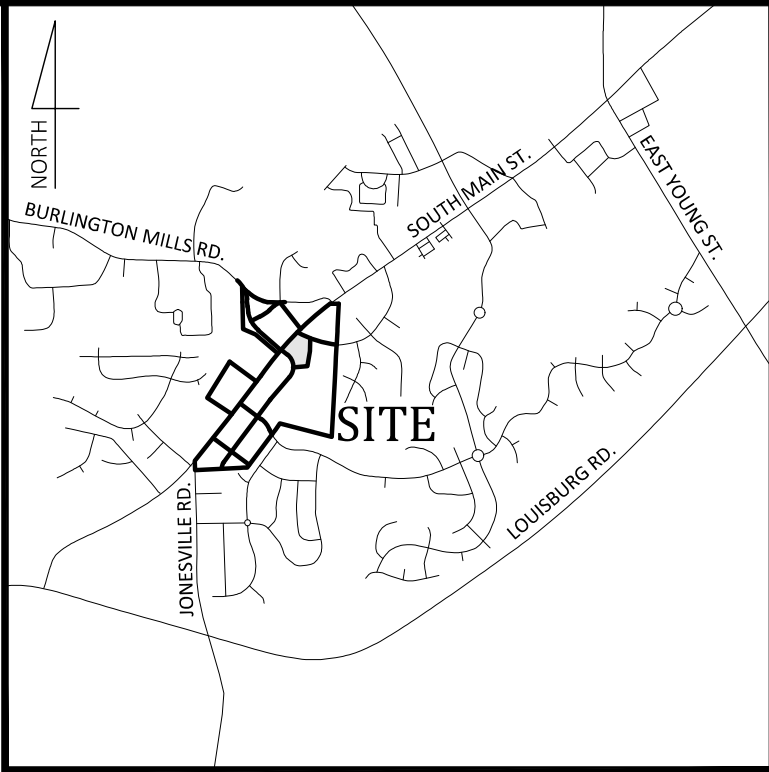


MASS GRADING / EROSION CONTROL
WALLBROOK - Lot 7

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

#	DATE	REVISIONS:	DESCRIPTION
6	18-APR-25	ISSUED FOR CONSTRUCTION	
5	11-SEP-24	REVISED PER REVIEW COMMENTS	
4	11-SEP-24	REVISED PER REVIEW COMMENTS	
3	1-JUL-24	REVISED PER REVIEW COMMENTS	
2	3-JUN-24	REVISED PER REVIEW COMMENTS	
1	1-APR-24	ISSUED FOR INITIAL REVIEW	

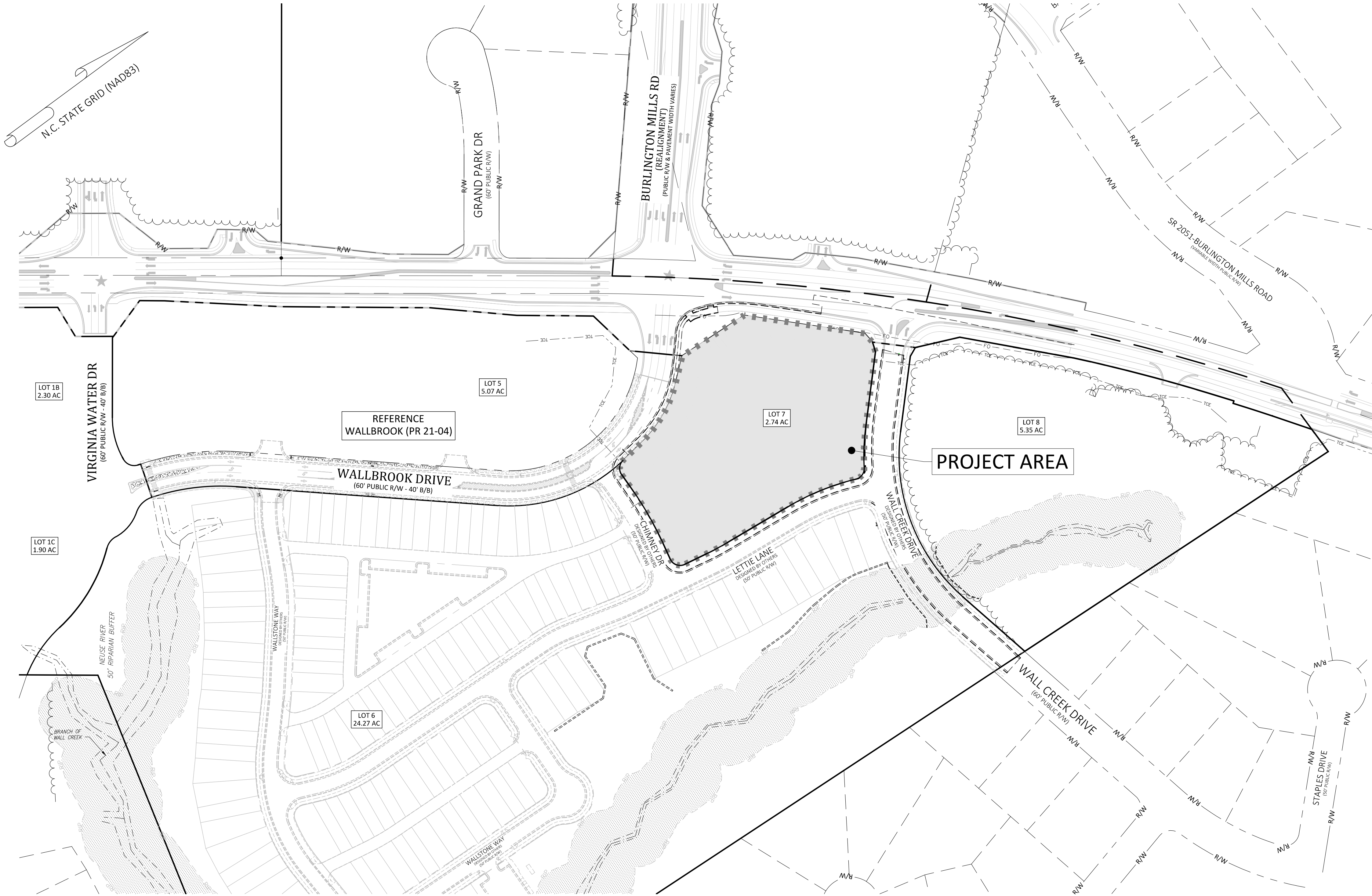
CROSLAND
SOUTHEAST

COVER
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

NC License: P-1199
ARK CONSULTING GROUP PLLC
ENGINEERS & SURVEYORS
925-A Conference Drive
Greenville, NC 27638
(757) 558-0888
www.arkconsultinggroup.com

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

C0.1
Date: April 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
△	C1.3 Erosion Control Phase 3 (Close-Out)
△	C2.1 Details
△	C2.2 Details
△ △	REF Survey - Johnson, Mirmiran & Thompson (3 Sheets)
REF	Tree Preservation Plan - PR-21-04 REVISED (1 Sheet)

Site Data △

PIN NUMBERS:	1758-57-7481
REAL ESTATE ID:	0509437
CURRENT ZONING:	GC-CZ
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

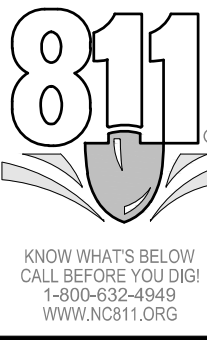
Wallbrook Landco, LLC
3 Keel St, Ste 2
Wrightsville Beach, NC

Engineer

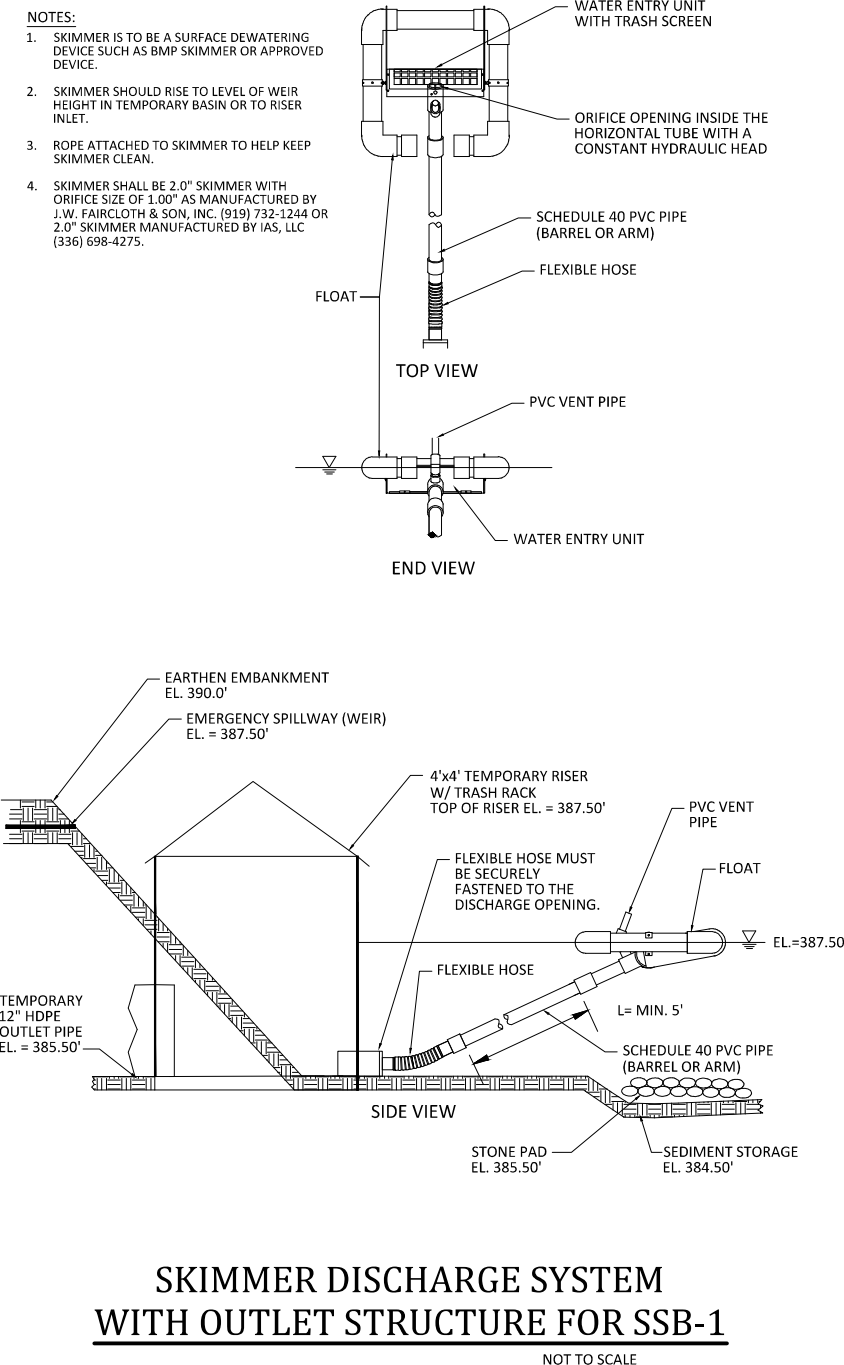
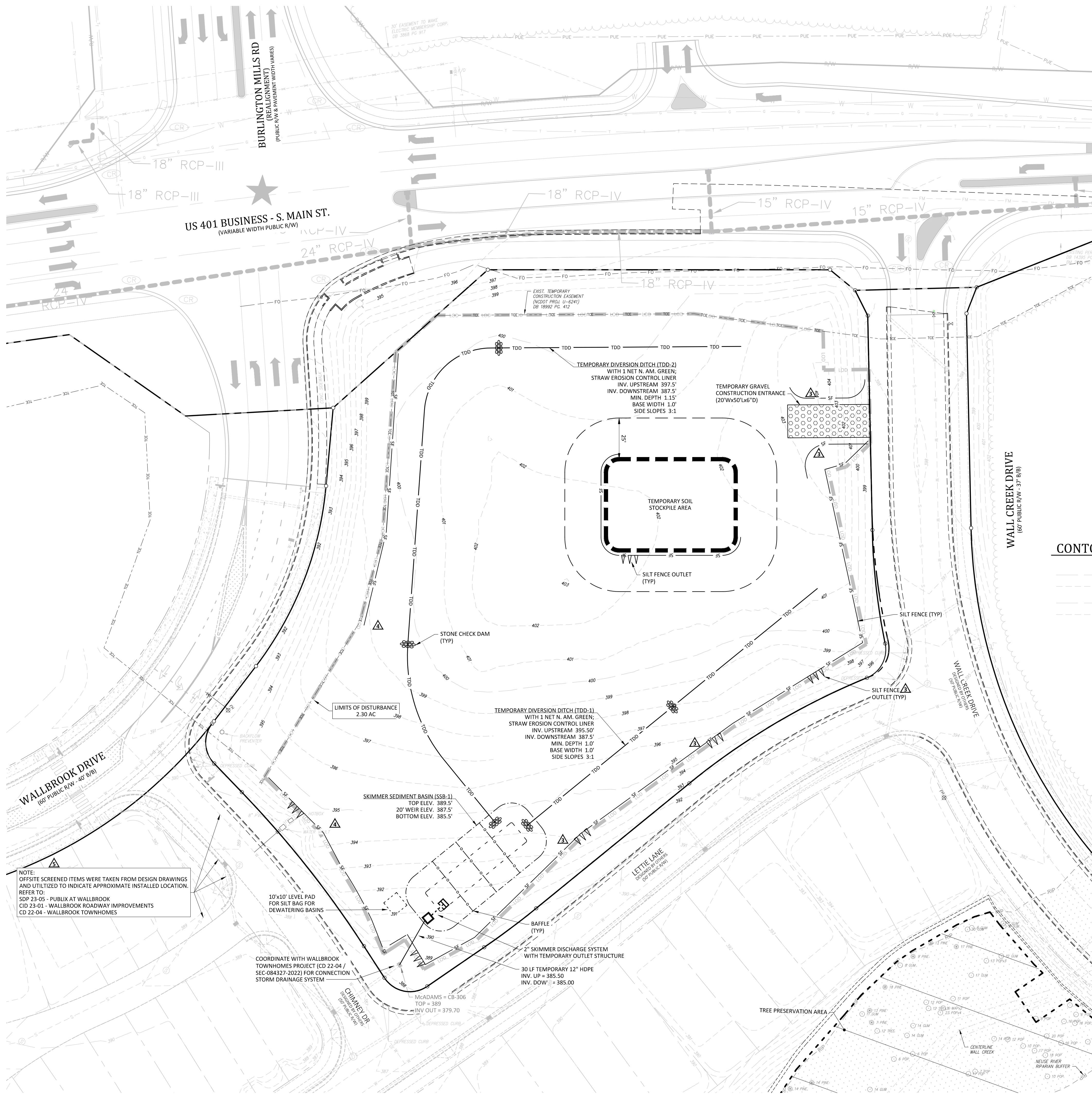
Ark Consulting Group, PLLC
925-A Conference Drive
Greenville, NC
Contact: Bryan C. Fagundus, PE

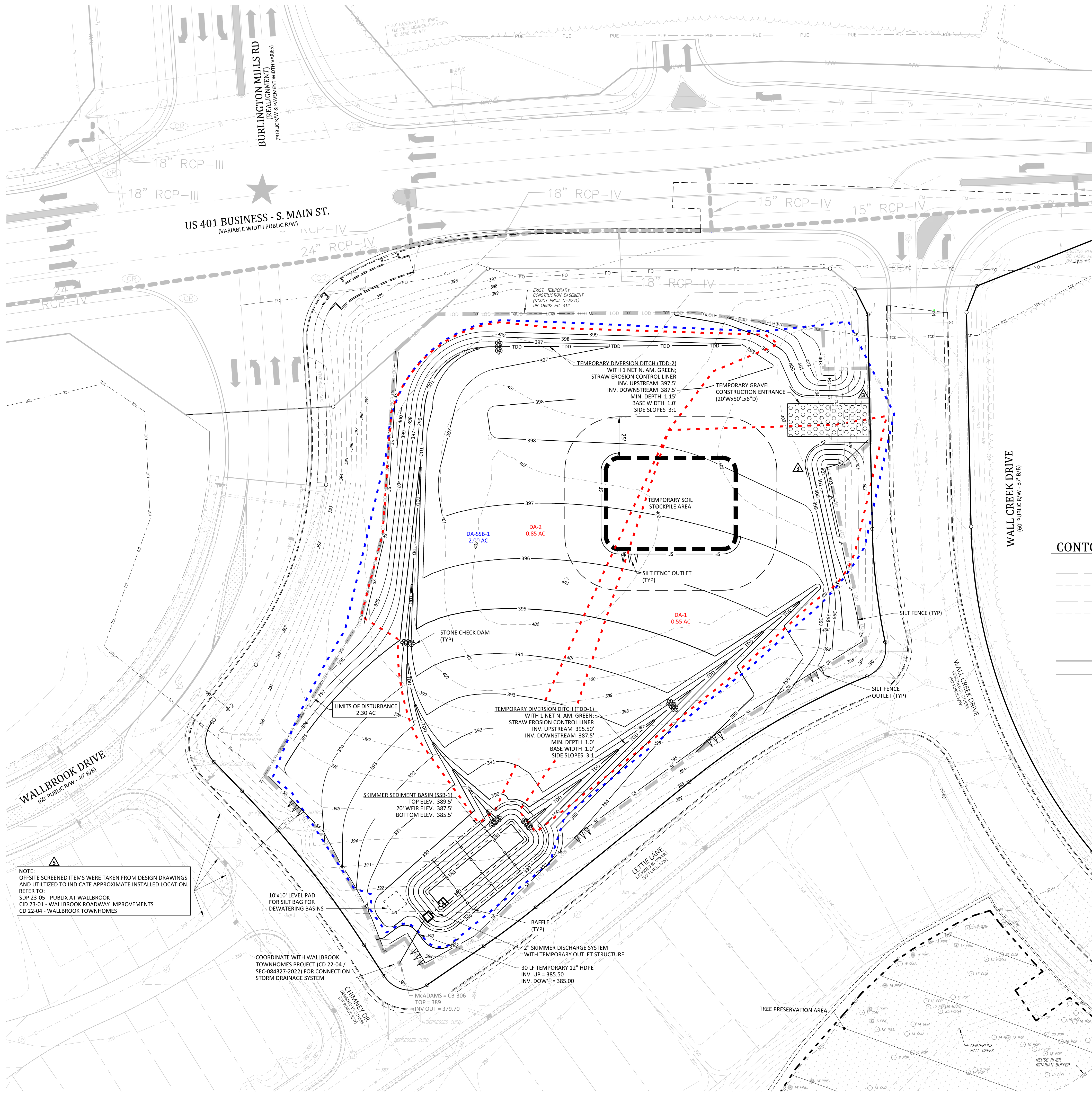
EROSION CONTROL, STORMWATER
AND FLOODPLAIN MANAGEMENT
APPROVED
EROSION CONTROL ☒ SEC-121765-2024
STORMWATER MGMT. ☒ SWF-145044-2025
FLOOD STUDY ☐
DATE 04/28/2025

CID-24-02 / Construction Infrastructure Drawings /
Wallbrook Lot 7
APPROVED
Date: April 18, 2025
Bryan C. Fagundus
Town of Rolesville Planning Department



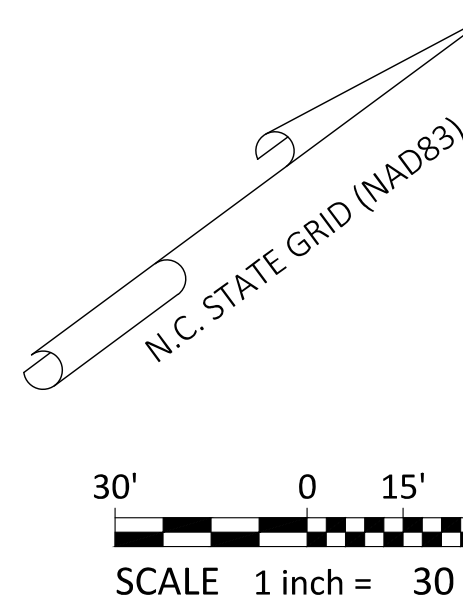
Date: April 1, 2024





CONTOUR LEGEND

- | | |
|--|------------------------|
| | EXISTING INDEX CONTOUR |
| | EXISTING CONTOUR |
| | *DESIGN INDEX CONTOUR |
| | *DESIGN CONTOUR |
| DESIGN CONTOURS UTILIZED TO INDICATE APPROXIMATE INSTALLED GRADES OF SURROUNDING ROADWAYS. REFER TO: PUBLIC AT WALLBROOK (SDP 23-05 / CID 23-01) ARK CONSULTING GROUP WALLBROOK TOWNHOMES (CD 22-04) MCADAMS CO. | |
| | PROPOSED INDEX CONTOUR |
| | PROPOSED CONTOUR |



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Charlotte, NC 28203
(704) 558-0888
www.arkconsultinggroup.com

4/11/2025

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

C1.2

Date: April 1, 2024

EROSION CONTROL PHASE 2 & MASS GRADING PLAN

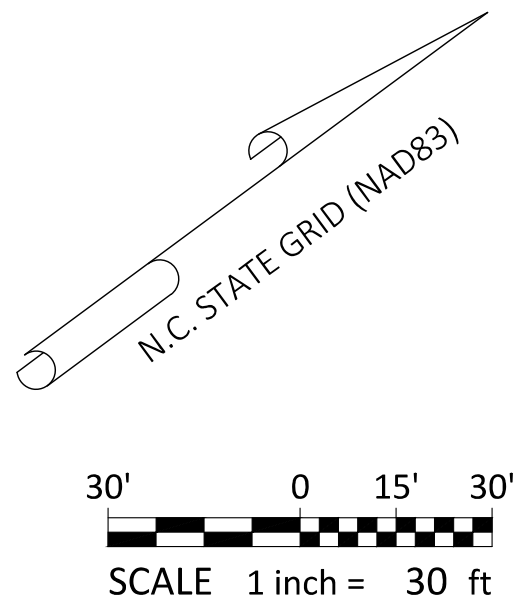
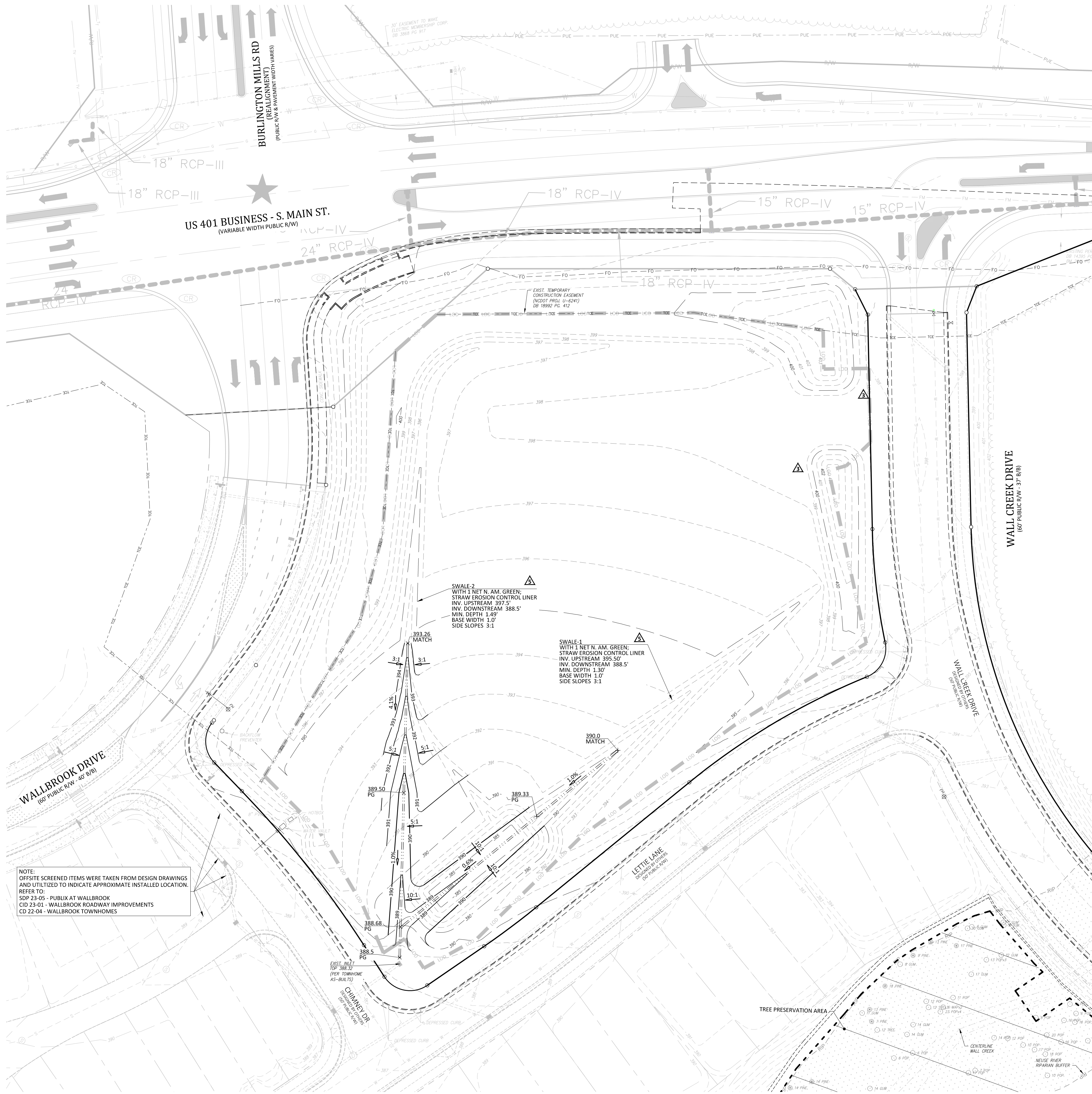
WALLBROOK - LOT 7 MASS GRADING / EROSION CONTROL

Town of Rolesville Project No. CID 24-02

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



REVISED	DATE	DESCRIPTION
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4	11-SEP-22	REVISED PER REVIEW COMMENTS
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4/11/2025

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

C1.3

Date: April 1, 2024

EROSION CONTROL PHASE 3 (CLOSE-OUT)

WALLBROOK - LOT 7

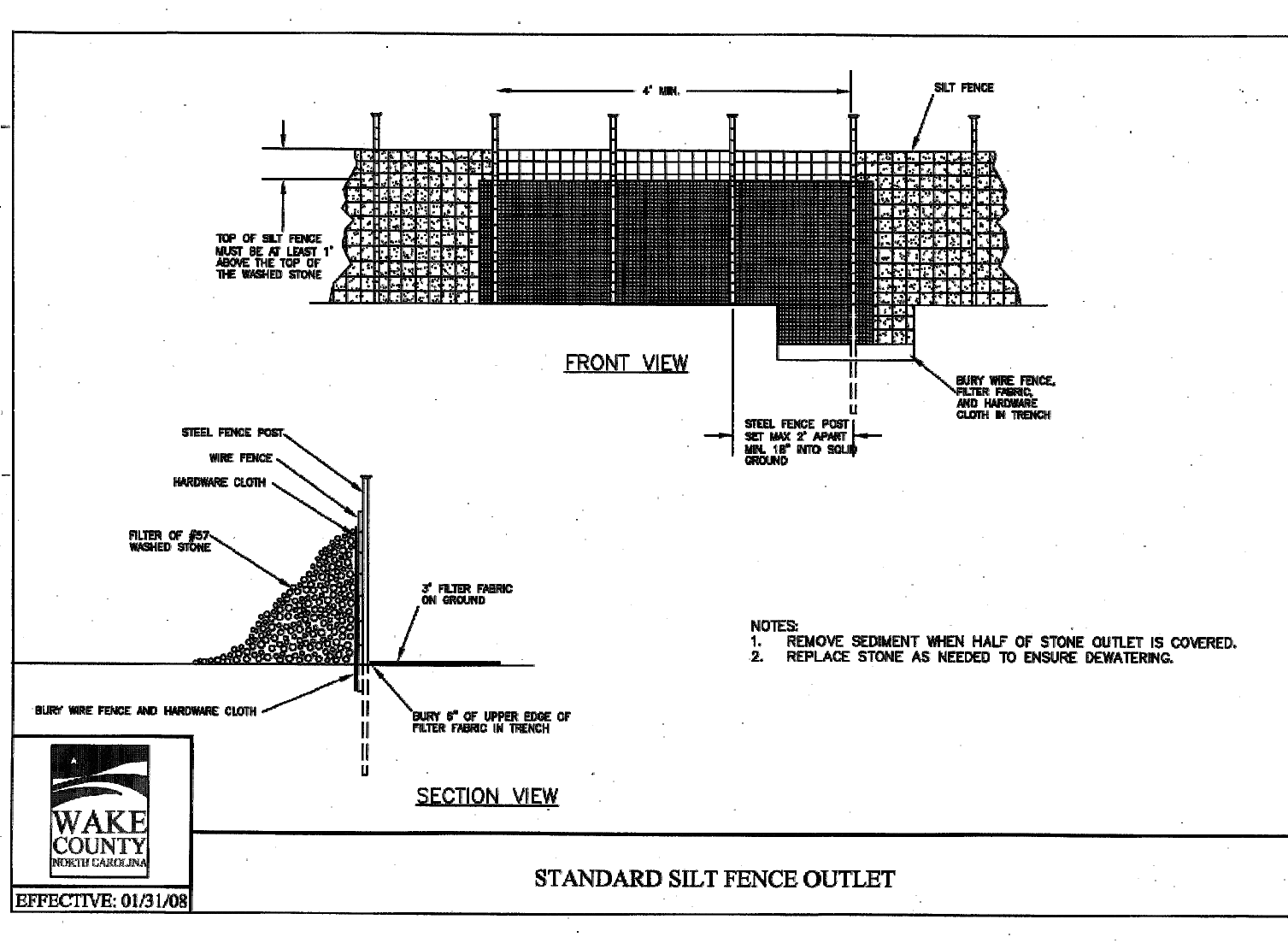
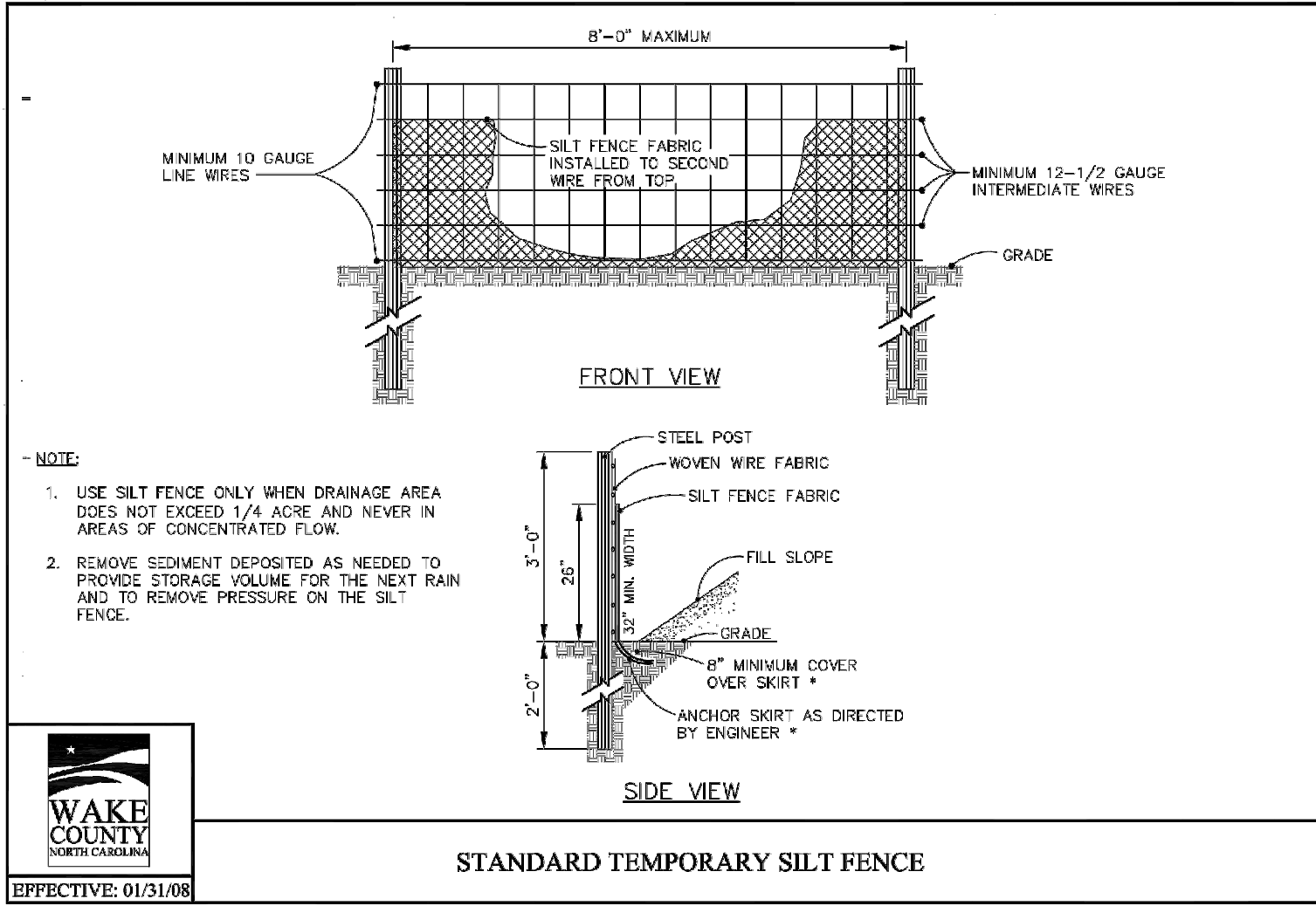
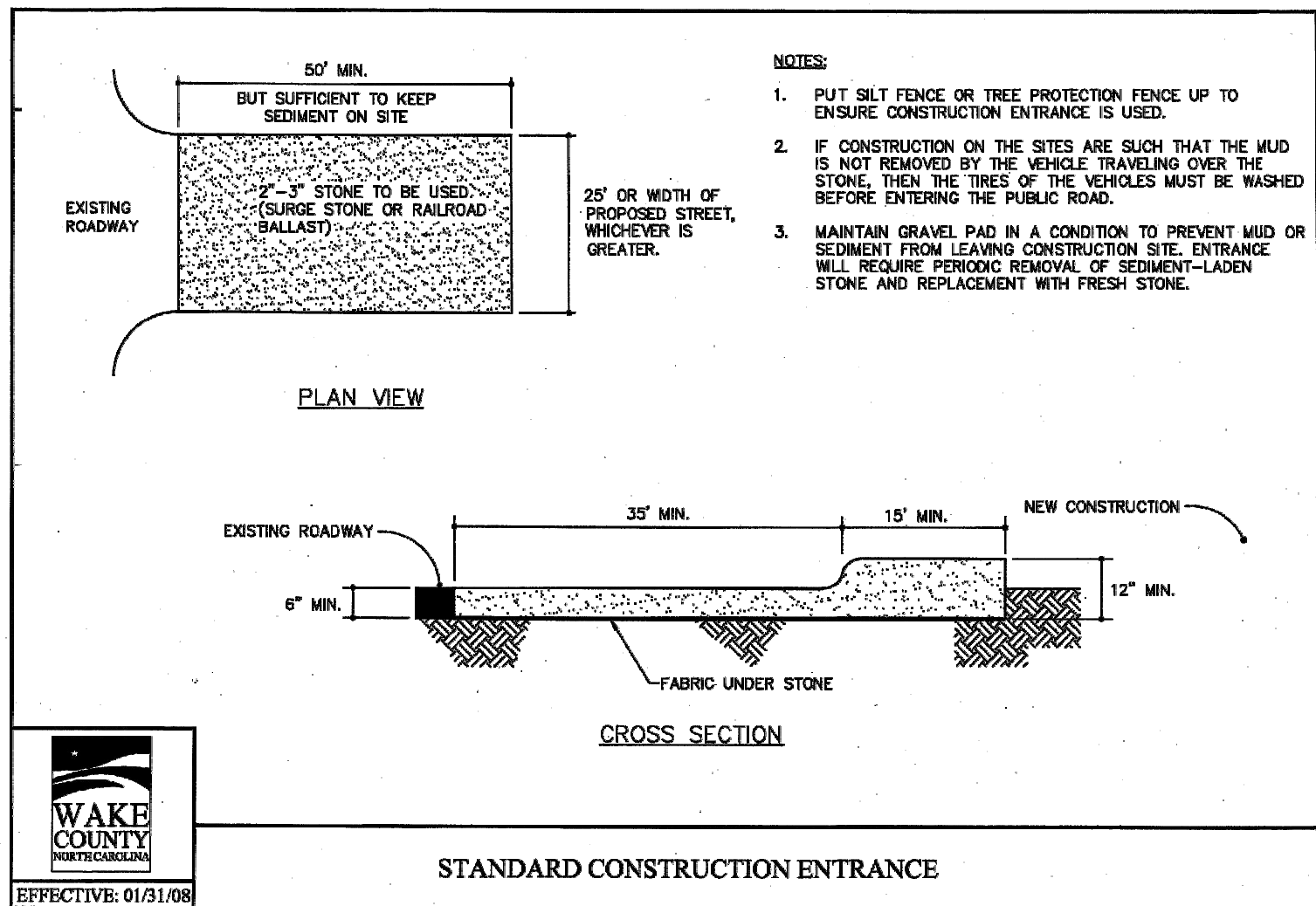
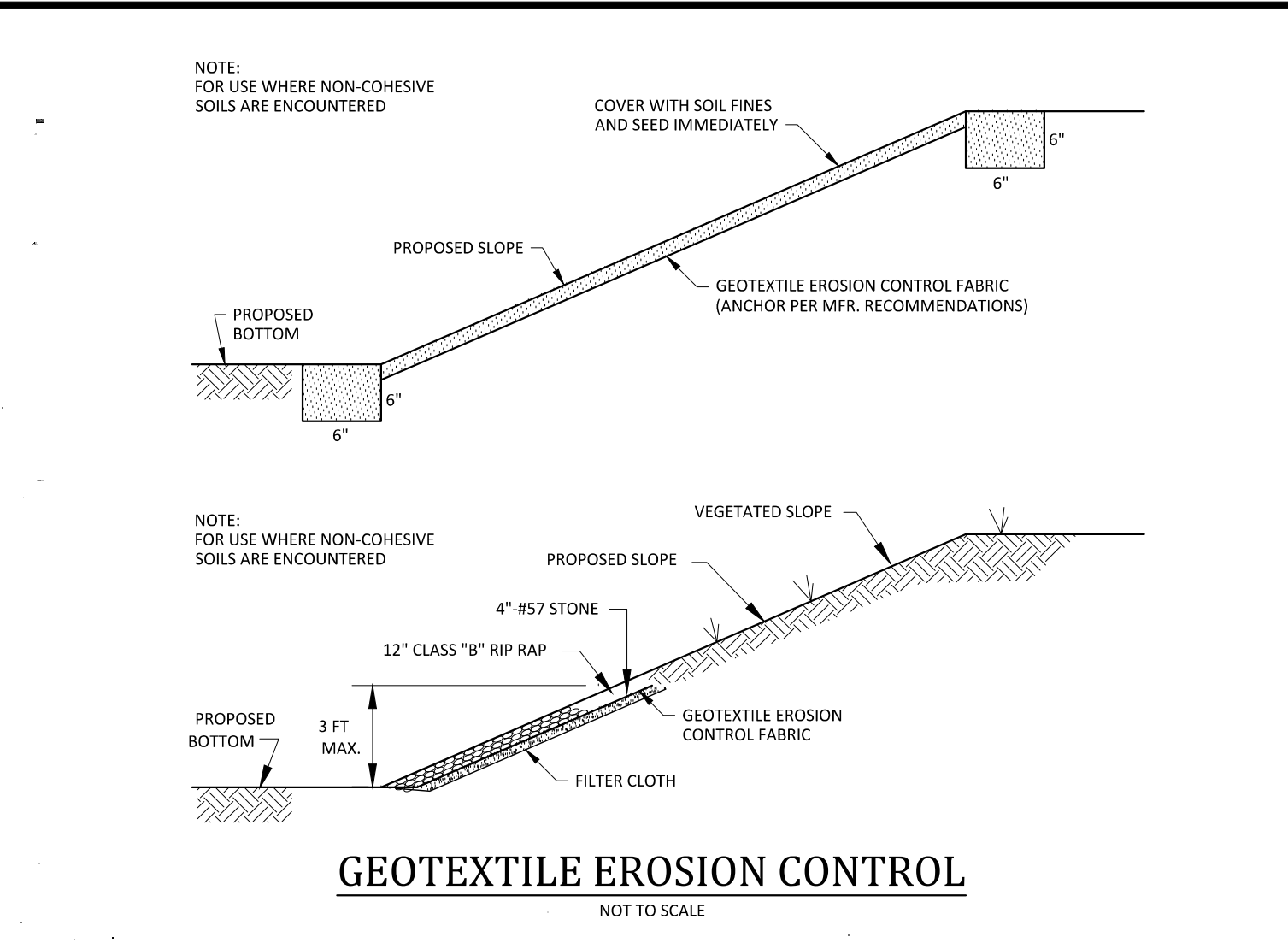
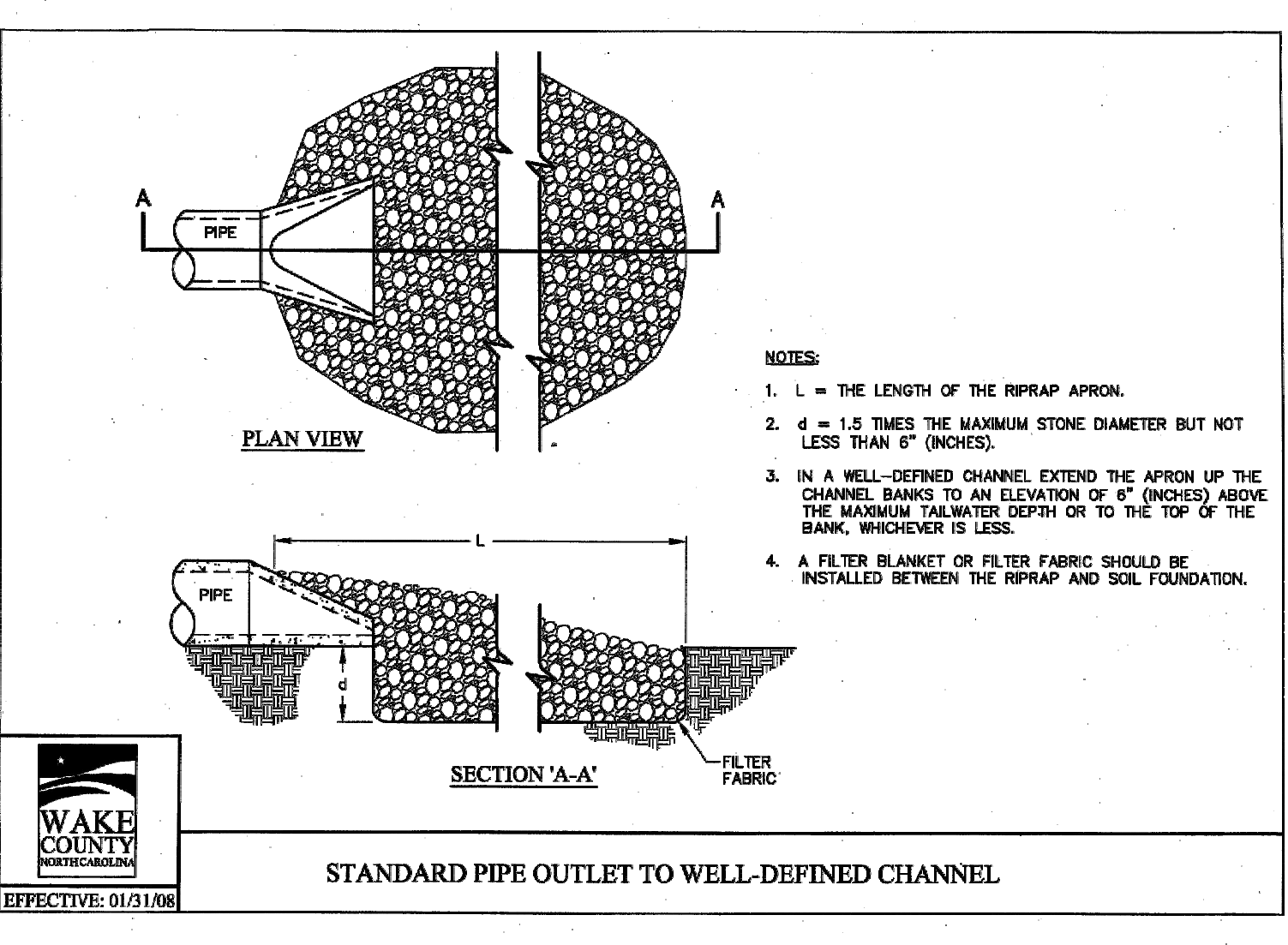
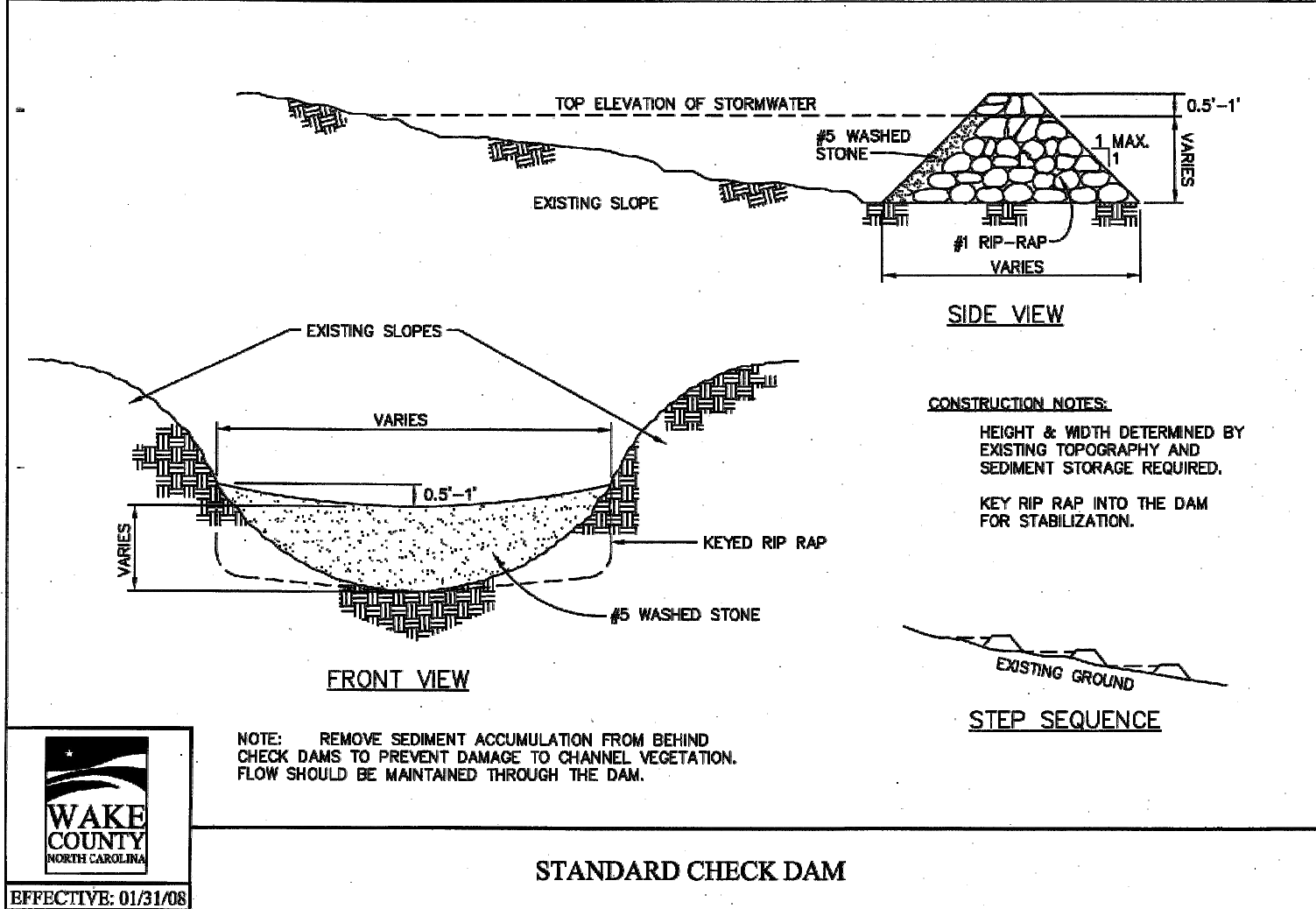
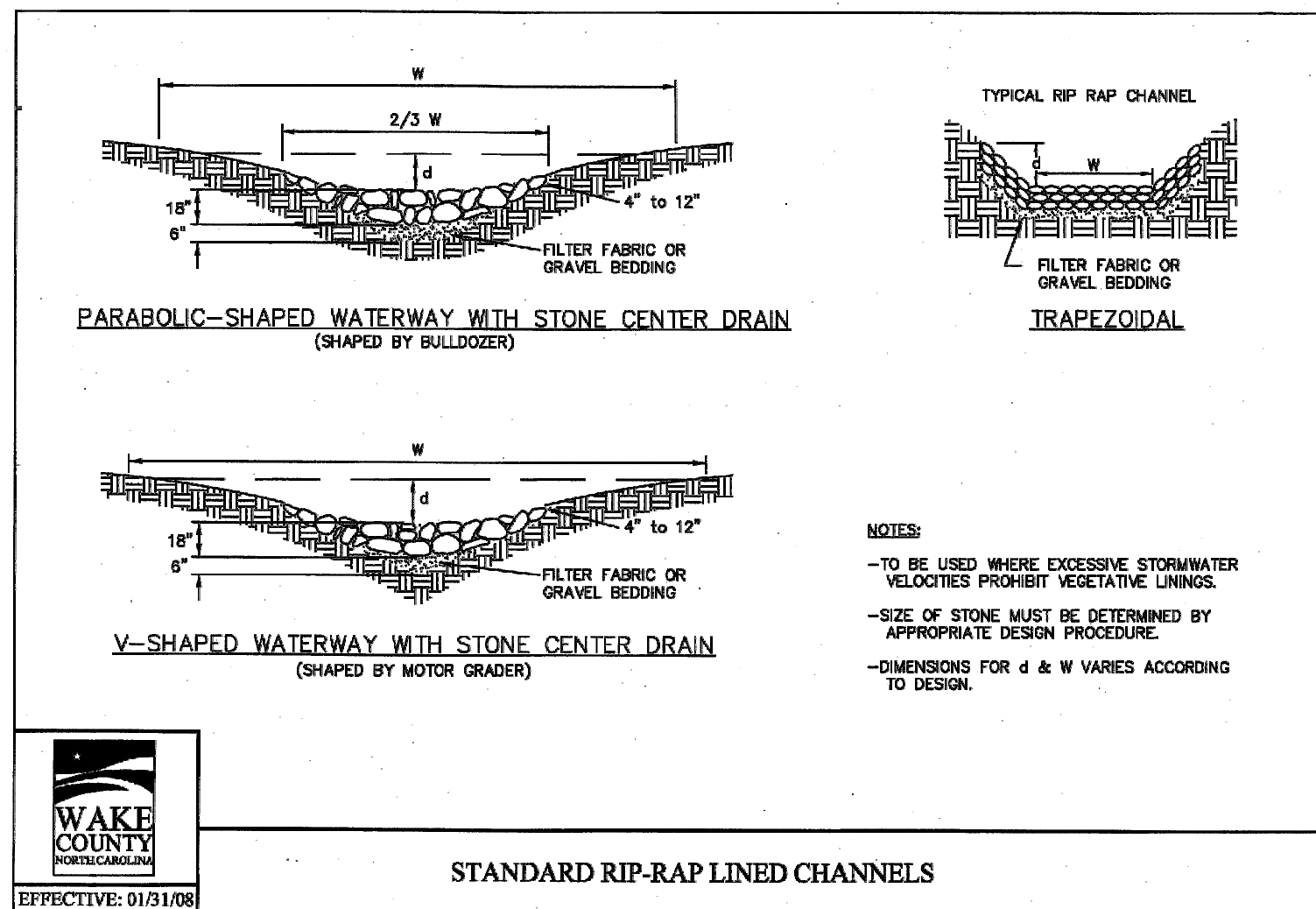
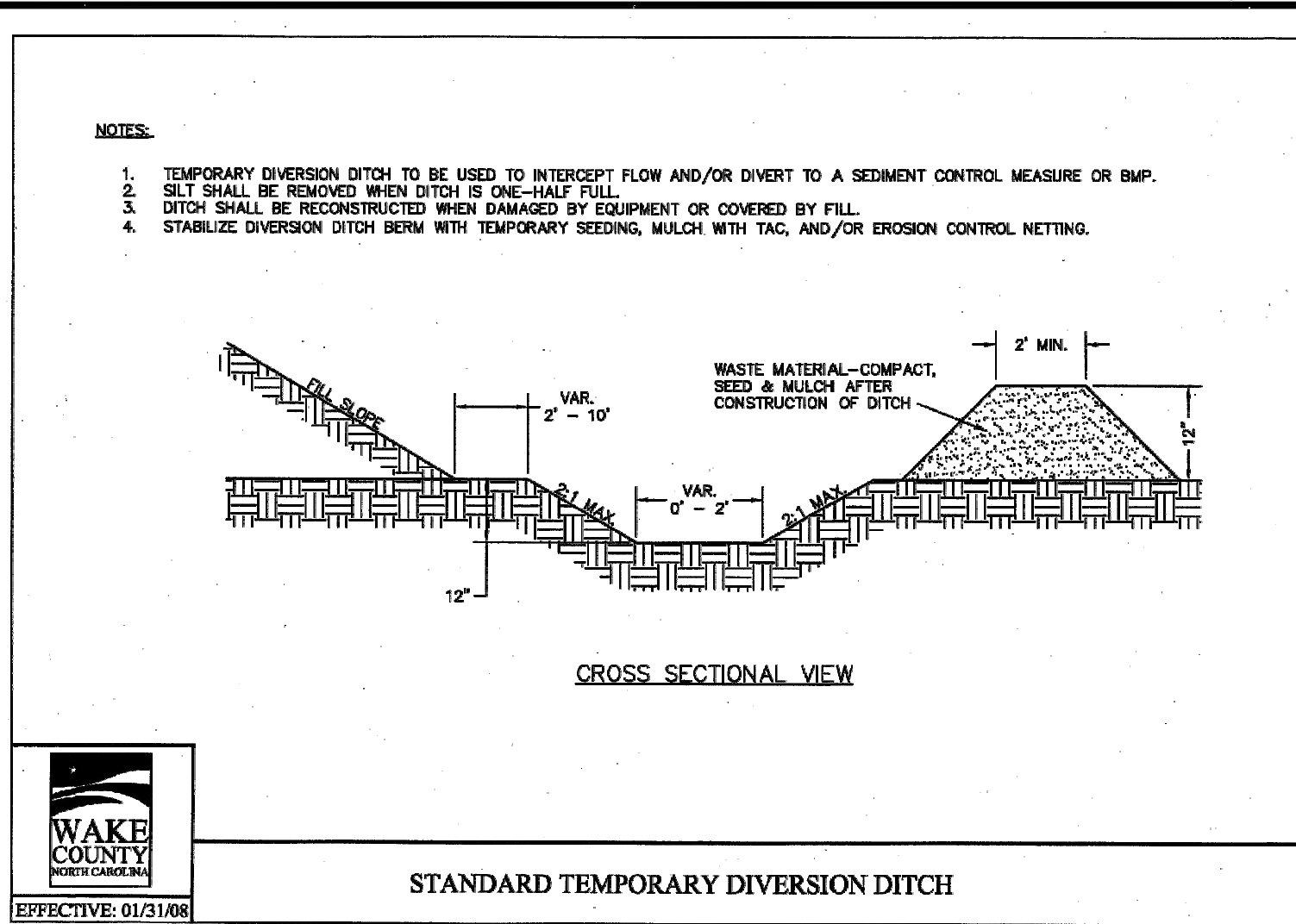
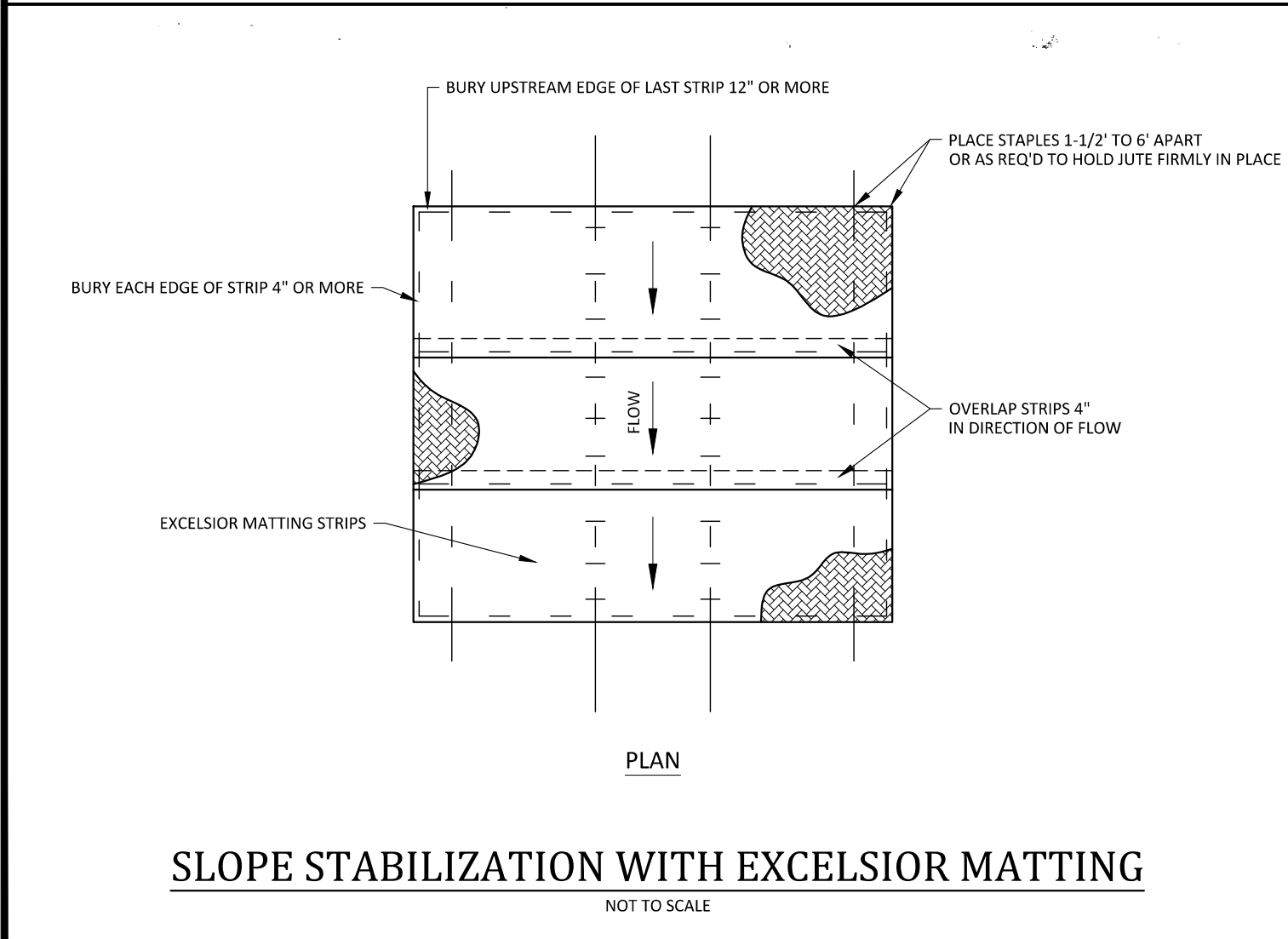
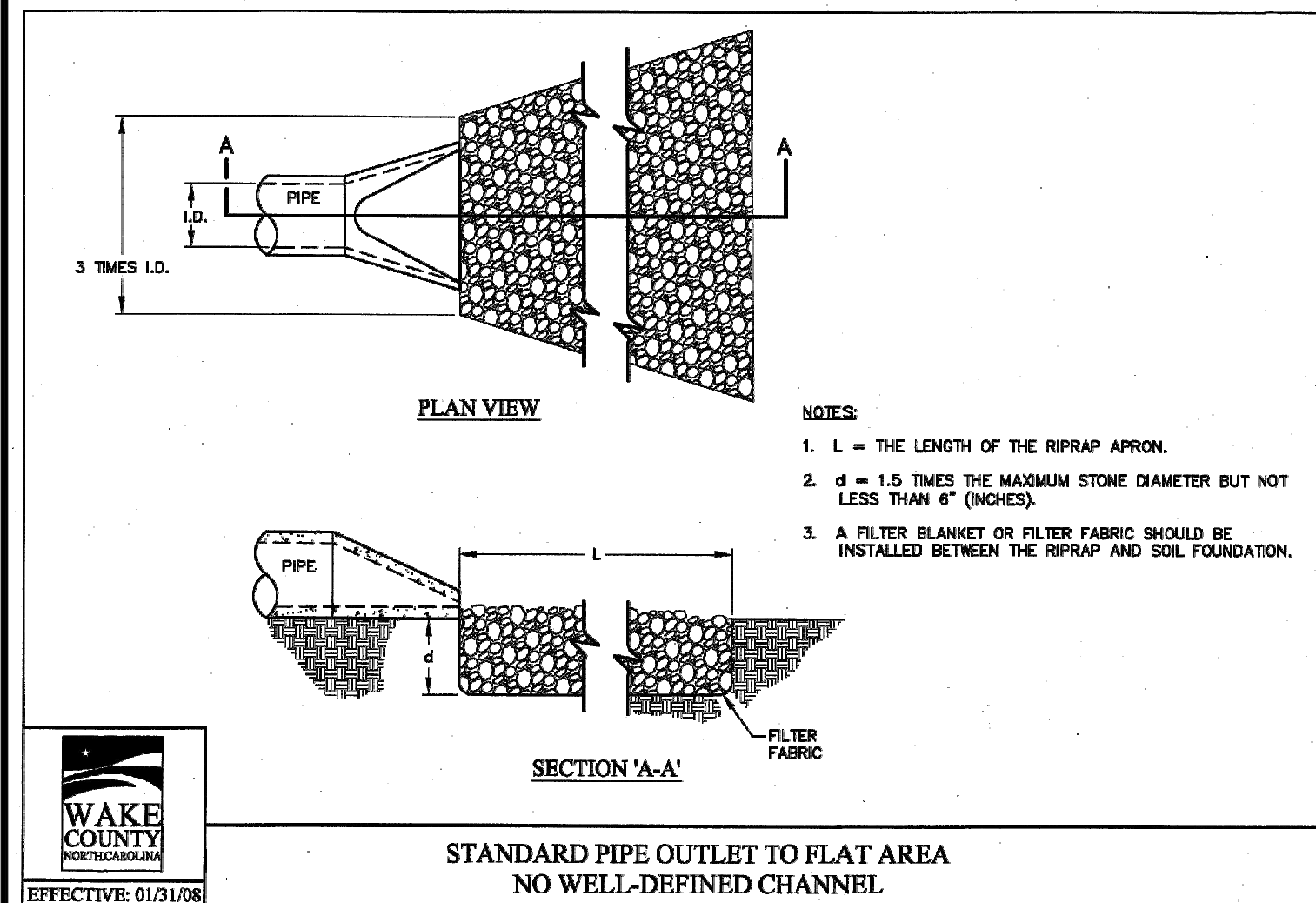
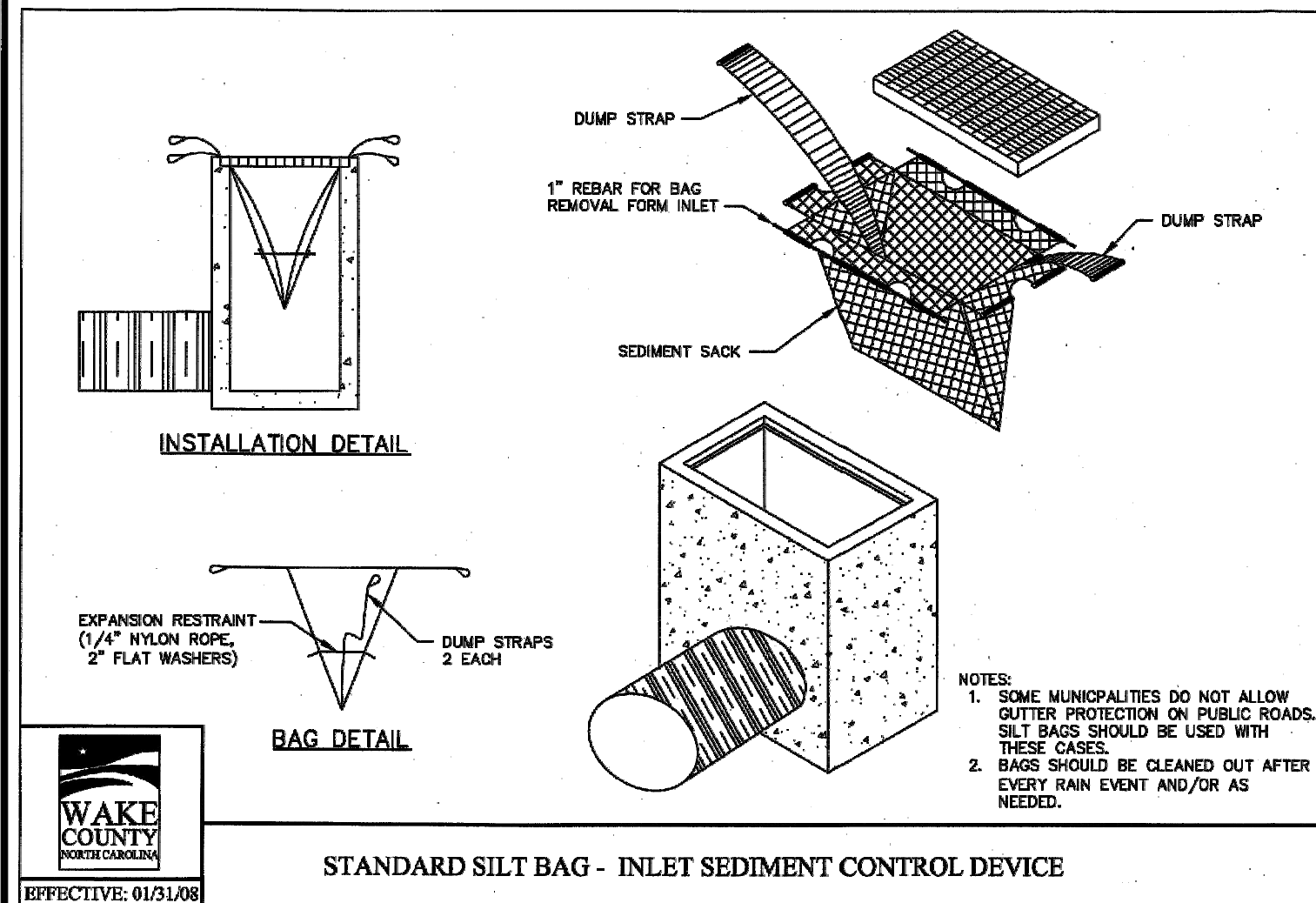
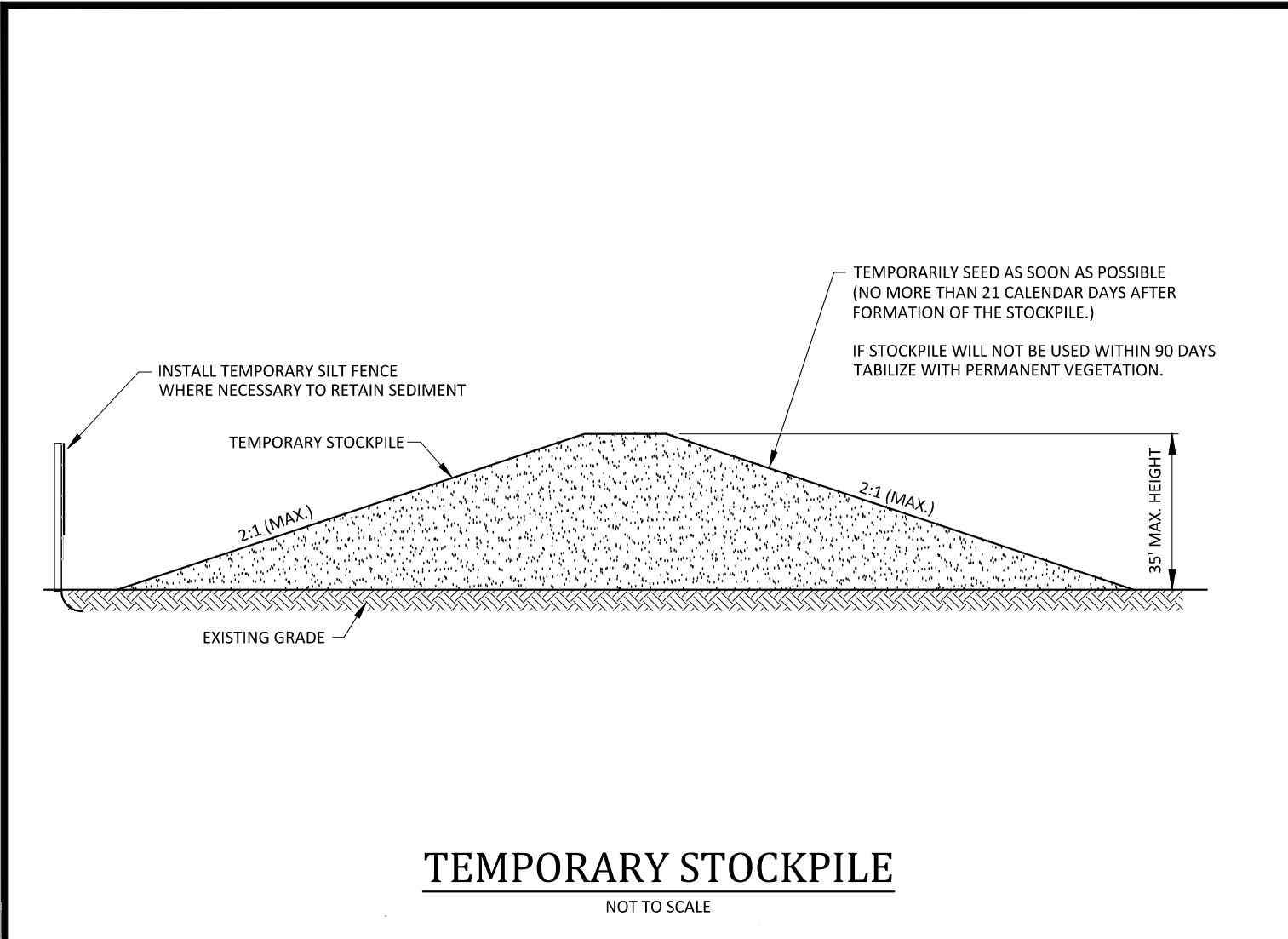
MASS GRADING / EROSION CONTROL

Town of Rolesville Project No. CID 24-02

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



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Effective September 1, 2008
Soil stockpiles shall be located on the approved plan and shall adhere to the following requirements:

- Design Criteria**
- A 25-foot temporary maintenance and access easement shall be shown around all proposed stockpiles (erosion control measures surrounding the stockpile shall be shown at the outer limit of this easement).
 - Stockpile footprints shall be setback a minimum of 25' from adjacent property lines.
 - A note shall be provided on the approved plan that stockpile height shall not exceed 35 feet.
 - Stockpile slopes shall be 2:1 or flatter.
 - Approved BMPs shall be shown on a plan to control any potential sediment loss from a stockpile.
 - Stockpiling materials adjacent to a ditch, drainage, watercourse, wetland, stream, buffer, or other body of water shall be avoided unless an alternative location is demonstrated to be unavailable.
 - Any concentrated flow likely to affect the stockpile shall be diverted to an approved BMP.
 - Off-site spoil or borrow areas must be in compliance with Wake County LDO and State Regulations. All spoil areas over an acre are required to have an approved sediment control plan. Developer/Contractor shall notify Wake County of any off-site disposal of soil, prior to disposal. Fill of FEMA Floodways and Non-encroachment Areas are prohibited except as otherwise provided by subsection 14-19-2 of the Wake County Unified Development Ordinance (certifications and permits required).

- Maintenance Requirements to be Noted on the Plan**
- Seeding or covering stockpiles with turps or mulch is required and will reduce erosion problems. Turps should be keyed in at the top of the slope to keep water from running underneath the plastic.
 - If a stockpile is to remain for future use after the project is complete (buildings, etc.), the financial responsible party must notify Wake County of a new responsible party for that stockpile.
 - The approved plan shall provide for the use of staked seeding and mulching on a continual basis while the stockpile is in use.
 - Establish and maintain a vegetative buffer at the toe of the slope (where practical).

Seeding Specifications

NPDES Stormwater Discharge Permit for Construction Activities (NGO1 - 4/1/19)
NCDEQ/Division of Energy, Mineral and Land Resources

Site Area Description	Seeding Rate (lbs/acre)	Seeding Method
1. Open Areas	125	Hand
2. Slopes 3:1 or flatter	125	Hand
3. Slopes 2:1 or steeper	125	Hand
4. Slopes 1.5:1 or steeper	125	Hand
5. Slopes 1:1 or steeper	125	Hand
6. Slopes 0.5:1 or steeper	125	Hand
7. Slopes 0.25:1 or steeper	125	Hand
8. Slopes 0.1:1 or steeper	125	Hand
9. Slopes 0.05:1 or steeper	125	Hand
10. Slopes 0.025:1 or steeper	125	Hand
11. Slopes 0.01:1 or steeper	125	Hand
12. Slopes 0.005:1 or steeper	125	Hand
13. Slopes 0.0025:1 or steeper	125	Hand
14. Slopes 0.001:1 or steeper	125	Hand
15. Slopes 0.0005:1 or steeper	125	Hand
16. Slopes 0.00025:1 or steeper	125	Hand
17. Slopes 0.0001:1 or steeper	125	Hand
18. Slopes 0.00005:1 or steeper	125	Hand
19. Slopes 0.000025:1 or steeper	125	Hand
20. Slopes 0.00001:1 or steeper	125	Hand

Seeded Preparation:

- Chisel compacted areas and spread topsoil three inches deep over adverse soil conditions, if available.
- Rip the entire area to six inches deep.
- Remove all loose rock, roots and other obstructions, leaving surface reasonably smooth and uniform.
- Apply agricultural lime, fertilizer and superphosphate uniformly and mix with soil (see mixture below).
- Continue tillage until a well-pulverized, firm, reasonably uniform seedbed is prepared four to six inches deep.
- Seed on a freshly prepared seedbed and cover seed lightly with seeding equipment or outcrop after seeding.
- Mulch immediately after seeding and anchor mulch.
- 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 time, fertilizer and seeding rates.
- Consult Wake County Soil & Water or NC State Cooperative Extension on maintenance treatment and fertilization after permanent cover is established.

Mixture	Amount
Agricultural Limestone	2 tons/acre (3 tons/acre in clay soils)
Fertilizer	1,000 lbs/acre - 10-10-10
Superphosphate	500 lbs/acre - 20% analysis
Mulch	2 tons/acre - small grain straw
Anchor	Asphalt emulsion at 400 gals/acre

Seeding Schedule

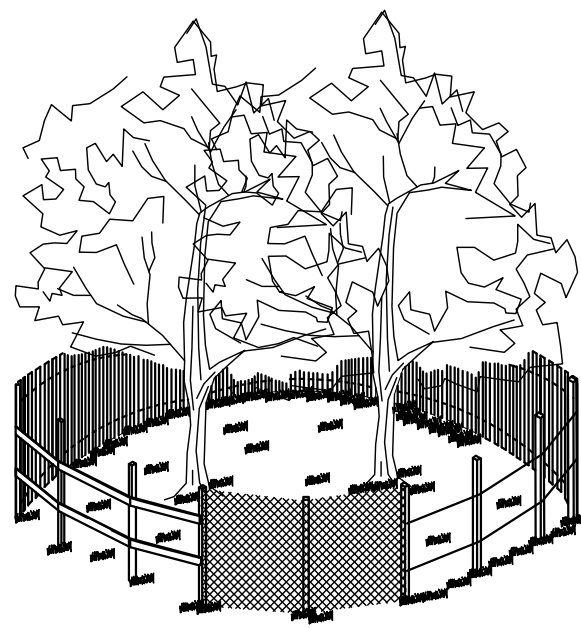
Date	Type	Planting Rate
Aug 15 - Nov 1	Tall Fescue	300 lbs/acre
Nov 1 - Mar 1	Tall Fescue & Abruzzi Rye	300 lbs/acre
Mar 1 - Apr 15	Tall Fescue	300 lbs/acre
Apr 15 - Jun 30	Hulled Common Bermudagrass	25 lbs/acre
Jul 1 - Aug 15	Tall Fescue AND Browntop Millet or Sorghum-Sudan Hybrids**	125 lbs/acre (Tall Fescue); 35 lbs/acre (Browntop Millet); 30 lbs/acre (Sorghum-Sudan Hybrids)

For Shoulders, Side Ditches, Slopes (3:1 to 2:1):

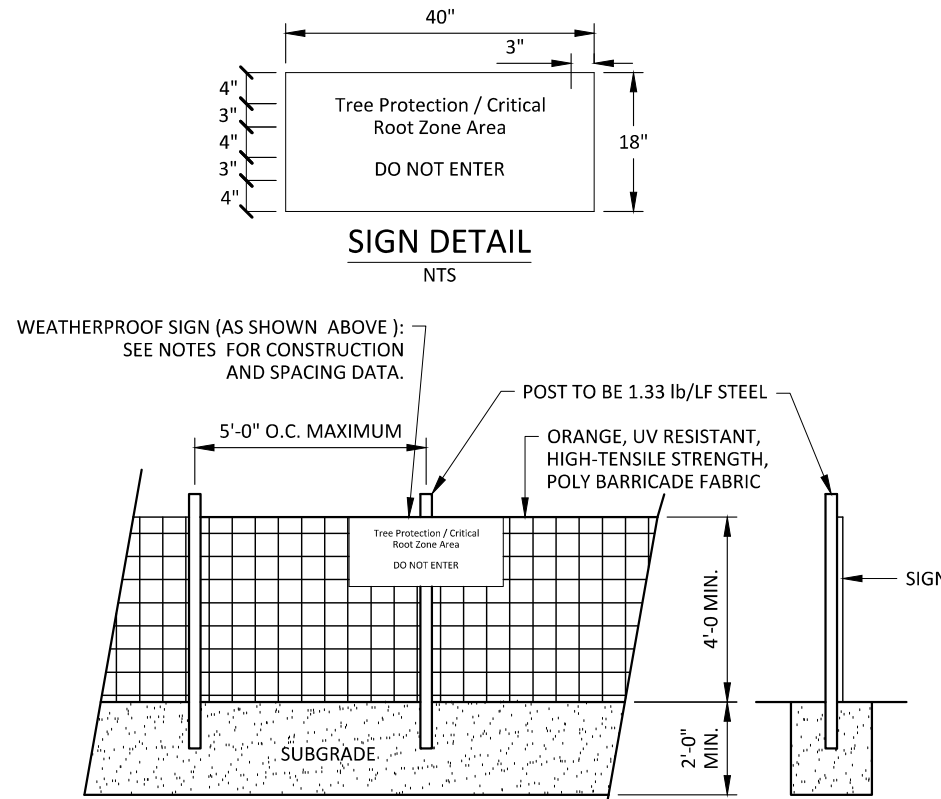
Date	Type	Planting Rate
Mar 1 - Jun 1	Sericea Lespedeza (scarified) and use the following combinations:	50 lbs/acre (Sericea Lespedeza);
Mar 1 - Apr 15	Add Tall Fescue	120 lbs/acre
Mar 1 - Jun 30	Or add Weeping Love grass	10 lbs/acre
Mar 1 - Jun 30	Or add Hulled Common Bermudagrass	25 lbs/acre
Jun 1 - Sept 1	Tall Fescue AND Browntop Millet or Sorghum-Sudan Hybrids**	120 lbs/acre (Tall Fescue); 35 lbs/acre (Browntop Millet); 30 lbs/acre (Sorghum-Sudan Hybrids)
Sept 1 - Mar 1	Sericea Lespedeza (unhulled - unscarified) AND Tall Fescue	70 lbs/acre (Sericea Lespedeza); 120 lbs/acre (Tall Fescue)
Nov 1 - Mar 1	AND Abruzzi Rye	25 lbs/acre

Consult Wake County Soil & Water Conservation District or NC State Cooperative Extension for additional information concerning other alternatives for vegetation of denuded areas. The above vegetation rates are those that do well under local conditions, other seeding rate combinations are possible.

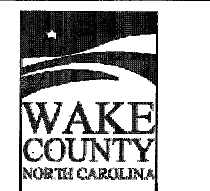
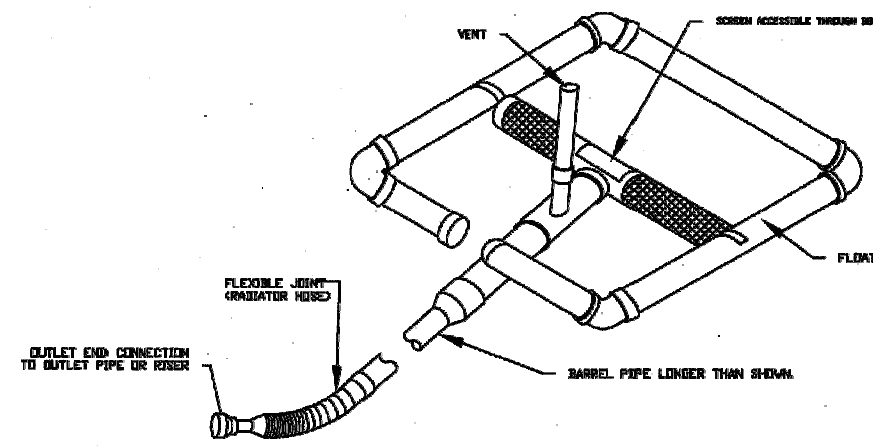
*** TEMPORARY: Reseed according to optimum season for desired permanent vegetation. Do not allow temporary cover to grow more than 12" in height before mowing, otherwise, fescue may be shaded out.



- 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 DETAILLED.
 6. INSTALL TREE PROTECTION FENCE & SIGNAGE PRIOR TO CALLING FOR THE INITIAL ON-SITE INSPECTION BY A NC DENR INSPECTOR. MAINTAIN TREE PROTECTION FENCE THROUGHOUT DURATION OF PROJECT. ADDITIONAL SIGNS MAY BE REQUIRED BY NC DENR BASED ON ACTUAL FIELD CONDITIONS.

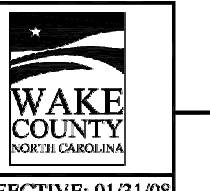
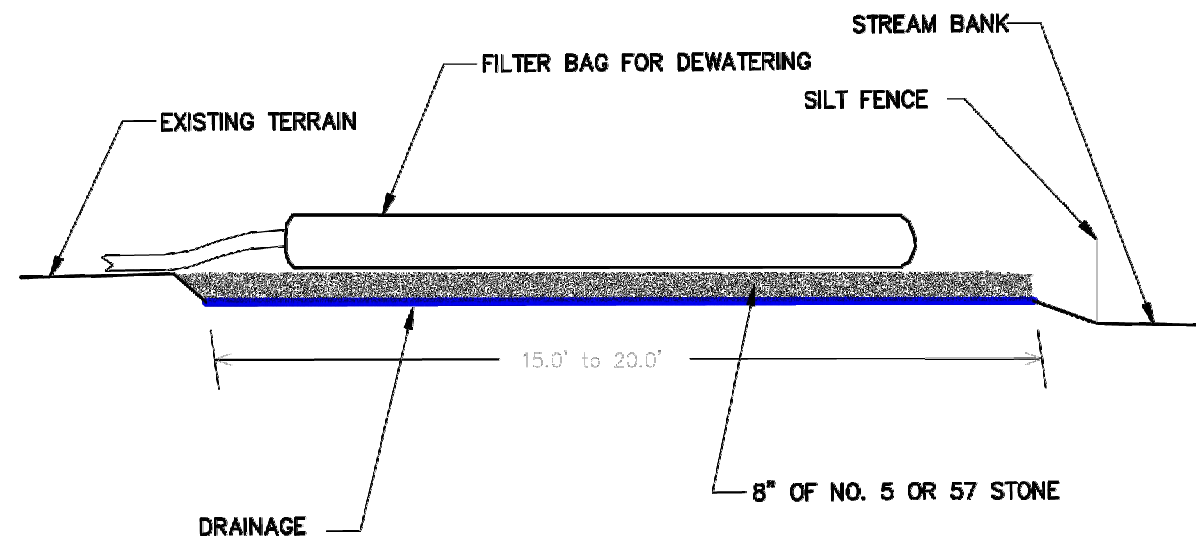


TREE PROTECTION FENCE
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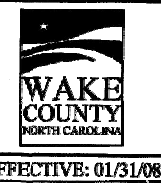
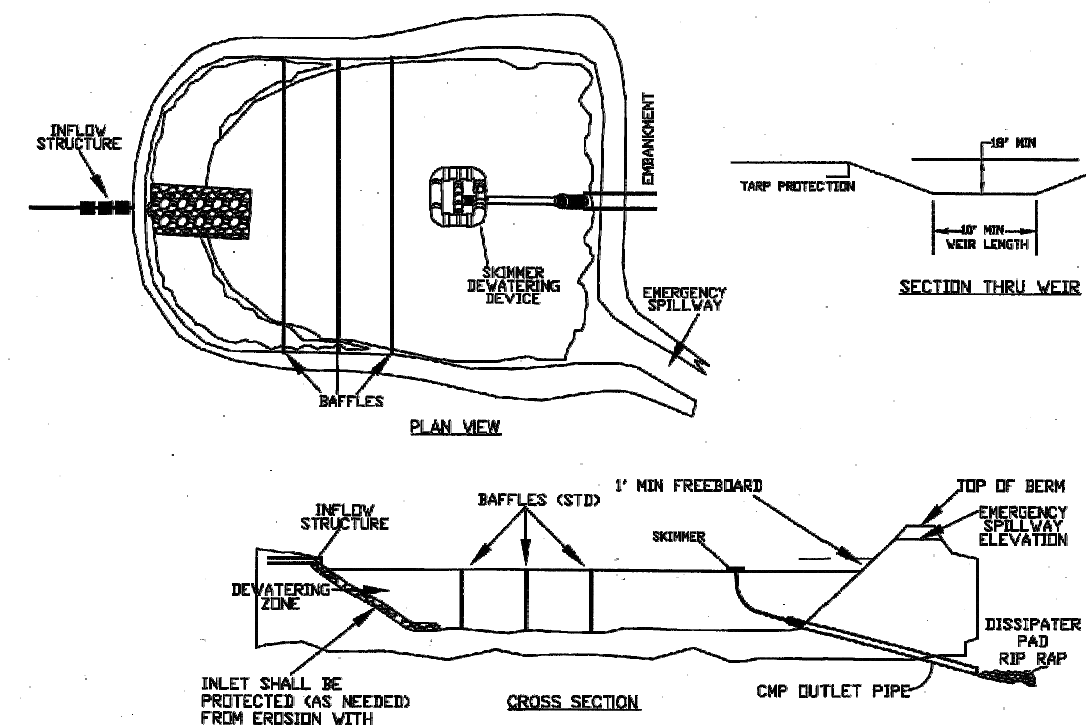
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STANDARD SKIMMER DETAIL



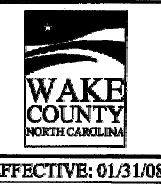
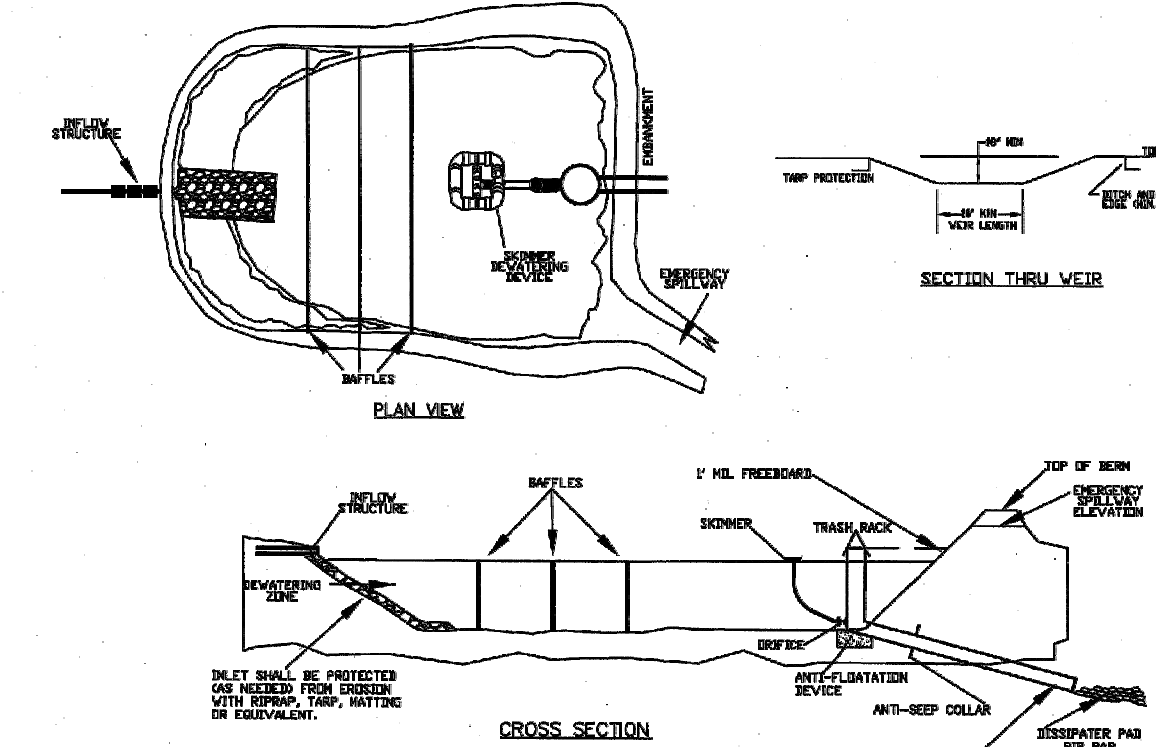
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STANDARD FILTER BAG FOR DEWATERING ACTIVITIES
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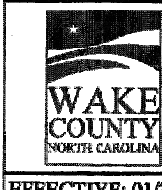
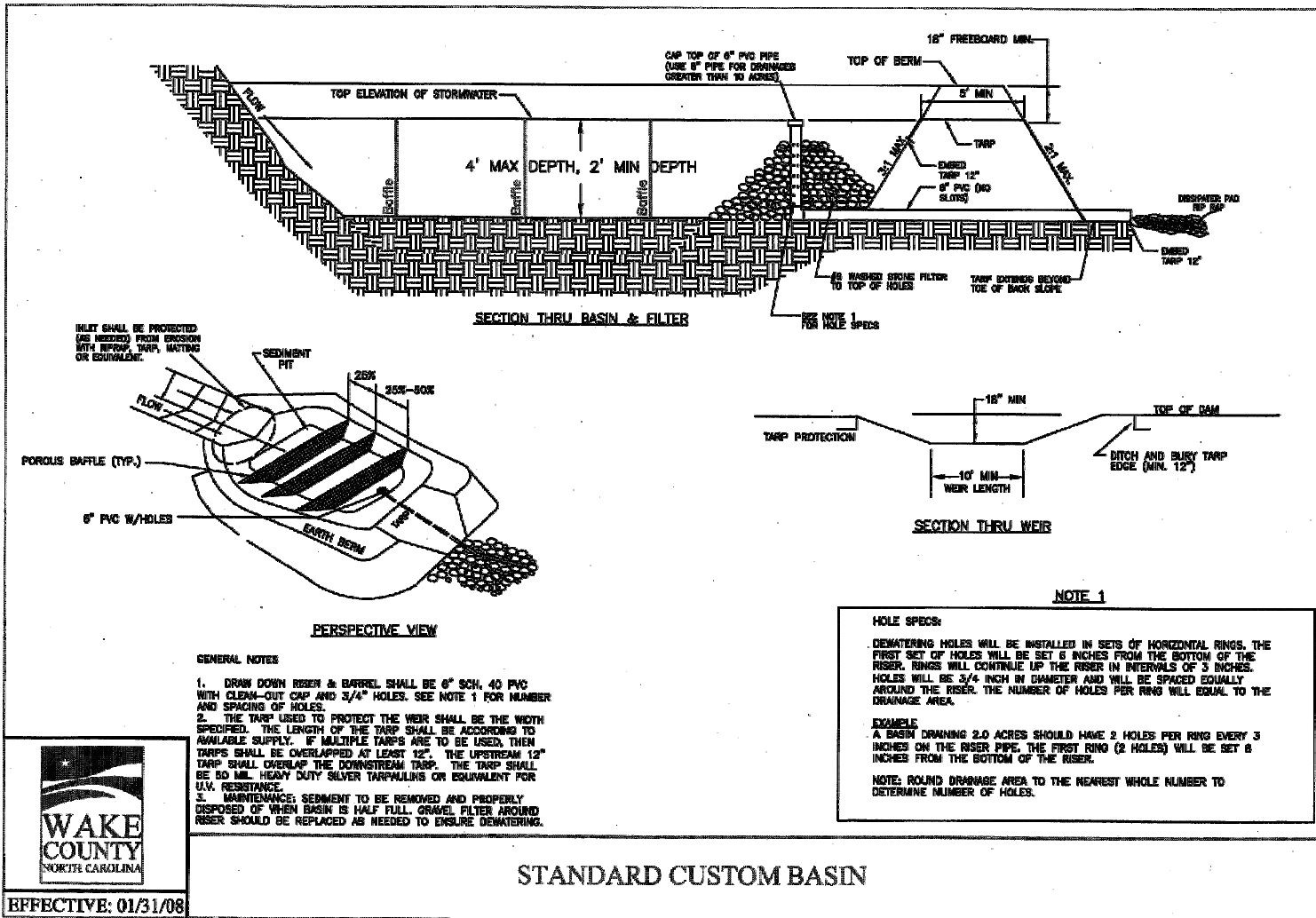
EFFECTIVE: 01/31/08

STANDARD SKIMMER BASIN



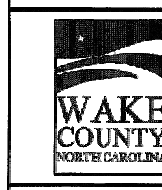
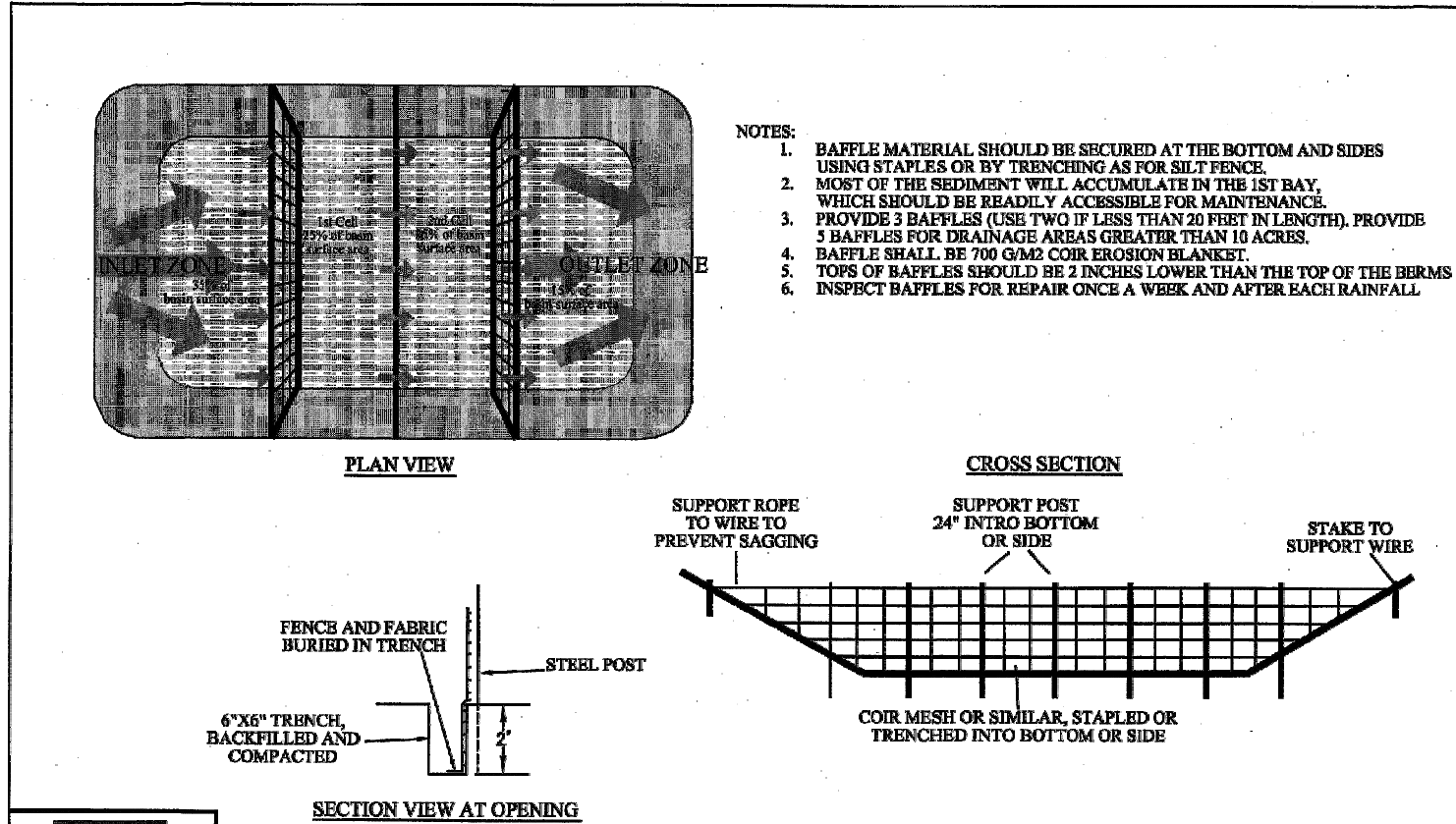
EFFECTIVE: 01/31/08

STANDARD SKIMMER ATTACHED TO PERMANENT RISER



EFFECTIVE: 01/31/08

STANDARD CUSTOM BASIN



EFFECTIVE: 01/31/08

STANDARD BAFFLES DETAIL

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

Device	Type	Weir Flow		Depth	Depth to Weir (ft)	Side Slope (x:1)	Top Length (ft)	Top Width (ft)	Skimmer Orifice	
		Weir Width (ft)	Depth (ft)						Size (in)	(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)
																									1.55
Swale-1	Swale	0.0	0.85	5	7.18	0.5	3.05	395.5	388.5	326	1	3	3	1.30	0.030	0.02147	6.39	7.54	0.85	0.48	3.05	Yes	1.744966884	N. Am. Green; Straw; 1 nets	1.55
Swale-2	Swale	0.0	0.95	5	7.18	0.5	3.41	397.5	388.5	555	1	3	3	1.49	0.030	0.01622	8.15	7.70	1.06	0.42	3.41	Yes	1.507945899	N. Am. Green; Straw; 1 nets	1.55

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

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

REVISIONS:	#	DATE	DESCRIPTION
1	1-APR-24		ISSUED FOR INITIAL REVIEW
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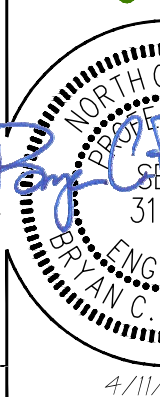


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Checked By: TGN
Project Number: 24136
Drawing Number: D-1471

C2.2

Date: April 1, 2024

LEGEND

● = FOUND MONUMENT AS NOTED
○ = SET 5/8" IRON REBAR (UNLESS OTHERWISE NOTED)
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◦ = DIMENSION POINT (NOTHING SET)
B.M. = BOOK OF MAPS
D.B. = DEED BOOK
R/W = RIGHT OF WAY

① = KEYNOTE - SEE STORM DRAIN TABLE

C&G = CURB & GUTTER
CONC = CONCRETE
CPP = CORRUGATED PLASTIC PIPE
RCP = REINFORCED CONCRETE PIPE
F.O.H. = FIBER OPTIC HAND HOLE
C.T.H. = CABLE TELEVISION HAND HOLE
P. = TELEPHONE PEDESTAL
F.O.M. / G.M.P. = FIBER OPTIC MARKER (FOM) / GAS MARKER (GMP)
★ = LIGHT POLE
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□ = TRANSFORMER
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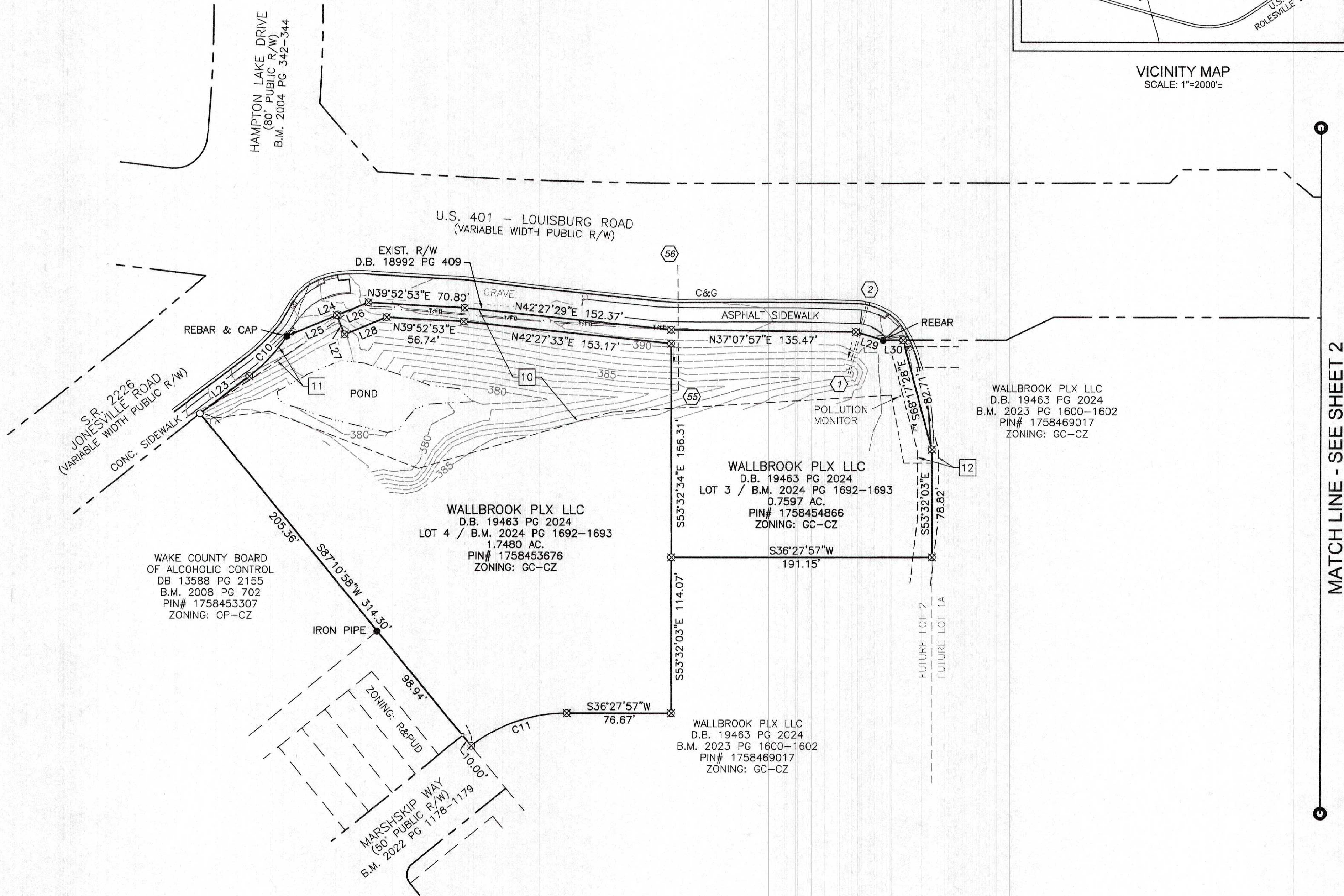
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--- = UTILITY - OVERHEAD LINE (TYPE AND NUMBER OF LINES NOT SPECIFIED)

STORM DRAIN

① 18" RCP 385.00 INV. FROM #2	①9 CURB INLET 392.48 GRATE 385.27 INV. 30" RCP FROM #20 385.16 INV. 30" RCP TO #18	③8 CURB INLET 391.03 GRATE (INVERTS NOT MEASURED)
② CURB INLET 389.45 GRATE 385.65 INV. TO #1	②0 CURB INLET 392.38 GRATE 386.20 INV. 15" RCP FROM #21 386.09 INV. 24" RCP FROM #22 386.03 INV. 30" RCP TO #19	③9 5' x 5' BOX CULVERT 373.95 INV. FROM #40
③ CURB INLET (UNDER CONSTRUCTION) 389.66 GRATE	②1 CURB INLET 392.99 GRATE 386.31 INV. 15" RCP TO #20	④0 5' x 5' BOX CULVERT 379.48 INV. TO #39
④ SDMH (UNDER CONSTRUCTION) 392.27 RIM 388.23 BOTTOM OF OPENING FROM #5 381.76 INV. 36" RCP FROM #16 381.62 INV. 36" RCP FROM #6	②2 CURB INLET 392.64 GRATE 388.12 INV. 15" RCP FROM #23 387.96 INV. 24" RCP FROM #24 387.81 INV. 24" RCP TO #20	④1 CURB INLET 390.59 GRATE (INVERTS NOT MEASURED)
⑤ CURB INLET 391.64 GRATE 388.57 BOTTOM OF OPENING TO #4	②3 CURB INLET 393.60 GRATE 389.17 INV. 15" RCP TO #22	④2 CURB INLET 387.36 GRATE (INVERTS NOT MEASURED)
⑥ CURB INLET 391.67 GRATE 387.98 INV. 18" RCP FROM #13 385.64 INV. 15" RCP FROM #8 382.58 INV. 24" RCP FROM #7 382.58 INV. 36" RCP TO #5	②4 CURB INLET 392.25 GRATE 387.93 INV. 24" RCP FROM #25 387.79 INV. 24" RCP TO #22	④3 CURB INLET 386.64 GRATE (INVERTS NOT MEASURED)
⑦ 24" RCP 383.05 INV. TO #6	②5 CURB INLET 394.23 GRATE 388.44 INV. 15" RCP FROM #26 388.46 INV. 18" RCP FROM #27 388.37 INV. 24" RCP TO #24	④4 CURB INLET 389.98 GRATE (INVERTS NOT MEASURED)
⑧ CURB INLET 391.27 GRATE 387.01 INV. 15" RCP FROM #9 386.95 INV. 15" RCP TO #6	②6 CURB INLET 396.33 GRATE 388.60 INV. 15" RCP TO #25	④5 CURB INLET 390.19 GRATE (INVERTS NOT MEASURED)
⑨ CURB INLET 390.72 GRATE 387.22 INV. 15" RCP FROM #10 387.17 INV. 15" RCP TO #8	②7 CURB INLET 395.57 GRATE 389.75 INV. 18" RCP FROM #28 389.61 INV. 18" RCP TO #25	④6 CURB INLET 390.80 GRATE (INVERTS NOT MEASURED)
⑩ CURB INLET 390.83 GRATE 387.62 INV. 15" RCP FROM #12 387.57 INV. 15" RCP FROM #11 387.48 INV. 15" RCP TO #9	②8 CURB INLET 396.13 GRATE 390.27 INV. 15" RCP FROM N.W. (UNABLE TO LOCATE N.W. END) 390.14 INV. 18" RCP TO #27	④7 CURB INLET 390.47 GRATE (INVERTS NOT MEASURED)
⑪ CURB INLET 390.89 GRATE 387.76 INV. 15" RCP TO #10	②9 18" RCP 393.60 INV. FROM #30	④8 CURB INLET 389.91 GRATE (INVERTS NOT MEASURED)
⑫ DROP INLET 390.87 GRATE (LOW POINT IN V) 387.80 INV. 15" RCP TO #10	③0 CURB INLET 403.77 GRATE (INVERTS NOT MEASURED)	④9 CURB INLET 388.65 GRATE (INVERTS NOT MEASURED)
⑬ S.D. MANHOLE 392.64 RIM 388.52 BOTTOM OF OPENING FROM #14 388.45 INV. 15" RCP FROM #15 388.33 INV. 18" RCP TO #6	③1 CURB INLET 396.93 GRATE (INVERTS NOT MEASURED)	⑤0 CURB INLET 383.56 GRATE (INVERTS NOT MEASURED)
⑭ CURB INLET 392.08 GRATE 388.52 BOTTOM OF OPENING TO #13	③2 CURB INLET 397.17 GRATE (INVERTS NOT MEASURED)	⑤1 DROP INLET 382.68 GRATE (INVERTS NOT MEASURED)
⑮ CURB INLET 391.87 GRATE 388.75 INV. 15" RCP FROM N.E. 388.71 INV. 15" RCP TO #13	③3 CURB INLET 395.97 GRATE (INVERTS NOT MEASURED)	⑤2 CURB INLET 380.21 GRATE (INVERTS NOT MEASURED)
⑯ S.D. MANHOLE 392.65 RIM 388.86 BOTTOM OF OPENING FROM #17 382.19 INV. 30" RCP FROM #18 382.17 INV. 36" RCP TO #4	③4 CURB INLET 395.81 GRATE (INVERTS NOT MEASURED)	⑤3 CURB INLET 378.19 GRATE (INVERTS NOT MEASURED)
⑰ CURB INLET 391.97 GRATE 388.86 BOTTOM OF OPENING TO #16	③5 CURB INLET 393.00 GRATE (INVERTS NOT MEASURED)	⑤4 CURB INLET 378.41 GRATE (INVERTS NOT MEASURED)
⑱ CURB INLET 392.16 GRATE 384.71 INV. 30" RCP FROM #19 384.70 INV. 30" RCP TO #16	③6 CURB INLET 392.68 GRATE (INVERTS NOT MEASURED)	⑤5 15" RCP 382.95 INV. FROM #56
	③7 CURB INLET 391.02 GRATE (INVERTS NOT MEASURED)	⑤6 15" RCP 386.47 INV. TO #55
		⑤7 18" CPP 377.81 INV. (PIPE DIRECTION NOT NOTED)
		⑤8 CURB INLET 400.40 GRATE (INVERTS NOT MEASURED)
		⑤9 CURB INLET 402.29 GRATE (INVERTS NOT MEASURED)

EXISTING EASEMENTS

① 30' ELECTRIC LINE EASEMENT D.B. 3868 PG 917	⑥ APPROX. LOCATION OF CROSS ACCESS EASEMENT D.B. 18988 PG 1102	⑪ PERMANENT WATERLINE EASEMENT D.B. 16679 PG 132
② INGRESS/EGRESS EASEMENT D.B. 10105 PG 778 D.B. 10123 PG 2779	⑦ PERMANENT UTILITY EASEMENT D.B. 18992 PG 412	⑫ ELECTRIC EASEMENT D.B. 19701 PG 2770 (DESIGN LOCATION, NOT AS-BUILT)
③ 15' UTILITY EASEMENT B.M. 2003 PG 614	⑧ TEMPORARY CONSTRUCTION EASEMENT D.B. 18992 PG 412	⑬ PERMANENT SLOPE EASEMENT D.B. 14395 PG 2087 B.M. 2011 PG 383
④ 20' UTILITY EASEMENT B.M. 2003 PG 614	⑨ CITY OF RALEIGH 30' SANITARY SEWER EASEMENT D.B. 19891 PG 2034	⑭ PERMANENT DRAINAGE EASEMENT D.B. 18992 PG 412
⑤ TEMPORARY CONSTRUCTION EASEMENT TO DEPARTMENT OF TRANSPORTATION D.B. 18992 PG 406	⑩ TEMPORARY CONSTRUCTION EASEMENT D.B. 18992 PG 409	⑮ PRIVATE DRAINAGE EASEMENT B.M. 2025 PG 198-204

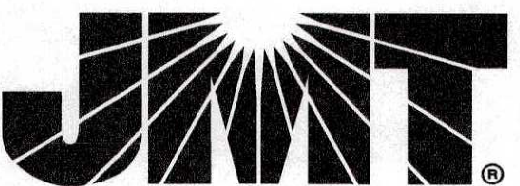


CERTIFICATE OF SURVEY

I, MICHAEL W. ZMUDA, CERTIFY THAT THIS PROJECT WAS COMPLETED UNDER MY DIRECT AND RESPONSIBLE CHARGE FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION; THAT THIS GROUND SURVEY WAS PERFORMED AT THE 95% CONFIDENCE LEVEL TO MEET FEDERAL GEOGRAPHIC DATA COMMITTEE STANDARDS; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS FOR A TOPOGRAPHIC/PLANIMETRIC SURVEY TO THE ACCURACY OF CLASS "A", AND THAT THE ORIGINAL DATA WAS OBTAINED ON JANUARY 28, 2025; THAT THE SURVEY WAS COMPLETED ON MARCH 6, 2025; AND ALL COORDINATES ARE BASED ON NORTH CAROLINA STATE GRID, 'NAD 83' AND REALIZATION 2001 AND ALL ELEVATIONS ARE BASED ON NAVD 88.

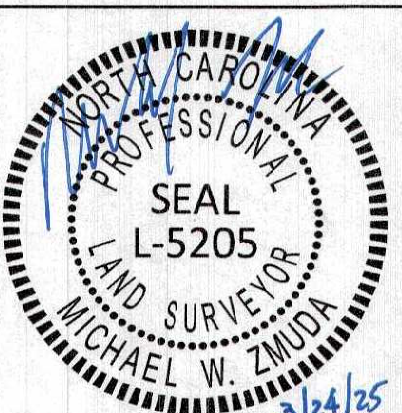
THIS 24th DAY OF March, 2025.

MICHAEL W. ZMUDA, PLS# L-5205



9201 ARBORETUM PARKWAY, SUITE 310 | RICHMOND, VA 23236
P: (804) 323-9900 | F: (804) 323-0596 | www.jmt.com

REVISION #	DATE	REASON FOR REVISION
WALLBROOK EXISTING CONDITIONS LOTS 3, 4, 5, 7, 8 & 11 WAKE FOREST TOWNSHIP TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA		
DRAWN BY: JSZ	PROJECT#:	
CHECKED BY: MWZ	CONTRACT#:	JMT# 25-00159-001
DATE: 03/24/2025	SCALE: 1"=50'	SHEET 1 OF 3



MATCH LINE - SEE SHEET 2

MATCH LINE - SEE SHEET 1

CHARTER DEVELOPMENT
COMPANY, LLC
D.B. 16960 PG 2285
B.M. 2017 PG 2265-2267
PIN# 1758-36-9359
ZONING: GC

HAMPTON POINTE
ASSOCIATES, LLC
D.B. 10051 PG 530
B.M. 2022 PG 1722
PIN# 1758461044
ZONING: GC

TRI-ARC FOOD SYSTEMS, INC.
D.B. 13702 PG 1125
B.M. 2009 PG 1043
PIN# 1758-46-5402
ZONING: GC

WALLBROOK LANDCO LLC
D.B. 18104 PG 0920
B.M. 2023 PG 1603-1604
PIN# 1758465891
ZONING: GI-CZ

GRAND PARK PROPERTIES LLC
D.B. 8438 PG 1116
B.M. 2024 PG 2423
PIN# 1758478353
ZONING: GI-CZ

WALLBROOK LANDCO LLC
D.B. 18104 PG 0920
B.M. 2023 PG 1603-1604
PIN# 1758-46-5891
ZONING: GI-CZ

WALLBROOK CSTORE LLC
D.B. 19463 PG 2429
LOT 11 / B.M. 2024 PG 1691-1692
1.6180 AC.
PIN# 1758468940
ZONING: GI-CZ

GRAND PARK PROPERTIES LLC
D.B. 8438 PG 1116
B.M. 2024 PG 2423
PIN# 1758570146
ZONING: GI-CZ

WALLBROOK LANDCO LLC
D.B. 18104 PG 0920
B.M. 2023 PG 1603-1604
PIN# 1758-46-5891
ZONING: GI-CZ

EXIST. R/W
D.B. 18992 PG 406

U.S. 401 - LOUISBURG ROAD
(VARIABLE WIDTH PUBLIC R/W)

EXIST. R/W
D.B. 18992 PG 412

U.S. 401 - LOUISBURG ROAD
(VARIABLE WIDTH PUBLIC R/W)

WALLBROOK PLX LLC
D.B. 19463 PG 2024
B.M. 2023 PG 1600-1602
PIN# 1758469017
ZONING: GC-CZ

WALLBROOK LANDCO LLC
D.B. 18103 PG 1563
LOT 5 / B.M. 2023 PG 1600-1602
5.4819 AC.
PIN# 1758563963
ZONING: GC-CZ

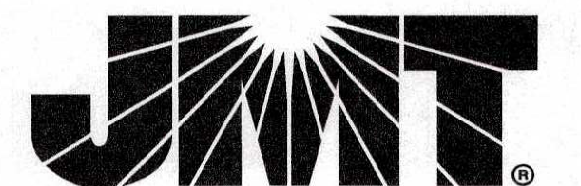
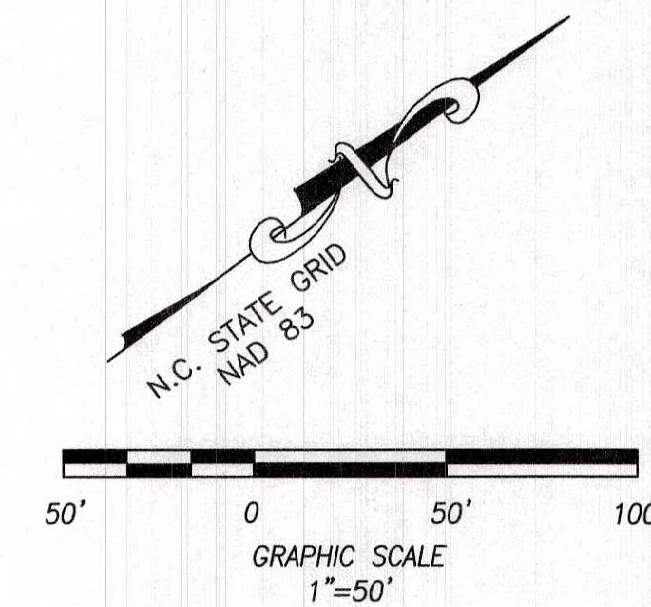
CRP/C4 WALLBROOK VILLAGE OWNER LLC
D.B. 19533 PG 2500
B.M. 2025 PG 198-204
PIN# 1758569725
ZONING: GC-CZ

CRP/C4 WALLBROOK VILLAGE OWNER LLC
D.B. 19533 PG 2500
B.M. 2025 PG 198-204
PIN# 1758569725
ZONING: GC-CZ

LEGEND

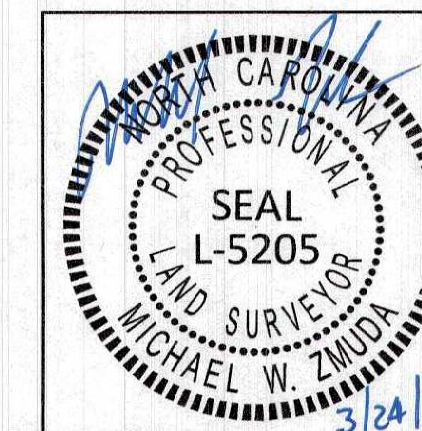
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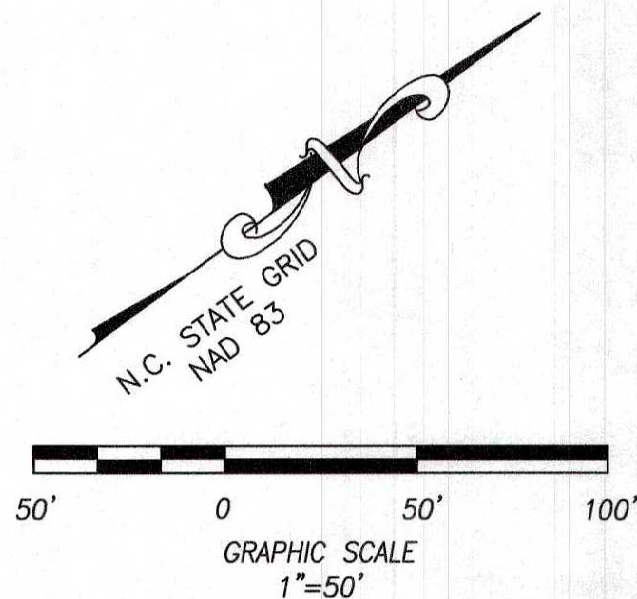
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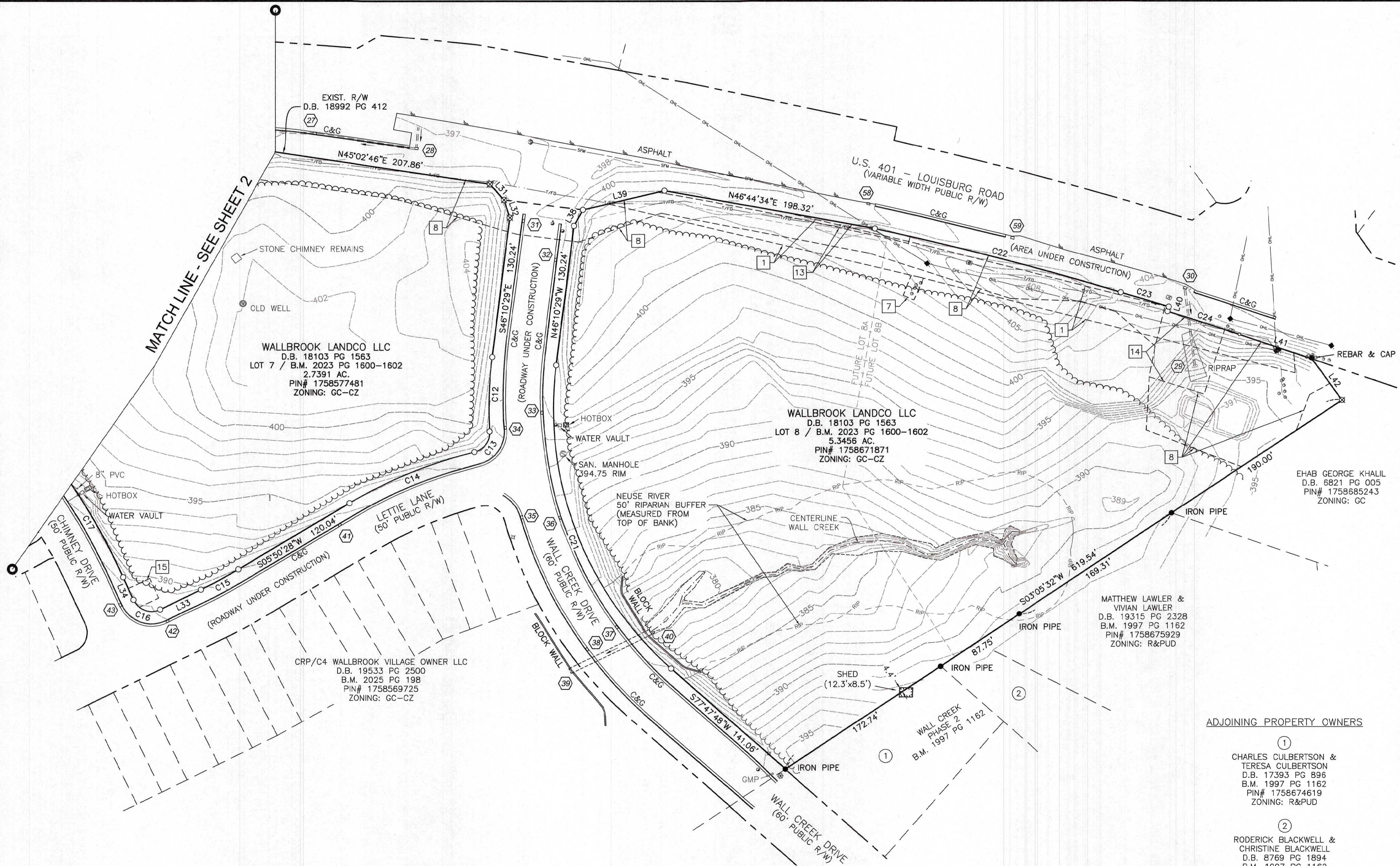
LINE	BEARING	DISTANCE
L1	S42°44'43"W	23.10'
L2	S75°45'31"W	28.94'
L3	S37°49'21"W	63.91'
L4	S27°10'50"E	36.31'
L5	S36°06'10"W	75.75'
L6	S74°59'26"W	96.87'
L7	S36°20'17"W	90.00'
L8	N03°55'42"W	25.12'
L9	N53°29'10"W	38.50'
L10	N53°29'10"W	38.50'
L11	S74°59'26"W	13.90'
L12	S36°20'17"W	80.00'
L13	S36°41'55"W	59.58'
L14	S42°28'55"W	60.39'
L15	N80°02'05"E	17.70'
L16	S17°58'15"W	5.00'
L17	N82°01'45"W	4.21'
L18	N17°22'09"W	2.86'
L19	S39°45'15"E	47.63'
L20	S07°36'24"E	42.14'
L21	N72°01'45"W	60.00'
L22	N36°56'35"E	42.60'
L23	N00°52'23"W	45.18'
L24	N14°14'29"E	64.65'
L25	N14°14'29"E	39.65'
L26	N14°14'29"E	25.00'
L27	S75°45'31"E	15.00'
L28	N14°14'29"E	33.14'
L29	N53°08'21"E	20.88'
L30	N36°26'23"E	14.62'
L31	N84°24'49"E	19.69'
L32	S71°32'56"E	17.19'
L33	S10°35'58"W	41.96'
L34	N77°54'14"W	22.90'
L35	N88°51'30"W	24.22'
L36	N07°36'24"W	42.14'
L37	N39°45'15"W	47.63'
L38	N23°56'19"W	17.05'
L39	N23°25'13"E	77.77'
L40	S36°12'58"E	4.33'
L41	N55°13'38"E	70.99'
L42	S89°44'38"E	47.23'

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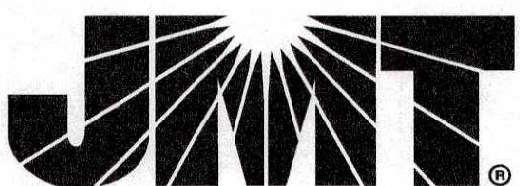
CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	15.50'	24.35'	21.92'	S81°30'50"W	90°00'00"
C2	15.50'	24.35'	21.92'	N08°29'10"W	90°00'00"
C3	220.00'	333.74'	302.64'	S02°53'33"E	86°55'01"
C4	430.00'	169.57'	168.48'	S29°16'06"W	22°35'42"
C5	20.50'	28.62'	26.35'	S57°58'15"W	80°00'00"
C6	140.50'	70.10'	69.37'	N67°44'11"W	28°35'07"
C7	212.00'	118.95'	117.39'	S23°40'50"E	32°08'50"
C8	280.00'	235.42'	228.54'	S16°28'47"W	48°10'22"
C9	370.00'	145.91'	144.97'	S29°16'06"W	22°35'42"
C10	123.92'	40.68'	40.50'	N10°16'40"W	18°48'34"
C11	114.00'	75.45'	74.08'	S17°30'15"W	37°55'23"
C12	380.00'	69.35'	69.25'	S51°24'10"E	10°27'22"
C13	18.50'	25.65'	23.64'	S16°54'37"E	79°26'28"
C14	425.00'	125.87'	125.41'	S14°19'32"W	16°58'09"
C15	475.00'	39.45'	39.44'	S08°13'13"W	4°45'31"
C16	18.50'	29.54'	26.50'	S56°20'52"W	91°29'47"
C17	625.00'	119.49'	119.31'	N83°22'52"W	10°57'16"
C18	18.50'	26.35'	24.18'	N48°02'53"W	81°37'14"
C19	280.00'	1.80'	1.80'	N07°25'20"W	0°22'08"
C20	212.00'	118.95'	117.39'	N23°40'50"W	32°08'50"
C21	320.00'	312.92'	300.60'	N74°11'20"W	56°01'43"
C22	2953.50'	235.70'	235.64'	N51°05'51"E	4°34'21"
C23	11465.50'	46.62'	46.62'	N53°30'00"E	0°13'59"
C24	3700.00'	70.31'	70.31'	N54°18'48"E	1°05'20"



ADJOINING PROPERTY OWNERS

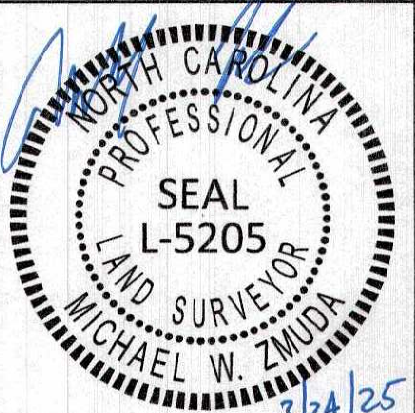
①
CHARLES CULBERTSON &
TERESA CULBERTSON
D.B. 17393 PG 896
B.M. 1997 PG 1162
PIN# 1758674619
ZONING: R&PUD

②
RODERICK BLACKWELL &
CHRISTINE BLACKWELL
D.B. 8769 PG 1894
B.M. 1997 PG 1162
PIN# 1758676836
ZONING: R&PUD




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REVISION #	DATE	REASON FOR REVISION
WALLBROOK EXISTING CONDITIONS LOTS 3, 4, 5, 7, 8 & 11 WAKE FOREST TOWNSHIP TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA		
DRAWN BY: JSZ	PROJECT#:	JMTR: 25-00159-001
CHECKED BY: MWZ	CONTRACT#:	
DATE: 03/24/2025	SCALE: 1"=50'	SHEET 3 OF 3




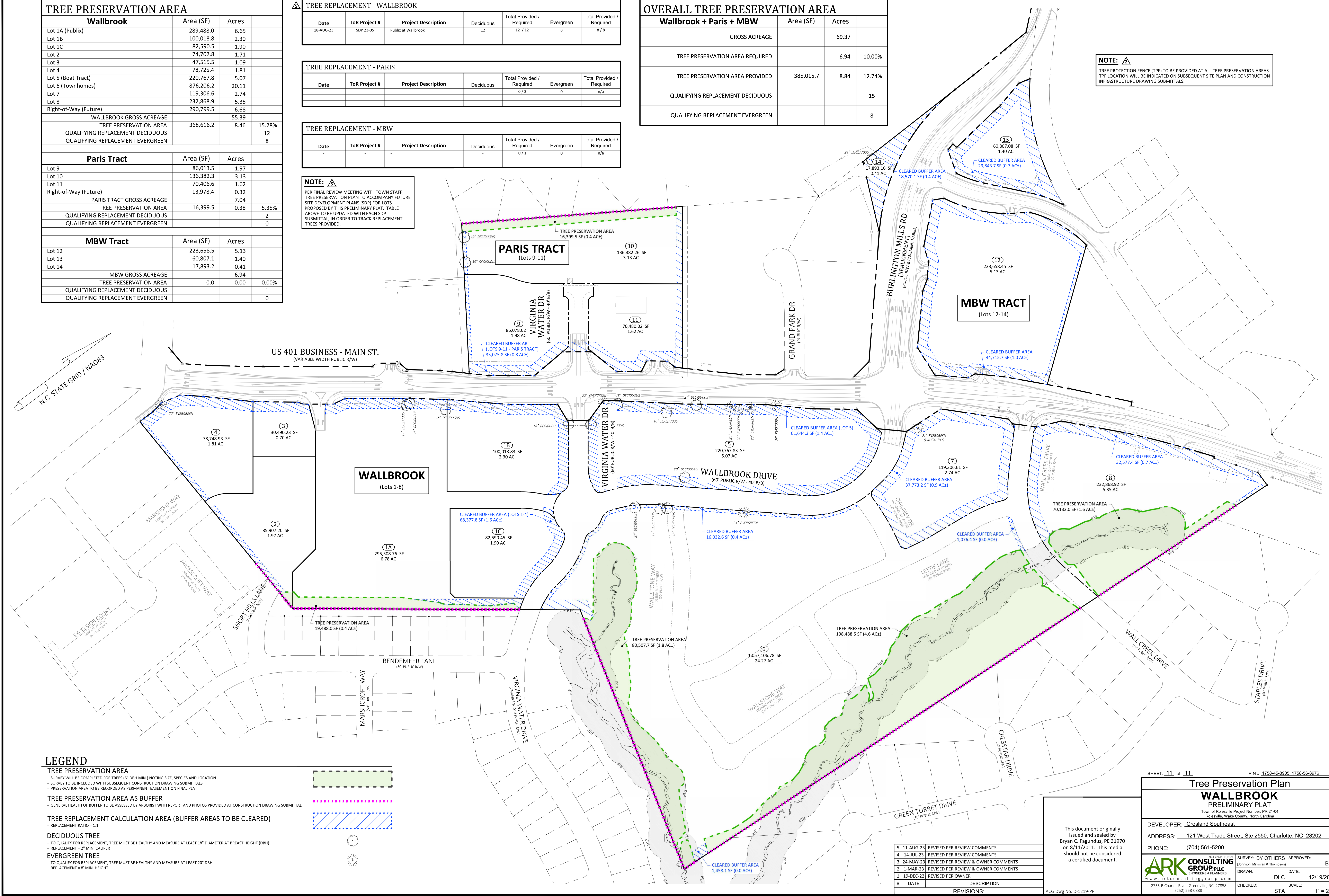
TREE PRESERVATION AREA			
Wallbrook		Area (SF)	Acres
Lot 1A (Publix)		289,488.0	6.65
Lot 1B		100,018.8	2.30
Lot 1C		82,590.5	1.90
Lot 2		74,702.8	1.71
Lot 3		47,515.5	1.09
Lot 4		78,725.4	1.81
Lot 5 (Boat Tract)		220,767.8	5.07
Lot 6 (Townhomes)		876,206.2	20.11
Lot 7		119,306.6	2.74
Lot 8		232,868.9	5.35
Right-of-Way (Future)		290,799.5	6.68
WALLBROOK GROSS ACREAGE		55.39	
TREE PRESERVATION AREA		368,616.2	8.46
QUALIFYING REPLACEMENT DECIDUOUS			12
QUALIFYING REPLACEMENT EVERGREEN			8
Paris Tract		Area (SF)	Acres
Lot 9		86,013.5	1.97
Lot 10		136,382.3	3.13
Lot 11		70,406.6	1.62
Right-of-Way (Future)		13,978.4	0.32
PARIS TRACT GROSS ACREAGE		7.04	
TREE PRESERVATION AREA		16,399.5	0.38
QUALIFYING REPLACEMENT DECIDUOUS			5.35%
QUALIFYING REPLACEMENT EVERGREEN			2
			0
MBW Tract		Area (SF)	Acres
Lot 12		223,658.5	5.13
Lot 13		60,807.1	1.40
Lot 14		17,893.2	0.41
MBW GROSS ACREAGE		6.94	
TREE PRESERVATION AREA		0.0	0.00%
QUALIFYING REPLACEMENT DECIDUOUS			1
QUALIFYING REPLACEMENT EVERGREEN			0

TREE REPLACEMENT - WALLBROOK						
Date	ToR Project #	Project Description	Deciduous	Total Provided / Required	Evergreen	Total Provided / Required
18-AUG-23	SDP 23-05	Publix at Wallbrook	12	12 / 12	8	8 / 8
TREE REPLACEMENT - PARIS						
Date	ToR Project #	Project Description	Deciduous	Total Provided / Required	Evergreen	Total Provided / Required
-	-	-	-	0 / 2	0	n/a
TREE REPLACEMENT - MBW						
Date	ToR Project #	Project Description	Deciduous	Total Provided / Required	Evergreen	Total Provided / Required
				0 / 1	0	n/a

NOTE:  PER FINAL REVIEW MEETING WITH TOWN STAFF, TREE PRESERVATION PLAN TO ACCOMPANY FUTURE SITE DEVELOPMENT PLANS (SDP) FOR LOTS PROPOSED BY THIS PRELIMINARY PLAT. TABLE ABOVE TO BE UPDATED WITH EACH SDP SUBMITTAL, IN ORDER TO TRACK REPLACEMENT TREES PROVIDED.

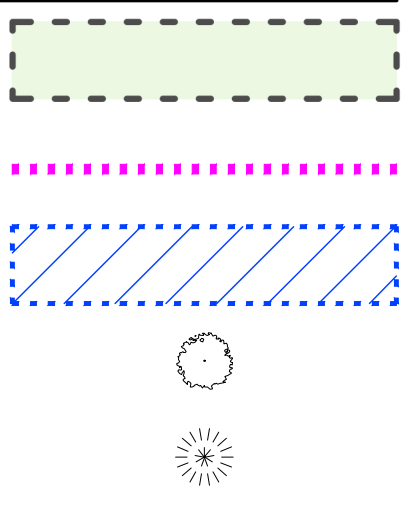
OVERALL TREE PRESERVATION AREA			
Wallbrook + Paris + MBW		Area (SF)	Acres
GROSS ACREAGE			69.37
TREE PRESERVATION AREA REQUIRED			6.94
TREE PRESERVATION AREA PROVIDED		385,015.7	8.84
QUALIFYING REPLACEMENT DECIDUOUS			15
QUALIFYING REPLACEMENT EVERGREEN			8

NOTE:  TREE PROTECTION FENCE (TPF) TO BE PROVIDED AT ALL TREE PRESERVATION AREAS. TPF LOCATION WILL BE INDICATED ON SUBSEQUENT SITE PLAN AND CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTALS.



LEGEND

- TREE PRESERVATION AREA**
- SURVEY WILL BE COMPLETED FOR TREES (6" DBH MIN.) NOTING SIZE, SPECIES AND LOCATION
 - SURVEY TO BE INCLUDED WITH SUBSEQUENT CONSTRUCTION DRAWINGS SUBMITTALS
 - PRESERVATION AREA TO BE RECORDED AS PERMANENT EASEMENT ON FINAL PLAT
- TREE PRESERVATION AREA AS BUFFER**
- GENERAL HEALTH OF BUFFER TO BE ASSESSED BY ARBORIST WITH REPORT AND PHOTOS PROVIDED AT CONSTRUCTION DRAWING SUBMITTAL
- TREE REPLACEMENT CALCULATION AREA (BUFFER AREAS TO BE CLEARED)**
- REPLACEMENT RATIO = 1:1
- DECIDUOUS TREE**
- TO QUALIFY FOR REPLACEMENT, TREE MUST BE HEALTHY AND MEASURE AT LEAST 18" DIAMETER AT BREAST HEIGHT (DBH)
 - REPLACEMENT = 2" MIN. CALIPER
- EVERGREEN TREE**
- TO QUALIFY FOR REPLACEMENT, TREE MUST BE HEALTHY AND MEASURE AT LEAST 20" DBH
 - REPLACEMENT = 8" MIN. HEIGHT



5	11-AUG-23	REVISED PER REVIEW COMMENTS
4	14-JUL-23	REVISED PER REVIEW COMMENTS
3	24-MAY-23	REVISED PER REVIEW & OWNER COMMENTS
2	1-MAR-23	REVISED PER REVIEW & OWNER COMMENTS
1	19-DEC-22	REVISED PER OWNER
#	DATE	DESCRIPTION
REVISIONS:		

This document originally issued and sealed by Bryan C. Fagundus, PE 31970 on 8/11/2011. This media should not be considered a certified document.

ACG Dwg No. D-1219-PP

SHEET: 11 of 11

PIN # 1758-45-8905, 1758-56-8976

Tree Preservation Plan

WALLBROOK

PRELIMINARY PLAT

Town of Rolesville Project Number: PRP 21-04

Rolesville, Wake County, North Carolina

DEVELOPER: **Crosland Southeast**

ADDRESS: **121 West Trade Street, Ste 2550, Charlotte, NC 28202**

PHONE: **(704) 561-5200**

ARK CONSULTING GROUP, LLC

ENGINEERS & PLANNERS

www.arkconsultinggroup.com

2755-B Charles Blvd., Greenville, NC 27858

(252) 558-0888

SURVEY: BY OTHERS

(Johnson, Mirmiran & Thompson)

APPROVED:

DATE: 12/19/2022

CHECKED:

SCALE: 1" = 200'

BCF

DLC

STA