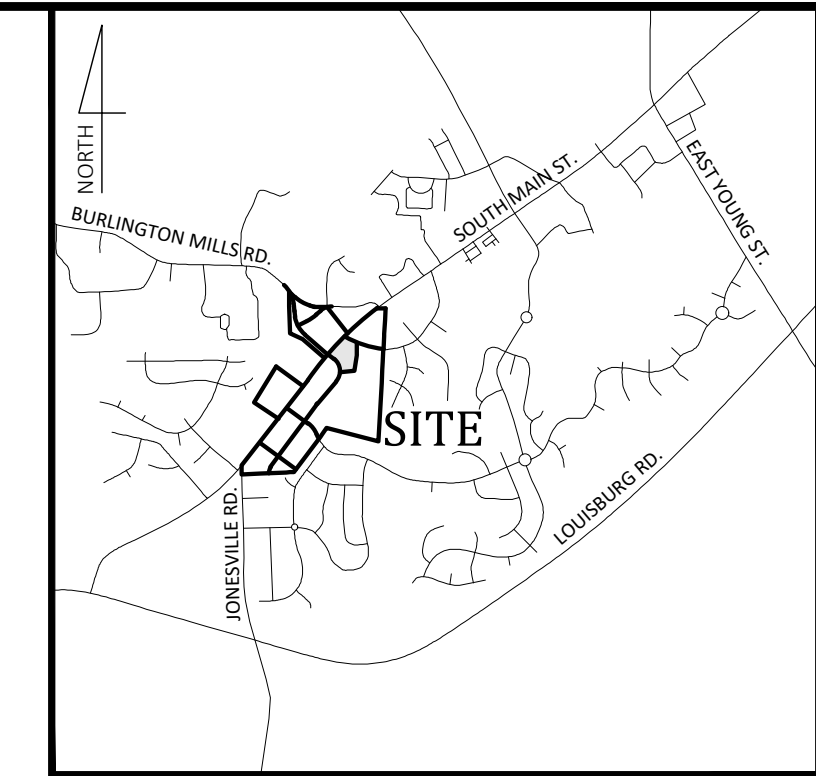


V2-
CID-24-02

MASS GRADING / EROSION CONTROL WALLBROOK - Lot 7

S. Main St. / US-401 Business & Wall Creek Drive, Town of Rolesville, Wake County, North Carolina

△ Project No.: CID 24-02



Vicinity Map
NOT TO SCALE

- Final Drawing -
Issued for Permit
Review Purposes Only

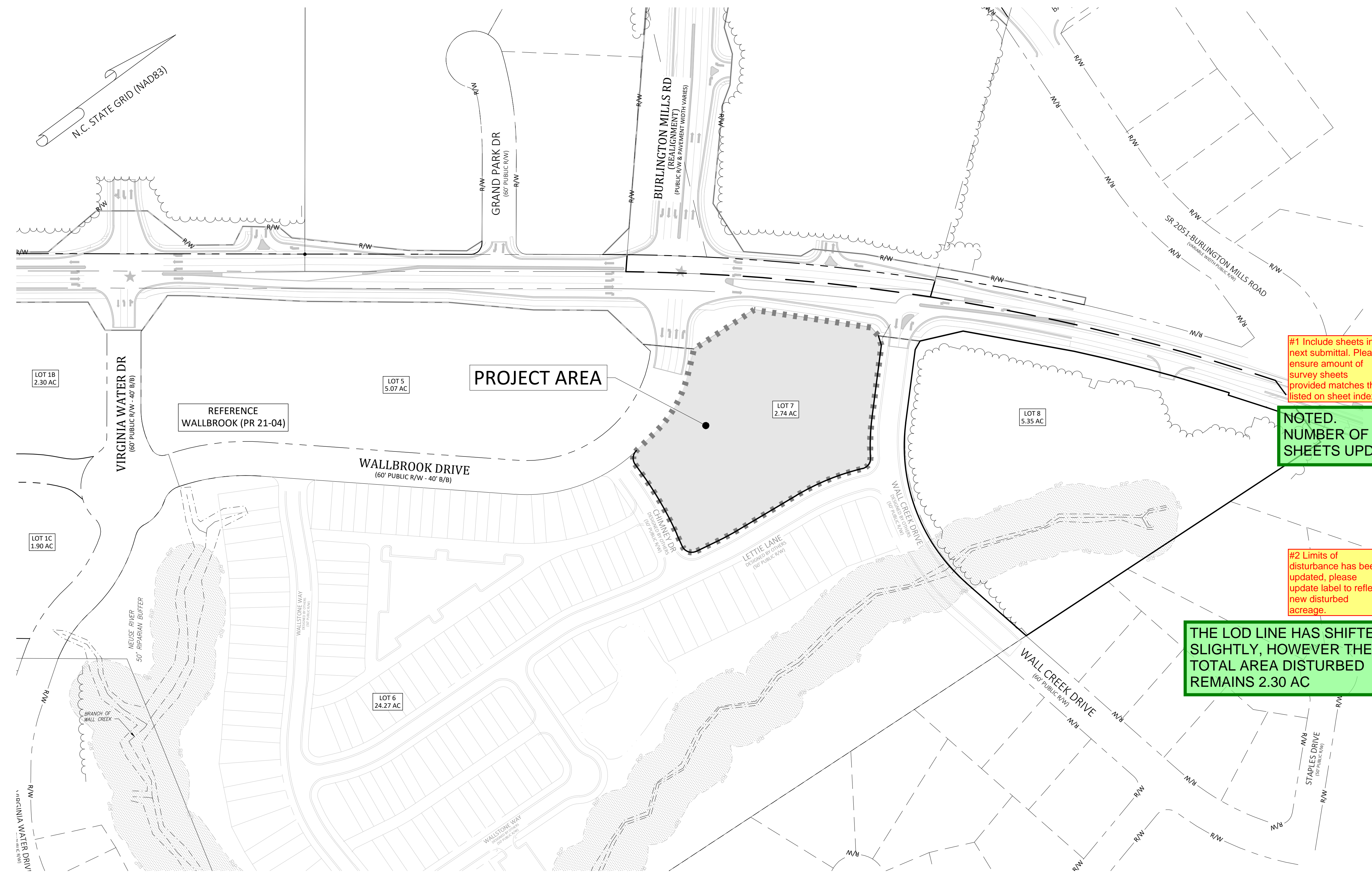
REVISIONS:



COVER
WALLBROOK - LOT 7
MASS GRADING / EROSION CONTROL
Town of Rolesville Project No. CID 24-02
Rolesville, Wake County, North Carolina

NC License: P-1199
ARK CONSULTING GROUP PLLC
ENGINEERS & PLANNERS
2755-B Charles Blvd
Greenville, NC 27638
(757) 558-0888
www.arkconsultinggroup.com

6/1/2024



Sheet Index

#	Title
△△ C0.1	Cover
△△ C0.2	Existing Conditions & Demolition Plan
△△ C1.0	Erosion Control Notes & Legend
△△ C1.1	Erosion Control Phase 1
△△ C1.2	Erosion Control Phase 2 & Mass Grading Plan
△ C2.1	Details
△ C2.2	Details
REF	Survey - Johnson, Mirmiran & Thompson (4 Sheets)
REF	Tree Preservation Plan - PR-21-04 REVISED (1 Sheet)

#1 Include sheets in next submittal. Please ensure amount of survey sheets provided matches that listed on sheet index

NOTED. NUMBER OF SURVEY SHEETS UPDATED

#2 Limits of disturbance has been updated, please update label to reflect new disturbed acreage.

THE LOD LINE HAS SHIFTED SLIGHTLY, HOWEVER THE TOTAL AREA DISTURBED REMAINS 2.30 AC

Site Data

PIN NUMBERS:	1758-57-7481
REAL ESTATE ID:	0509437
CURRENT ZONING:	GC-C2
ACREAGE IN PARCEL:	2.74 ACRES
ACREAGE IN PUBLIC R/W:	0.00 ACRES
TOTAL ACREAGE DISTURBED:	2.30 ACRES
WATERSHED:	Lower Neuse
RIVER BASIN:	Neuse
CURRENT USE:	VACANT / WOODED
EXISTING IMPERVIOUS:	0 SF
PROPOSED IMPERVIOUS:	0 SF
PROPOSED USE(S):	NON-RESIDENTIAL/COMMERCIAL/RETAIL
LOTS IN DEVELOPMENT:	LOT 7
REFERENCES:	DB 018103 PG 01563 BM2023 PG 01602

Owner/Developer

Wallbrook Landco, LLC
3 Keel St, Ste 2
Wrightsville Beach, NC

Engineer

Ark Consulting Group, PLLC
2755-B Charles Blvd
Greenville, NC
Contact: Bryan C. Fagundus, PE

EROSION AND SEDIMENT CONTROL

APPROVED PLAN
DATE _____
PERMIT NO. S- _____
Wake County Environmental Services
Sedimentation & Erosion Control
919-856-7400

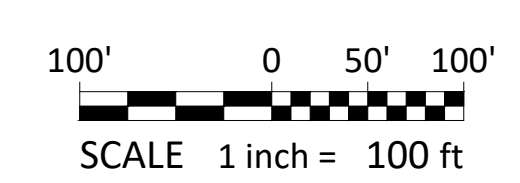
ENVIRONMENTAL CONSULTANT SIGNATURE _____

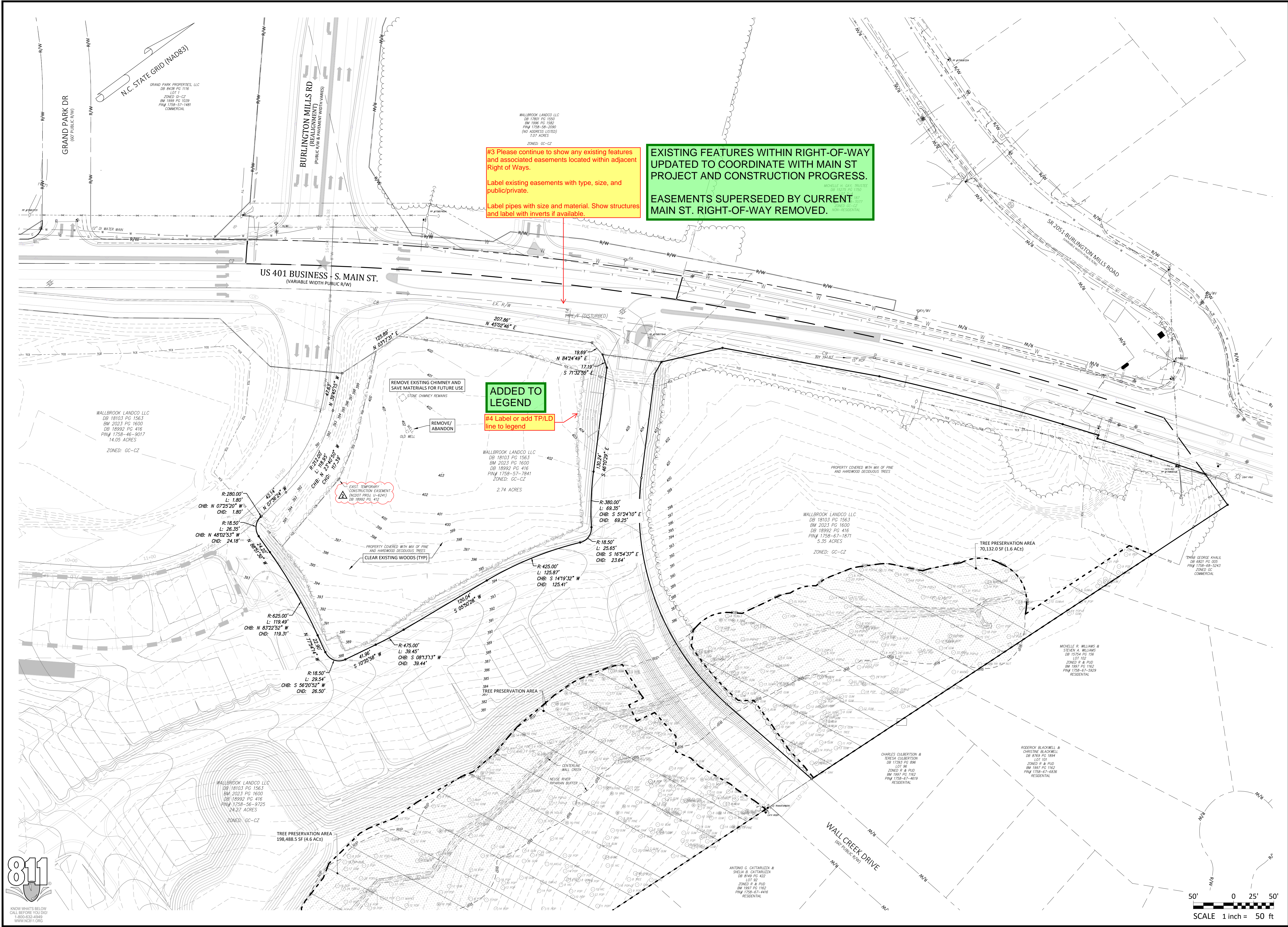


Project Manager:	BCF
Drawn By:	DLC
Checked By:	TN
Project Number:	24136
Drawing Number:	D-1471

C0.1

Date: April 1, 2024



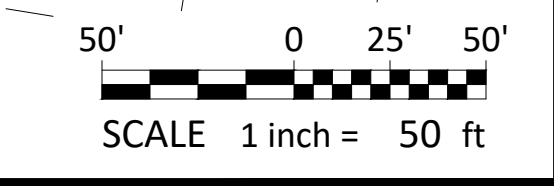
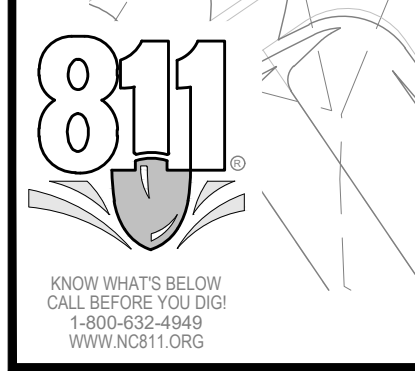


#3 Please continue to show any existing features and associated easements located within adjacent Right of Ways.
 Label existing easements with type, size, and public/private.
 Label pipes with size and material. Show structures and label with inverts if available.

EXISTING FEATURES WITHIN RIGHT-OF-WAY UPDATED TO COORDINATE WITH MAIN ST PROJECT AND CONSTRUCTION PROGRESS.
 EASEMENTS SUPERSEDED BY CURRENT MAIN ST. RIGHT-OF-WAY REMOVED.

ADDED TO LEGEND
 #4 Label or add TPL/D line to legend

<p>REVISIONS:</p> <table border="1"> <tr> <th>#</th> <th>DATE</th> <th>ISSUED FOR INITIAL REVIEW</th> <th>DESCRIPTION</th> </tr> <tr> <td>1</td> <td>1-APR-24</td> <td>ISSUED FOR INITIAL REVIEW</td> <td></td> </tr> <tr> <td>1</td> <td>3-JUN-24</td> <td>REVISED PER REVIEW COMMENTS</td> <td></td> </tr> </table>		#	DATE	ISSUED FOR INITIAL REVIEW	DESCRIPTION	1	1-APR-24	ISSUED FOR INITIAL REVIEW		1	3-JUN-24	REVISED PER REVIEW COMMENTS	
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1	3-JUN-24	REVISED PER REVIEW COMMENTS											
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<p>EXISTING CONDITIONS & DEMOLITION PLAN</p>													
<p>WALLBROOK - LOT 7</p>													
<p>MASS GRADING / EROSION CONTROL</p>													
<p>Town of Rolesville Project No. CID 24-02</p>													
<p>S Main St. / US-401 Business & Wall Creek Drive</p>													
<p>Rolesville, Wake County, North Carolina</p>													
<p>NC License: P-1109</p> <p>ARK CONSULTING GROUP PLLC ENGINEERS & PLANNERS</p> <p>2755-B Charles Blvd #200 Raleigh, NC 27608 (919) 876-8888 www.arkconsultinggroup.com</p>													
<p>Project Manager: BCF Drawn By: DLC Checked By: TN Project Number: 21089 Drawing Number: D-1471</p>													
<p>C0.2</p> <p>Date: April 1, 2024</p>													



GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCGO1 CONSTRUCTION GENERAL PERMIT

Table with 3 columns: Site Area Description, Stabilize within this many calendar days after ceasing land disturbance, and Timeframe variations. Includes rows for perimeter dikes, high quality water zones, slopes, and areas with slopes flatter than 4:1.

GROUND STABILIZATION SPECIFICATION
Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Table comparing Temporary Stabilization (e.g., straw, hydroseeding) and Permanent Stabilization (e.g., permanent grass seed, geotextile fabrics).

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS
1. Select flocculants that are appropriate for the soils being exposed during construction...

EQUIPMENT AND VEHICLE MAINTENANCE
1. Maintain vehicles and equipment to prevent discharge of fluids.
2. Provide drip pans under any stored equipment.

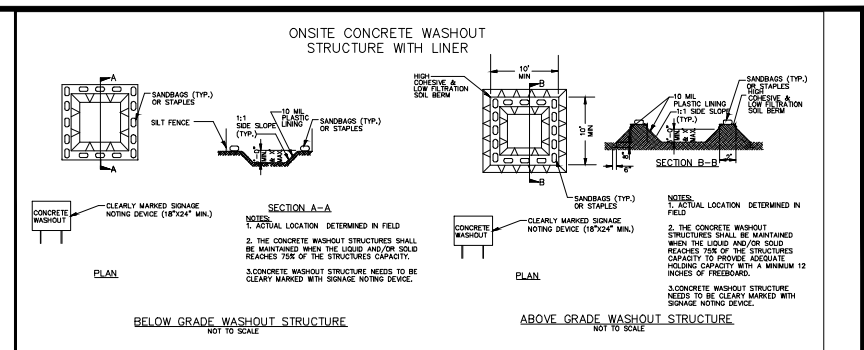
LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE
1. Never bury or burn waste. Place litter and debris in approved waste containers.
2. Provide a sufficient number and size of waste containers...

PAINT AND OTHER LIQUID WASTE
1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
2. Locate paint washouts at least 50 feet away from storm drain inlets...

PORTABLE TOILETS
1. Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands...

EARTHEN STOCKPILE MANAGEMENT
1. Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets...

HAZARDOUS AND TOXIC WASTE
1. Create designated hazardous waste collection areas on-site.
2. Place hazardous waste containers under cover or in secondary containment.



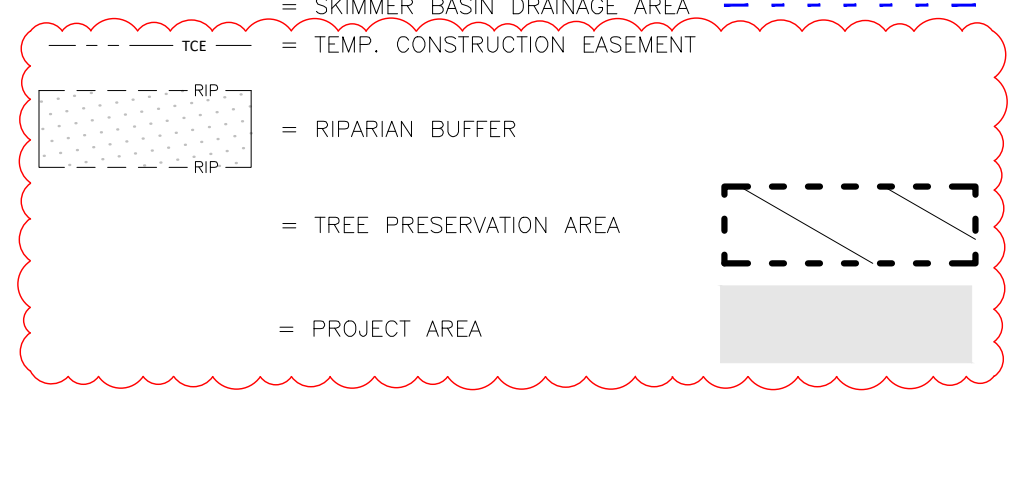
- CONCRETE WASHOUTS
1. Do not discharge concrete or cement slurry from the site.
2. Dispose of, or recycle, settled, hardened concrete residue in accordance with local and state solid waste regulations...

- HERBICIDES, PESTICIDES AND RODENTICIDES
1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
2. Store herbicides, pesticides and rodenticides in their original containers...

- HAZARDOUS AND TOXIC WASTE
1. Create designated hazardous waste collection areas on-site.
2. Place hazardous waste containers under cover or in secondary containment.

Legend

Legend table with columns EXISTING and PROPOSED. Lists symbols for monuments, property lines, utility lines (C&G, DI, ELEC, EM, F/O, FH, GV, LP, PP, RCP, S.F.), and various pipe and line types (E, FO, G, OH, S, T, W, WALK, X).



Demolition Notes:

- 1. CONTRACTOR SHALL CONTACT NORTH CAROLINA ONE-CALL CENTER (NC 811) BY DIALING 811 OR 1-800-632-4949 AT LEAST 72 HOURS IN ADVANCE OF ANY LAND DISTURBING ACTIVITY...

Wake County Basin Removal Sequence:

- 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.

NCGO1 GROUND STABILIZATION AND MATERIALS HANDLING EFFECTIVE: 04/01/19

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION
Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy...

Table with 3 columns: Inspect, Frequency (per day, per week, per month), and Inspection records must include.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING
1. E&S Plan Documentation
The approved E&S plan as well as any approved deviation shall be kept on the site. The approved E&S plan must be kept up-to-date throughout the coverage under this permit.

2. Additional Documentation
(a) This general permit as well as the certificate of coverage, after it is received.
(b) Records of inspections made during the previous 30 days. The permittee shall record the required observations on the Inspection Record Form...

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING
1. Occurrences that must be reported
Permittees shall report the following occurrences:
(a) Visible sediment deposition in a stream or wetland.
(b) Oil spills:
• They are 25 gallons or more,
• They are less than 25 gallons but cannot be cleaned up within 24 hours...

Table with 2 columns: Occurrence and Reporting (Timeframes (After Occurrence) and Other Requirements).

NCGO1 SELF-INSPECTION, RECORDKEEPING AND REPORTING EFFECTIVE: 04/01/19

Erosion Control Provisions:

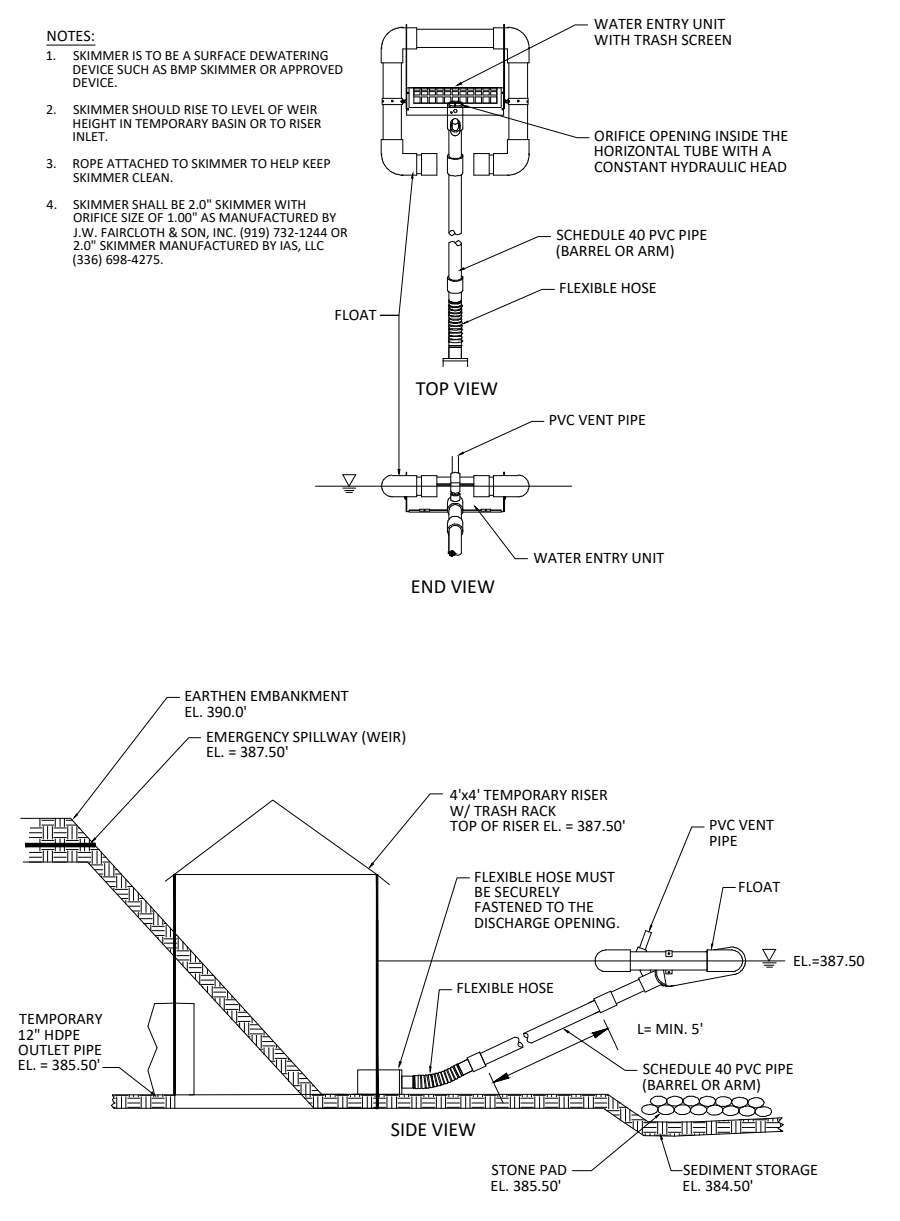
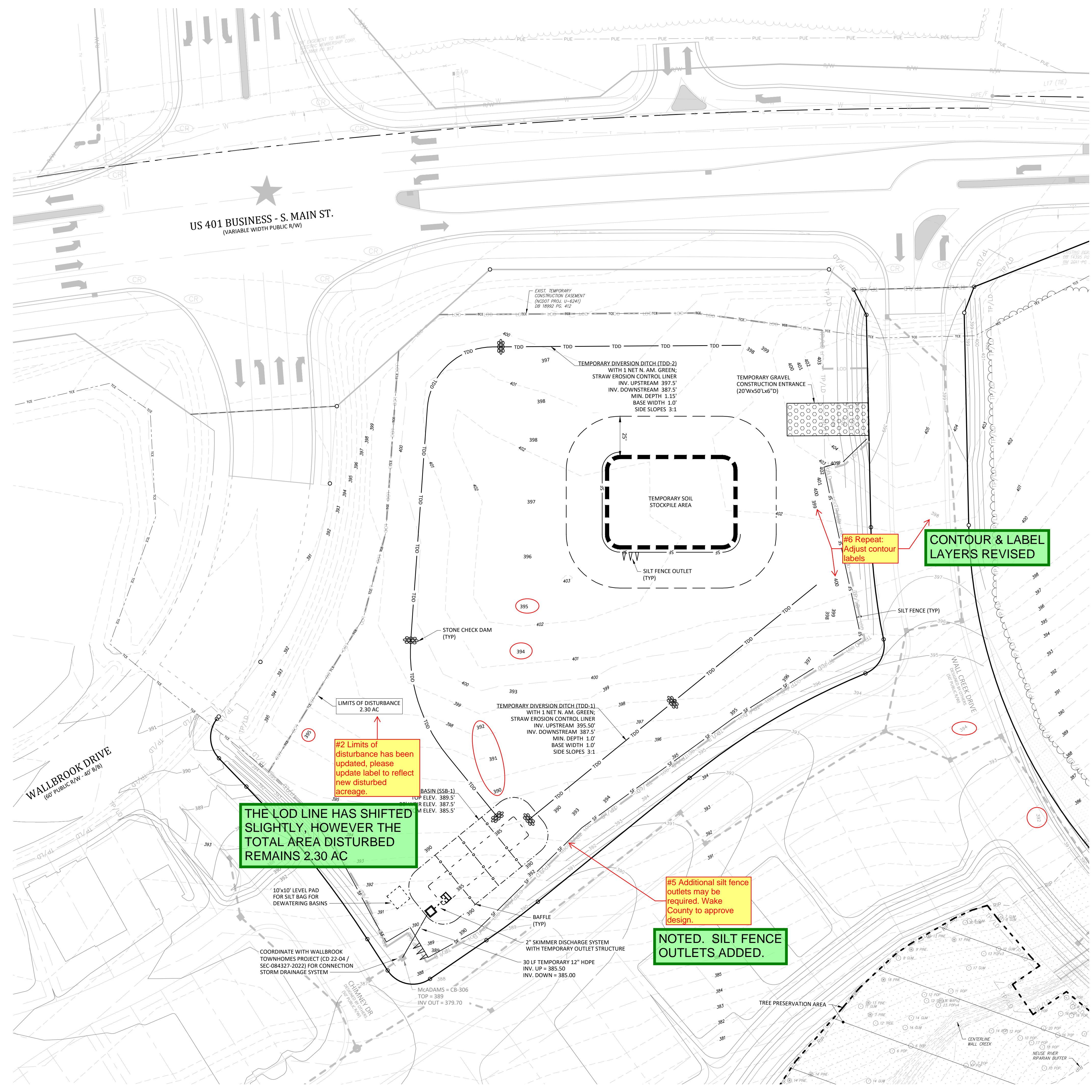
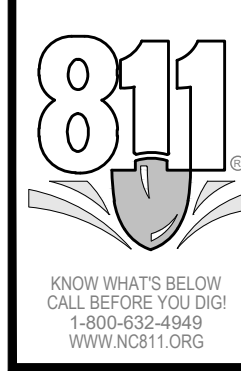
- 1. NO PERSON MAY INITIATE A LAND DISTURBING ACTIVITY BEFORE NOTIFYING WAKE COUNTY WATERSHED MANAGEMENT OF THE DATE THAT THE LAND DISTURBING ACTIVITY WILL BEGIN.
2. LAND DISTURBING ACTIVITY BEYOND THAT REQUIRED TO INSTALL APPROPRIATE EROSION CONTROL MEASURES ARE INSPECTED AND APPROVED BY THE ENGINEER.

Construction Sequence:

- 1. EROSION AND SEDIMENT CONTROL (E&S) PERMIT AND A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE ANY LAND DISTURBING ACTIVITIES OCCUR.
2. CALL WAKE COUNTY WATERSHED MANAGER JEEVAN NEUPANE AT (919) 819-8907 A MINIMUM OF 48 HOURS IN ADVANCE TO SCHEDULE A PRE-CONSTRUCTION MEETING...

EROSION CONTROL NOTES & LEGEND WALLBROOK - LOT 7 MASS GRADING / EROSION CONTROL. Includes project info, revision table, and logo for CROSLAND SOUTHEAST.

ARK CONSULTING GROUP, INC. logo and contact information. Includes project details, drawing number (D-1471), and date (April 1, 2024).



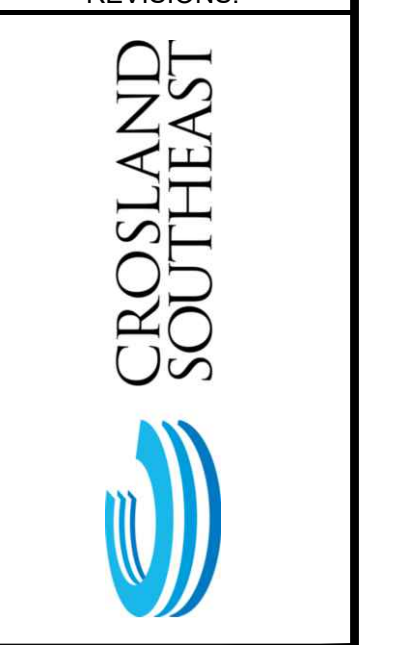
SKIMMER DISCHARGE SYSTEM WITH OUTLET STRUCTURE FOR SSB-1 NOT TO SCALE

CONTOUR LEGEND

	400	PROPOSED CONTOURS
	400	DESIGN CONTOURS PUBLIX AT WALLBROOK (SDP 23-05 / CID 23-01) (ARK CONSULTING GROUP)
	400	DESIGN CONTOURS WALLBROOK TOWNHOMES (CD 22-04) (MACADAMS CO.)
	400	EXISTING INDEX CONTOUR
	399	EXISTING CONTOUR

REVISIONS:

#	DATE	DESCRIPTION
1	1-APR-24	ISSUED FOR INITIAL REVIEW
2	3-JUN-24	REVISED PER REVIEW COMMENTS



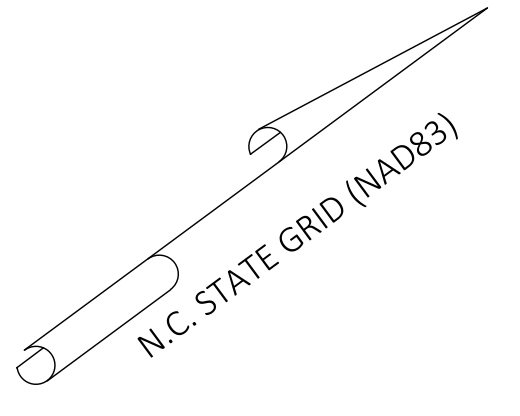
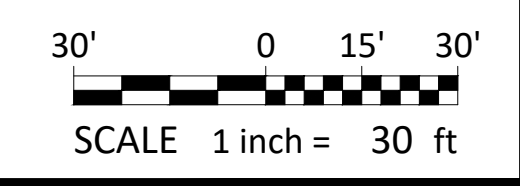
EROSION CONTROL PHASE 1
WALLBROOK - LOT 7
 MASS GRADING / EROSION CONTROL
 Town of Rolesville Project No. CID 24-02
 Rolesville, Wake County, North Carolina
 S Main St. / US-401 Business & Wall Creek Drive

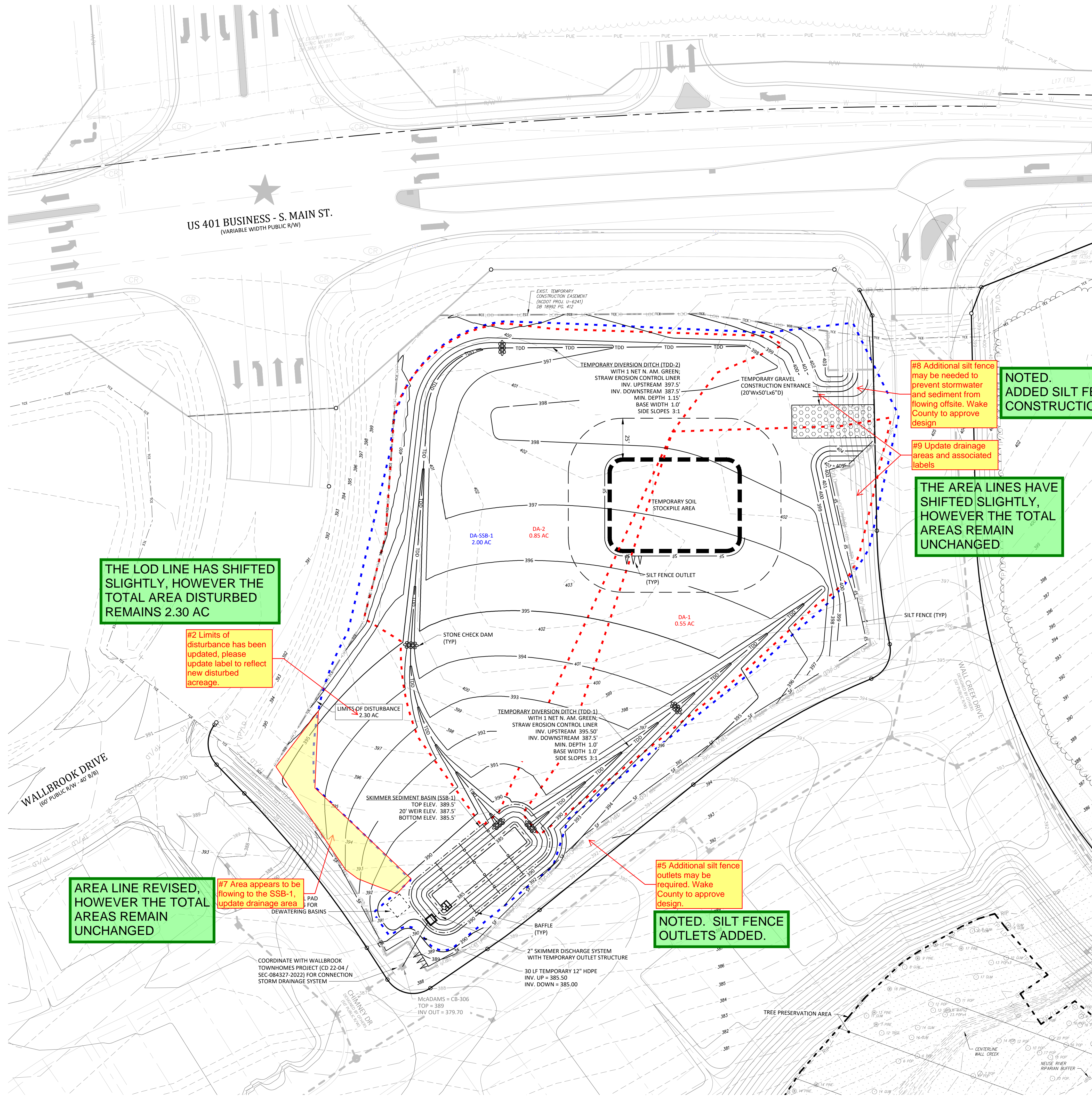
NC License: P-1199
ARK CONSULTING GROUP PLLC
 ENGINEERS & PLANNERS
 2755-B Charles Blvd.
 (757) 558-0888
 www.arkconsultinggroup.com

Professional Engineer Seal:
 NORTH CAROLINA
 P. J. LITTLE
 6/1/2024
 PE No. 48833
 State of North Carolina
 Seal No. 48833

Project Manager:	BCF
Drawn By:	DLC
Checked By:	TN
Project Number:	21089
Drawing Number:	D-1471

C1.1
 Date: April 1, 2024





THE LOD LINE HAS SHIFTED SLIGHTLY, HOWEVER THE TOTAL AREA DISTURBED REMAINS 2.30 AC

#2 Limits of disturbance has been updated, please update label to reflect new disturbed acreage.

AREA LINE REVISED, HOWEVER THE TOTAL AREAS REMAIN UNCHANGED

#7 Area appears to be flowing to the SSB-1, update drainage area

#5 Additional silt fence outlets may be required. Wake County to approve design.

NOTED. SILT FENCE OUTLETS ADDED.

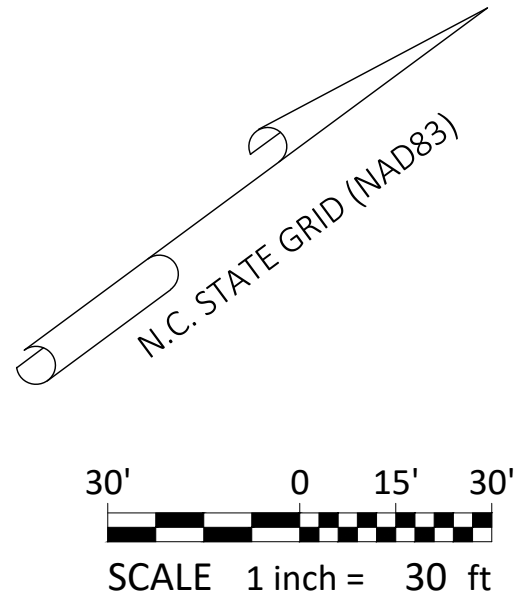
#8 Additional silt fence may be needed to prevent stormwater and sediment from flowing offsite. Wake County to approve design

NOTED. ADDED SILT FENCE ALONG CONSTRUCTION ENTRANCE

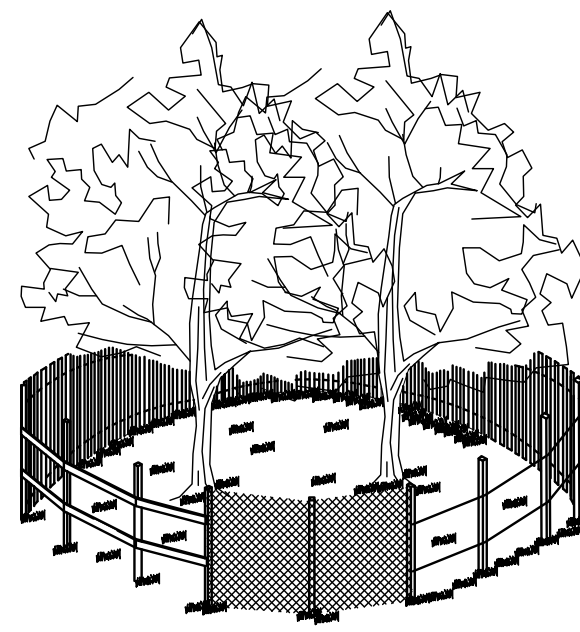
THE AREA LINES HAVE SHIFTED SLIGHTLY, HOWEVER THE TOTAL AREAS REMAIN UNCHANGED

CONTOUR LEGEND

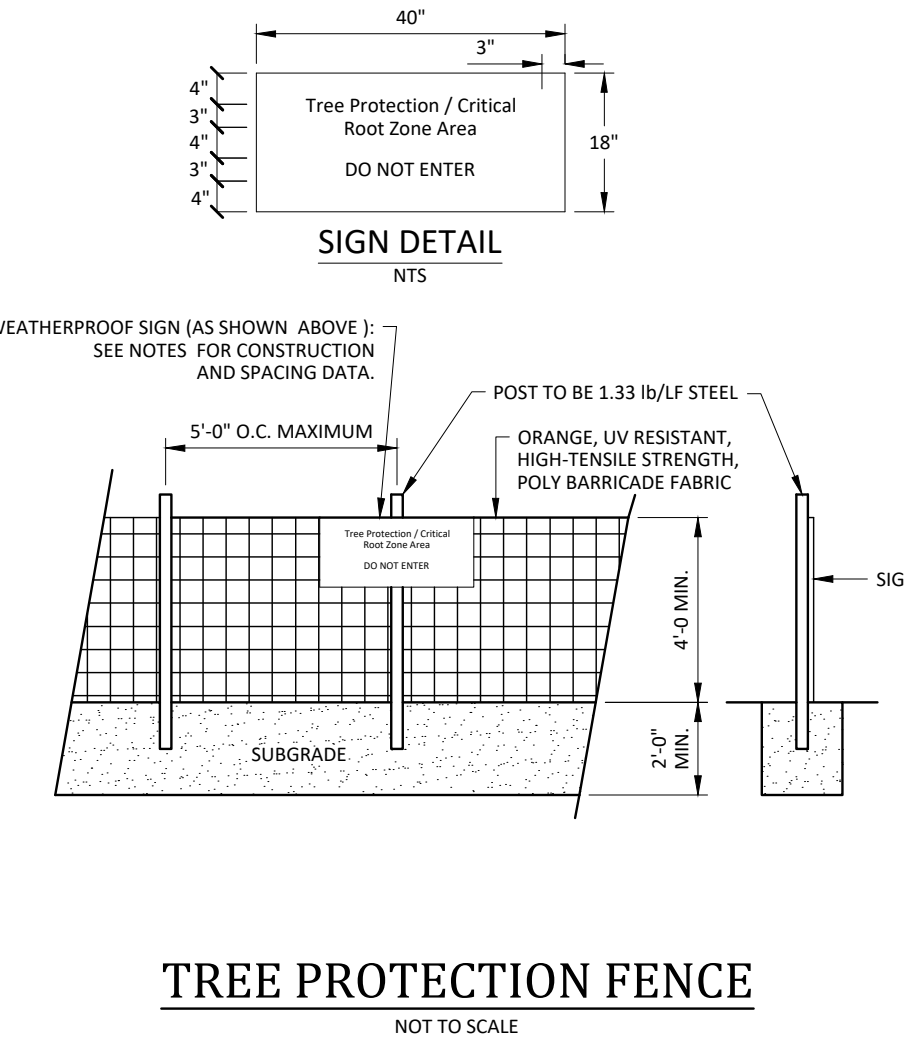
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	399	EXISTING CONTOUR



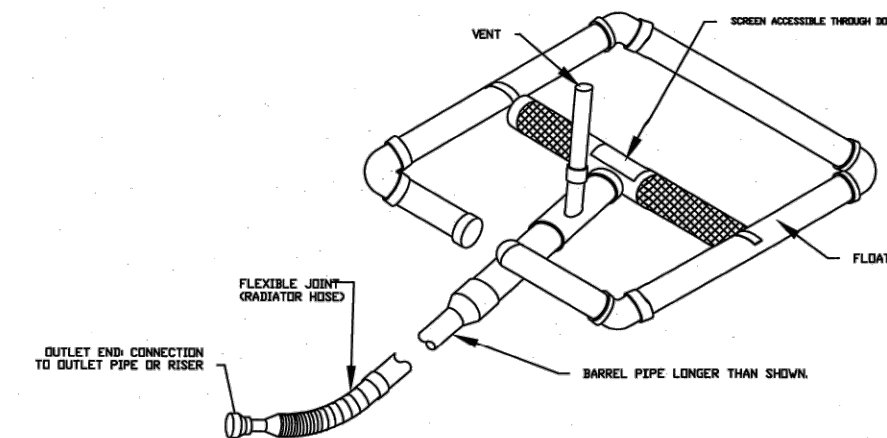
<p>EROSION CONTROL PHASE 2 & MASS GRADING PLAN</p> <p>WALLBROOK - LOT 7</p> <p>MASS GRADING / EROSION CONTROL</p> <p>Town of Rolesville Project No. CID 24-02</p> <p>Rolesville, Wake County, North Carolina</p> <p>S Main St. / US-401 Business & Wall Creek Drive</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 5%;">#</th> <th style="width: 10%;">DATE</th> <th style="width: 85%;">REVISIONS / DESCRIPTION</th> </tr> <tr> <td>1.1</td> <td>3-JUN-24</td> <td>REVISED PER REVIEW COMMENTS</td> </tr> <tr> <td>1.1</td> <td>1-APR-24</td> <td>ISSUED FOR INITIAL REVIEW</td> </tr> </table>	#	DATE	REVISIONS / DESCRIPTION	1.1	3-JUN-24	REVISED PER REVIEW COMMENTS	1.1	1-APR-24	ISSUED FOR INITIAL REVIEW
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1.1	3-JUN-24	REVISED PER REVIEW COMMENTS								
1.1	1-APR-24	ISSUED FOR INITIAL REVIEW								
<p>KNOW WHAT'S BELOW CALL BEFORE YOU DIG! 1-800-368-8488 WWW.NC811.ORG</p>	<p>ARK CONSULTING GROUP PLLC ENGINEERS & PLANNERS</p> <p>2755-B Charles Blvd Raleigh, NC 27608 (919) 858-0888 www.arkconsultinggroup.com</p> <p>6/7/2024</p>									
<p>Project Manager: BCF Drawn By: DLC Checked By: TN Project Number: 21089 Drawing Number: D-1471</p>	<p>C1.2</p> <p>Date: April 1, 2024</p>									



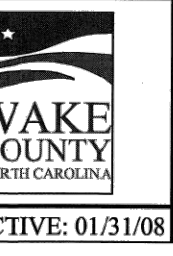
- NOTES:
1. SIGNS ARE TO BE PLACED NO GREATER THAN 200' ON CENTER. PLACE SIGN AT EACH END OF LINEAR TREE PROTECTION AREA AND 200' ON CENTER THEREAFTER.
 2. FOR TREE PROTECTION AREAS LESS THAN 200' IN PERIMETER, PROVIDE NO LESS THAN ONE SIGN PER PROTECTION AREA.
 3. ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC.
 4. WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL.
 5. LETTERS ARE TO BE 3" HIGH MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED.
 6. INSTALL TREE PROTECTION FENCE & SIGNAGE PRIOR TO CALLING FOR THE INITIAL ON-SITE INSPECTION BY A NCDENR INSPECTOR. MAINTAIN TREE PROTECTION FENCE THROUGHOUT DURATION OF PROJECT. ADDITIONAL SIGNS MAY BE REQUIRED BY NCDENR BASED ON ACTUAL FIELD CONDITIONS.



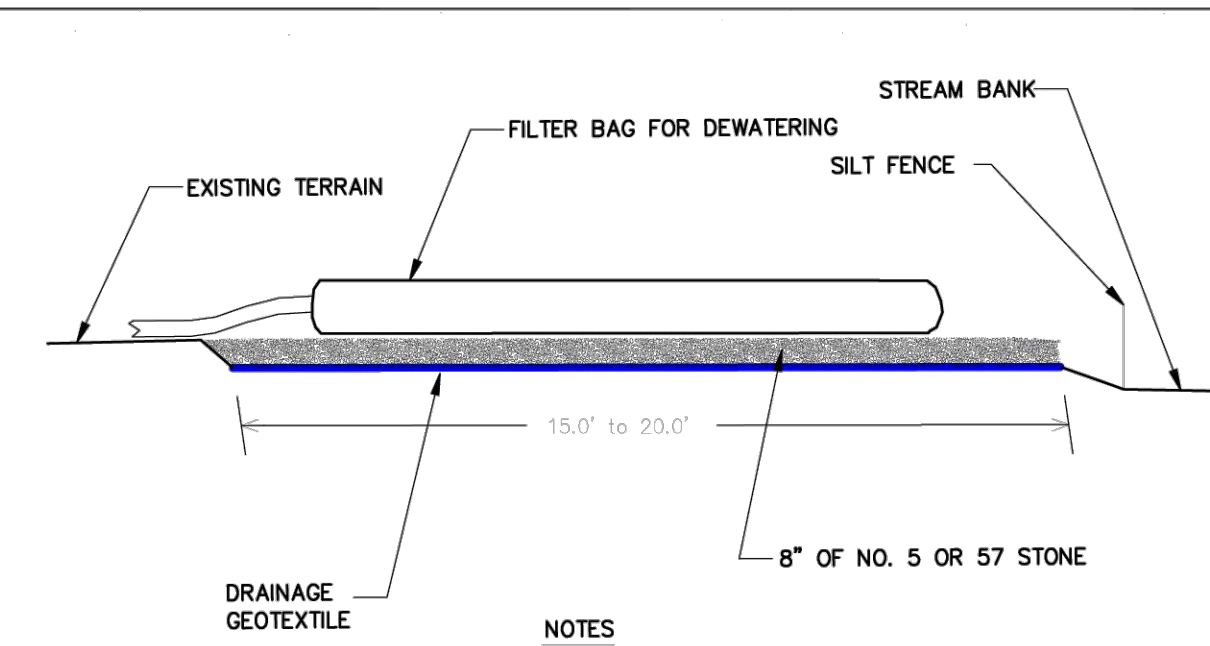
TREE PROTECTION FENCE
NOT TO SCALE



STANDARD SKIMMER DETAIL

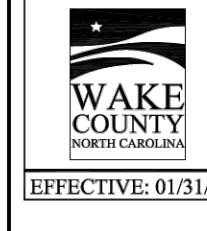


EFFECTIVE: 01/31/08

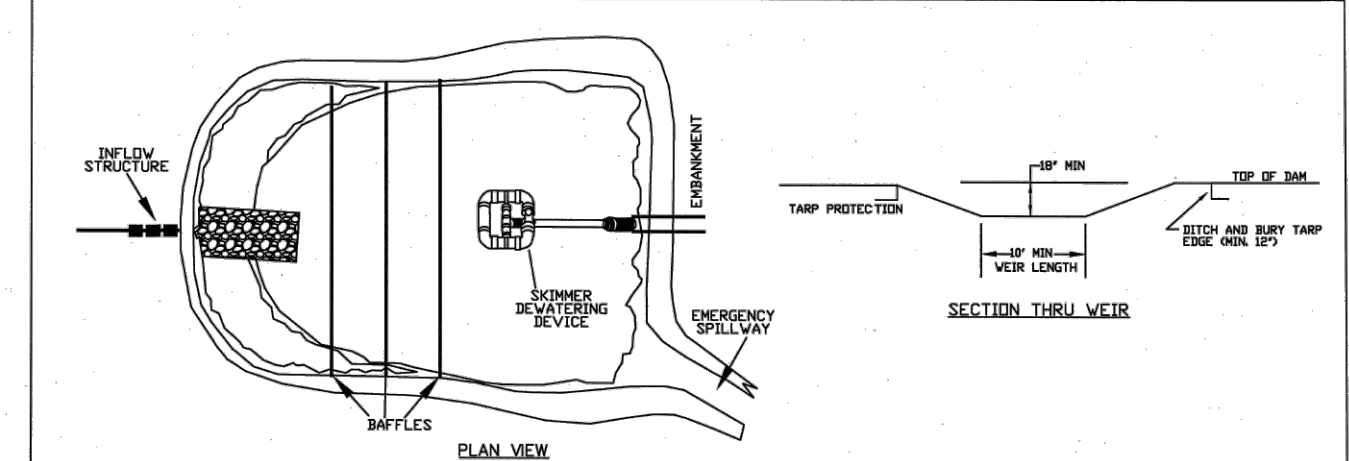


- NOTES
1. PROVIDE STABILIZED OUTLET TO STREAM BANK. WOOD PALLET MAY BE USED IN LIEU OF STONE AND GEOTEXTILE AS DIRECTED. A SUFFICIENT NUMBER OF PALLET MUST BE PROVIDED TO ELEVATE THE ENTIRE FILTER BAG FOR DEWATERING ABOVE NATURAL GROUND.

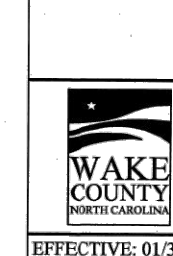
STANDARD FILTER BAG FOR DEWATERING ACTIVITIES



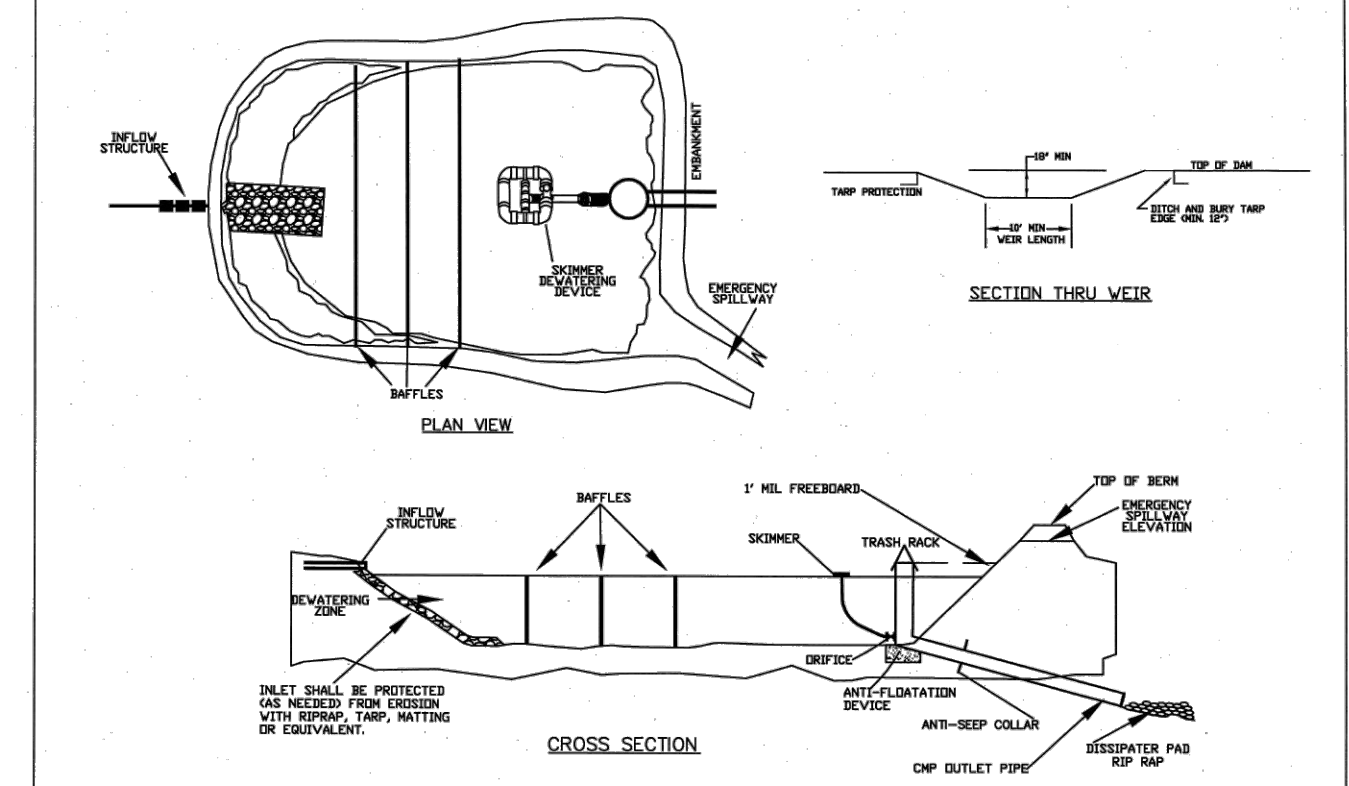
EFFECTIVE: 01/31/08



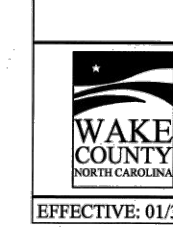
STANDARD SKIMMER BASIN



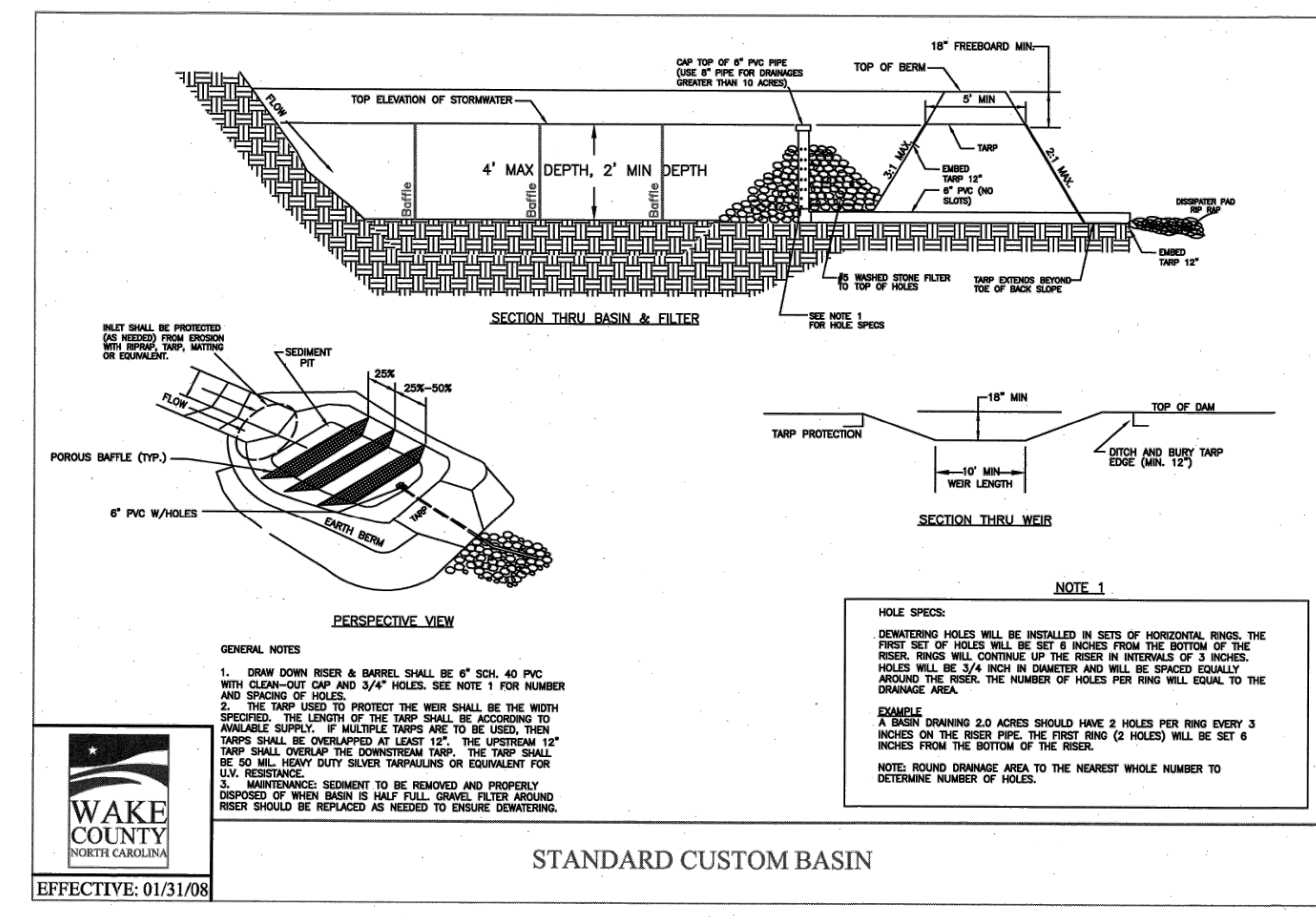
EFFECTIVE: 01/31/08



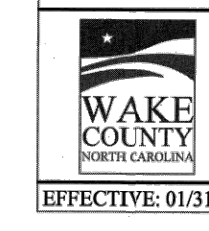
STANDARD SKIMMER ATTACHED TO PERMANENT RISER



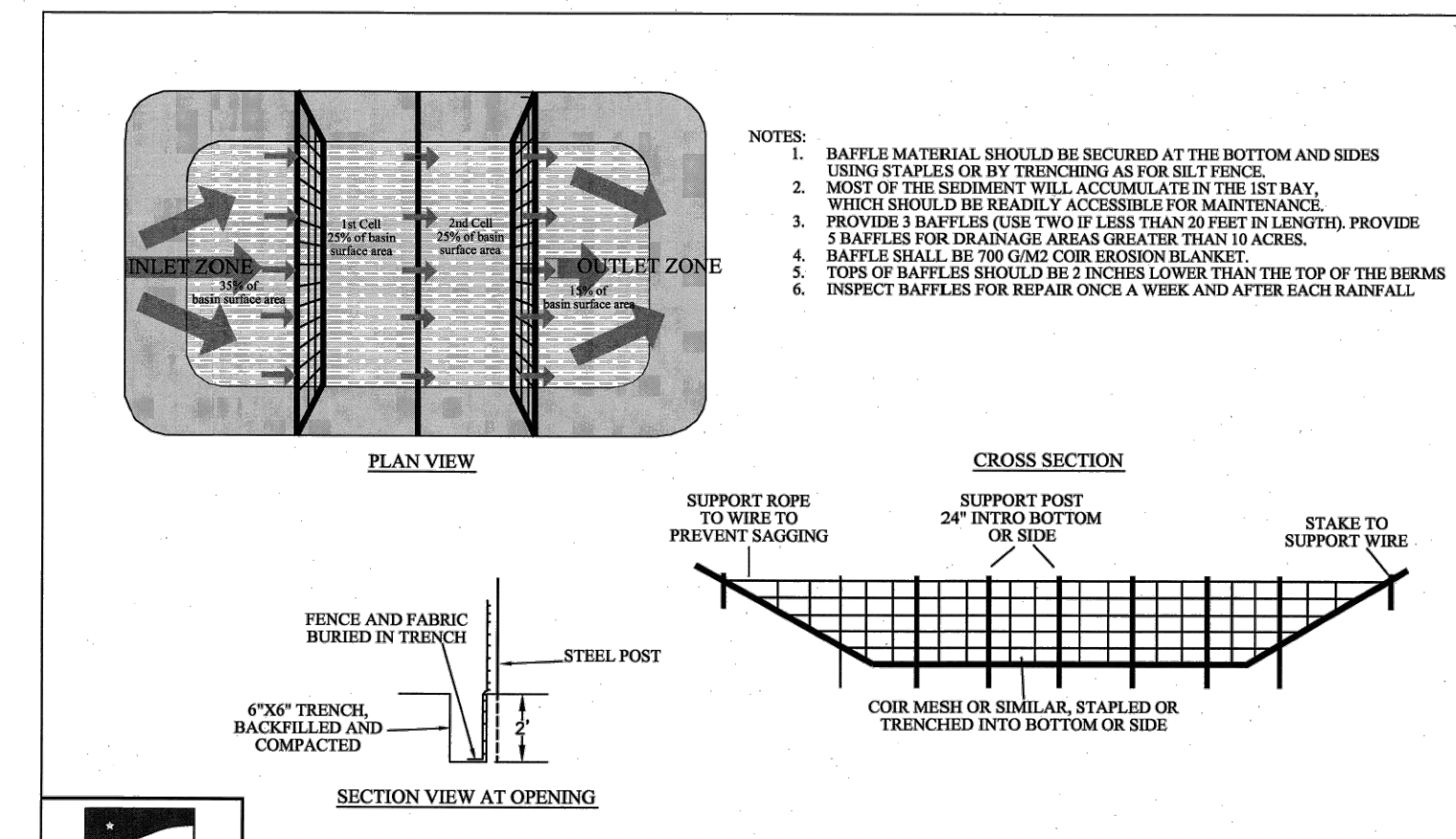
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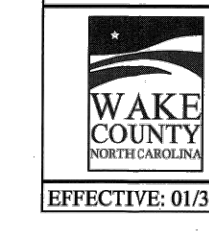
STANDARD CUSTOM BASIN



EFFECTIVE: 01/31/08



STANDARD BAFFLES DETAIL



EFFECTIVE: 01/31/08

Temporary Sediment Traps, Skimmer Sediment Basins, and Temporary Sediment Basins

Device	Type	Weir Flow		Depth to Weir (ft)	Depth Below Weir (ft)	Side Slope (x:1)	Top Length (ft)	Top Width (ft)	Skimmer Orifice	
		Weir (ft)	Depth (ft)						Size (in)	Size (in)
SSB-1	Skimmer Sediment Basin	20	0.2	1.5	2.0	3.0	92	39	2.00	1.00

Device ID	Device Type	Add'l Flow (cfs)	Disturbed Area (AC)	Tc (min)	Intensity (in/hr)*	C	Qreq (cfs)	Up Invert	Down Invert	Length (ft)	Base Width (ft)	Left Slope (x:1)	Right Slope (x:1)	Flow Depth (ft)	Manning's n	Slope (ft/ft)	Wetted Area (sf)	Wetted Perimeter (ft)	Hydraulic Radius (ft)	Velocity (ft/s)	Qa (cfs)	Qa>Qreq?	τ (lbs/ft ²)	Liner Type	Allowable Shear Stress, τ (lbs/ft ²)
TDD-1	Temporary Diversion	0.0	0.75	5	7.18	0.5	2.69	395.5	387.5	266	1	3	3	0.96	0.020	0.03008	3.75	7.30	0.51	0.72	2.69	Yes	1.808237032	N. Am. Green; Straw; 1 nets	1.55
TDD-2	Temporary Diversion	0.0	0.80	5	7.18	0.5	2.87	397.5	387.5	475	1	3	3	1.12	0.020	0.02105	4.85	7.40	0.66	0.59	2.87	Yes	1.466147893	N. Am. Green; Straw; 1 nets	1.55

*NOAA Atlas 14, NEUSE 2 NE Station, 10-yr 5-min duration intensity



WALLBROOK - LOT 7
MASS GRADING / EROSION CONTROL
Town of Rolesville Project No. CID 24-02
S Main St. / US-401 Business & Wall Creek Drive
Rolesville, Wake County, North Carolina

ARK CONSULTING GROUP PLLC
ENGINEERS & PLANNERS
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