUS AREA	0.00 AC
TOTAL IMERVIOUS AREA	12.47 AC
TOTAL TOWNHOME UNITS	140
TOWNHOME IMPERVIOUS AREA	162,381 SF (3.73 AC)
COMMERCIAL IMPERVIOUS AREA	101,572 SF (2.33 AC)
DRIVEWAY IMPERVIOUS AREA	56,400 SF (1.29 AC)
SIDEWALK IMPERVIOUS AREA	60,348 SF (1.39 AC)
ROAD IMPERVIOUS AREA	158,674 SF (3.64 AC)
AMENITY IMPERVIOUS AREA	1,545 SF (0.04 AC)

MAXIMUM IMPERVIOUS AREA ON EACH INDIVIDUAL LOT WILL BE STRINGENTLY ENFORCED WITH NO EXCEPTIONS INTO PERPETUITY

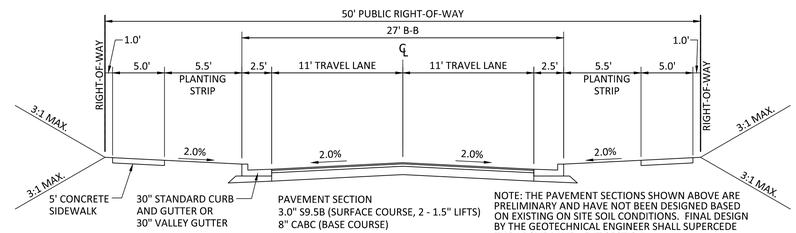
SEE SHEET C0.00 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES



TYPICAL SECTION
WALL CREEK DRIVE
(60' R/W, 37' B-B)

PAVEMENT SECTION
1.5" S9.5C (SURFACE COURSE)
2.5" I19.0C (INTERMEDIATE COURSE)
8" CABC (BASE COURSE)

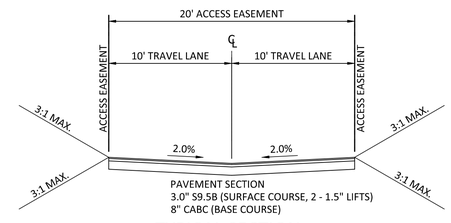
NOTE: THE PAVEMENT SECTIONS SHOWN ABOVE ARE PRELIMINARY AND HAVE NOT BEEN DESIGNED BASED ON EXISTING ON SITE SOIL CONDITIONS. FINAL DESIGN BY THE GEOTECHNICAL ENGINEER SHALL SUPERCEDE THE ABOVE PAVEMENT SECTION.



PAVEMENT SECTION
3.0" S9.5B (SURFACE COURSE, 2 - 1.5" LIFTS)
8" CABC (BASE COURSE)

NOTE: THE PAVEMENT SECTIONS SHOWN ABOVE ARE PRELIMINARY AND HAVE NOT BEEN DESIGNED BASED ON EXISTING ON SITE SOIL CONDITIONS. FINAL DESIGN BY THE GEOTECHNICAL ENGINEER SHALL SUPERCEDE THE ABOVE PAVEMENT SECTION.

TYPICAL SECTION
LETTIE LN, WALLSTONE WAY, CHIMNEY DR
(50' R/W, 27' B-B)



PAVEMENT SECTION
3.0" S9.5B (SURFACE COURSE, 2 - 1.5" LIFTS)
8" CABC (BASE COURSE)

TYPICAL SECTION
DEEP OAK DR, ROLES WAY, RANDY DR, ZIGGY LN
(20' ACCESS EASEMENT , 20' E-E)

FINAL DRAWING - RELEASED FOR CONSTRUCTION

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Digitally signed by William T O'Daniel
Date: 2024.08.30 15:43:32-04'00'

REVISIONS

NO.	DATE	
1	09. 27. 2023	WALL CREEK DRIVE TIE-IN REVISIONS
2	11. 02. 2023	EW-400 REVISION
3	05. 10. 2024	UPDATING SCM B GRADING AND SCM A OUTLET
4	06. 06. 2024	SEWER MANHOLE REVISIONS
5	08. 30. 2024	UPDATED BUILDING FOOTPRINTS AND IMPERVIOUS AREA

PLAN INFORMATION

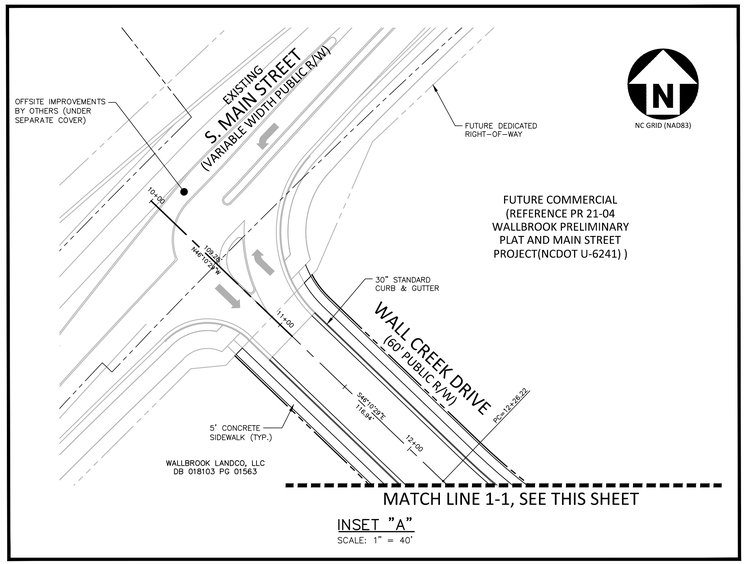
PROJECT NO.	CPR-19100
FILENAME	CPR19100-CD-OAS1
CHECKED BY	WTO
DRAWN BY	JMS
SCALE	1"=100'
DATE	05. 22. 2023

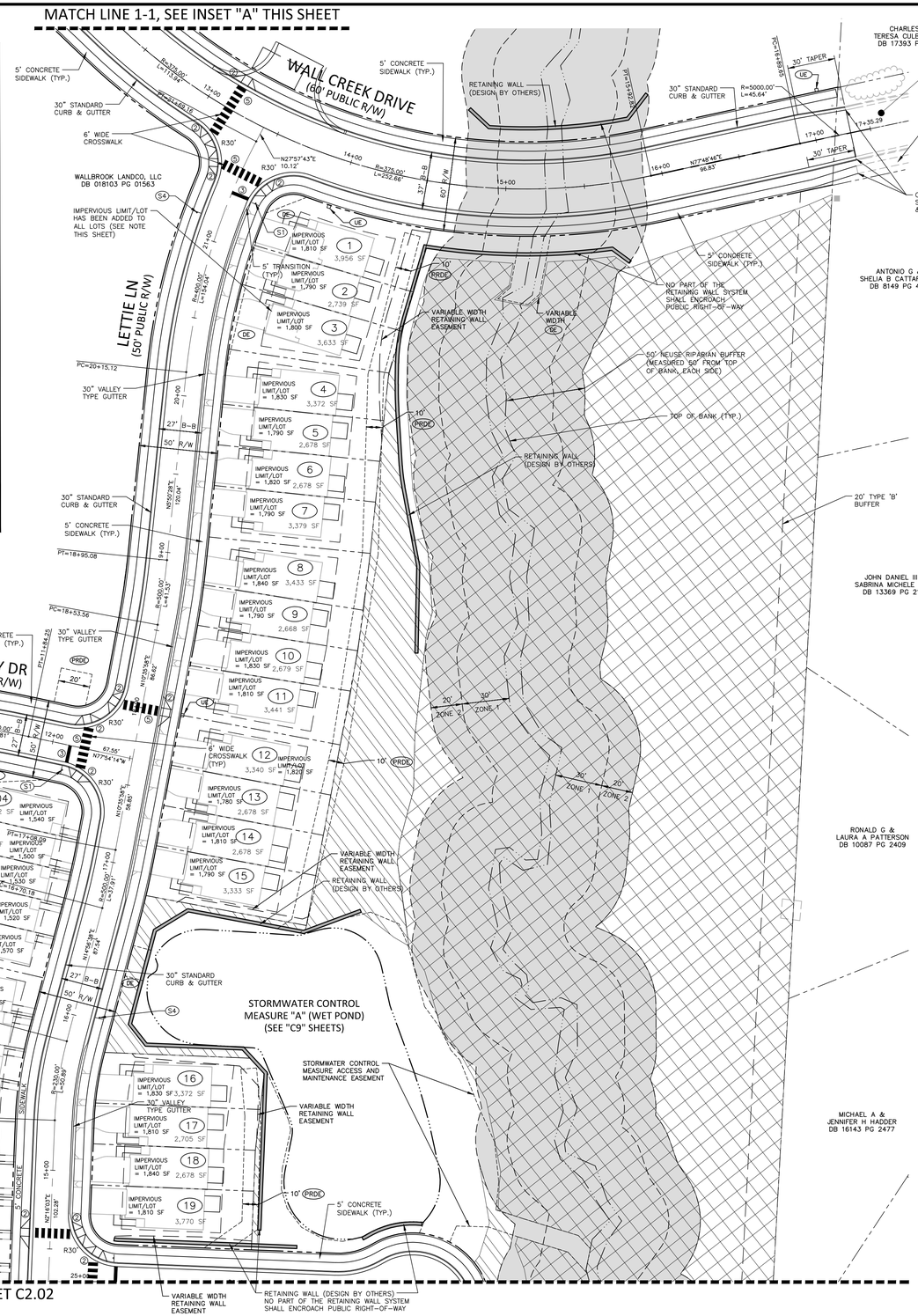
SHEET

OVERALL SITE PLAN

C2.00

X:\Projects\CPR\CPR-19100\04-Production\Engineering\Site Plan-Construction Drawings\Current Drawing\CPR19100-CD-OAS1.dwg, 8/30/2024 3:19:13 PM, Tommy Dabolt



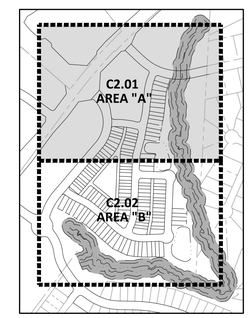


SITE LEGEND

- SIGNAGE
- YARD LIGHTS
- LIGHT POLE
- POWER POLE
- TRAFFIC DIRECTIONAL ARROW
- ACCESSIBLE PARKING STALL
- VAN ACCESSIBLE PARKING STALL
- PARKING SPACE COUNT
- ACCESSIBLE RAMPS (TYPE A, TYPE B, TYPE C)
- ACCESSIBLE ROUTE
- PHASE LINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- LOT LINE
- EASEMENT LINE
- CENTERLINE
- UNIMPROVED OPEN SPACE
- IMPROVED OPEN SPACE

EASEMENT LEGEND

- PRDE PRIVATE STORM DRAINAGE EASEMENT
- DE PUBLIC STORM DRAINAGE EASEMENT
- UE UTILITY EASEMENT

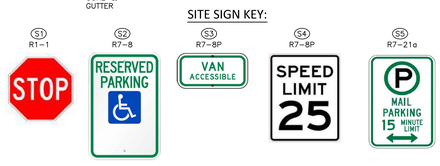


INDEX MAP
NTS

KEY LEGEND

- ② ACCESSIBLE RAMP
- ③ 24" WHITE STOP BAR
- ④ NO PARKING FIRE LANE
- ⑤ 24" WHITE CROSSWALK LINE (HIGH VISIBILITY)
- ⑥ 8" WHITE CROSSWALK LINE

SITE SIGN KEY:



SEE SHEET C0.00 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

MAXIMUM IMPERVIOUS AREA ON EACH INDIVIDUAL LOT WILL BE STRINGENTLY ENFORCED WITH NO EXCEPTIONS INTO PERPETUITY

NC GRID (NAD83)

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

FINAL DRAWING - RELEASED FOR CONSTRUCTION

McADAMS
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www.mcadamsco.com

WALLBROOK LANDCO, LLC
3 KEEL STREET, SUITE 2
WRIGHTSVILLE BEACH, NORTH CAROLINA
28480-1709

WALLBROOK
CONSTRUCTION DRAWINGS
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

William T O'Daniel
2025.01.15
14:27:54 -05'00'

REVISIONS

NO.	DATE	
2	11. 02. 2023	EW-400 REVISION
3	05. 10. 2024	UPDATING SCM B GRADING AND SCM A OUTLET
4	06. 06. 2024	SEWER MANHOLE REVISIONS
5	08. 30. 2024	UPDATED BUILDING FOOTPRINTS AND IMPERVIOUS AREA
8	10. 28. 2024	ADDED WALL DRAIN DETAIL
9	01. 15. 2025	LOT MAX. IMPERVIOUS AREA UPDATE

PLAN INFORMATION

PROJECT NO.	CPR-19100
FILENAME	CPR19100-CD-S1
CHECKED BY	WTO
DRAWN BY	JMS
SCALE	1"=40'
DATE	05. 22. 2023

SHEET

SITE PLAN - AREA "A"

C2.01

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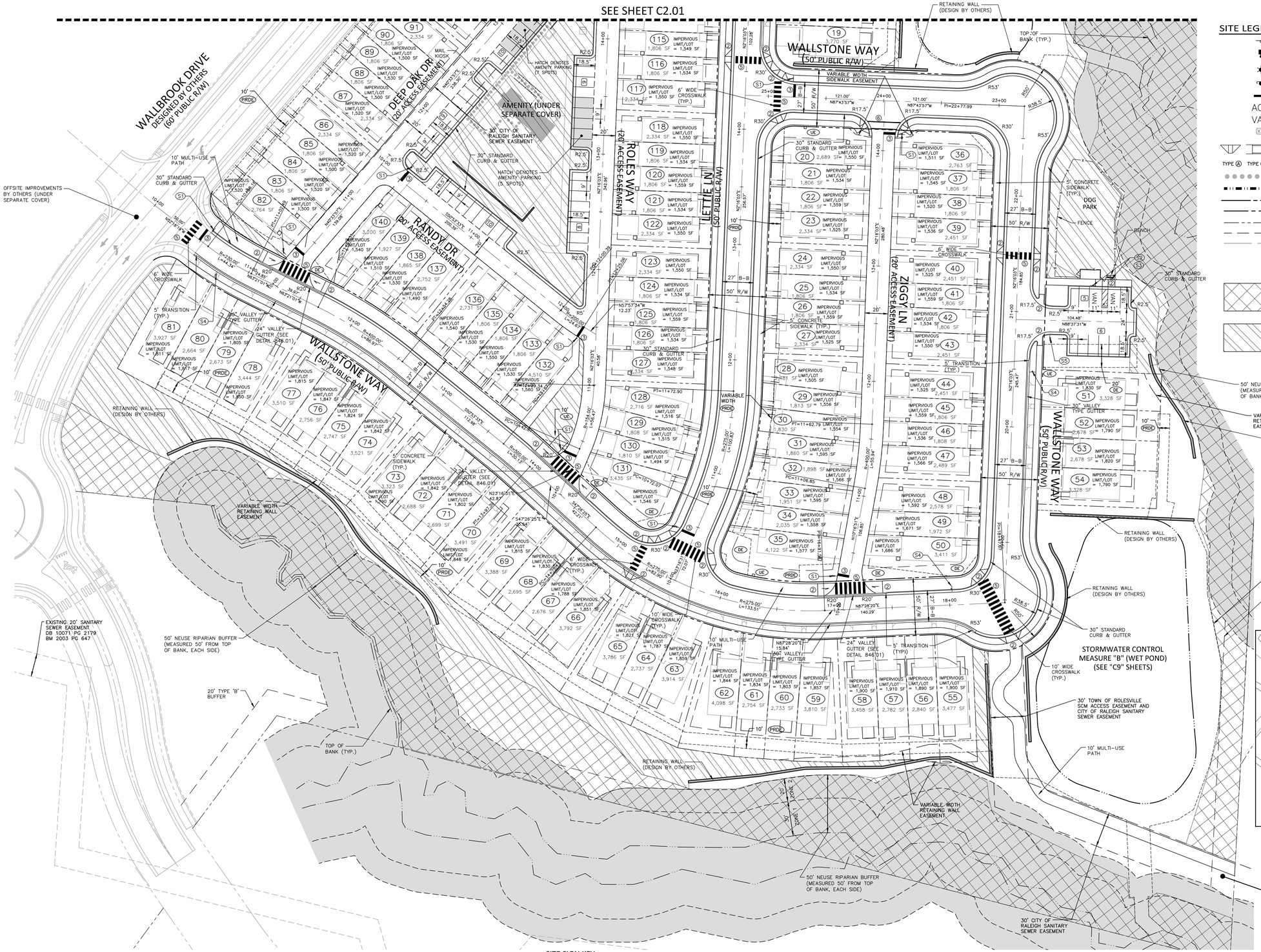


SITE LEGEND

- SIGNAGE
- YARD LIGHTS
- LIGHT POLE
- POWER POLE
- TRAFFIC DIRECTIONAL ARROW
- ACCESSIBLE PARKING STALL
- VAN ACCESSIBLE PARKING STALL
- PARKING SPACE COUNT
- ACCESSIBLE RAMPS (TYPE A, TYPE B, TYPE C)
- ACCESSIBLE ROUTE
- PHASE LINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- LOT LINE
- EASEMENT LINE
- CENTERLINE
- UNIMPROVED OPEN SPACE
- IMPROVED OPEN SPACE

EASEMENT LEGEND

- (PRDE) PRIVATE STORM DRAINAGE EASEMENT
- (DE) PUBLIC STORM DRAINAGE EASEMENT
- (UE) UTILITY EASEMENT

KEY LEGEND

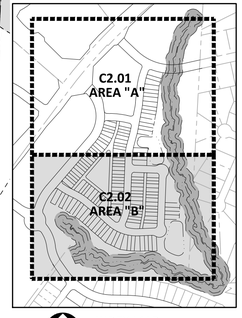
- (2) ACCESSIBLE RAMP
- (3) 24" WHITE STOP BAR
- (4) NO PARKING FIRE LANE
- (5) 24" WHITE CROSSWALK LINE (HIGH VISIBILITY)
- (6) 8" WHITE CROSSWALK LINE

SITE SIGN KEY:

SEE SHEET C0.00 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

MAXIMUM IMPERVIOUS AREA ON EACH INDIVIDUAL LOT WILL BE STRINGENTLY ENFORCED WITH NO EXCEPTIONS INTO PERPETUITY

70 LOTS NOT UPDATED WITH IMPERVIOUS LIMIT



INDEX MAP
NTS

NC GRID (NAD83)

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

FINAL DRAWING - RELEASED FOR CONSTRUCTION

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CONSTRUCTION DRAWINGS
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

William T O'Daniel
2025.01.15
14:28:34 -05'00'

REVISIONS

NO.	DATE	
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PLAN INFORMATION

PROJECT NO.	CPR-19100
FILENAME	CPR19100-CD-S1
CHECKED BY	WTO
DRAWN BY	JMS
SCALE	1"=40'
DATE	05. 22. 2023

SHEET

SITE PLAN - AREA "B"

C2.02

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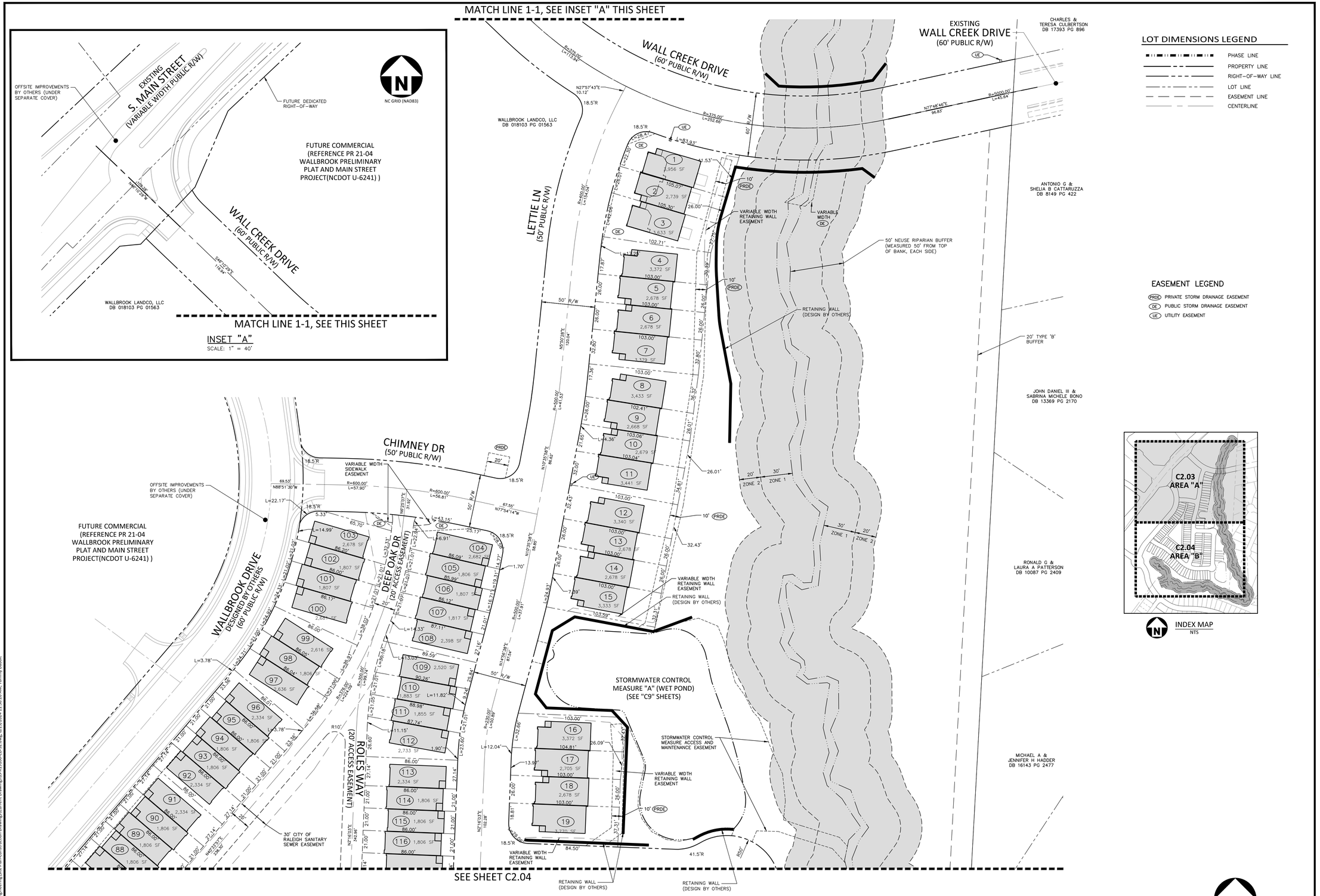

SEE SHEET C0.00 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

LOT DIMENSIONS LEGEND

- PHASE LINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- LOT LINE
- EASEMENT LINE
- CENTERLINE

EASEMENT LEGEND

- PRDE PRIVATE STORM DRAINAGE EASEMENT
- DE PUBLIC STORM DRAINAGE EASEMENT
- UE UTILITY EASEMENT

INDEX MAP
NTS

NC GRID (NAD83)

GRAPHIC SCALE
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NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

W.T. O'Daniel
Digitally signed by William T O'Daniel
Date: 2024.08.30 15:43:36-04'00'

REVISIONS

NO.	DATE	
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PLAN INFORMATION

PROJECT NO.	CPR-19100
FILENAME	CPR19100-CD-S2
CHECKED BY	WTO
DRAWN BY	JMS
SCALE	1"=40'
DATE	05. 22. 2023

SHEET

LOT DIMENSIONS - AREA "A"

C2.03

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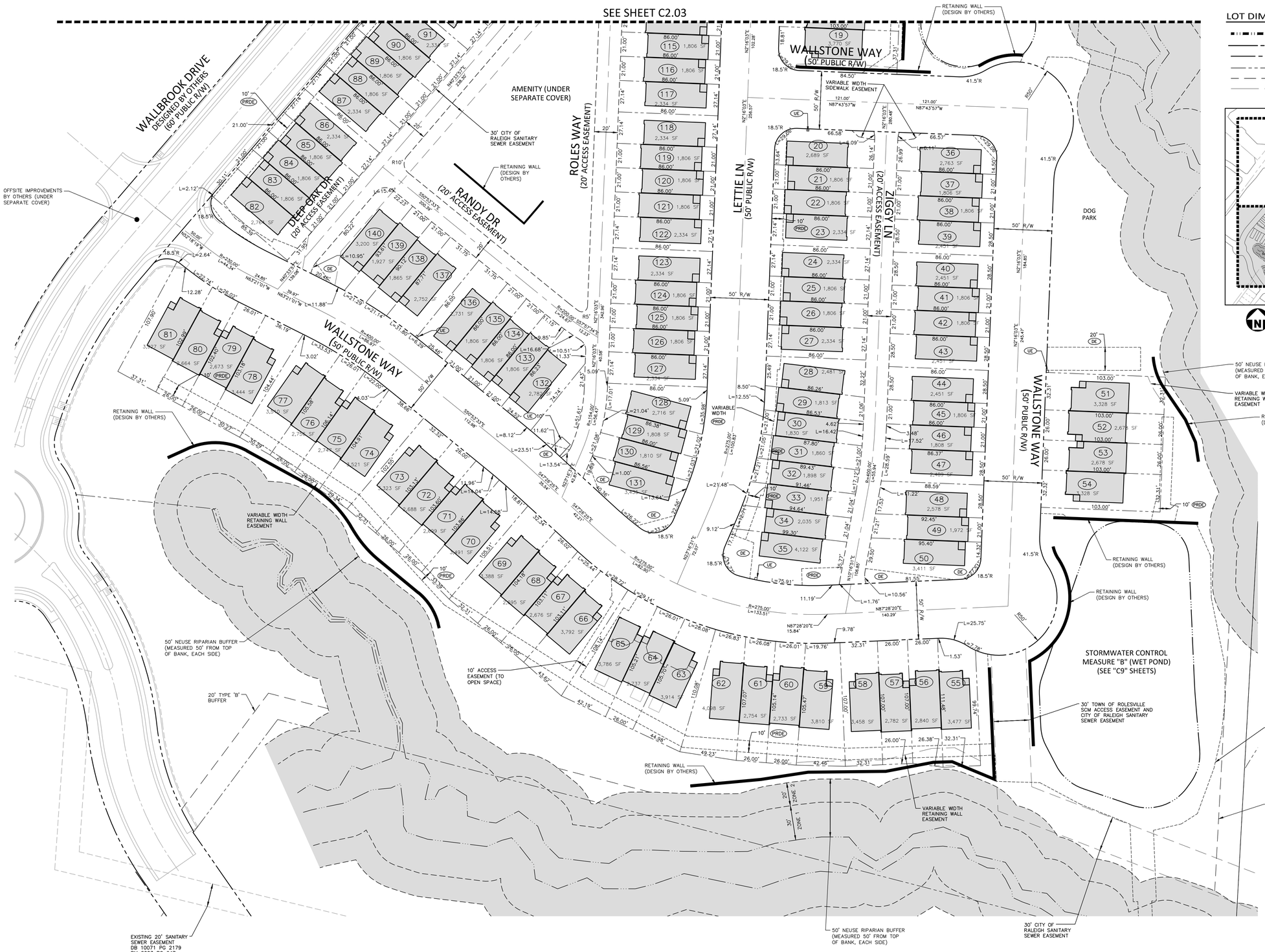

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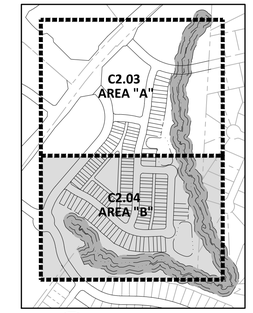
LOT DIMENSIONS LEGEND

- PHASE LINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- LOT LINE
- EASEMENT LINE
- CENTERLINE



INDEX MAP
NTS

EASEMENT LEGEND

- PRDE PRIVATE STORM DRAINAGE EASEMENT
- DE PUBLIC STORM DRAINAGE EASEMENT
- UE UTILITY EASEMENT

NC GRID (NAD83)

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

FINAL DRAWING - RELEASED FOR CONSTRUCTION

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PLAN INFORMATION

PROJECT NO.	CPR-19100
FILENAME	CPR19100-CD-S2
CHECKED BY	WTO
DRAWN BY	JMS
SCALE	1"=40'
DATE	05. 22. 2023

SHEET

LOT DIMENSIONS - AREA "B"

C2.04

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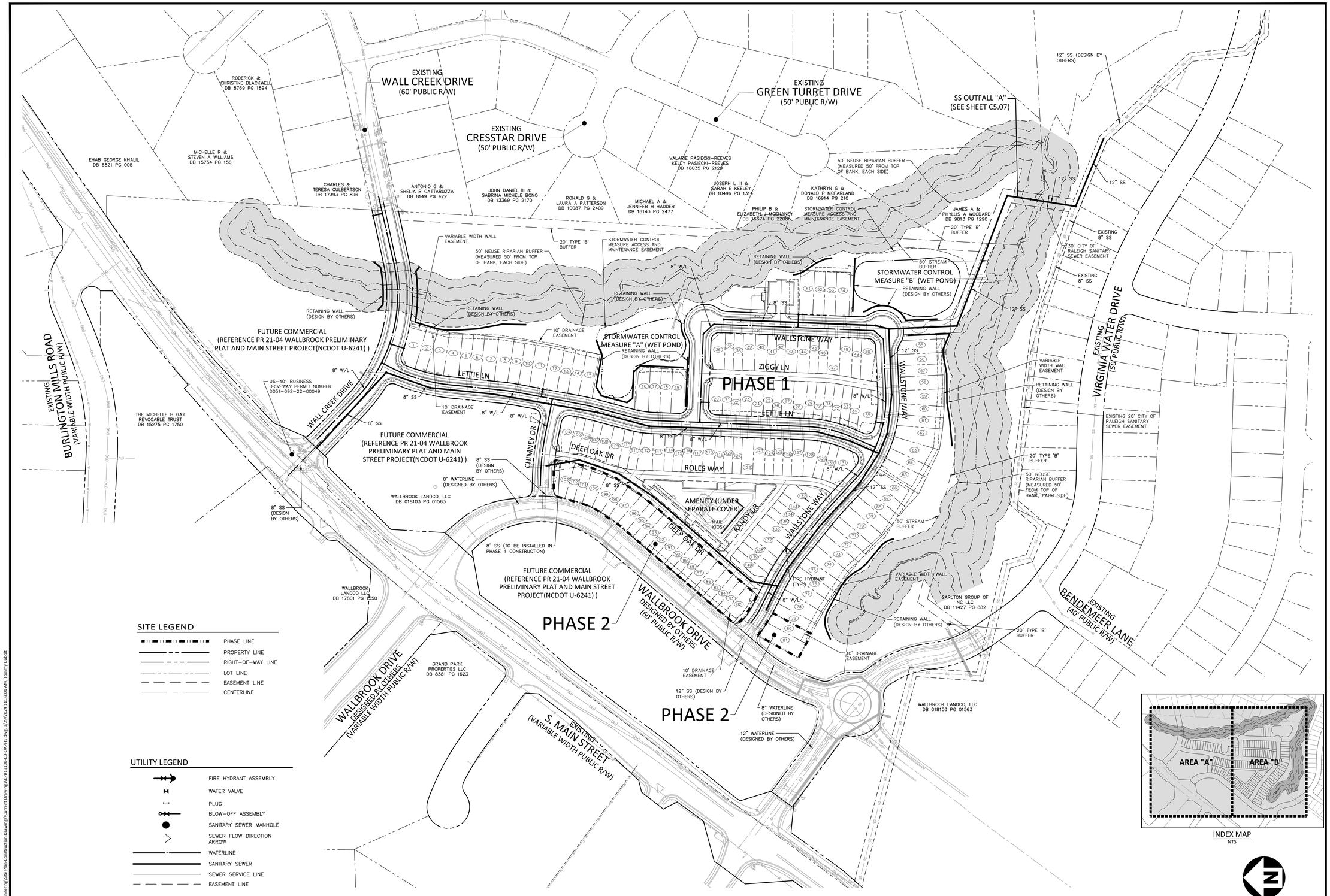

SITE LEGEND

- PHASE LINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- LOT LINE
- EASEMENT LINE
- CENTERLINE

UTILITY LEGEND

- FIRE HYDRANT ASSEMBLY
- WATER VALVE
- PLUG
- BLOW-OFF ASSEMBLY
- SANITARY SEWER MANHOLE
- SEWER FLOW DIRECTION ARROW
- WATERLINE
- SANITARY SEWER
- SEWER SERVICE LINE
- EASEMENT LINE

INDEX MAP
NTS

GRAPHIC SCALE
0 50 100 200
1 inch = 100 ft.

FINAL DRAWING - RELEASED FOR CONSTRUCTION

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PLAN INFORMATION

PROJECT NO.	CPR-19100
FILENAME	CPR19100-CD-OAPH1
CHECKED BY	WTO
DRAWN BY	JMS
SCALE	1"=100'
DATE	05. 22. 2023

SHEET

OVERALL PHASING PLAN

C2.05

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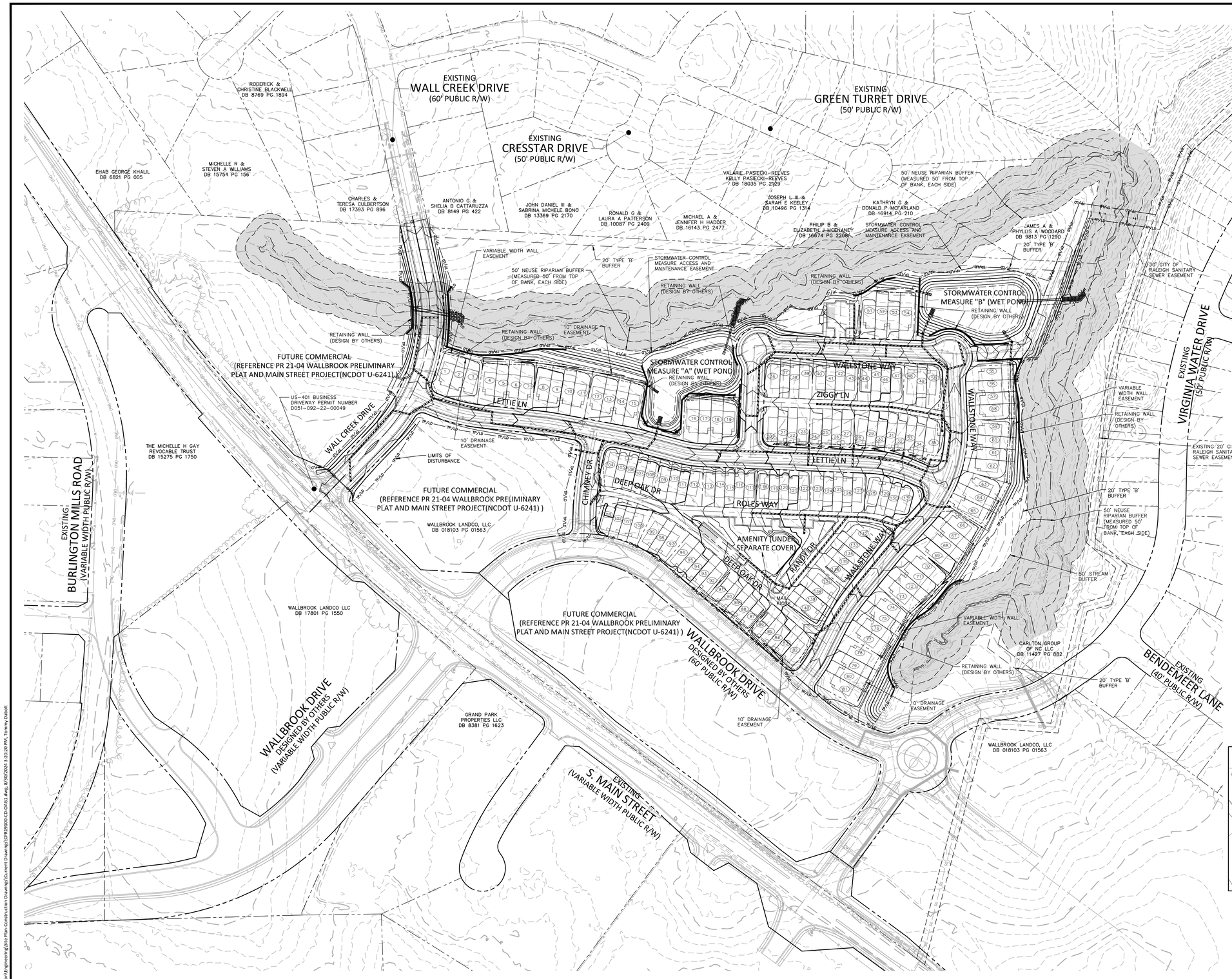
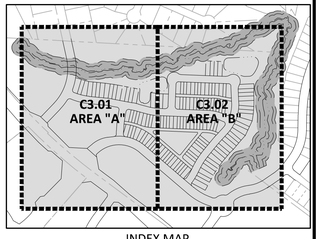


GRADING LEGEND

- FLARED END SECTION
- ENDWALL SECTION
- CATCH BASIN
- DROP INLET
- STORM YARD INLET
- STORM SERVICE ROOF-DRAIN
- JUNCTION BOX
- DRAINAGE FLOW ARROW
- LINE BREAK SYMBOL
- 250.50 / 250.00 — TOP & BOTTOM CURB ELEVATIONS
- TW=223.00 / BW=213.00 — TOP OF WALL ELEVATION / BOTTOM OF WALL ELEVATION (NOTE: BOTTOM OF WALL IS GROUND ELEVATION NOT WALL FOUNDATION)
- + 250.60 — SPOT ELEVATION
- STORM DRAINAGE
- STORM SERVICE LINE
- TREE PROTECTION FENCE
- LIMITS OF DISTURBANCE
- WOODED AREA
- 250 — MAJOR CONTOUR
- 252 — MINOR CONTOUR
- 250 — EXISTING MAJOR CONTOUR
- 252 — EXISTING MINOR CONTOUR
- EASEMENT LINE
- ACCESSIBLE PARKING AREA (2% MAX. SLOPE IN ALL DIRECTIONS)



INDEX MAP
NTS

GRAPHIC SCALE
0 50 100 200
1 inch = 100 ft.

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PLAN INFORMATION

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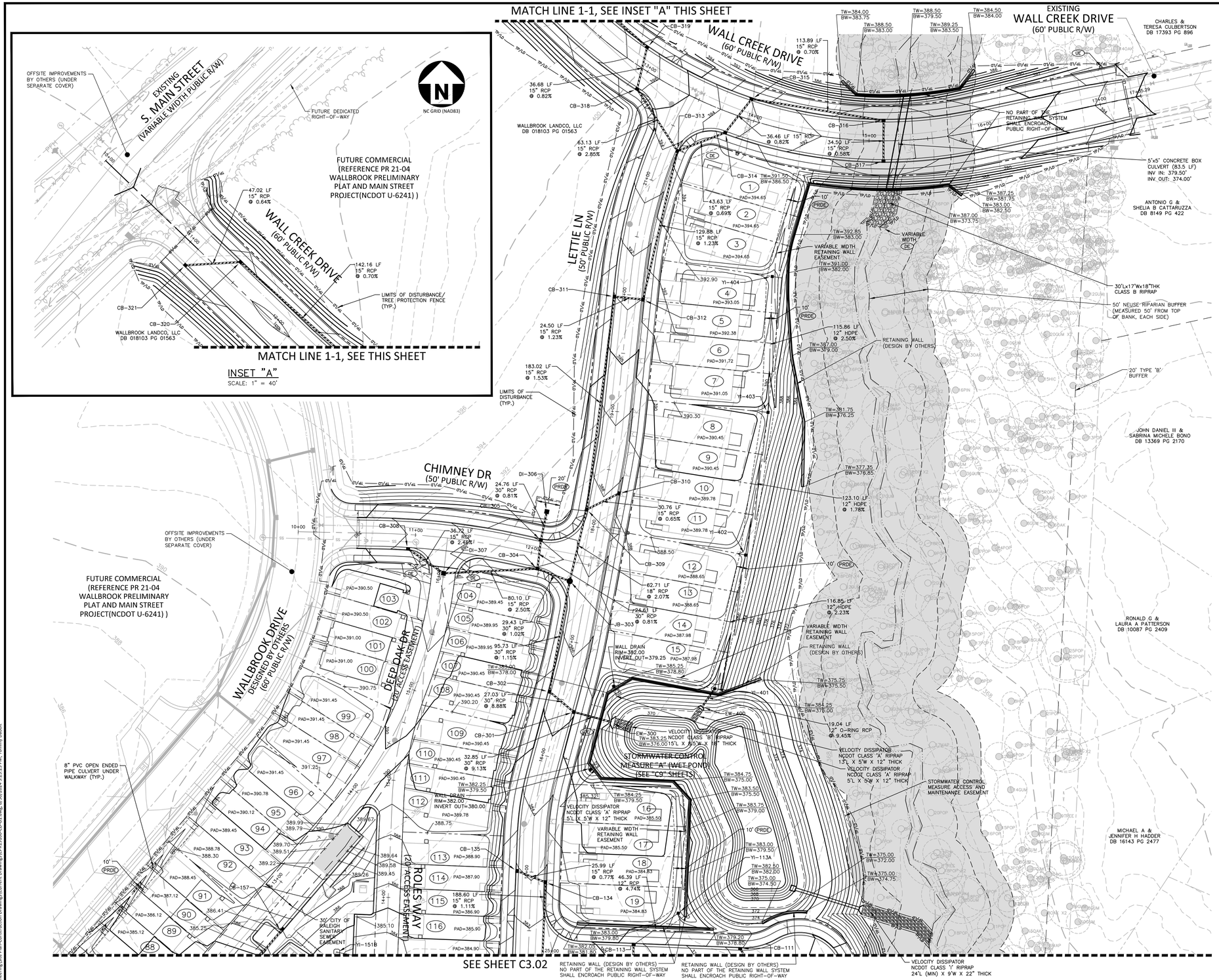
FILENAME	CPR19100-CD-OAG1
CHECKED BY	WTO
DRAWN BY	JMS
SCALE	1"=100'
DATE	05. 22. 2023

SHEET

OVERALL GRADING AND STORM DRAINAGE PLAN

C3.00

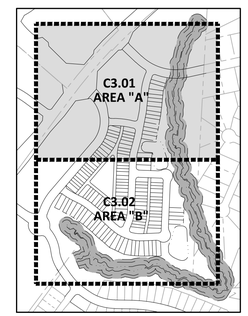
X:\Projects\CPR-19100\04-Production\Engineering\Site Plan-Construction Drawings\Current Drawing\CPR19100-CD-OAG1.dwg, 8/30/2024 3:20:20 PM, Tommy Dabolt



INSET "A"
SCALE: 1" = 40'

GRADING LEGEND

- FLARED END SECTION
- ENDWALL SECTION
- CATCH BASIN
- DROP INLET
- STORM SERVICE INLET
- STORM SERVICE ROOF-DRAIN
- JUNCTION BOX
- DRAINAGE FLOW ARROW
- LINE BREAK SYMBOL
- 250.50 / 250.00 — TOP & BOTTOM CURB ELEVATIONS
- TW=223.00 / BW=213.00 — TOP OF WALL ELEVATION / BOTTOM OF WALL ELEVATION (NOTE: BOTTOM OF WALL IS GROUND ELEVATION NOT WALL FOUNDATION)
- + 250.60 — SPOT ELEVATION
- STORM DRAINAGE
- STORM SERVICE LINE
- RD — ROOF DRAIN, 8" ADS NON-PERFORATED TUBING OR EQUAL 1.0% MIN. SLOPE 3' MIN. COVER PVC SCHEDULE 40 IN TRAFFIC AREAS
- TP — TREE PROTECTION FENCE
- LD — LIMITS OF DISTURBANCE
- WOODED AREA
- 250 — MAJOR CONTOUR
- 252 — MINOR CONTOUR
- 250 — EXISTING MAJOR CONTOUR
- 252 — EXISTING MINOR CONTOUR
- EASEMENT LINE
- ACCESSIBLE PARKING AREA (2% MAX. SLOPE IN ALL DIRECTIONS)



INDEX MAP
NTS

EASEMENT LEGEND

- PRDE — PRIVATE STORM DRAINAGE EASEMENT
- DE — PUBLIC STORM DRAINAGE EASEMENT
- UE — UTILITY EASEMENT

SEE SHEET C0.00 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

CB-111 T/C=377.08 INV OUT=369.80	CB-113 T/C=379.70 INV IN=375.80 (YI-113A) INV OUT=372.80	YI-113A T/G=381.00 INV OUT=378.00	CB-134 (VALLEY GRATE) T/C=383.01 INV IN=376.15 (CB-135) INV OUT=374.80	CB-135 T/C=383.37 INV OUT=376.35	YI-151B T/G=383.75 INV IN=381.27 (YI-151C) INV OUT=381.17	YI-151C T/G=384.25 INV IN=381.52 (YI-151D) INV OUT=381.42	CB-157 T/C=386.80 INV OUT=382.80	EW-300 INV=372.00	CB-301 T/G=385.55 INV IN=375.10 (CB-302) INV OUT=375.00	CB-302 T/C=385.72 INV IN=377.60 (JB-303) INV OUT=377.50	JB-303 RIM=386.66 INV IN=378.80 (CB-304) INV IN=379.60 (CB-309) INV OUT=378.70	CB-304 T/C=387.41 INV IN=382.20 (DI-307) INV IN=379.20 (CB-305) INV OUT=379.10	CB-305 T/C=387.44 INV IN=379.50 (DI-306) INV OUT=379.40	DI-306 T/G=389.00 INV OUT=379.70	DI-307 T/G=388.25 INV IN=384.30 (CB-308) INV OUT=384.20	CB-308 T/C=389.17 INV OUT=385.20	CB-309 T/C=388.01 INV IN=381.00 (CB-310) INV IN=381.20 (CB-311) INV OUT=380.90	CB-310 (VALLEY GRATE) T/C=388.11 INV OUT=381.20	CB-311 T/C=391.42 INV IN=384.10 (CB-312) INV OUT=384.00	CB-312 (VALLEY GRATE) T/C=391.25 INV IN=384.50 (CB-313) INV OUT=384.40	CB-313 T/C=394.27 INV IN=390.20 (CB-318) INV IN=386.20 (CB-314) INV OUT=386.10	CB-314 T/C=393.77 INV IN=386.60 (CB-315) INV OUT=386.50	CB-315 T/C=393.43 INV IN=387.00 (CB-316) INV OUT=386.90	CB-316 T/C=391.75 INV IN=387.90 (CB-317) INV OUT=387.80	CB-317 T/C=391.75 INV OUT=388.10	CB-318 T/C=396.49 INV IN=392.10 (CB-319) INV OUT=392.00	CB-319 T/C=396.86 INV IN=392.50 (CB-320) INV OUT=392.40	CB-320 T/C=397.80 INV IN=393.60 (CB-321) INV OUT=393.50	CB-321 T/C=397.63 INV OUT=393.90	EW-400 INV=372.00	YI-401 T/G=383.70 INV IN=380.70 (YI-402) INV OUT=373.80	YI-402 T/G=386.35 INV IN=383.40 (YI-403) INV OUT=383.30	YI-403 T/G=388.70 INV IN=385.70 (YI-404) INV OUT=385.60	YI-404 T/G=391.60 INV OUT=388.60

NC GRID (NAD83)

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

FINAL DRAWING - RELEASED FOR CONSTRUCTION

McADAMS
The John R. McAdams Company, Inc.
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WALLBROOK
CONSTRUCTION DRAWINGS
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

W.T. O'Daniel
Digitally signed by William T O'Daniel
Date: 2024.08.30 15:51:15-04'00'

REVISIONS

NO.	DATE	
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5	08. 30. 2024	UPDATED BUILDING FOOTPRINTS AND IMPERVIOUS AREA

PLAN INFORMATION

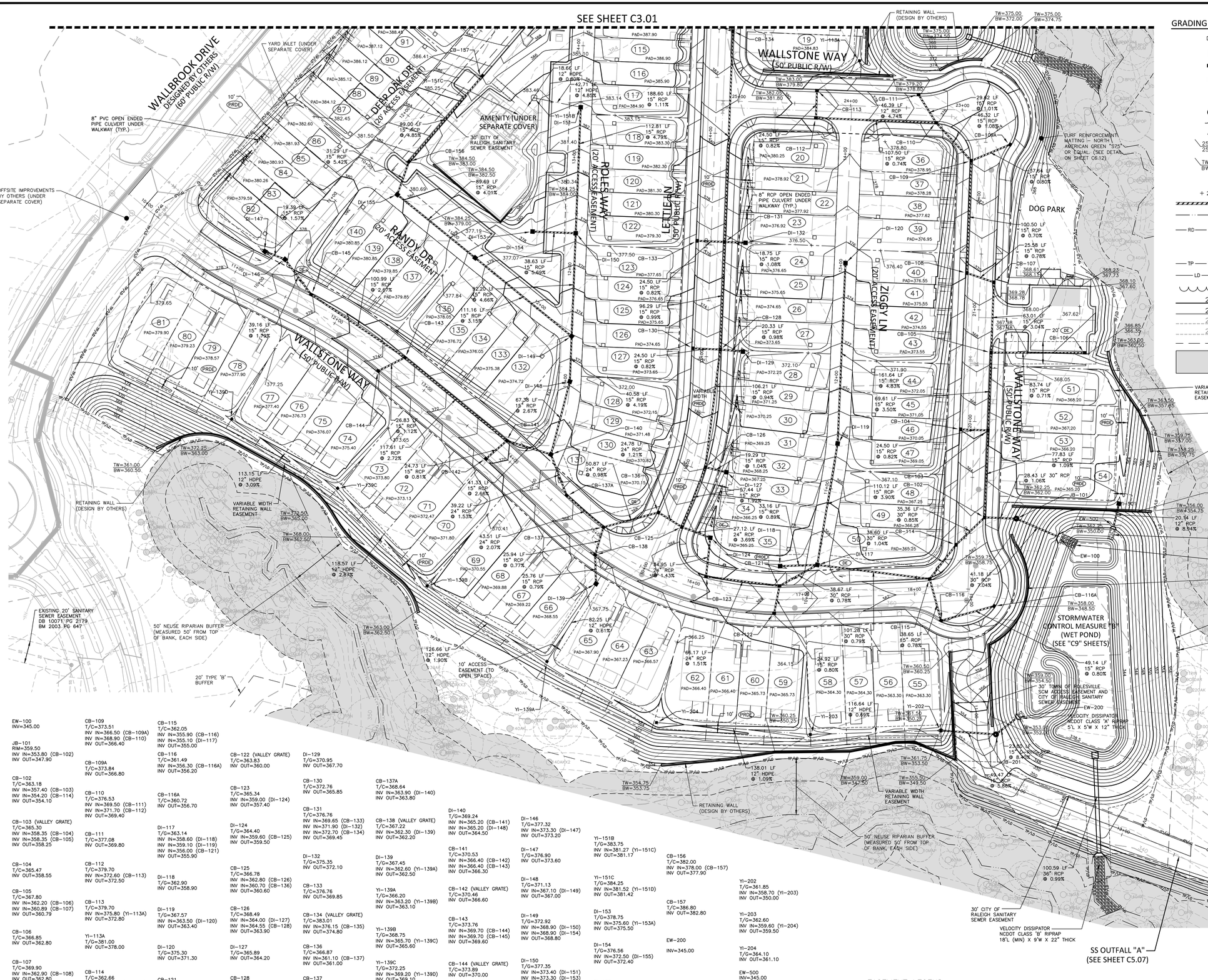
PROJECT NO.	CPR-19100
FILENAME	CPR19100-CD-G1
CHECKED BY	WTO
DRAWN BY	JMS
SCALE	1"=40'
DATE	05. 22. 2023

SHEET

GRADING AND STORM DRAINAGE PLAN - AREA "A"

C3.01

X:\Projects\CPR\CPR-19100\04-Production\Engineering\Site Plan-Construction Drawings\Current Drawings\CPR19100-CD-G1.dwg, 8/30/2024 3:23:23 PM, Tommy Daboll



GRADING LEGEND

- FLARED END SECTION
- ENDWALL SECTION
- CATCH BASIN
- DROP INLET
- STORM SERVICE INLET
- STORM SERVICE ROOF–DRAIN
- JUNCTION BOX
- DRAINAGE FLOW ARROW
- LINE BREAK SYMBOL
- 250.50 / 250.00 — TOP & BOTTOM CURB ELEVATIONS
- TW=223.00 / BW=213.00 — TOP OF WALL ELEVATION / BOTTOM OF WALL ELEVATION (NOTE: BOTTOM OF WALL IS GROUND ELEVATION NOT WALL FOUNDATION)
- + 250.60 — SPOT ELEVATION
- STORM DRAINAGE
- STORM SERVICE LINE
- RD — RD — RD — ROOF DRAIN, 8" ADS NON–PERFORATED TUBING OR EQUAL 1.0% MIN. SLOPE 3' MIN. COVER PVC SCHEDULE 40 IN TRAFFIC AREAS
- TP — TP — TP — TREE PROTECTION FENCE
- LD — LD — LIMITS OF DISTURBANCE
- WOODED AREA
- 250 — MAJOR CONTOUR
- 252 — MINOR CONTOUR
- 250 — EXISTING MAJOR CONTOUR
- 252 — EXISTING MINOR CONTOUR
- EASEMENT LINE
- ACCESSIBLE PARKING AREA (2% MAX. SLOPE IN ALL DIRECTIONS)

EW–100
INV=345.00

JB–101
RIM=359.50
INV IN=353.80 (CB–102)
INV OUT=347.90

CB–102
T/C=363.18
INV IN=357.40 (CB–103)
INV IN=354.20 (CB–114)
INV OUT=354.10

CB–103 (VALLEY GRATE)
T/C=365.30
INV IN=358.35 (CB–104)
INV IN=358.35 (CB–105)
INV OUT=358.25

CB–104
T/C=365.47
INV OUT=358.55

CB–105
T/C=367.80
INV IN=362.20 (CB–106)
INV IN=360.89 (CB–107)
INV OUT=360.79

CB–106
T/C=366.85
INV OUT=362.80

CB–107
T/C=369.90
INV IN=362.90 (CB–108)
INV OUT=362.80

CB–108
T/C=370.15
INV IN=365.70 (CB–109)
INV OUT=363.10

CB–109
T/C=373.51
INV IN=366.50 (CB–109A)
INV IN=368.90 (CB–110)
INV OUT=366.40

CB–109A
T/C=373.84
INV OUT=366.80

CB–110
T/C=376.53
INV IN=369.50 (CB–111)
INV IN=371.70 (CB–112)
INV OUT=369.40

CB–111
T/C=377.08
INV OUT=369.80

CB–112
T/C=379.70
INV IN=372.60 (CB–113)
INV OUT=372.50

CB–113
T/C=379.70
INV IN=375.80 (YI–113A)
INV OUT=372.80

YI–113A
T/C=381.00
INV OUT=378.00

CB–114
T/C=362.66
INV IN=354.60 (CB–115)
INV OUT=354.50

CB–115
T/C=362.05
INV IN=355.90 (CB–116)
INV IN=355.10 (DI–117)
INV OUT=355.00

CB–116
T/C=361.49
INV IN=356.30 (CB–116A)
INV OUT=356.20

CB–116A
T/C=360.72
INV OUT=356.70

DI–117
T/C=363.14
INV IN=358.60 (DI–118)
INV IN=359.10 (DI–119)
INV IN=356.00 (CB–121)
INV OUT=355.90

DI–118
T/C=362.90
INV OUT=358.90

DI–119
T/C=367.57
INV IN=363.50 (DI–120)
INV OUT=363.40

DI–120
T/C=375.30
INV OUT=371.30

CB–121
T/C=363.90
INV IN=359.80 (CB–122)
INV IN=356.40 (CB–123)
INV OUT=356.30

CB–122 (VALLEY GRATE)
T/C=363.83
INV OUT=360.00

CB–123
T/C=365.34
INV IN=359.00 (DI–124)
INV OUT=357.40

DI–124
T/C=364.40
INV IN=359.60 (CB–125)
INV OUT=359.50

CB–125
T/C=366.78
INV IN=362.80 (CB–126)
INV IN=360.70 (CB–136)
INV OUT=360.60

CB–126
T/C=368.49
INV IN=364.00 (DI–127)
INV IN=364.55 (CB–128)
INV OUT=363.90

DI–127
T/C=365.89
INV OUT=364.20

CB–128
T/C=372.76
INV IN=365.65 (CB–130)
INV IN=367.50 (DI–129)
INV IN=368.50 (CB–131)
INV OUT=365.55

DI–129
T/C=370.95
INV OUT=367.70

CB–130
T/C=372.76
INV OUT=365.85

CB–131
T/C=376.76
INV IN=369.65 (CB–133)
INV IN=371.90 (DI–132)
INV IN=372.70 (CB–134)
INV OUT=369.45

DI–132
T/C=375.35
INV OUT=372.10

CB–133
T/C=376.76
INV OUT=369.85

CB–134 (VALLEY GRATE)
T/C=383.01
INV IN=376.15 (CB–135)
INV OUT=374.80

CB–136
T/C=366.87
INV IN=361.10 (CB–137)
INV OUT=361.00

CB–137
T/C=367.58
INV IN=362.00 (CB–138)
INV IN=362.90 (CB–137A)
INV OUT=361.60

CB–137A
T/C=368.64
INV IN=363.90 (DI–140)
INV OUT=363.80

CB–138 (VALLEY GRATE)
T/C=367.22
INV IN=362.30 (DI–139)
INV OUT=362.20

DI–139
T/C=367.45
INV IN=362.60 (YI–139A)
INV OUT=362.50

YI–139A
T/C=366.20
INV IN=363.20 (YI–139B)
INV OUT=363.10

YI–139B
T/C=368.75
INV IN=365.70 (YI–139C)
INV OUT=365.60

YI–139C
T/C=372.25
INV IN=369.20 (YI–139D)
INV OUT=369.10

YI–139D
T/C=375.75
INV OUT=372.70

DI–140
T/C=369.24
INV IN=365.20 (CB–141)
INV IN=365.20 (DI–148)
INV OUT=364.50

CB–141
T/C=370.53
INV IN=366.40 (CB–142)
INV IN=366.40 (CB–143)
INV OUT=366.30

CB–142 (VALLEY GRATE)
T/C=370.46
INV OUT=366.60

CB–143
T/C=373.76
INV IN=369.70 (CB–144)
INV IN=369.70 (CB–145)
INV OUT=369.60

CB–144 (VALLEY GRATE)
T/C=373.89
INV OUT=370.00

CB–145
T/C=376.48
INV IN=372.50 (DI–146)
INV OUT=372.40

DI–146
T/C=377.32
INV IN=373.30 (DI–147)
INV OUT=373.20

DI–147
T/C=376.90
INV OUT=373.60

DI–148
T/C=371.13
INV IN=367.10 (DI–149)
INV OUT=367.00

DI–149
T/C=372.92
INV IN=368.90 (DI–150)
INV IN=368.90 (DI–154)
INV OUT=368.80

DI–150
T/C=377.35
INV IN=373.40 (DI–151)
INV IN=373.30 (DI–153)
INV OUT=373.20

DI–151
T/C=382.78
INV IN=379.10 (YI–151B)
INV OUT=378.80

YI–151B
T/G=383.75
INV IN=381.27 (YI–151C)
INV OUT=381.17

YI–151C
T/G=384.25
INV IN=381.52 (YI–151D)
INV OUT=381.42

DI–153
T/G=378.75
INV IN=375.60 (YI–153A)
INV OUT=375.50

DI–154
T/G=376.56
INV IN=372.50 (DI–155)
INV OUT=372.40

DI–155
T/G=380.21
INV IN=376.20 (CB–156)
INV OUT=376.10

CB–156
T/C=382.00
INV IN=378.00 (CB–157)
INV OUT=377.90

CB–157
T/C=386.80
INV OUT=382.80

EW–200
INV=345.00

JB–201
RIM=351.50
INV IN=347.10 (YI–202)
INV OUT=347.00

YI–202
T/C=361.85
INV IN=358.70 (YI–203)
INV OUT=350.00

YI–203
T/C=362.60
INV IN=359.60 (YI–204)
INV OUT=359.50

YI–204
T/C=364.10
INV OUT=361.10

EW–500
INV=345.00

YI–501
T/C=362.65
INV OUT=346.80

EASEMENT LEGEND

- PRDE — PRIVATE STORM DRAINAGE EASEMENT
- DE — PUBLIC STORM DRAINAGE EASEMENT
- UE — UTILITY EASEMENT

SEE SHEET C0.00 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

FINAL DRAWING - RELEASED FOR CONSTRUCTION

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WALLBROOK
CONSTRUCTION DRAWINGS
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T O'Daniel
Date: 2024.08.30 15:51:17-04'00'

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PLAN INFORMATION

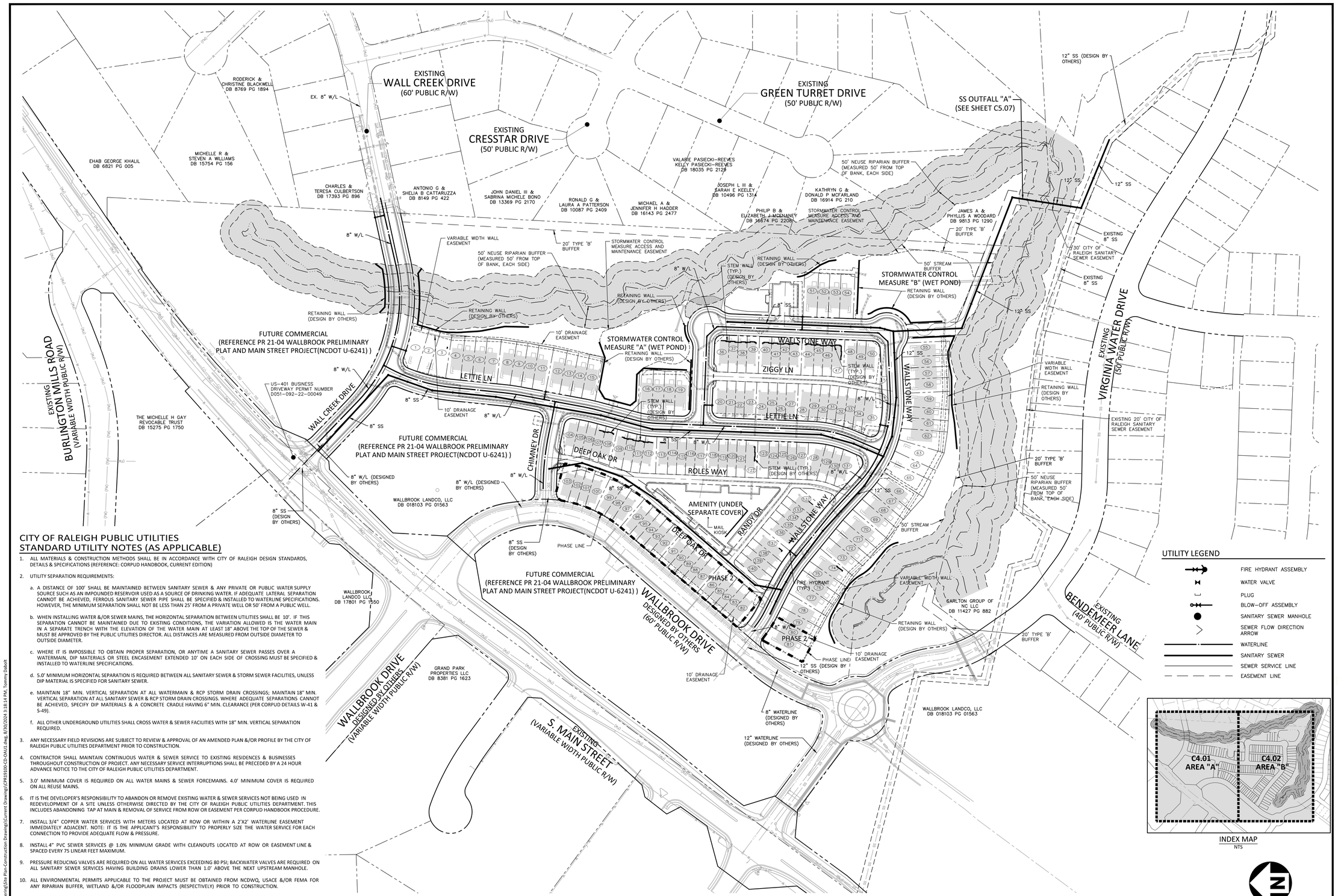
PROJECT NO.	CPR-19100
FILENAME	CPR19100-CD-G1
CHECKED BY	WTO
DRAWN BY	JMS
SCALE	1"=40'
DATE	05. 22. 2023

SHEET

GRADING AND STORM DRAINAGE PLAN - AREA "B"

C3.02

X:\Projects\CPR\CPR-19100\04-Production\Engineering\Site Plan-Construction Drawings\Current Drawing\CPR19100-CD-G1.dwg, 8/30/2024 3:22:28 PM, Tommy Daboll



CITY OF RALEIGH PUBLIC UTILITIES STANDARD UTILITY NOTES (AS APPLICABLE)

1. ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: CORPUD HANDBOOK, CURRENT EDITION)
2. UTILITY SEPARATION REQUIREMENTS:
   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.
   e. MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN 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. 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.
5. 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCEMAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS.
6. 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.
7. INSTALL 3/4" COPPER 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 & PRESSURE.
8. INSTALL 4" PVC SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED EVERY 75 LINEAR FEET MAXIMUM.
9. 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 UPSTREAM MANHOLE.
10. 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.
11. NCDOT / RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION.
12. GREASE INTERCEPTOR / OIL WATER SEPARATOR SIZING CALCULATIONS & INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY THE CORPUD FOG PROGRAM COORDINATOR PRIOR TO ISSUANCE OF A BUILDING PERMIT. CONTACT TIM BEASLEY AT (919) 996-2334 OR TIMOTHY.BEASLEY@RALEIGHNC.GOV FOR MORE INFORMATION.
13. CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON DEGREE OF HEALTH HAZARD INVOLVED AS LISTED IN APPENDIX-B OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NORTH CAROLINA. THESE GUIDELINES ARE THE MINIMUM REQUIREMENTS. THE DEVICES SHALL MEET AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS OR BE ON THE UNIVERSITY OF SOUTHERN CALIFORNIA APPROVAL LIST. 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 JOANIE HARTLEY AT (919) 996-5923 OR JOANIE.HARTLEY@RALEIGHNC.GOV FOR MORE INFORMATION.

SEE SHEET C0.00 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

NOTE: PHASE 2 RELIES ON DESIGN AND INFRASTRUCTURE BY OTHERS FOR PUBLIC WATER. PHASE 2 IS NOT TO BE PLATTED UNTIL THE WATER BY OTHERS IS INSTALLED, INSPECTED AND ACCEPTED BY RALEIGH.

CITY OF RALEIGH – PLANS AUTHORIZED FOR CONSTRUCTION

Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval — Timothy Beasley (Timothy Beasley: I am approving this document. 2024.11.13 14:09:00-05'00') — City of Raleigh Review Officer

SITE PERMITTING APPROVAL

Water and Sewer Permits (If applicable)

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 # S-5230

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 # W-4043

The City of Raleigh consents to the connection to its public sewer system and extension of the private sewer collection system as shown on this plan. The material and constructions 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 # _____

FINAL DRAWING - RELEASED FOR CONSTRUCTION

UTILITY LEGEND

- FIRE HYDRANT ASSEMBLY
- WATER VALVE
- PLUG
- BLOW-OFF ASSEMBLY
- SANITARY SEWER MANHOLE
- SEWER FLOW DIRECTION ARROW
- WATERLINE
- SANITARY SEWER
- SEWER SERVICE LINE
- EASEMENT LINE

INDEX MAP
NTS

GRAPHIC SCALE
0 50 100 200
1 inch = 100 ft.

McADAMS
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NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

W.T. O'Daniel — Digitally signed by William T O'Daniel Date: 2024.08.30 15:43:45-04'00'

REVISIONS

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4	06. 06. 2024	SEWER MANHOLE REVISIONS
5	08. 30. 2024	UPDATED BUILDING FOOTPRINTS AND IMPERVIOUS AREA

PLAN INFORMATION

PROJECT NO.	CPR-19100
FILENAME	CPR19100-CD-OAU1
CHECKED BY	WTO
DRAWN BY	JMS
SCALE	1"=100'
DATE	05. 22. 2023

SHEET

OVERALL UTILITY PLAN

C4.00

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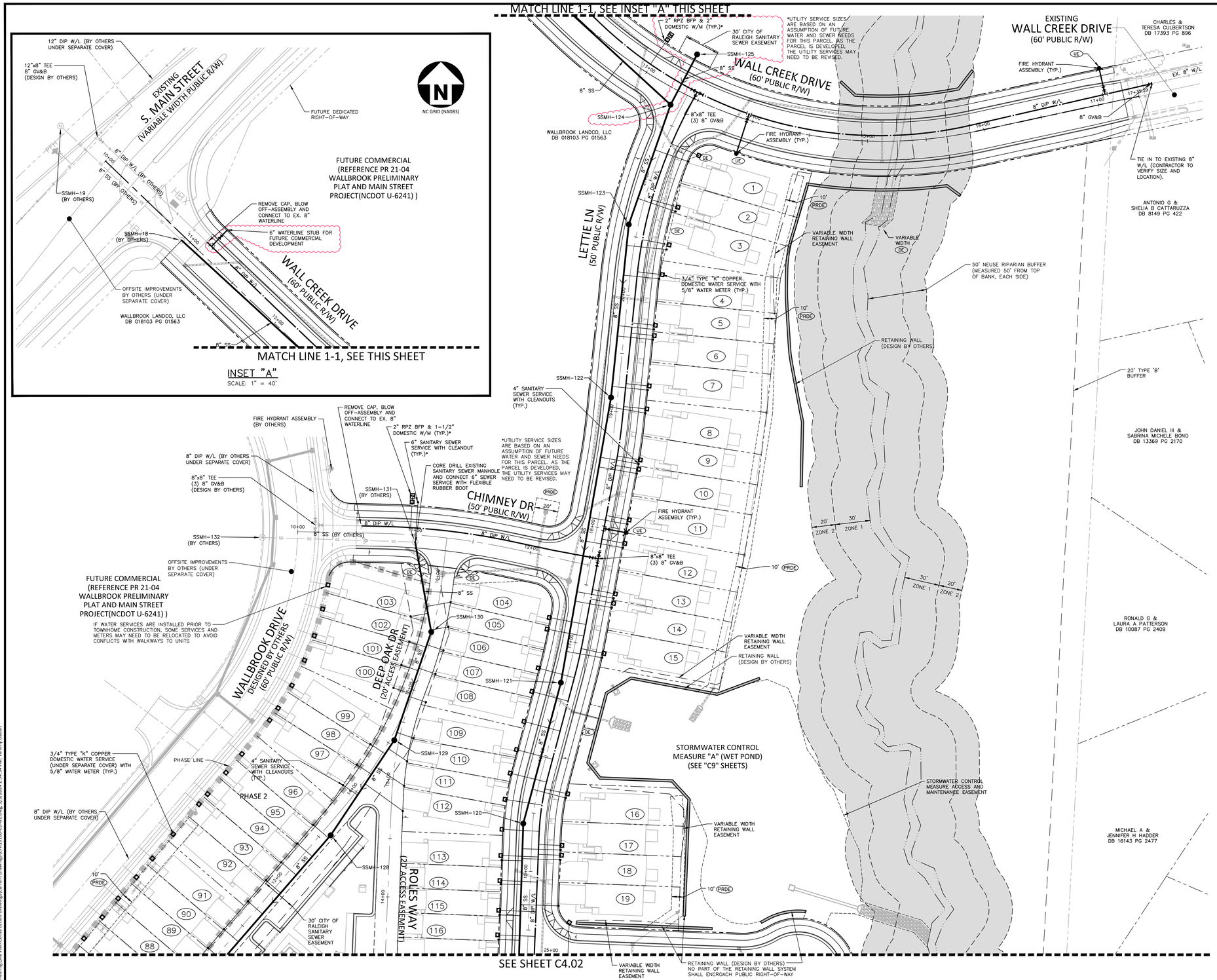
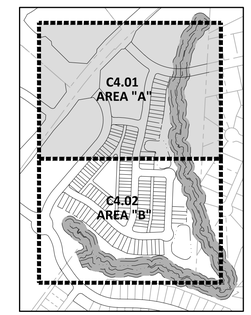


UTILITY LEGEND

- FIRE HYDRANT ASSEMBLY
- FIRE DEPARTMENT CONNECTION (FDC)
- WATER METER
- WATER VALVE
- POST INDICATOR VALVE
- VALVE IN MANHOLE
- METER & VAULT
- BACKFLOW PREVENTER
- REDUCER
- PLUG
- BLOW-OFF ASSEMBLY
- SANITARY SEWER MANHOLE
- SEWER CLEAN-OUT
- GREASE TRAP
- SEWER FLOW DIRECTION ARROW
- YARD LIGHTS
- LIGHT POLE
- POWER POLE
- LINE BREAK SYMBOL
- WATERLINE
- WATER SERVICE LINE
- UTILITY SLEEVE
- SANITARY SEWER
- SEWER SERVICE LINE
- FM — SEWER FORCE MAIN
- G — GAS LINE
- OU — OVERHEAD UTILITY
- UE — UNDERGROUND ELECTRIC
- T — TELEPHONE
- EASEMENT LINE



INDEX MAP
NTS

EASEMENT LEGEND

- PRDE — PRIVATE STORM DRAINAGE EASEMENT
- DE — PUBLIC STORM DRAINAGE EASEMENT
- UE — UTILITY EASEMENT

SEE SHEET C0.00 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

NOTE: PHASE 2 RELIES ON DESIGN AND INFRASTRUCTURE BY OTHERS FOR PUBLIC WATER. PHASE 2 IS NOT TO BE PLATTED UNTIL THE WATER BY OTHERS IS INSTALLED, INSPECTED AND ACCEPTED BY RALEIGH.

CITY OF RALEIGH – PLANS AUTHORIZED FOR CONSTRUCTION

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City of Raleigh Development Approval

City of Raleigh Review Officer

SITE PERMITTING APPROVAL

Water and Sewer Permits (if applicable)

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City of Raleigh Public Utilities Department Permit #

NC GRID (NAD83)

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

FINAL DRAWING - RELEASED FOR CONSTRUCTION

McADAMS
The John R. McAdams Company, Inc.
621 Hillsborough Street
Suite 500
Raleigh, NC 27603
phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187
www.mcadamsco.com

WALLBROOK LANDCO, LLC
3 KEEL STREET, SUITE 2
WRIGHTSVILLE BEACH, NORTH CAROLINA
28480-1709

WALLBROOK
CONSTRUCTION DRAWINGS
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

William T O'Daniel
2024.09.05
15:44:51 -04'00'

REVISIONS

NO.	DATE	
1	09. 27. 2023	WALL CREEK DRIVE TIE-IN REVISIONS
2	11. 02. 2023	EW-400 REVISION
3	05. 10. 2024	UPDATING SCM B GRADING AND SCM A OUTLET
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5	08. 30. 2024	UPDATED BUILDING FOOTPRINTS AND IMPERVIOUS AREA

PLAN INFORMATION

PROJECT NO.	CPR-19100
FILENAME	CPR19100-CD-U1
CHECKED BY	WTO
DRAWN BY	JMS
SCALE	1"=40'
DATE	05. 22. 2023

SHEET

UTILITY PLAN - AREA "A"

C4.01

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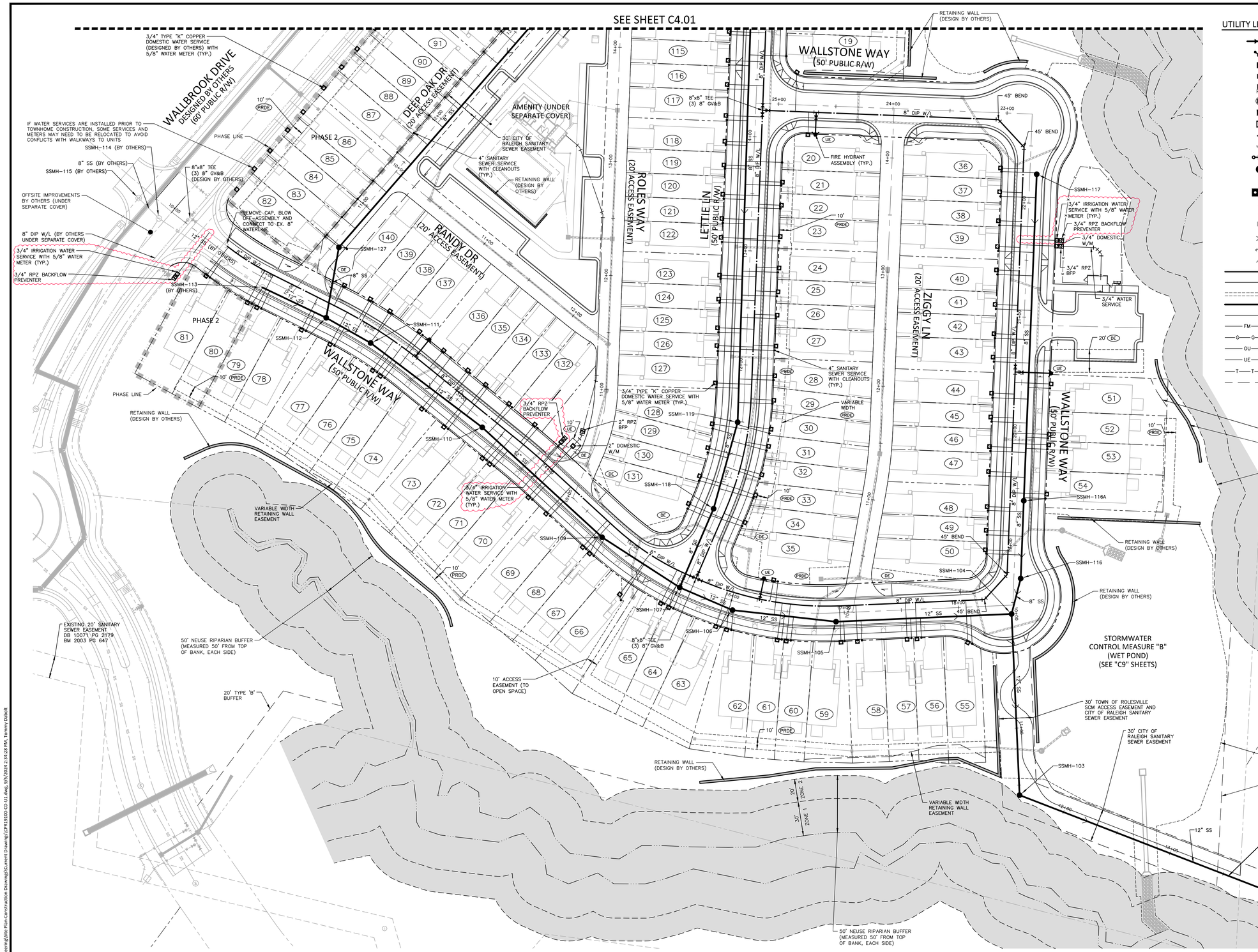

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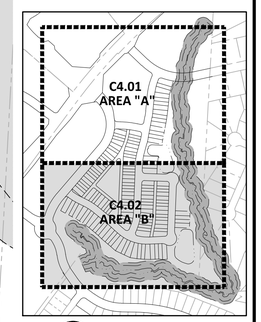

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GRAPHIC SCALE
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1 inch = 40 ft.

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CONSTRUCTION DRAWINGS
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

William T O'Daniel
2024.09.05
15:46:02 -04'00'

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PLAN INFORMATION

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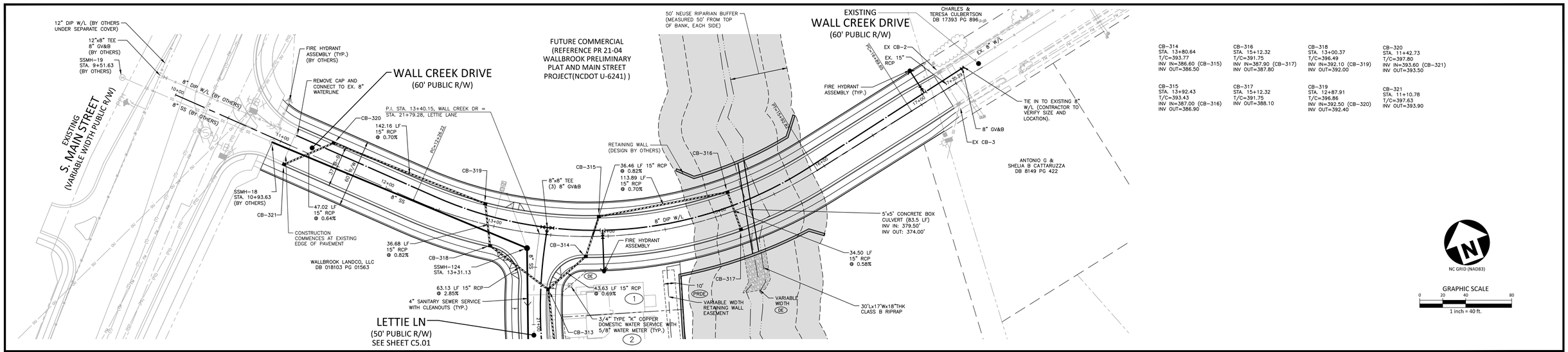
FILENAME	CPR19100-CD-U1
CHECKED BY	WTO
DRAWN BY	JMS
SCALE	1"=40'
DATE	05. 22. 2023

SHEET

UTILITY PLAN - AREA "B"

C4.02

X:\Projects\CPR\CPR-19100\04-Production\Engineering\Site Plan-Construction Drawings\Current Drawings\CPR19100-CD-U1.dwg, 9/5/2024 2:34:28 PM, Tommy Dabolt



CB-314 STA. 13+80.64 T/C=393.77 INV IN=386.60 (CB-315) INV OUT=386.50	CB-316 STA. 15+12.32 T/C=391.75 INV IN=387.90 (CB-317) INV OUT=387.80	CB-318 STA. 13+00.37 T/C=396.49 INV IN=392.10 (CB-319) INV OUT=392.00	CB-320 STA. 11+42.73 T/C=397.80 INV IN=393.60 (CB-321) INV OUT=393.50
CB-315 STA. 13+92.43 T/C=393.43 INV IN=387.00 (CB-316) INV OUT=386.90	CB-317 STA. 15+12.32 T/C=391.75 INV OUT=388.10	CB-319 STA. 12+87.91 T/C=396.86 INV IN=392.50 (CB-320) INV OUT=392.40	CB-321 STA. 11+10.78 T/C=397.63 INV OUT=393.90

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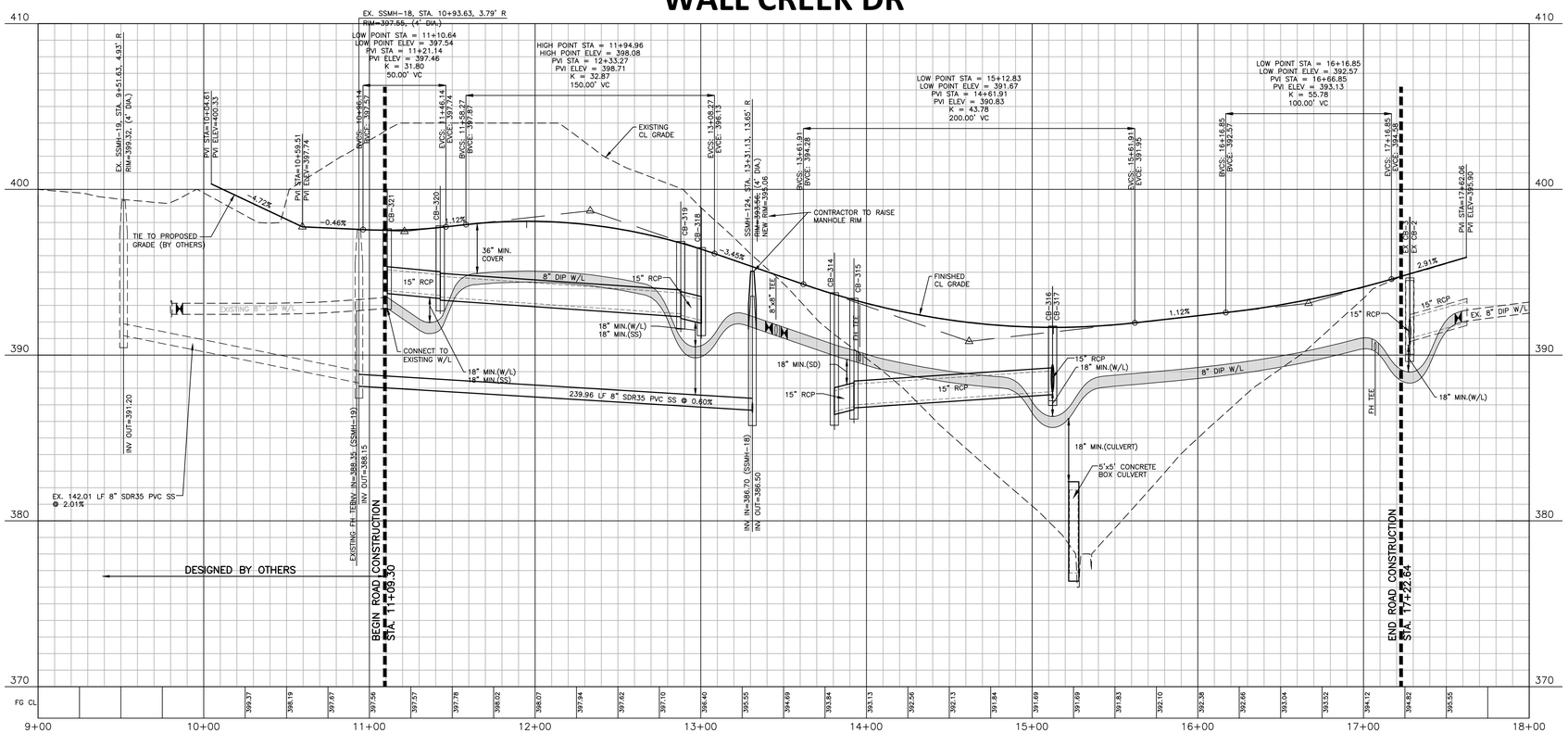
City of Raleigh Development Approval Timothy Beasley (Timothy Beasley I am approving this document. 2024.11.13 14:39:01-05'00') City of Raleigh Review Officer

WALL CREEK DR



FINAL DRAWING - RELEASED FOR CONSTRUCTION

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CLIENT

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NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

W.T. O'Daniel Digitally signed by William T O'Daniel
Date: 2024.08.30 15:46:07-04'00'

WALLBROOK
CONSTRUCTION DRAWINGS
ROLESVILLE, NORTH CAROLINA

PLAN INFORMATION

PROJECT NO.	CPR-19100
FILENAME	CPR19100-CD-P1
CHECKED BY	WTO
DRAWN BY	JMS
SCALE	1"=40'/1"=4'
DATE	05. 22. 2023

PLAN AND PROFILE
WALL CREEK DR, STA. 9+00 THRU STA. 18+00

C5.00

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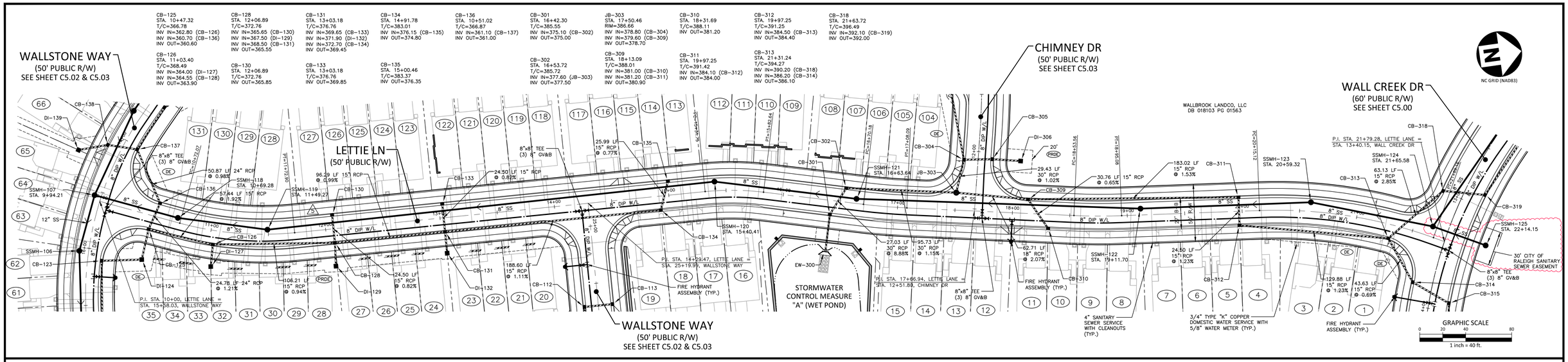

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INV IN=360.70 (CB-136)
INV OUT=360.60

CB-126
STA. 11+03.40
T/C=368.49
INV IN=364.00 (DI-127)
INV IN=364.55 (CB-128)
INV OUT=363.90

CB-128
STA. 12+06.89
T/C=372.76
INV IN=365.65 (CB-130)
INV IN=367.50 (DI-129)
INV IN=368.50 (CB-131)
INV OUT=365.55

CB-130
STA. 12+06.89
T/C=372.76
INV OUT=365.85

CB-131
STA. 13+03.18
T/C=376.76
INV IN=369.65 (CB-133)
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INV IN=372.70 (CB-134)
INV OUT=369.45

CB-133
STA. 13+03.18
T/C=376.76
INV OUT=369.85

CB-134
STA. 14+91.78
T/C=383.01
INV IN=376.15 (CB-135)
INV OUT=374.80

CB-135
STA. 15+00.46
T/C=383.37
INV OUT=376.35

CB-136
STA. 10+51.02
T/C=366.87
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INV OUT=361.00

CB-301
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T/C=385.55
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INV OUT=375.00

CB-302
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JB-303
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CB-309
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INV OUT=380.90

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CB-312
STA. 19+97.25
T/C=391.25
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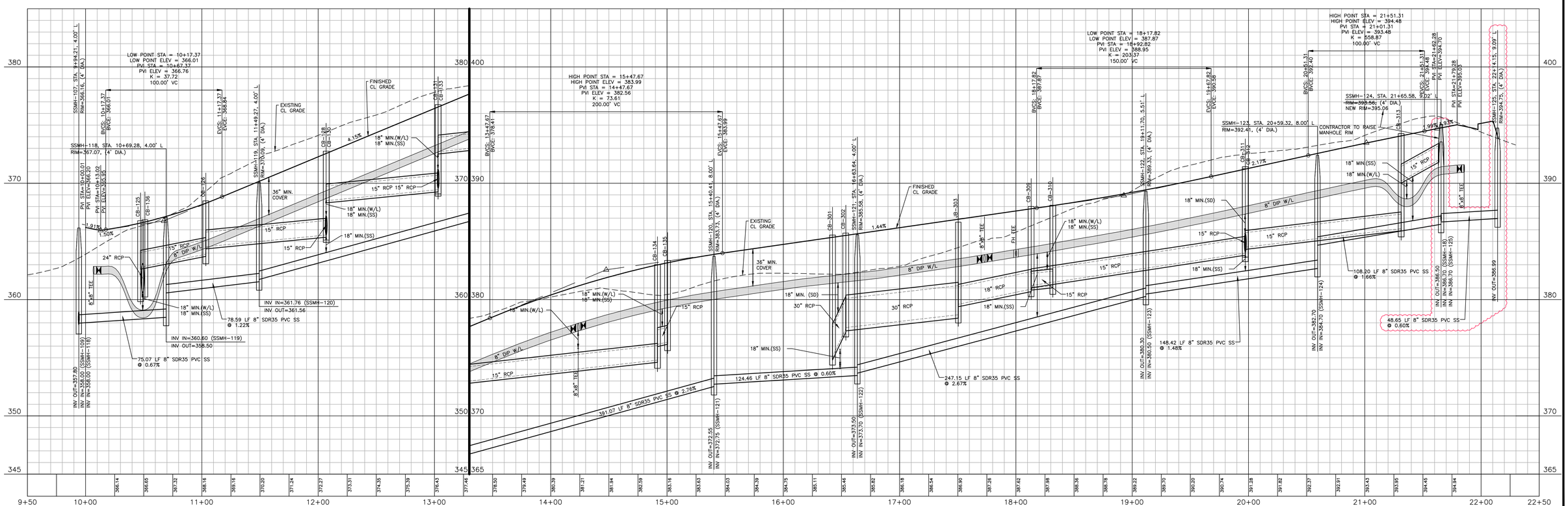
INV OUT=384.40

CB-313
STA. 21+31.24
T/C=394.27
INV IN=390.20 (CB-318)
INV IN=386.20 (CB-314)
INV OUT=386.10

CB-318
STA. 21+63.72
T/C=396.49
INV IN=392.10 (CB-319)
INV OUT=392.00

LETTIE LANE



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William T O'Daniel
2024.09.05
15:46:24 -04'00'

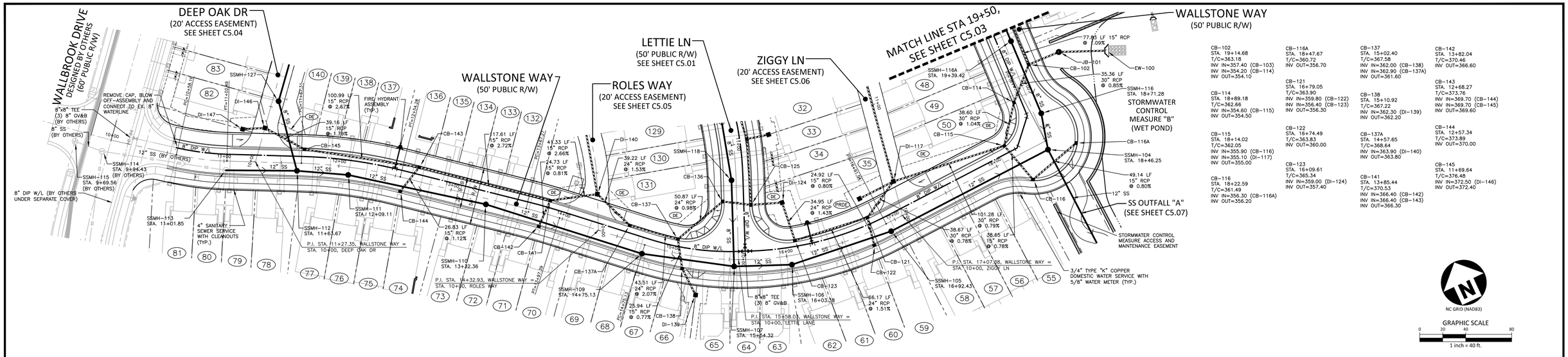
WALLBROOK
CONSTRUCTION DRAWINGS
ROLESVILLE, NORTH CAROLINA

PLAN INFORMATION

PROJECT NO.	CPR-19100
FILENAME	CPR19100-CD-P1
CHECKED BY	WTO
DRAWN BY	JMS
SCALE	1"=40'/1"=4'
DATE	05. 22. 2023

PLAN AND PROFILE
LETTIE LN, STA. 9+50 THRU STA. 22+50

C5.01



CB-102 STA. 19+14.68 T/C=363.18 INV IN=357.40 (CB-103) INV IN=354.20 (CB-114) INV OUT=354.10	CB-116A STA. 18+47.67 T/C=360.72 INV OUT=356.70	CB-137 STA. 15+02.40 T/C=367.58 INV IN=362.00 (CB-138) INV IN=362.90 (CB-137A) INV OUT=361.60	CB-142 STA. 13+82.04 T/C=370.46 INV OUT=366.60
CB-114 STA. 18+89.18 T/C=362.66 INV IN=354.60 (CB-115) INV OUT=354.50	CB-121 STA. 16+79.05 T/C=363.90 INV IN=359.80 (CB-122) INV IN=356.40 (CB-123) INV OUT=356.30	CB-138 STA. 15+10.92 T/C=367.22 INV IN=362.30 (DI-139) INV OUT=362.20	CB-143 STA. 12+68.27 T/C=373.76 INV IN=369.70 (CB-144) INV IN=369.70 (CB-145) INV OUT=369.60
CB-115 STA. 18+14.02 T/C=362.05 INV IN=355.90 (CB-116) INV IN=355.10 (DI-117) INV OUT=355.00	CB-122 STA. 16+74.49 T/C=363.83 INV OUT=360.00	CB-137A STA. 14+57.65 T/C=368.64 INV IN=363.90 (DI-140) INV OUT=363.80	CB-144 STA. 12+57.34 T/C=373.89 INV OUT=370.00
CB-116 STA. 18+22.59 T/C=361.49 INV IN=356.30 (CB-116A) INV OUT=356.20	CB-123 STA. 16+09.61 T/C=365.34 INV IN=359.00 (DI-124) INV OUT=357.40	CB-141 STA. 13+85.44 T/C=370.53 INV IN=366.40 (CB-142) INV IN=366.40 (CB-143) INV OUT=366.30	CB-145 STA. 11+69.64 T/C=376.48 INV IN=372.50 (DI-146) INV OUT=372.40

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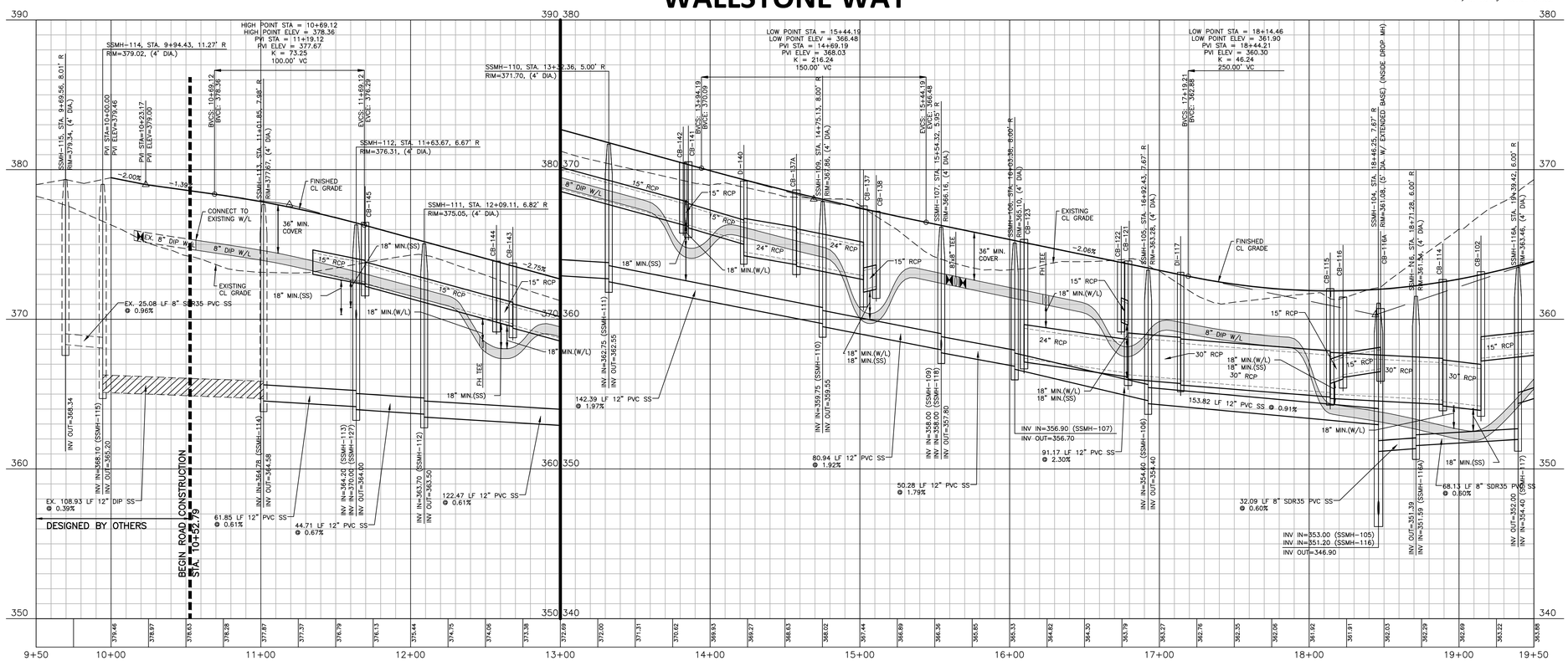
City of Raleigh Development Approval Timothy Beasley Timothy Beasley I am approving this document. 2024.11.13 14:39:02-05'00'
City of Raleigh Review Officer

WALLSTONE WAY



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www.mcadamsco.com

CLIENT

WALLBROOK LANDCO, LLC
3 KEEL STREET, SUITE 2
WRIGHTSVILLE BEACH, NORTH CAROLINA
28480-1709

REVISIONS

NO.	DATE	
1	09. 27. 2023	WALL CREEK DRIVE TIE-IN REVISIONS
3	04. 12. 2024	SHIFTING UTILITY SERVICES AND UPDATING POND GRADING
4	06. 06. 2024	SEWER MANHOLE REVISIONS
5	08. 30. 2024	UPDATED BUILDING FOOTPRINTS AND IMPERVIOUS AREA

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

W.T. O'Daniel Digitally signed by William T O'Daniel Date: 2024.08.30 15:46:10-04'00'

WALLBROOK
CONSTRUCTION DRAWINGS
ROLESVILLE, NORTH CAROLINA

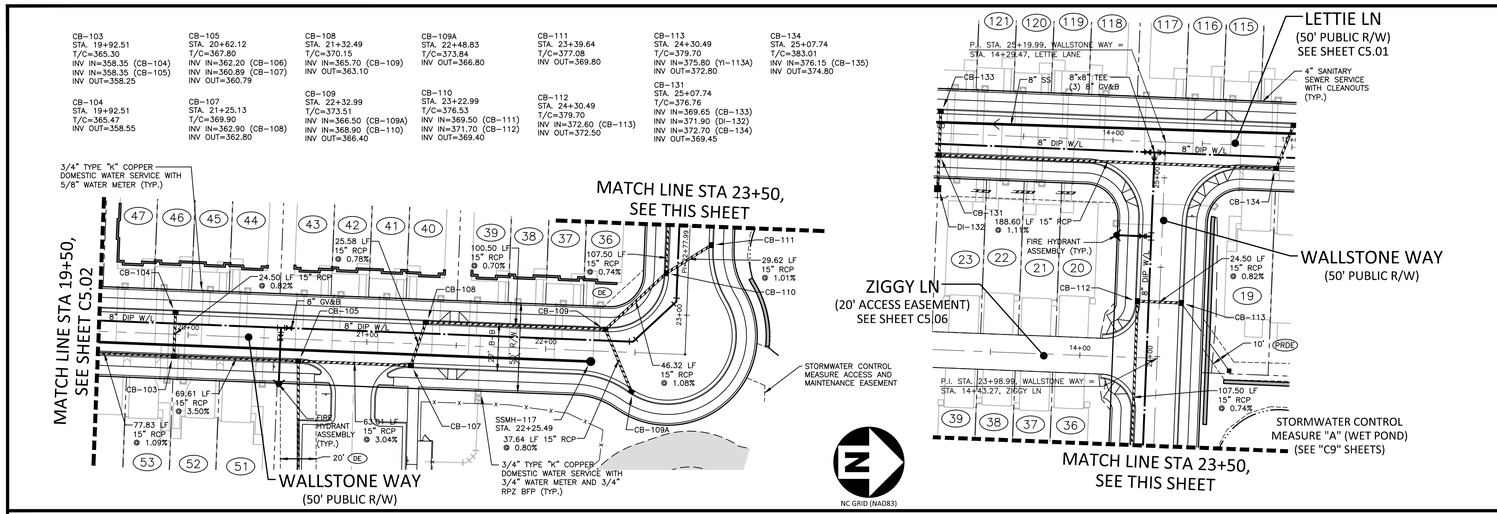
PLAN INFORMATION

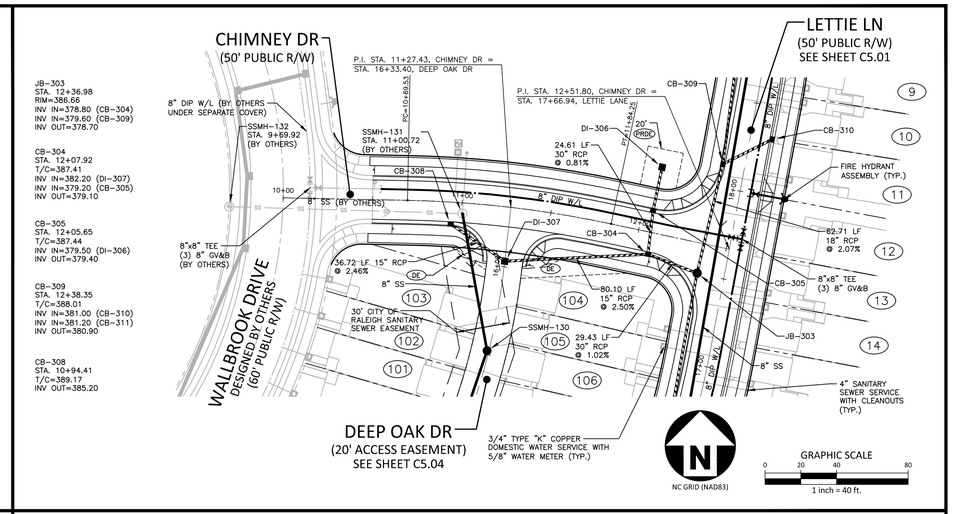
PROJECT NO.	CPR-19100
FILENAME	CPR19100-CD-P1
CHECKED BY	WTO
DRAWN BY	JMS
SCALE	1"=40'/1"=4'
DATE	05. 22. 2023

PLAN AND PROFILE
WALLSTONE WAY, STA. 9+50 THRU STA. 19+50

C5.02

X:\Projects\CPR\CPR-19100\04-Production\Engineering\Site Plan-Construction Drawings\Current Drawings\CPR19100-CD-P1.dwg, 8/30/2024 11:44:57 AM, Tommy Dabolt





CITY OF RALEIGH – PLANS AUTHORIZED FOR CONSTRUCTION

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City of Raleigh Development Approval Timothy Beasley — Timothy Beasley, I am approving this document, 2024.11.13 14:39:14-05'00'

City of Raleigh Review Officer

SITE PERMITTING APPROVAL

Water and Sewer Permits (If applicable)

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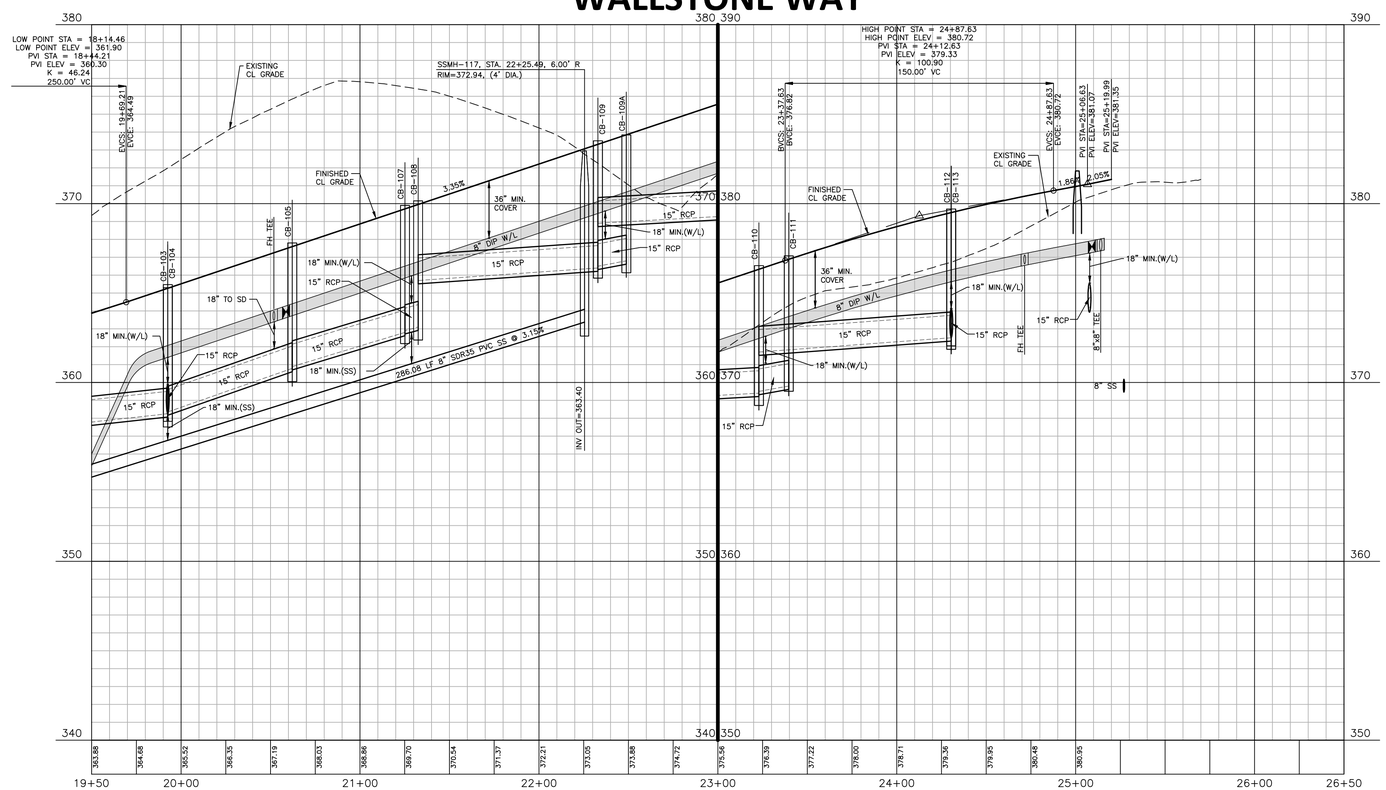
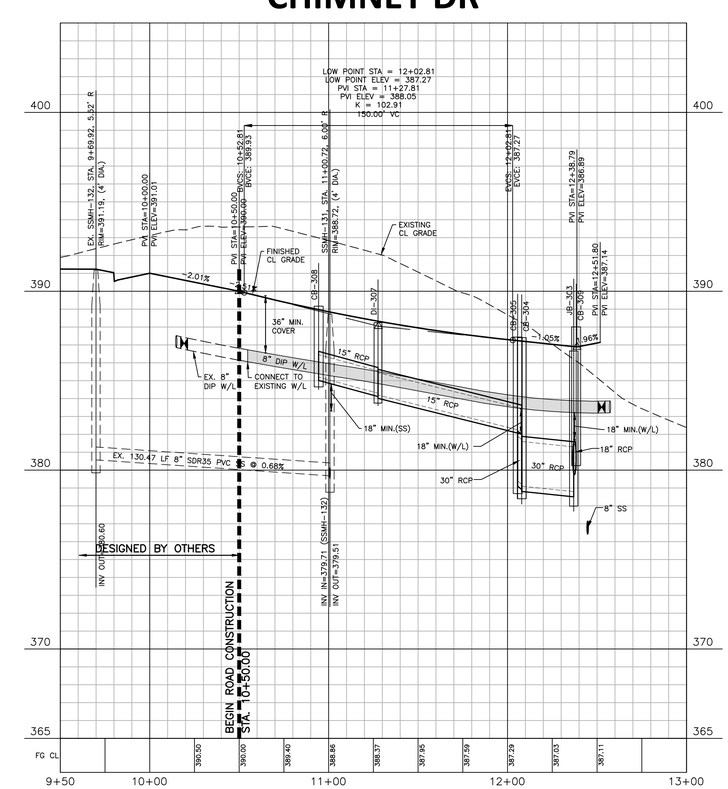
City of Raleigh Public Utilities Department Permit # _____

WALLSTONE WAY



CHIMNEY DR



FINAL DRAWING - RELEASED FOR CONSTRUCTION

The John R. McAdams Company, Inc.
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Raleigh, NC 27603

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NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T O'Daniel
Date: 2024.08.30 15:46:11-04'00'

WALLBROOK
CONSTRUCTION DRAWINGS
ROLESVILLE, NORTH CAROLINA

PLAN INFORMATION

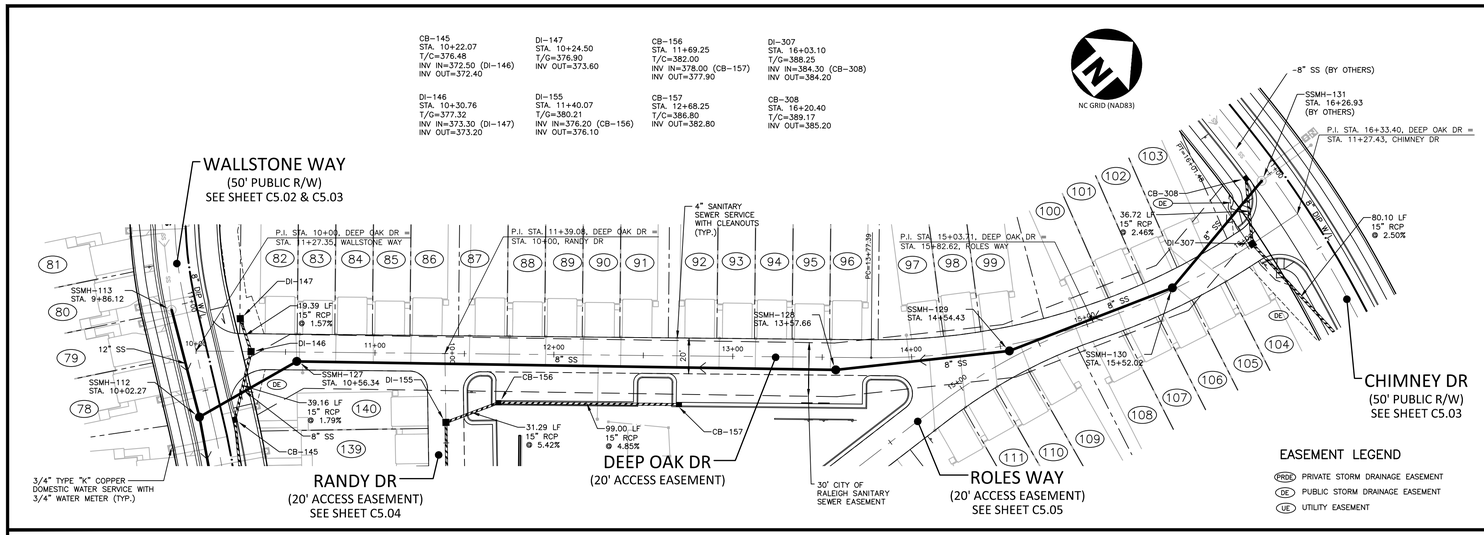
PROJECT NO.	CPR-19100
FILENAME	CPR19100-CD-P1
CHECKED BY	WTO
DRAWN BY	JMS
SCALE	1"=40'/1"=4'
DATE	05. 22. 2023

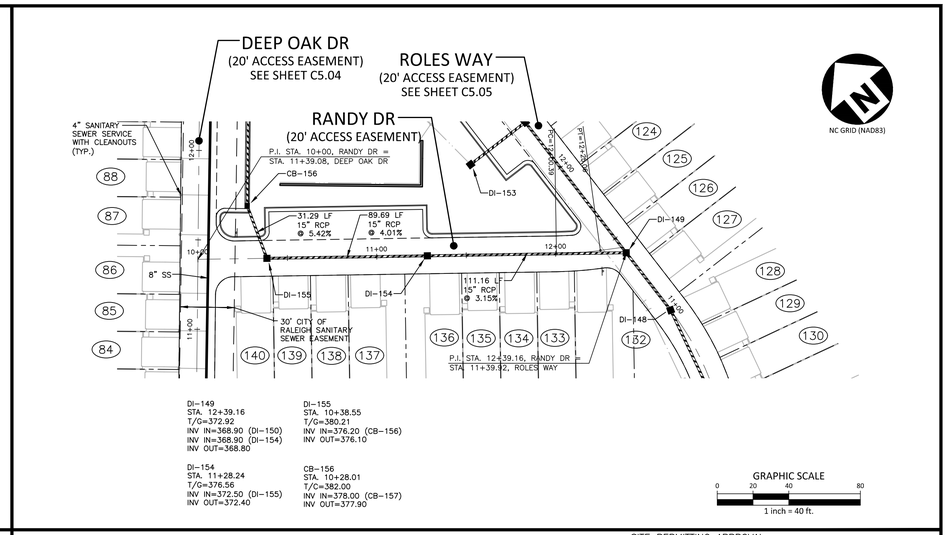
PLAN AND PROFILE

WALLSTONE WAY, STA. 19+50 THRU STA. 26+50
CHIMNEY DR, STA. 9+50 THRU STA. 13+00

C5.03

X:\Projects\CPR\CPR-19100\04-Production\Engineering\Site Plan-Construction Drawings\Current Drawings\CPR19100-CD-P1.dwg, 8/29/2024 11:57:09 AM, Tommy Dabolt





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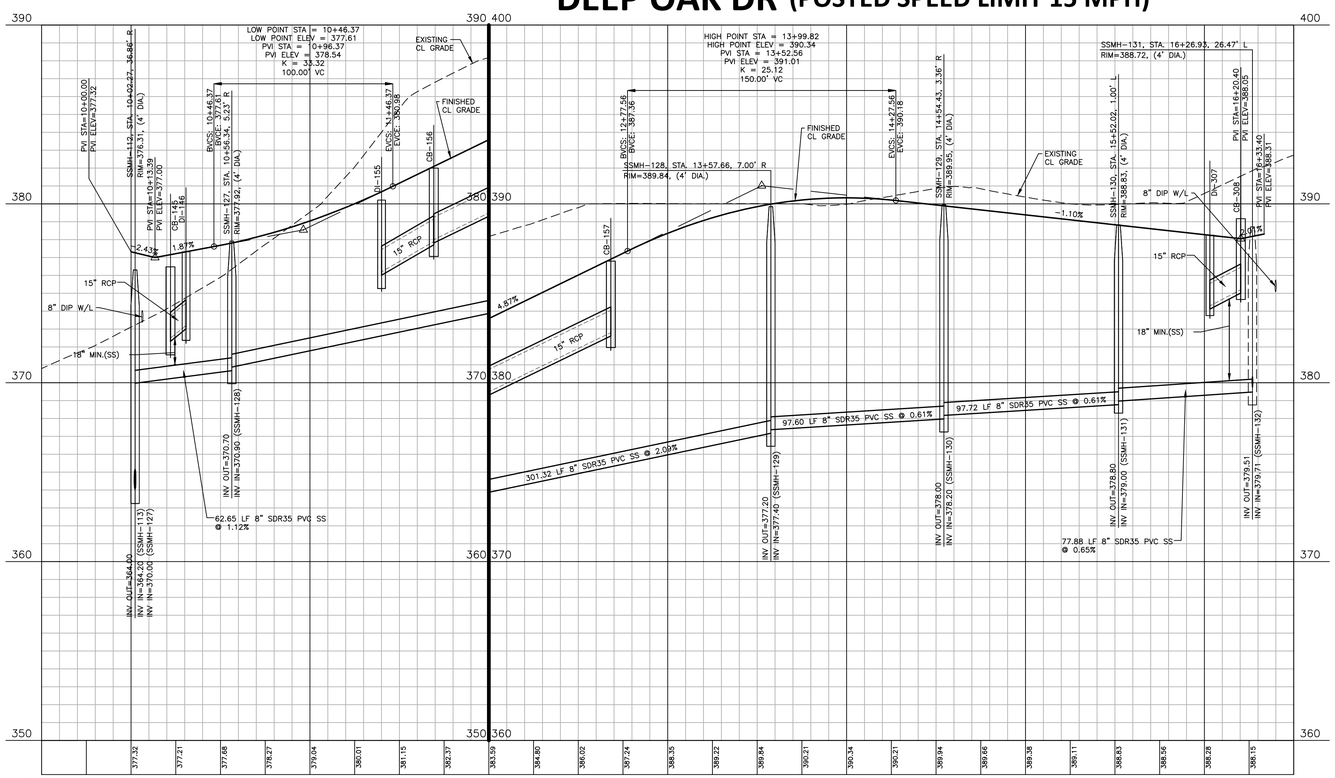
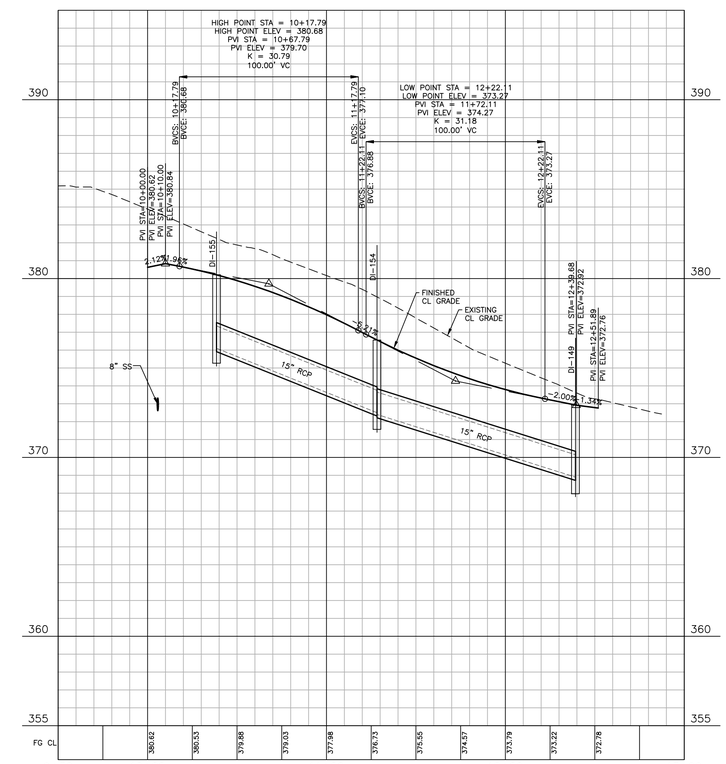
City of Raleigh Public Utilities Department Permit # _____

DEEP OAK DR (POSTED SPEED LIMIT 15 MPH)



RANDY DR (POSTED SPEED LIMIT 15 MPH)



FINAL DRAWING - RELEASED FOR CONSTRUCTION

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28480-1709

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NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T O'Daniel
Date: 2024.08.30 15:46:12-04'00'

WALLBROOK
CONSTRUCTION DRAWINGS
ROLESVILLE, NORTH CAROLINA

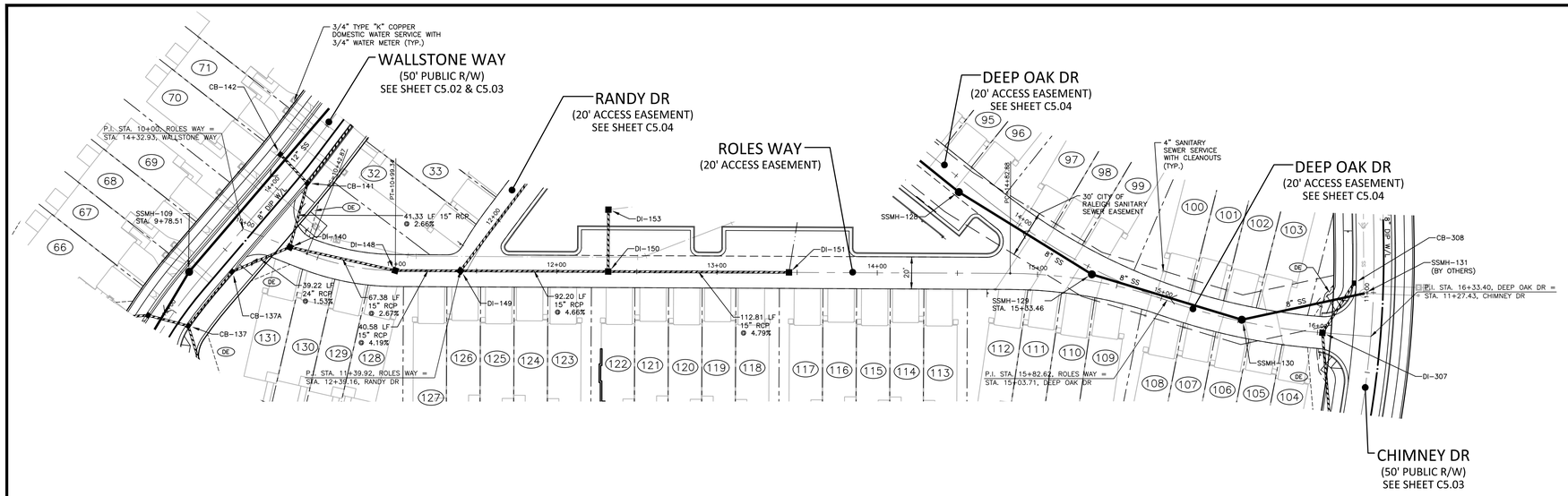
PLAN INFORMATION

PROJECT NO.	CPR-19100
FILENAME	CPR19100-CD-P2
CHECKED BY	WTO
DRAWN BY	JMS
SCALE	1"=40'/1"=4'
DATE	05. 22. 2023

PLAN AND PROFILE

DEEP OAK DR, STA. 9+50 THRU STA. 16+50
RANDY DR, STA. 9+50 THRU STA. 13+00

C5.04



CB-137A
STA. 10+03.40
T/G=368.64
INV IN=363.90 (DI-140)
INV OUT=363.80

DI-140
STA. 10+31.49
T/G=369.24
INV IN=365.20 (CB-141)
INV IN=365.20 (DI-148)
INV OUT=364.50

CB-141
STA. 10+27.20
T/G=370.53
INV IN=366.40 (CB-142)
INV IN=366.40 (CB-143)
INV OUT=366.30

DI-148
STA. 10+99.34
T/G=371.13
INV IN=367.10 (DI-149)
INV OUT=367.00

DI-149
STA. 11+39.92
T/G=372.92
INV IN=368.90 (DI-150)
INV IN=368.90 (DI-154)
INV OUT=368.80

DI-150
STA. 12+32.12
T/G=377.35
INV IN=373.40 (DI-151)
INV IN=373.30 (DI-153)
INV OUT=373.20

DI-151
STA. 13+44.93
T/G=382.78
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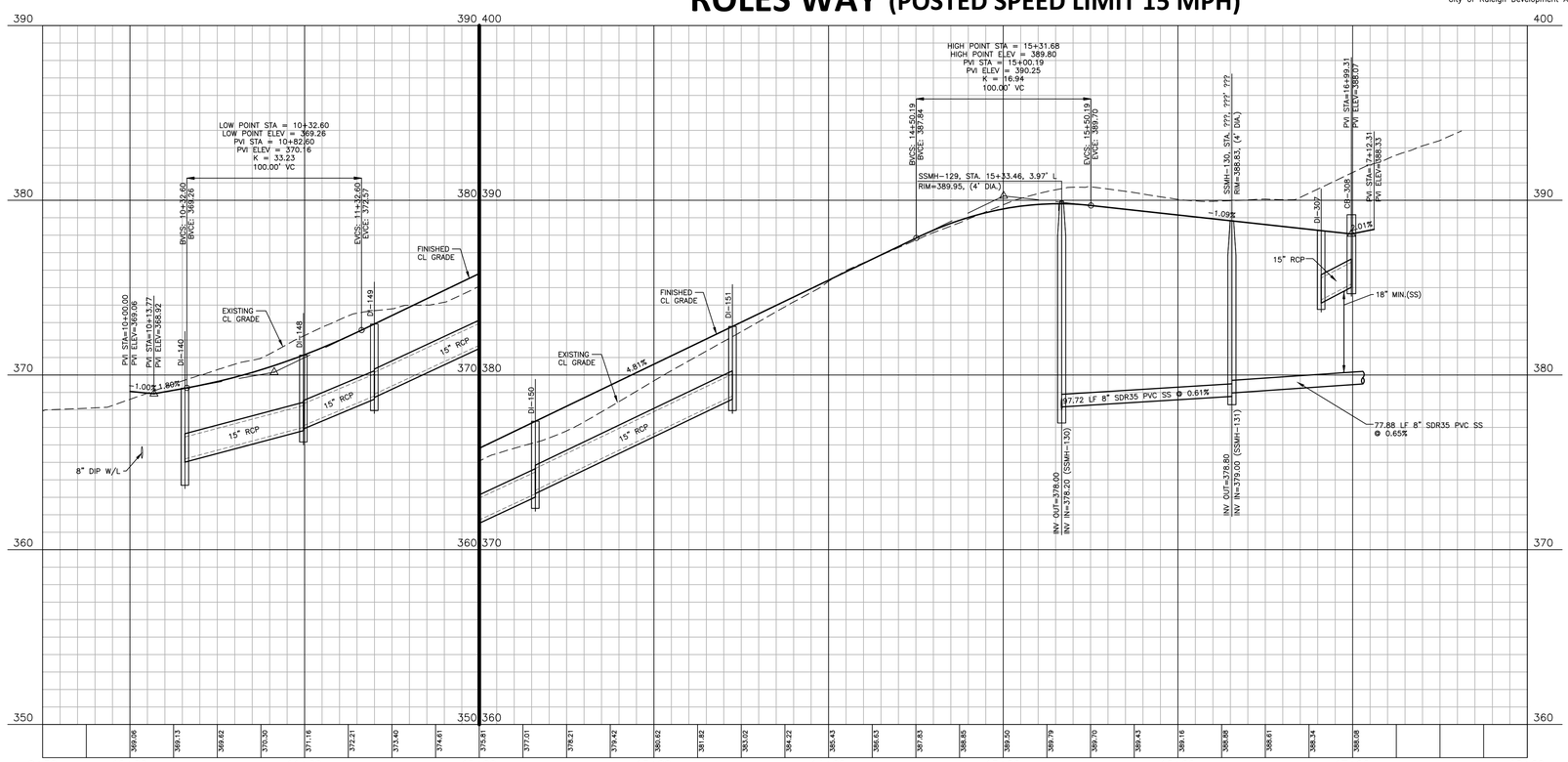
INV OUT=378.80

ROLES WAY (POSTED SPEED LIMIT 15 MPH)



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City of Raleigh Public Utilities Department Permit # _____

X:\Projects\CPR\CPR-19100\04-Production\Engineering\Site Plan-Construction Drawings\Current Drawings\CPR19100-CD-P2.dwg, 8/30/2024 11:47:10 AM, Tommy Dabolt

FINAL DRAWING - RELEASED FOR CONSTRUCTION

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NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

W.T. O'Daniel Digitally signed by William T O'Daniel Date: 2024.08.30 15:46:14-04'00'

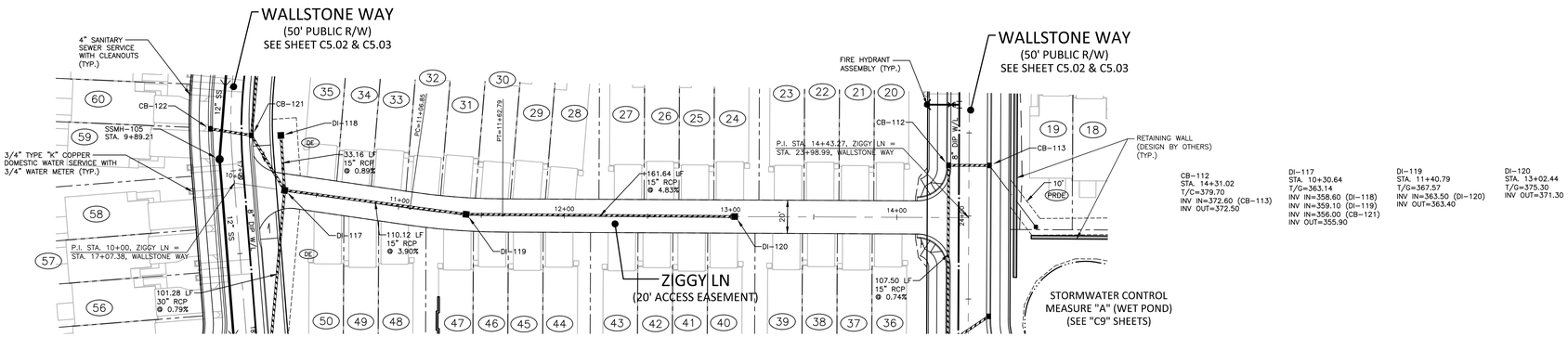
WALLBROOK
CONSTRUCTION DRAWINGS
ROLESVILLE, NORTH CAROLINA

PLAN INFORMATION

PROJECT NO.	CPR-19100
FILENAME	CPR19100-CD-P2
CHECKED BY	WTO
DRAWN BY	JMS
SCALE	1"=40'/1"=4'
DATE	05. 22. 2023

PLAN AND PROFILE
ROLES WAY, STA. 9+50 THRU STA. 16+50

C5.05



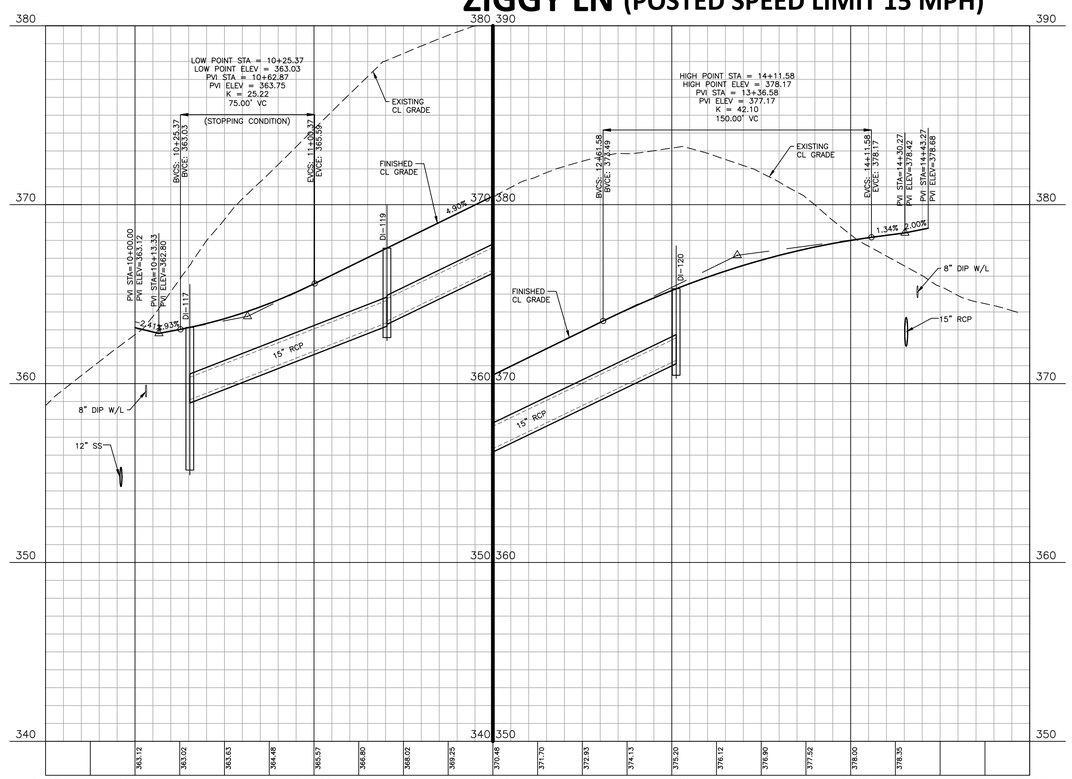
CB-112
STA. 14+31.02
T/C=379.70
INV IN=372.60 (CB-113)
INV OUT=372.50

DI-117
STA. 10+30.64
T/G=363.14
INV IN=358.60 (DI-118)
INV IN=359.10 (DI-119)
INV IN=356.00 (CB-121)
INV OUT=355.90

DI-119
STA. 11+40.79
T/G=367.57
INV IN=363.50 (DI-120)
INV OUT=363.40

DI-120
STA. 13+02.44
T/G=375.30
INV OUT=371.30

ZIGGY LN (POSTED SPEED LIMIT 15 MPH)



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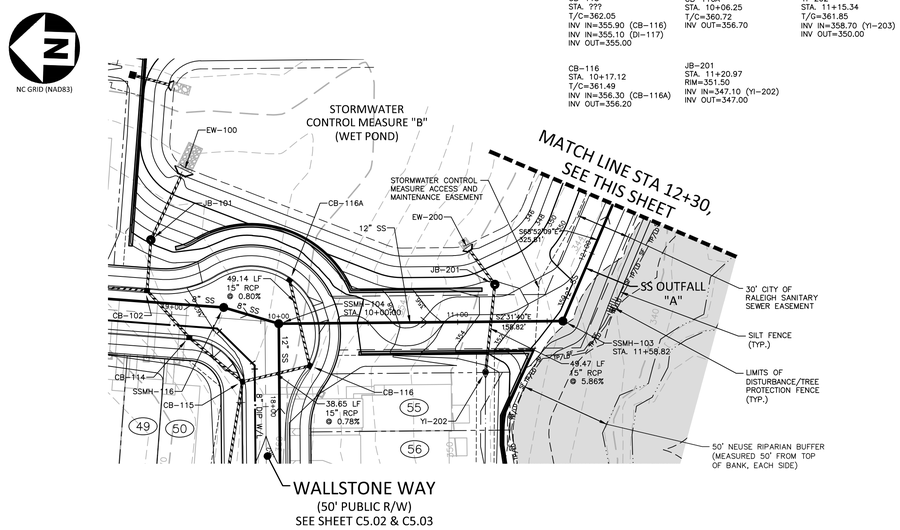
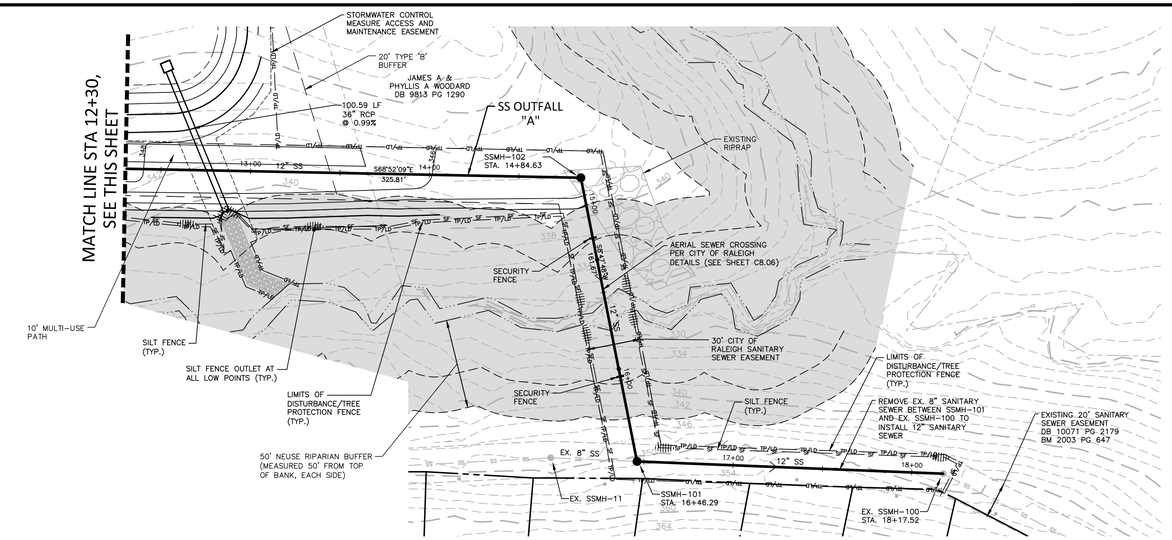
PLAN AND PROFILE
ZIGGY LN, STA. 9+50 THRU STA. 15+00

C5.06





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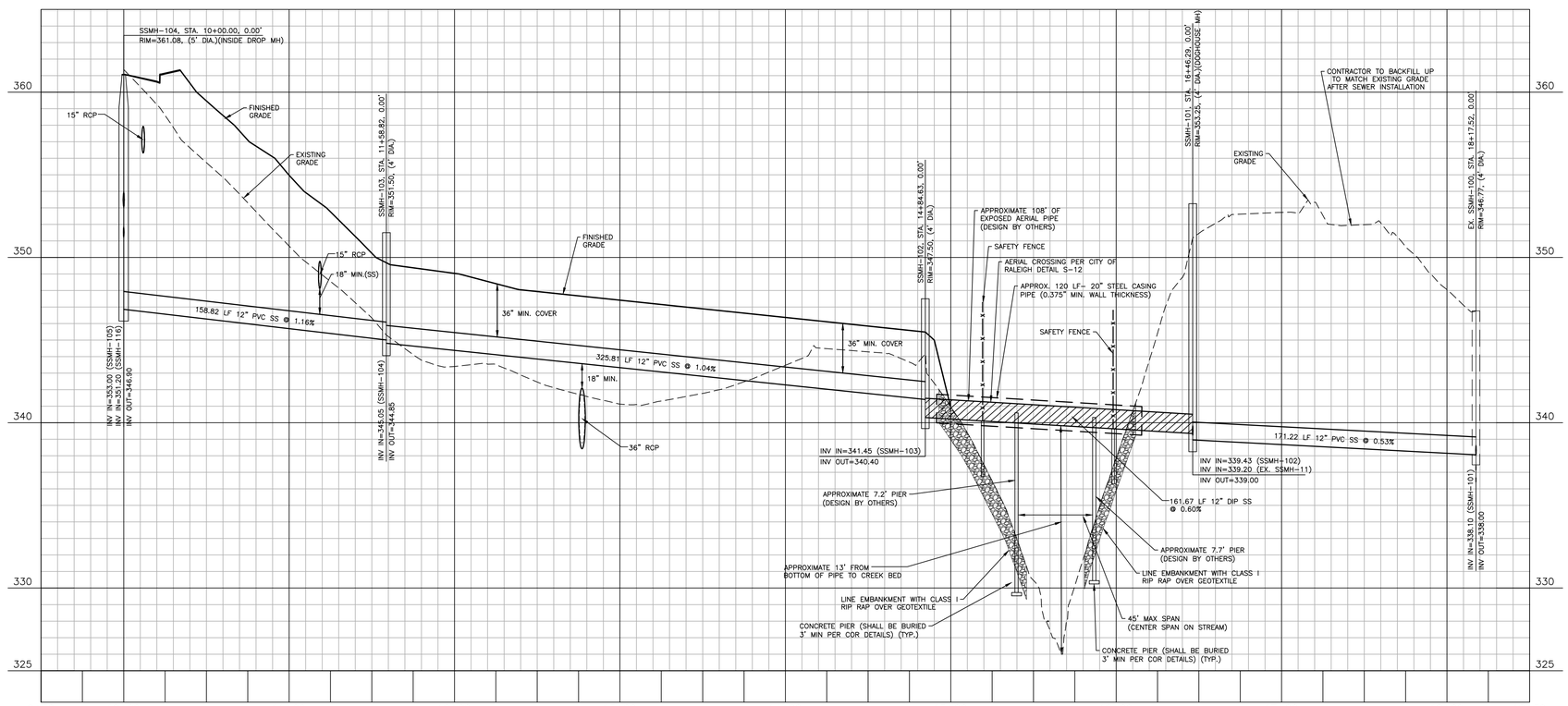
SS OUTFALL A



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SS OUTFALL "A", STA. 9+50 THRU STA. 18+50

C5.07

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EROSION CONTROL NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST TOWN OF ROLESVILLE, WAKE COUNTY, AND NCDOT STANDARDS, SPECIFICATIONS AND DETAILS.
2. GRADING AND EROSION CONTROL METHODS SHALL ADHERE TO THE WAKE COUNTY SOIL AND EROSION CONTROL STANDARDS AND SPECIFICATIONS.
3. 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.
4. FAILURE TO FOLLOW THE APPROVED PLAN SEQUENCE AND DETAILS COULD SUBJECT THE CONTRACTOR TO FINES AND PENALTIES ISSUED BY EITHER THE WAKE COUNTY EROSION CONTROL DEPARTMENT OR THE DWQ.
5. 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 ESPECIALLY WHEN SPECIFICALLY REQUIRED AS PART OF THE CONSTRUCTION SEQUENCE ON THE PLAN.
6. 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.
7. THE EROSION CONTROL INSPECTOR MAY REQUIRE ADDITIONAL FIELD MEASURES AS NECESSARY TO PROVIDE ADEQUATE PROTECTION FROM RECEIVING WATER COURSES.
8. EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON SITE. THE CONTRACTOR SHALL CALL FOR AN INSPECTION BY WAKE COUNTY SEDIMENTATION AND EROSION CONTROL (SEC) ONCE INITIAL MEASURES ARE IN PLACE. (SEE CONSTRUCTION SEQUENCES)
9. CONTRACTOR SHALL INSPECT AND REPAIR ALL SEDIMENT/EROSION CONTROL DEVICES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL EVENT. GRADING ACTIVITY SHALL BE PROHIBITED IN THE AREAS OF THE SEDIMENT CONTROL DEVICES/SEDIMENT TRAPS UNTIL THE AREAS UPSTREAM OF THESE DEVICES HAVE BEEN STABILIZED AND APPROVED. ALL SKIMMER BASINS SHALL BE DE-SILTED AFTER THE END OF EVERY MAJOR RAIN EVENT.
10. A COPY OF THE APPROVED EROSION CONTROL PLAN MUST BE ON FILE AT THE JOB SITE AT ALL TIMES.
11. CONSTRUCTION, MAINTENANCE, AND REMOVAL OF ALL EROSION CONTROL DEVICES ARE THE RESPONSIBILITY OF THE GRADING CONTRACTOR UNLESS OTHERWISE NOTED.
12. ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE TOWN/COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
13. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE TOWN/COUNTY ENGINEERING DEPARTMENT AND ARE THE RESPONSIBILITY OF THE CONTRACTOR.
14. 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.
15. CONSTRUCTION SEQUENCES 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.
16. 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.
17. CONTRACTOR WILL FIELD LOCATE SILT FENCE OUTLETS AT LOW POINTS IN SILT FENCE AS REQUIRED TO PROVIDE RELIEF FROM CONCENTRATED FLOWS.
18. TEMPORARY DIVERSIONS SHALL BE MAINTAINED DAILY BY CONTRACTOR SO THAT THEY ARE FUNCTIONAL AT THE END OF EACH WORKDAY AND WHEN STOPPING WORK FOR RAIN.
19. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL 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 GIVEN.
20. DISTURBANCE OUTSIDE OF THE SITE PROPERTY LIMITS OR PUBLIC RIGHT-OF-WAY SHALL ONLY BE AS ALLOWED BY SIGNED GRADING AGREEMENTS AND/OR EASEMENTS BETWEEN THE DEVELOPER AND THE OFFSITE PROPERTY OWNER.
21. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN SAFE OPEN ACCESS TO ALL PROPERTIES ALONG ADJACENT PROPERTIES DURING CONSTRUCTION PERIOD FOR IMPROVEMENTS.
22. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS FINAL RULE 29CFR PART 1926 , SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH. EXCAVATION EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRES THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER, PROVIDED BY THE CONTRACTOR RESPONSIBLE FOR EXCAVATION.
23. EQUIPMENT AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED PROVIDED APPROVAL HAS BEEN OBTAINED FROM THE OWNER IN WRITING PRIOR TO ORDERING OR INSTALLATION. THE CONTRACTOR SHALL WAIVE ANY CLAIM FOR ADDITIONAL COST RELATED TO THE SUBSTITUTION OF ALTERNATIVE EQUIPMENT.
24. EXISTING IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED/RESTORED TO THEIR ORIGINAL CONDITION OR TO THE SATISFACTION OF THE OWNER BY THE CONTRACTOR RESPONSIBLE FOR THE DAMAGE.
25. SOIL UNDER BUILDINGS AND PAVED AREAS SHALL BE COMPACTED TO STANDARD PROCTOR 98% MAXIMUM DRY DENSITY OR AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
26. THE CONTRACTOR SHALL NOTE THAT THE DRAWINGS MAY NOT SHOW EVERY OFFSET, TRANSITION, FITTING, ETC THAT MAY BE REQUIRED. THE CONTRACTOR SHALL INSTALL SUCH STANDARD APPURTENANCES AS REQUIRED TO CLOSELY FOLLOW THE GRADES AND ALIGNMENTS DEPICTED ON THE PLANS.
27. CONTRACTOR SHALL NOTIFY NC 811 AT 811 OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR TO CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF NC 811. REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
28. CONTRACTOR IS RESPONSIBLE FOR COORDINATING CONSTRUCTION ACTIVITIES WITH THE APPROPRIATE UTILITY COMPANIES FOR ANY REQUIRED RELOCATION (I.E., POWER POLES, TELEPHONE PEDESTALS, WATER METERS, ETC.).
29. EXISTING UTILITIES SHOWN ARE BASED ON FIELD SURVEYS AND THE BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY CONDITIONS PRIOR TO BEGINNING CONSTRUCTION. ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE PLANS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
30. PRIOR TO STARTING CONSTRUCTION, THE GENERAL CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION CONFERENCE WITH THE GRADING CONTRACTOR, ENGINEER, CONSTRUCTION INSPECTOR & OWNER.

EROSION CONTROL MAINTENANCE PLAN

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED BY THE SITE CONTRACTOR FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN ALL MEASURES AS DESIGNED.
2. THE SEDIMENT BASINS SHALL BE INSPECTED REGULARLY DURING LAND DISTURBING ACTIVITIES AND AFTER EACH RUNOFF-PRODUCING RAINFALL. SEDIMENT SHALL BE REMOVED AND THE BASIN RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF EACH BASIN. PORTIONS OF THE BASIN'S GRAVEL FACING THAT ARE CONTAMINATED BY SEDIMENT SHALL BE REPLACED WITH FRESH GRAVEL DURING EACH SEDIMENT REMOVAL EPISODE.
3. SEDIMENT FENCES SHALL BE INSPECTED AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. REPAIRS SHALL BE MADE IMMEDIATELY. SEDIMENT DEPOSITS SHALL BE REMOVED AS NEEDED TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAINFALL EVENT, AND TO REDUCE PRESSURE ON THE FENCE. FENCING MATERIALS AND SEDIMENT DEPOSITS SHALL BE REMOVED, AND THE AREA BROUGHT TO GRADE FOLLOWING STABILIZATION OF UPGRADE DISTURBED AREAS.
4. DIVERSION DITCHES MUST REMAIN IN PLACE UNTIL THE AREA CONVEYED BY THE DIVERSION DITCH IS STABILIZED. PERMISSION FOR REMOVAL SHALL BE GIVEN B THE EROSION CONTROL INSPECTOR.

STAGE 1 SPECIFIC CONSTRUCTION SEQUENCE

1. OBTAIN A LAND DISTURBING PERMIT FROM WAKE COUNTY AND SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH A WAKE COUNTY ENVIRONMENTAL CONSULTANT (JEEVAN NEUPANE AT 919-819-8907).
2. INSTALL TREE PROTECTION FENCING AND TEMPORARY CONSTRUCTION ENTRANCES ACCORDING TO THE EROSION CONTROL PLAN.
3. INSTALL TEMPORARY STREAM CHANNEL CROSSING WITH TIMBER MAT OR LOG MAT BOARDS BUTTED TOGETHER ON BOTH CROSSINGS. INSTALL SIDE BOARDS TO PREVENT SEDIMENT OVER EDGES AND UNDERLAY BOARDS WITH GEOTEXTILE MATTING TO PREVENT SEDIMENT FROM DRAINING BETWEEN LOG BOARDS.
4. DURING EXTENDED DRY WEATHER CONDITIONS, CONSTRUCT CREEK DIVERSION CHANNELS FOR THE PERMANENT STREAM CROSSING.
   - 4.1. EXCAVATE THE DIVERSION CHANNEL WITHOUT DISTURBING THE EXISTING CHANNEL.
   - 4.2. PLACE IMPERVIOUS MAT LINER IN DIVERSION CHANNEL.
   - 4.3. CONNECT THE DOWNSTREAM DIVERSION CHANNEL INTO THE DOWNSTREAM EXISTING CHANNEL AND SECURE THE IMPERVIOUS MAT LINER AT THE CONNECTION. INSTALL VELOCITY DISSIPATOR OVER THE IMPERVIOUS MATTING.
   - 4.4. CONNECT THE UPSTREAM DIVERSION CHANNEL INTO THE UPSTREAM EXISTING CHANNEL AND SECURE THE IMPERVIOUS MAT LINER AT THE CONNECTION.
   - 4.5. CONSTRUCT A COFFER DAM IN THE EXISTING CHANNEL AT THE UPSTREAM SIDE TO DIVERT FLOW INTO THE DIVERSION CHANNEL.
   - 4.6. CONSTRUCT A COFFER DAM IN THE EXISTING CHANNEL AT THE DOWNSTREAM SIDE TO ISOLATE THE WORK AREA.
   - 4.7. INSTALL PUMP AND SILT BAG TO DE-WATER WORK AREA PRIOR TO INSTALLATION OF PERMANENT CULVERT PIPE AND HEADWALLS AS SHOWN ON SHEET C6.02.
5. INSTALL SEDIMENT BASINS AND RUNOFF CONVEYANCE ON ALL FOUR CORNERS OF THE CROSSING.
6. INSTALL SILT FENCING, AND SILT FENCE OUTLETS AS SHOWN ON APPROVED STAGE 1 EROSION CONTROL PLANS. GRADE ONLY AS NECESSARY TO INSTALL THESE DEVICES. INSTALL SILT FENCE OUTLETS AT LOW POINTS IN THE SILT FENCING AS NEEDED TO PREVENT BLOWOUTS. INSTALL SILT FENCE ALONG STREAM BANKS AT THE END OF THE WORK DAY TO MINIMIZE IMPACTS.
7. INSTALL DIVERSION DITCHES AND SKIMMER BASINS AS SHOWN ON APPROVED STAGE 1 EROSION CONTROL PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES.
8. STABILIZE ALL DISTURBED AREAS, INCLUDING DIVERSION DITCHES AND SKIMMER BASINS, IMMEDIATELY UPON INSTALLATION. SEE DETAIL ON SEEDING SCHEDULE. TEMPORARILY SEED AND MULCH ANY DISTURBED AREAS IN A TIMEFRAME COMPLIANT WITH NPDES STABILIZATION GUIDELINES.
9. SEDIMENT BASINS "SB-A" AND "SB-B" ARE UTILIZING THE PROPOSED STORMWATER PONDS AS TEMPORARY RISER BASINS. THE PERMANENT OPENINGS IN THE RISERS MUST BE PLUGGED DURING THE EROSION CONTROL STAGES. SEE THE CONSTRUCTION DETAILS ON THE "SW" SHEETS FOR INFORMATION TO INSTALL BERM AND SLOPES FOR THE SKIMMER SEDIMENT BASINS. SEDIMENT BASINS "SB-A" AND "SB-B" MUST INCLUDE STORM DRAINAGE OUTFALLS AND VELOCITY DISSIPATORS AS SHOWN ON THE "C9.A1-C9.A4" AND "C9.B1-C9.B4" SHEETS AS THEY ARE INSTALLED.
10. MAINTAIN EROSION CONTROL DEVICES WEEKLY, AND FOLLOWING EVERY RAIN EVENT. MONITOR EROSION CONTROL USING THE STANDARD NPDES REPORT AFTER EVERY RAIN FALL. REPORTS SHALL BE STORED ON SITE IN THE EVENT THE DEPARTMENT OF WATER QUALITY PERFORMS AN ON-SITE INSPECTION.
11. STABILIZE GRADED AREAS AS THEY ARE CLEARED, PER THE NPDES GROUND STABILIZATION TIMELINE. ONCE FINAL GRADE HAS BEEN ACHIEVED, PAVE OR PERMANENTLY SEED ALL AREAS AND SLOPES PER NC DEQ'S EROSION SEDIMENT CONTROL PLANNING AND DESIGN MANUAL CURRENT VERSION, SECTION 6.10 AND 6.11.
12. CALL THE WAKE COUNTY ENVIRONMENTAL CONSULTANT (JEEVAN NEUPANE AT 919-819-8907) FOR AN ON-SITE INSPECTION AND OBTAIN A CERTIFICATE OF COMPLIANCE. ONCE APPROVED, CONTINUE TO THE STAGE 2 SPECIFIC CONSTRUCTION SEQUENCE.

STAGE 2 SPECIFIC CONSTRUCTION SEQUENCE

1. CLEAR AND GRUB REMAINDER OF SITE AND BEGIN EARTHWORK ACTIVITY FOLLOWING STAGE 2 EROSION CONTROL PLANS.
2. AS THE SITE IS BROUGHT UP TO GRADE, THE CONTRACTOR SHALL RAISE AND/OR RELOCATE ALL DIVERSION DITCHES TO MAINTAIN A POSITIVE SEDIMENT LADEN FLOW TO ALL SEDIMENT BASINS. SIMILARLY, SEDIMENT BASIN EMBANKMENTS SHALL BE RAISED WITH GRADING ACTIVITIES IF/AND WHEN NECESSARY.
3. INSTALL STORM COLLECTION SYSTEM WITH INLET PROTECTION ON ALL STRUCTURES ACCEPTING FLOW, BEGINNING WITH MAIN TRUNK LINES THAT CONVEY RUNOFF TO THE SEDIMENT BASINS.
4. INSTALL APPROVED INLET PROTECTION AS INLETS ARE INSTALLED. TEMPORARY EROSION CONTROL MEASURES ARE TO REMAIN UNTIL SUCH MEASURES HAVE BEEN APPROVED FOR REMOVAL BY THE ENVIRONMENTAL CONSULTANT (JEEVAN NEUPANE AT 919-819-8907) AND EROSION CONTROL INSPECTOR. ADDITIONAL MEASURES MAY BE REQUIRED BY THE INSPECTOR DEPENDING ON FIELD CONDITIONS.
5. MAINTAIN EROSION CONTROL MEASURES WEEKLY AND AFTER EACH RAIN EVENT THROUGHOUT CONSTRUCTION. MONITOR EROSION CONTROL USING THE STANDARD NPDES REPORT AFTER EVERY RAIN FALL. REPORTS SHALL BE STORED ON SITE IN THE EVENT THE DEPARTMENT OF WATER QUALITY PERFORMS AN ON-SITE INSPECTION.
6. STABILIZE GRADED AREAS AS THEY ARE CLEARED, PER THE NPDES GROUND STABILIZATION TIMELINE. ONCE FINAL GRADE HAS BEEN ACHIEVED, PAVE OR PERMANENTLY SEED ALL AREAS AND SLOPES PER NC DEQ'S EROSION SEDIMENT CONTROL PLANNING AND DESIGN MANUAL CURRENT VERSION, SECTION 6.10 AND 6.11.
7. CALL THE WAKE COUNTY ENVIRONMENTAL CONSULTANT (JEEVAN NEUPANE AT 919-819-8907) FOR AN ON-SITE INSPECTION AND OBTAIN A CERTIFICATE OF COMPLIANCE. ONCE APPROVED, CONTINUE TO THE STAGE 3 SPECIFIC CONSTRUCTION SEQUENCE.

NPDES Stormwater Discharge Permit for Construction Activities (NCGO1) NCDENR/Division of Energy, Mineral and Land Resources

STABILIZATION TIMEFRAMES
(Effective Aug. 3, 2011)

SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
Perimeter dikes, swales, ditches, slopes	7 days	None
High Quality Water (HQW) Zones	7 days	None
Slopes steeper than 3:1	7 days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed.
Slopes 3:1 or flatter	14 days	7 days for slopes greater than 50' in length.
All other areas with slopes flatter than 4:1	14 days	None, except for perimeters and HQW Zones.

STAGE 3 SPECIFIC CONSTRUCTION SEQUENCE

1. CONTINUE EARTHWORK ACTIVITY AND MAINTAIN INLET PROTECTION ON ALL STRUCTURE ACCEPTING FLOW, AS SITE IS BROUGHT UP TO FINAL GRADE.
2. TEMPORARY EROSION CONTROL MEASURES ARE TO REMAIN UNTIL SUCH MEASURES HAVE BEEN APPROVED FOR REMOVAL BY THE ENVIRONMENTAL CONSULTANT (JEEVAN NEUPANE AT 919-819-8907) AND EROSION CONTROL INSPECTOR. ADDITIONAL MEASURES MAY BE REQUIRED BY THE INSPECTOR DEPENDING ON FIELD CONDITIONS.
3. MAINTAIN EROSION CONTROL MEASURES WEEKLY AND AFTER EACH RAIN EVENT THROUGHOUT CONSTRUCTION. MONITOR EROSION CONTROL USING THE STANDARD NPDES REPORT AFTER EVERY RAIN FALL. REPORTS SHALL BE STORED ON SITE IN THE EVENT THE DEPARTMENT OF WATER QUALITY PERFORMS AN ON-SITE INSPECTION.
4. STABILIZE GRADED AREAS AS THEY ARE BROUGHT TO FINAL GRADE, PER THE NPDES GROUND STABILIZATION TIMELINE. ONCE FINAL GRADE HAS BEEN ACHIEVED, PERMANENTLY SEED ALL AREAS AND SLOPES PER NCDENR'S EROSION SEDIMENT CONTROL PLANNING AND DESIGN MANUAL VERSION 5/13, CHAPTER 6.ii.6.10 AND 6.ii.6.11. SEE THIS SHEETS FOR SEEDING SPECIFICATIONS.
5. UPON APPROVAL OF PERMANENT STABILIZATION, REMOVE BALANCE OF EROSION CONTROL MEASURES, AND CONVERT SB-A AND SB-B TO PERMANENT STORMWATER MANAGEMENT FACILITIES. REFER TO "C9.A1 - C9.A4 AND C9.B1 - C9.B4" SHEETS FOR DETAILS.

STOCKPILING NOTES

THE TEMPORARY STOCKPILING OF MATERIALS IS PERMITTED SUBJECT TO THE FOLLOWING STANDARDS:

1. THE STOCKPILED MATERIAL SHALL NOT EXCEED 25 FEET IN HEIGHT ABOVE THE ORIGINAL NATURAL GRADE.
2. THE FOOTPRINT OF THE STOCKPILING AREA SHALL BE LOCATED AT LEAST 25 FEET FROM ADJOINING PROPERTY LINES.
3. THE SIDE SLOPE OF THE STOCKPILED MATERIALS SHALL NOT EXCEED A 3:1 RATIO.
4. STOCKPILED MATERIALS SHALL BE LIMITED TO DIRT, FILL, AND/OR GRAVEL.
5. STOCKPILED MATERIALS SHALL BE SEEDED OR COVERED WITH TARPS OR MULCH. TARPS SHALL BE KEYED IN AT THE TOP OF THE SLOPE TO KEEP WATER FROM RUNNING UNDERNEATH THE PLASTIC.
6. ANY CONCENTRATED FLOW LIKELY TO AFFECT THE STOCKPILE SHALL BE DIVERTED TO AN APPROVED BMP.
7. 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.
8. THE APPROVED PLAN SHALL PROVIDE FOR THE USE OF STAGED SEEDING AND MULCHING ON A CONTINUAL BASIS WHILE THE STOCKPILE IS IN USE.
9. ESTABLISH AND MAINTAIN A VEGETATIVE BUFFER AT THE TOE OF THE SLOPE (WHERE PRACTICAL)

REQUIRED WAKE COUNTY BASIN REMOVAL SEQUENCE

WAKE COUNTY OR JURISDICTIONAL MUNICIPALITY MUST GRANT PERMISSION TO CONVERT SEDIMENT BASINS OVER TO STORMWATER USE PRIOR TO COMPLETING ANY RELATED WORK.

1. 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.
2. REMOVE BASIN(S) AND ASSOCIATED TEMPORARY DIVERSION DITCHES. IF CULVERT PIPES NEED TO BE EXTENDED, PERFORM THIS OPERATION AT THIS TIME. FINE GRADE AREA IN PREPARATION FOR SEEDING.
3. PERFORM SEEDBED PREPARATION, SEED, MULCH AND ASPHALT TACK ANY RESULTING BARE AREAS IMMEDIATELY.
4. INSTALL VELOCITY DISSIPATORS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CONTROL PLAN.
5. 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.

TEMPORARY AND PERMANENT SEEDING NOTES

1. TEMPORARY SEEDING: MUST PLANT OR OTHERWISE PROVIDE A TEMPORARY COVER SUFFICIENT TO RESTRAIN EROSION AFTER ANY GRADED AREA REMAINS UNDISTURBED, AS ILLUSTRATED ON THE NPDES GROUND STABILIZATION TABLE THIS SHEET.
2. PERMANENT SEEDING: MUST PLANT OR OTHERWISE PROVIDE A PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN EROSION UPON COMPLETION OF CONSTRUCTION OR DEVELOPMENT IN A TIMEFRAME COMPLIANT WITH THE NPDES GROUND STABILIZATION GUIDELINES.

SEEDBED PREPARATION

1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL THREE INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
2. RIP THE ENTIRE AREA TO SIX INCHES DEEP.
3. REMOVE ALL LOOSE ROCK, ROOTS AND OTHER OBSTRUCTIONS, LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
4. APPLY AGRICULTURAL LIME, FERTILIZER AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL.
5. CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED FOUR TO SIX INCHES DEEP.
6. SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
8. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE MORE THAN 60% DAMAGED, RE-ESTABLISH FOLLOWING THE ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
9. CONSULT S&EC ENVIRONMENTAL CONSULTANTS ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.

Know what's below. Call before you dig.

CONTRACTOR SHALL NOTIFY "NC811" (811) OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NC811".
REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.

SEDIMENT BASIN SUMMARY DESIGN TABLE

SEDIMENT BASIN ID	SB-A (STAGE 1)	SB-A (STAGE 3)	SB-B (STAGE 1)	SB-B (STAGE 3)
Drainage Area (AC.)	4.79	7.20	10.82	11.42
Disturbed Area (AC.)	4.79	7.20	10.82	11.42
Flow Q25 (CFS)	23.80	35.00	50.70	55.70
Bottom Elevation (FT)	370.00	370.00	344.00	344.00
Sediment Depth (FT)	3.00	3.00	3.50	3.50
Freeboard (from Sediment Depth)	2.00	2.00	2.50	2.50
Depth to Crest of Riser (FT)	3.00	3.00	3.50	3.50
Depth to Crest of Emergency Spillway (FT)	N/A	N/A	N/A	N/A
Side Slopes	3.0H:1V	3.0H:1V	3.0H:1V	3.0H:1V
Spillway Length (FT)	6X6 RISER	6X6 RISER	5X5 RISER	5X5 RISER
Height of Berm (FT)	5.0 @ 375.00	5.0 @ 375.00	6.0 @ 350.00	6.0 @ 350.00
Top of Basin Length (FT)	236	236	259	259
Top of Basin Width (FT)	116	116	134	134
Storage Volume Required (FT^3)	8,622	12,960	19,476	20,556
Storage Volume Prov'd. (FT^3)	61,260	61,260	88,680	88,680
Sediment Surface Area Req'd (FT^2)	9,030	13,260	19,170	21,120
Sediment Surface Area Prov'd (FT^2)	23,270	23,270	29,010	29,010
Number of Skimmers	1	1	1	1
Skimmer Size (IN)	2.0	2.5	3.0	3.0
Skimmer Orifice Size (IN)	1.8	2.1	2.4	2.5
Anti-Flotation Block	SEE "C9.A1-9A4" SHEETS	SEE "C9.A1-9A4" SHEETS	SEE "C9.B1-B4" SHEETS	SEE "C9.B1-B4" SHEETS
Riser Diameter (IN)	SEE "C9.A1-9A4" SHEETS	SEE "C9.A1-9A4" SHEETS	SEE "C9.B1-B4" SHEETS	SEE "C9.B1-B4" SHEETS
Barrel Diameter (IN)	SEE "C9.A1-9A4" SHEETS	SEE "C9.A1-9A4" SHEETS	SEE "C9.B1-B4" SHEETS	SEE "C9.B1-B4" SHEETS
Notes:				
1. Side slopes pertain only for the vertical height from the base to the top of berm, 2H:1V above that.				
2. See details on silt fence baffle spacing.				
3. Irregular shape – see plan				

TEMPORARY DIVERSION DITCH SUMMARY DESIGN TABLE

TEMPORARY DIVERSION ID	TD-1	TD-2	TD-3
MINIMUM DEPTH (FT)	0.89	0.84	1.32
MINIMUM BOTTOM WIDTH (FT)	0.00	0.00	0.00
CALCULATED VELOCITY	2.86	3.42	4.29
ALLOWABLE VELOCITY (W/O LINER)	5.00	8.00	6.00
CALCULATED SHEAR STRESS	1.38	1.76	1.66
ALLOWABLE SHEAR STRESS	1.55	2.00	1.75
TEMPORARY LINER SPECIFICATION*	ERONET DS75	ERONET SC150	ERONET DS150

* ALL SPECIFICATIONS ARE NORTH AMERICAN GREEN ROLLMAX PRODUCTS OR EQUAL

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28480-1709

WALLBROOK
CONSTRUCTION DRAWINGS
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

Digitally signed by William T O'Daniel
Date: 2024.08.30 15:47:46-04'00'

REVISIONS

NO.	DATE	
1	09. 27. 2023	WALL CREEK DRIVE TIE-IN REVISIONS
2	11. 02. 2023	EW-400 REVISION
3	05. 10. 2024	UPDATING SCM B GRADING AND SCM A OUTLET
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5	08. 30. 2024	UPDATED BUILDING FOOTPRINTS AND IMPERVIOUS AREA

PLAN INFORMATION

PROJECT NO.	CPR-19100
FILENAME	CPR19100-CD-EC-N1
CHECKED BY	WTO
DRAWN BY	JMS
SCALE	---
DATE	05. 22. 2023

SHEET

EROSION CONTROL NOTES

C6.00

FINAL DRAWING - RELEASED FOR CONSTRUCTION

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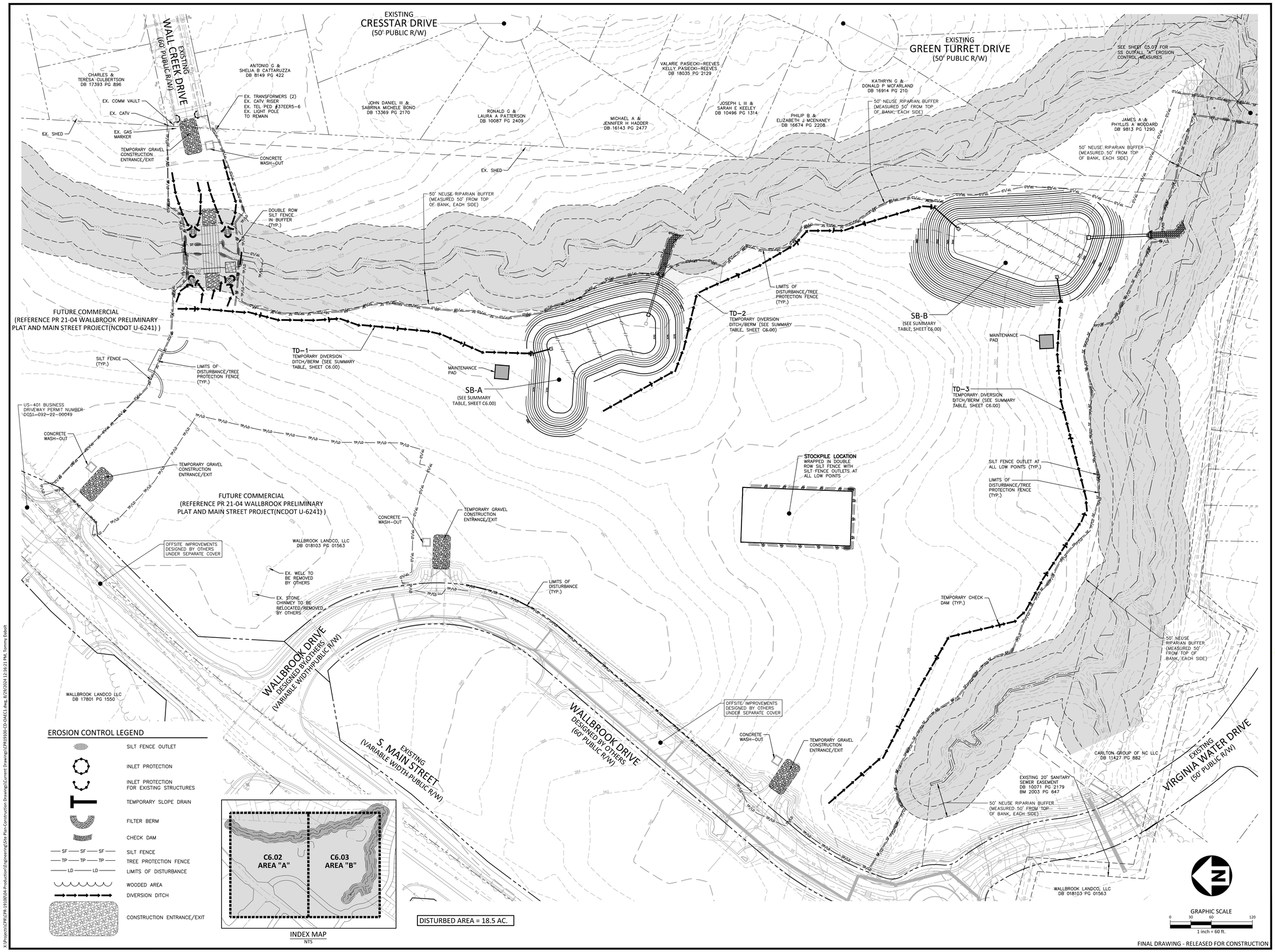

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CONSTRUCTION DRAWINGS
ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

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Date: 2024.08.30 15:47:48-04'00'

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PLAN INFORMATION

PROJECT NO.	CPR-19100
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DRAWN BY	JMS
SCALE	1"=60'
DATE	05. 22. 2023

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OVERALL EROSION CONTROL PLAN - STAGE 1

C6.01

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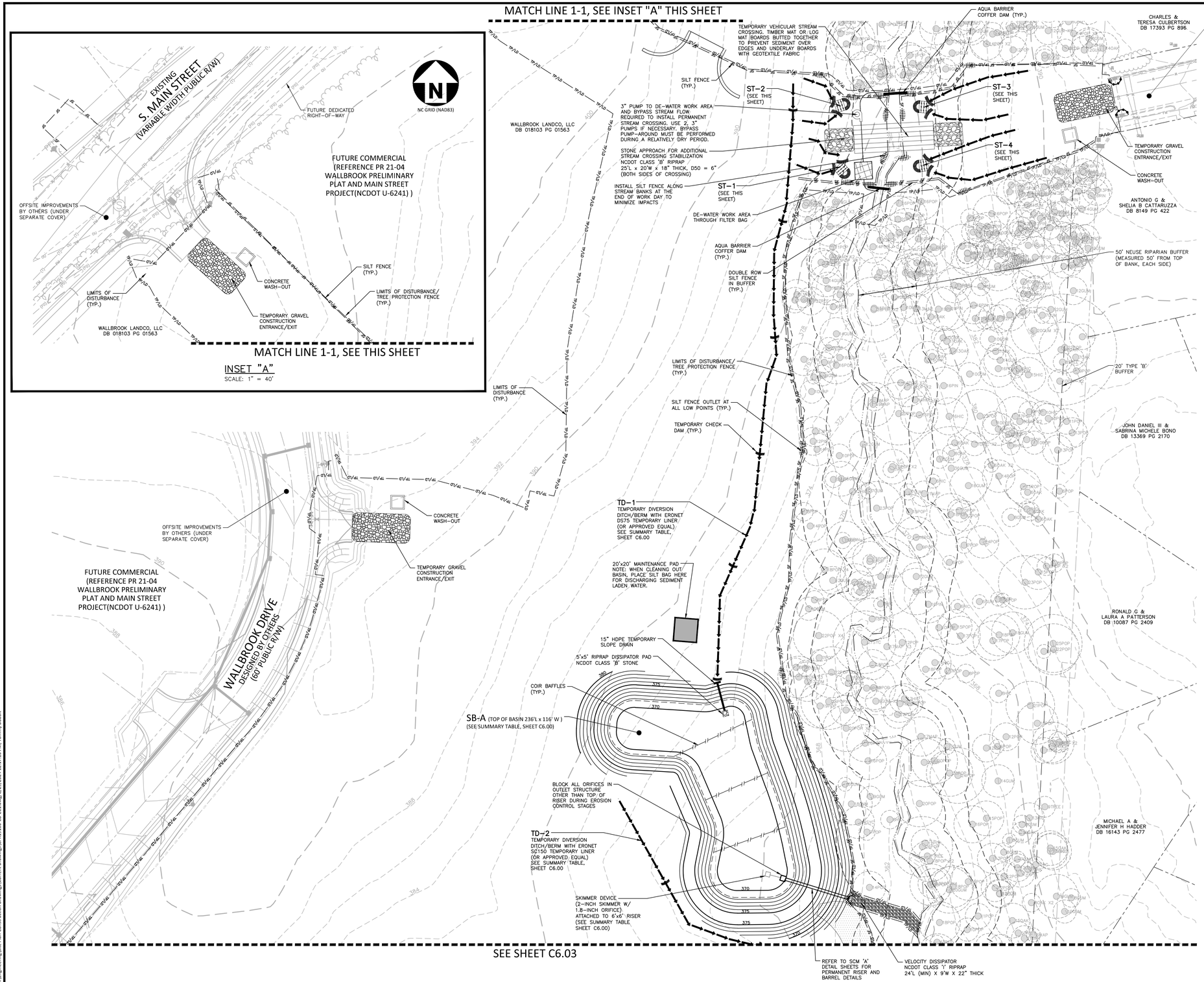
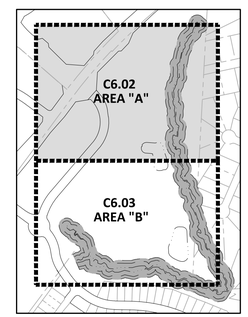


EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
- CHECK DAM
- SF — SF — SF — SILT FENCE
- TP — TP — TP — TREE PROTECTION FENCE
- LD — LD — LIMITS OF DISTURBANCE
- WOODED AREA
- DIVERSION DITCH
- CONSTRUCTION ENTRANCE/EXIT



INDEX MAP
NTS

ST-1
TEMP ROCK DAM SEDIMENT BASIN
Q=0.6 x 7.19 IN/HR x 0.03 AC.= 0.13 CFS
SURFACE AREA REQUIRED = 0.13 CFS X 435 SF = 57 SF
SURFACE AREA PROVIDED = 80 SF
BOTTOM DIMENSIONS = 10'L X 8' W
DEPTH = 3'
SIDE SLOPES = 3.0H:1V
5' WIDE CHECK DAM W/ 10' WIER

ST-2
TEMP ROCK DAM SEDIMENT BASIN
Q=0.6 x 7.19 IN/HR x 0.03 AC.= 0.13 CFS
SURFACE AREA REQUIRED = 0.13 CFS X 435 SF = 57 SF
SURFACE AREA PROVIDED = 80 SF
BOTTOM DIMENSIONS = 10'L X 8' W
DEPTH = 3'
SIDE SLOPES = 3.0H:1V
5' WIDE CHECK DAM W/ 10' WIER

ST-3
TEMP ROCK DAM SEDIMENT BASIN
Q=0.6 x 7.19 IN/HR x 0.06 AC.= 0.16 CFS
SURFACE AREA REQUIRED = 0.16 CFS X 435 SF = 70 SF
SURFACE AREA PROVIDED = 80 SF
BOTTOM DIMENSIONS = 10'L X 8' W
DEPTH = 3'
SIDE SLOPES = 3.0H:1V
5' WIDE CHECK DAM W/ 10' WIER

ST-4
TEMP ROCK DAM SEDIMENT BASIN
Q=0.6 x 7.19 IN/HR x 0.06 AC.= 0.16 CFS
SURFACE AREA REQUIRED = 0.16 CFS X 435 SF = 70 SF
SURFACE AREA PROVIDED = 80 SF
BOTTOM DIMENSIONS = 10'L X 8' W
DEPTH = 3'
SIDE SLOPES = 3.0H:1V
5' WIDE CHECK DAM W/ 10' WIER

NC GRID (NAD83)

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

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NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

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PLAN INFORMATION

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SHEET

EROSION CONTROL PLAN - STAGE 1 - AREA "A"

C6.02

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SEE SHEET C6.02

WALLBROOK DRIVE
DESIGNED BY OTHERS
(60' PUBLIC R/W)

OFFSITE IMPROVEMENTS BY OTHERS (UNDER SEPARATE COVER)

LIMITS OF DISTURBANCE (TYP.)

CONCRETE WASH-OUT

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT

STOCKPILE LOCATION
WRAPPED IN DOUBLE ROW SILT FENCE WITH SILT FENCE OUTLETS AT ALL LOW POINTS

SB-A (TOP OF BASIN 236'L x 116' W)
(SEE SUMMARY TABLE, SHEET C6.00)

SEE SHEET C6.02 FOR SKIMMER, RISER, AND RIPRAP INFORMATION

TD-2
TEMPORARY DIVERSION DITCH/BERM WITH ERONET SC150 TEMPORARY LINER (OR APPROVED EQUAL) SEE SUMMARY TABLE, SHEET C6.00

TEMPORARY CHECK DAM (TYP.)

SILT FENCE (TYP.)

LIMITS OF DISTURBANCE/ TREE PROTECTION FENCE (TYP.)

SILT FENCE OUTLET AT ALL LOW POINTS (TYP.)

TD-3
TEMPORARY DIVERSION DITCH/BERM WITH ERONET DS150 TEMPORARY LINER (OR APPROVED EQUAL) SEE SUMMARY TABLE, SHEET C6.00

15" HDPE TEMPORARY SLOPE DRAIN

50' NEUSE RIPARIAN BUFFER (MEASURED 50' FROM TOP OF BANK, EACH SIDE)

5'x5' RIPRAP DISSIPATOR PAD NCDOT CLASS 'B' STONE

SB-B (TOP OF BASIN 259'L x 134' W)
(SEE SUMMARY TABLE, SHEET C6.00)

20' TYPE 'B' BUFFER

COIR BAFFLES (TYP.)

5'x5' RIPRAP DISSIPATOR PAD NCDOT CLASS 'B' STONE

SKIMMER DEVICE (3.0-INCH SKIMMER W/ 2.4-INCH ORIFICE) ATTACHED TO 5'x5' RISER (SEE SUMMARY TABLE SHEET C6.00)

BLOCK ALL ORIFICES IN OUTLET STRUCTURE OTHER THAN TOP OF RISER DURING EROSION CONTROL STAGES

EXISTING 20' SANITARY SEWER EASEMENT DB 10071 PG 2179 BM 2003 PG 647

50' NEUSE RIPARIAN BUFFER (MEASURED 50' FROM TOP OF BANK, EACH SIDE)

20' TYPE 'B' BUFFER

SILT FENCE (TYP.)

TEMPORARY CHECK DAM (TYP.)

LIMITS OF DISTURBANCE/ TREE PROTECTION FENCE (TYP.)

SILT FENCE OUTLET AT ALL LOW POINTS (TYP.)

20'x20' MAINTENANCE PAD NOTE: WHEN CLEANING OUT BASIN, PLACE SILT BAG HERE FOR DISCHARGING SEDIMENT LADEN WATER.

15" HDPE TEMPORARY SLOPE DRAIN

20' TYPE 'B' BUFFER

50' NEUSE RIPARIAN BUFFER (MEASURED 50' FROM TOP OF BANK, EACH SIDE)

REFER TO SCM 'B' DETAIL SHEETS FOR PERMANENT RISER AND BARREL DETAILS

VELOCITY DISSIPATOR NCDOT CLASS 'B' RIPRAP 18'L (MIN) X 9'W X 22" THICK

MATCH LINE 2-2, SEE INSET "B" THIS SHEET

NC GRID (NAD83)

GRAPHIC SCALE
0 20 40 80
1 inch = 40 ft.

MATCH LINE 2-2, SEE THIS SHEET

50' NEUSE RIPARIAN BUFFER (MEASURED 50' FROM TOP OF BANK, EACH SIDE)

EXISTING RIPRAP

EX. SS

30' CITY OF RALEIGH SANITARY SEWER EASEMENT

SILT FENCE OUTLET AT ALL LOW POINTS (TYP.)

EXISTING 20' SANITARY SEWER EASEMENT DB 10071 PG 2179 BM 2003 PG 647

SILT FENCE (TYP.)

LIMITS OF DISTURBANCE/TREE PROTECTION FENCE (TYP.)

NC GRID (NAD83)

INSET "B"
SCALE: 1" = 40'

C6.02 AREA "A"

C6.03 AREA "B"

INDEX MAP
NTS

EROSION CONTROL LEGEND

- SILT FENCE OUTLET
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ROLESVILLE, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 22630 ENGINEER WILLIAM T. O'DANIEL

W.T. O'Daniel
Digitally signed by William T O'Daniel
Date: 2024.08.30 15:47:51-04'00'

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SHEET

EROSION CONTROL PLAN - STAGE 1 - AREA "B"

C6.03

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EXISTING CRESSTAR DRIVE (50' PUBLIC R/W)

EXISTING WALL CREEK DRIVE (60' PUBLIC R/W)

EXISTING GREEN TURRET DRIVE (50' PUBLIC R/W)

ANTONIO G & SHELIA B CATTARUZZA DB 8149 PG 422

CHARLES & TERESA CULBERTSON DB 17393 PG 896

JOHN DANIEL III & SABRINA MICHELE BONO DB 13369 PG 2170

RONALD G & LAURA A PATTERSON DB 10087 PG 2409

MICHAEL A & JENNIFER H HADDER DB 16143 PG 2477

VALARIE PASIECKI-REEVES KELLY PASIECKI-REEVES DB 18035 PG 2129

JOSEPH L III & SARAH E KEELEY DB 10496 PG 1314

PHILIP B & ELIZABETH J MCENANEY DB 16674 PG 2208

KATHRYN G & DONALD P MCFARLAND DB 16914 PG 210

JAMES A & PHYLLIS A WOODARD DB 9813 PG 1290

EX. SHED

EX. TRANSFORMERS (2)
EX. CATV RISER
EX. TEL PED #37EER5-6
EX. LIGHT POLE TO REMAIN

SILT FENCE (TYP.)

DOUBLE ROW SILT FENCE IN BUFFER (TYP.)

EROSION CONTROL BLANKET (TYP.)

50' NEUSE RIPARIAN BUFFER (MEASURED 50' FROM TOP OF BANK, EACH SIDE)

EX. SHED

EROSION CONTROL BLANKET (TYP.)

50' NEUSE RIPARIAN BUFFER (MEASURED 50' FROM TOP OF BANK, EACH SIDE)

LIMITS OF DISTURBANCE/TREE PROTECTION FENCE (TYP.)

50' NEUSE RIPARIAN BUFFER (MEASURED 50' FROM TOP OF BANK, EACH SIDE)

SEE SHEET C5.07 FOR SS OUTFALL "A" EROSION CONTROL MEASURES

SB-B (TO BE CONVERTED INTO PERMANENT SCM-B)

FUTURE COMMERCIAL (REFERENCE PR 21-04 WALLBROOK PRELIMINARY PLAT AND MAIN STREET PROJECT(NCDOT U-6241))

SILT FENCE (TYP.)

LIMITS OF DISTURBANCE/TREE PROTECTION FENCE (TYP.)

US-401 BUSINESS DRIVEWAY PERMIT NUMBER D051-092-22-00049

SB-A (TO BE CONVERTED INTO PERMANENT SCM-A)

EROSION CONTROL BLANKET (TYP.)

FUTURE COMMERCIAL (REFERENCE PR 21-04 WALLBROOK PRELIMINARY PLAT AND MAIN STREET PROJECT(NCDOT U-6241))

OFFSITE IMPROVEMENTS DESIGNED BY OTHERS UNDER SEPARATE COVER

WALLBROOK LANDCO, LLC DB 018103 PG 01563

EX. WELL TO BE REMOVED BY OTHERS

EX. STONE CHIMNEY TO BE RELOCATED/REMOVED BY OTHERS

WALLBROOK DRIVE DESIGNED BY OTHERS (VARIABLE WIDTH PUBLIC R/W)

LIMITS OF DISTURBANCE (TYP.)

WALLBROOK LANDCO LLC DB 17801 PG 1550

WALLBROOK DRIVE DESIGNED BY OTHERS (60' PUBLIC R/W)

OFFSITE IMPROVEMENTS DESIGNED BY OTHERS UNDER SEPARATE COVER

EXISTING S. MAIN STREET (VARIABLE WIDTH PUBLIC R/W)

EROSION CONTROL BLANKET (TYP.)

LIMITS OF DISTURBANCE/TREE PROTECTION FENCE (TYP.)

50' NEUSE RIPARIAN BUFFER (MEASURED 50' FROM TOP OF BANK, EACH SIDE)

CARLTON GROUP OF NC LLC DB 11427 PG 882

EXISTING 20' SANITARY SEWER EASEMENT DB 10071 PG 2179 BM 2003 PG 647

50' NEUSE RIPARIAN BUFFER (MEASURED 50' FROM TOP OF BANK, EACH SIDE)

EXISTING VIRGINIA WATER DRIVE (50' PUBLIC R/W)

WALLBROOK LANDCO, LLC DB 018103 PG 01563

EROSION CONTROL LEGEND

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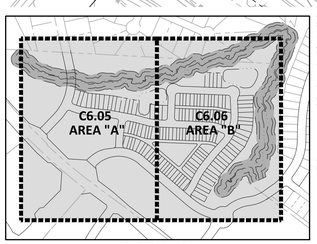

INDEX MAP
NTS

DISTURBED AREA = 18.5 AC.

GRAPHIC SCALE
0 30 60 120
1 inch = 60 ft.

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SHEET

OVERALL EROSION CONTROL PLAN - STAGE 2

C6.04

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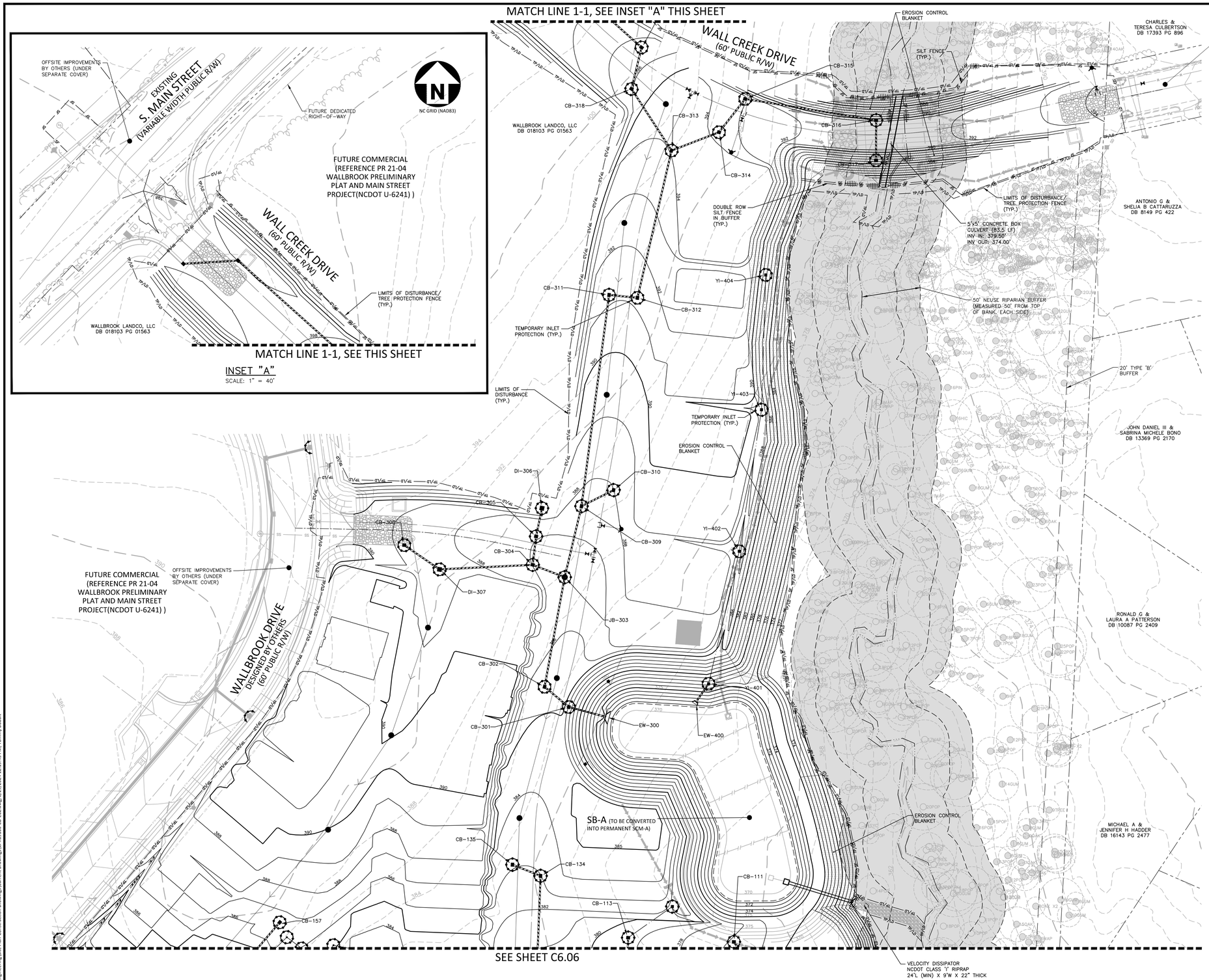

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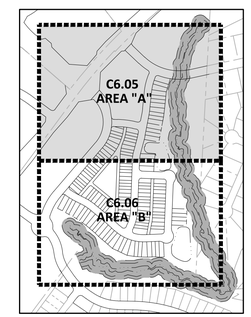
- EROSION CONTROL BLANKET

EASEMENT LEGEND

- PRDE PRIVATE STORM DRAINAGE EASEMENT
- DE PUBLIC STORM DRAINAGE EASEMENT
- UE UTILITY EASEMENT



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EROSION CONTROL PLAN - STAGE 2 - AREA "A"

C6.05

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