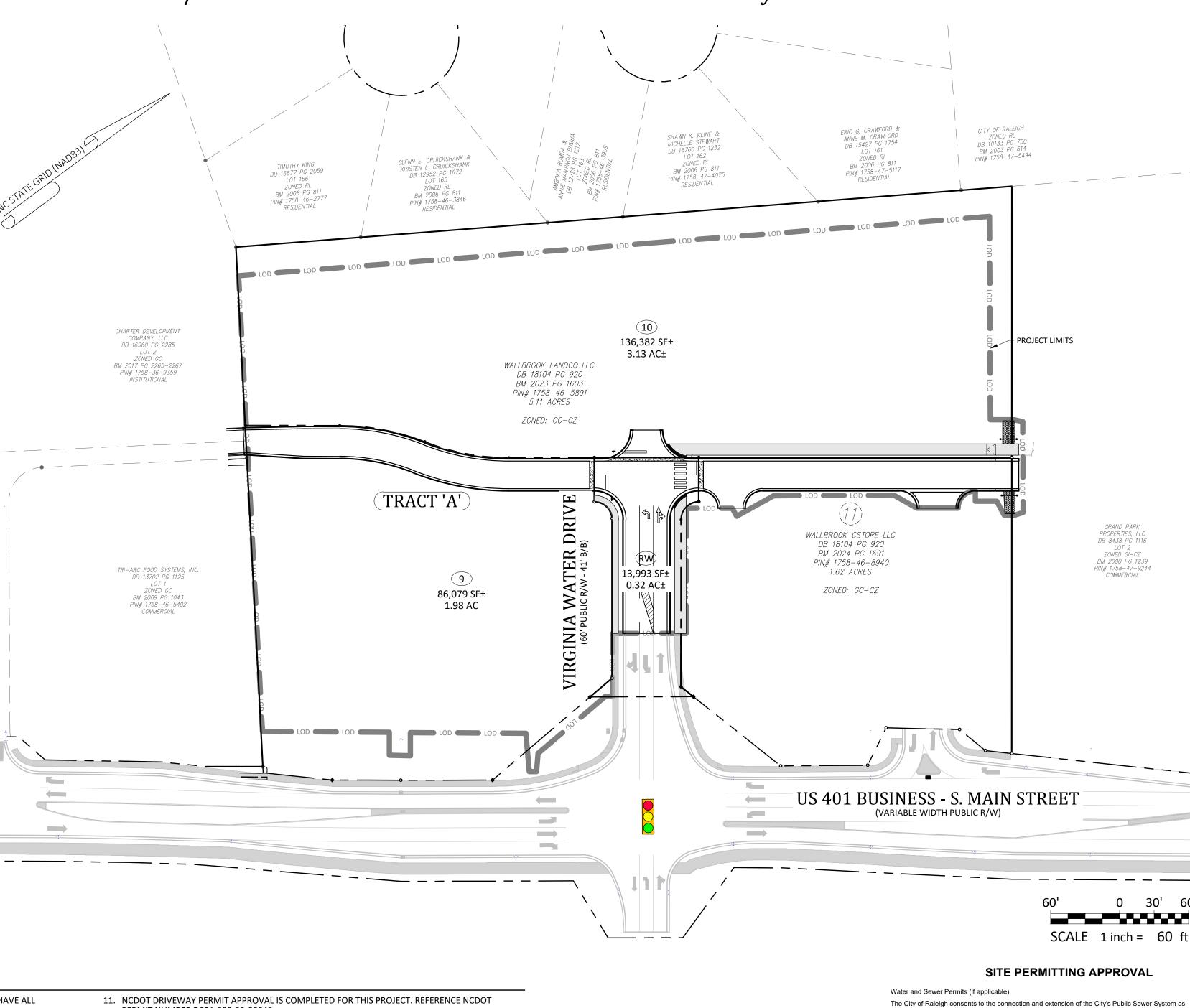
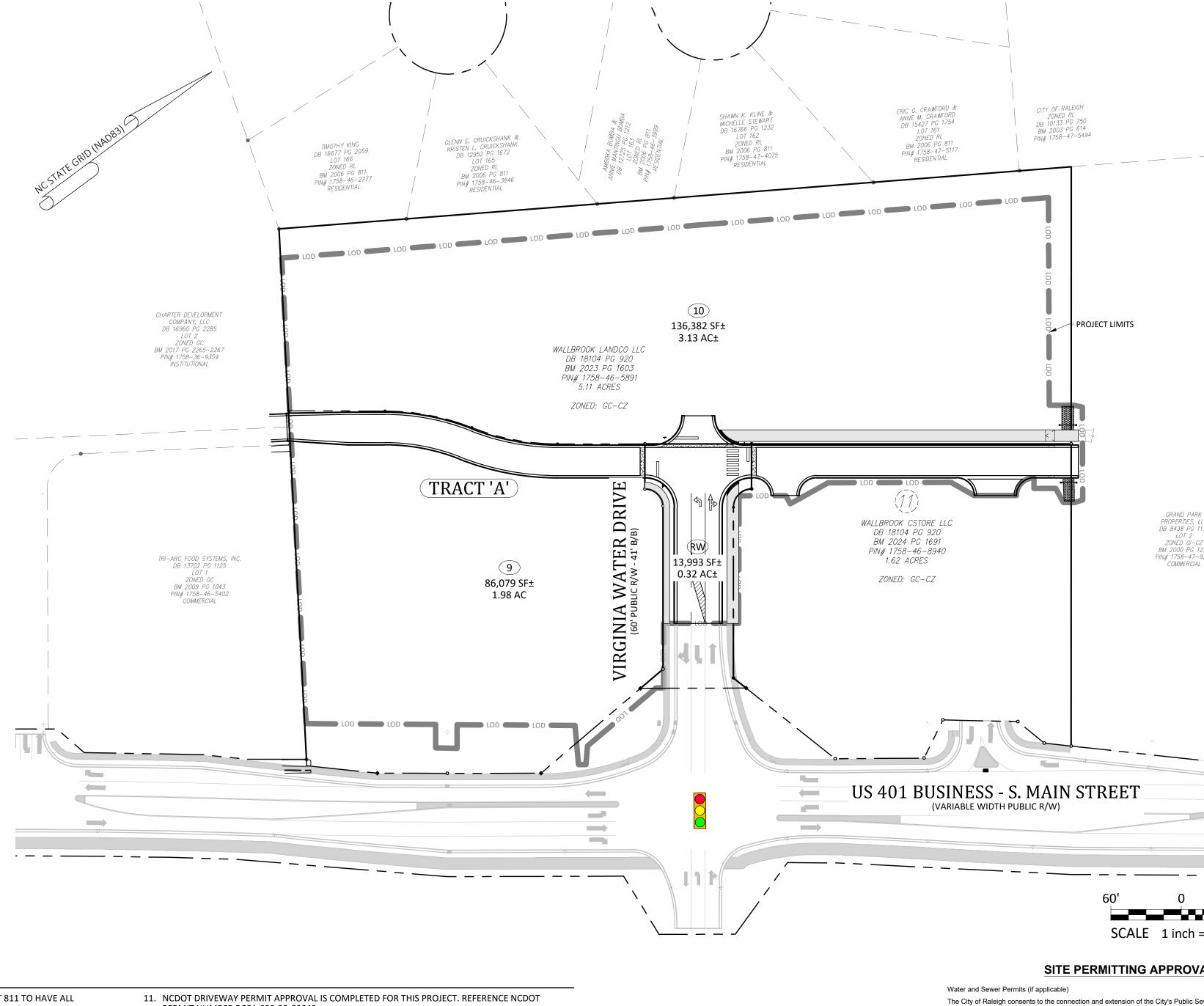
# WALLBROOK ROADWAY IMPROVEMEN VIRGINIA WATER DRIVE EXTENSION (SERVING LOTS 9-CONSTRUCTION INFRASTRUCTURE DRAWING - CID 23-04

F)//07/07	nd		
EXISTING			PROPOSED
•		FOUND MONUMENT AS NOTED SET IRON PIN	
		NCGS MONUMENT	
•	= [	DIMENSION POINT (NOTHING SET)	
P D		PROPERTY LINE	
-		RIGHT OF WAY	
C&G		CURB AND GUTTER CABLE TV PEDESTAL	
DI		DROP INLET	
ELEC		ELECTRIC BOX	
EM EM		ELECTRIC METER	
		FIBER OPTIC	FH
		FIRE HYDRANT	+
¢ GV		GAS VALVE	
		HAND BOX	
-\$-LP			
		POWER POLE GUY WIRE	
RCP		REINFORCED CONCRETE PIPE	
		SQUARE FEET (AREA)	
-0-		SIGN	
		RAFFIC SIGNAL POLE	-
S		SANITARY SEWER MANHOLE	S
0 69 69		SANITARY SEWER FORCE MAIN VA	
(SD)		STORM DRAIN MANHOLE	Ð
T <u>E</u> L		STORM DRAIN CATCH BASIN TELEPHONE PEDESTAL	
TRAF		RAFFIC BOX	
WATER		WATER BOX	
ww wm		WATER METER	•
	= V	WATER MANHOLE	
iø ₩V	= V	WATER VALVE	M
WELL O	= \	WELL	
X-WALK O	= F	PEDESTRIAN X-WALK POLE	
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— — — RIP —	-	RIPARIAN BUFFER	, A
	= 1	REELINE	
— 50 ———	= N	MAJOR CONTOUR (5')	
	= N	MINOR CONTOUR (1')	
		REE PROTECTION FENCE	TPF
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	- (	OPEN SPACE AREA	
	- (		
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А		DD DRAINAGE AREA	





# Abbreviations 🛆

- BACK OF CURB BC
- TOP OF CONCRETE TC TOP OF ASPHALT
- TW TOP OF WALL
- BOTTOM OF WALL BW
- PROPOSED GRADE/GROUND PG FP FIRST POUR
- CB CATCH BASIN DI DROP INLET
- INV INVERT

# **General Notes:**

APPROVAL IS REQUIRED.

- 1. CONTACT NORTH CAROLINA ONE-CALL CENTER, INC. (NC ONE-CALL) AT 811 TO HAVE ALL UNDERGROUND UTILITIES LOCATED PRIOR TO EXCAVATING OR TRENCHING.
- 2. ALL REQUIRED IMPROVEMENTS SHALL CONFORM TO THE TOWN OF ROLESVILLE LAND
- DEVELOPMENT ORDINANCE AND THE TOWN OF ROLESVILLE DEVELOPMENT STANDARDS. 3. CONTRACTOR SHALL NOTIFY NCDOT AND TOWN OF ROLESVILLE PUBLIC WORKS, STREET MAINTENANCE DIVISION 48 HOURS PRIOR TO MAKING CONNECTIONS TO EXISTING STORM DRAINS LOCATED WITHIN PUBLIC STORM DRAINAGE EASEMENTS OR RIGHT-OF-WAY.
- 4. THIS PROPERTY IS LOCATED WITHIN ZONE 'X', AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, AS SHOWN ON NATIONAL FLOOD INSURANCE PROGRAM RATE MAP (FIRM) 3720175800K, EFFECTIVE DATE JULY 19, 2022.
- 5. EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL AND ILLUSTRATIVE IN NATURE AND MAY NOT INCLUDE ALL MECHANICAL, ELECTRICAL AND MISCELLANEOUS STRUCTURES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING ON THE WORK FOR THIS PROJECT. IF CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT THAN THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- 6. ELECTRIC AND TELEPHONE UTILITIES SHALL BE INSTALLED UNDERGROUND.
- 7. REFER TO ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS. 8. REFER TO M.E.P. PLANS FOR COORDINATION OF BUILDING UTILITY SERVICES.
- 9. THIS PROJECT DISTURBS MORE THAN  $\frac{1}{2}$  ACRE FOR PURPOSES OF A COMMERCIAL DEVELOPMENT. PROJECT IS SUBJECT TO THE TOWN OF ROLESVILLE STORMWATER MANAGEMENT ORDINANCE.
- STORMWATER MANAGEMENT PLAN APPROVAL BY THE TOWN OF ROLESVILLE IS REQUIRED. 10. THIS PROJECT DISTURBS MORE THAN 1 ACRE. EROSION & SEDIMENTATION CONTROL PLAN

- PERMIT NUMBER D051-092-22-00049.
- 12. REFUSE COLLECTION SHALL BE PROVIDED BY PRIVATE SERVICE FOR COMMERCIAL DEVELOPMENT. 13. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
- 14. SITE SHALL MEET ALL RELATED ACCESSIBILITY CODE REQUIREMENTS.
- 15. BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION SHOWN HEREON WAS PREPARED BY JOHNSON, MIRMIRAN & THOMPSON. REFERENCE IS MADE TO THE SURVEY ENTITLED ALTA/NSPS LAND TITLE SURVEY PREPARED FOR WALLBROOK LANDCO, LLC DATED 3/28/2020, AND ATTACHED TO THIS DRAWING SET FOR REFERENCE.
- 16. UNDERGROUND UTILITIES PLOTTED IN PART FROM ACTUAL FIELD LOCATION OF ABOVE GROUND EXCAVATING OR TRENCHING.
- THE ENGINEER MAKES NO GUARANTEE THAT THE UTILITIES SHOWN ARE COMPRISED OF ALL SUCH UTILITIES IN THE AREA OF SURVEY EITHER IN SERVICE OR ABANDONED. THE ENGINEER FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE ENGINEER DOES HEREBY CERTIFY THAT ALL UTILITIES ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE ENGINEER HAS NOT PHYSICALLY UNCOVERED AND LOCATED ANY UNDERGROUND UTILITIES.

KNOW WHAT'S BELOW ALL BEFORE YOU DIG 1-800-632-4949

WWW.NC811.ORG

US-401 Business / S. Main Street ~ Town of Rolesville ~ Wake County ~ North Carolina

- FEATURES AND IN PART FROM MAPS ON RECORD. ACTUAL LOCATIONS MAY VARY. SURVEYOR AND ENGINEER CANNOT PROVIDE ACCURACY OF INFORMATION TAKEN FROM RECORD DATA. OTHER UTILITIES MAY EXIST. CONTRACTOR SHOULD CONTACT NORTH CAROLINA ONE-CALL CENTER (NC ONE-CALL) BY DIALING 811 TO HAVE UNDERGROUND UTILITIES LOCATED PRIOR TO

## ATTENTION CONTRACTORS

The Construction Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Utilities Department at (919) 996-4540 at least *twenty four hours* prior to beginning any of their construction.

Failure to notify both City Departments in advance of beginning construction, will result in the issuance of monetary fines, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.

*Failure* to call for *Inspection*, *Install a Downstream Plug*, have Permitted Plans on the Jobsite, or any other Violation of City of Raleigh Standards will result in a Fine and Possible Exclusion from future work in the City of Raleigh.

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 #<u>S-5528</u> 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 #<u>W-4160</u> The City of Raleigh consents to the connection to its public sewer system and extensions of the

private sewer collection 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 City of Raleigh Public Utilities Department Permit #\_S-\_\_\_

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.

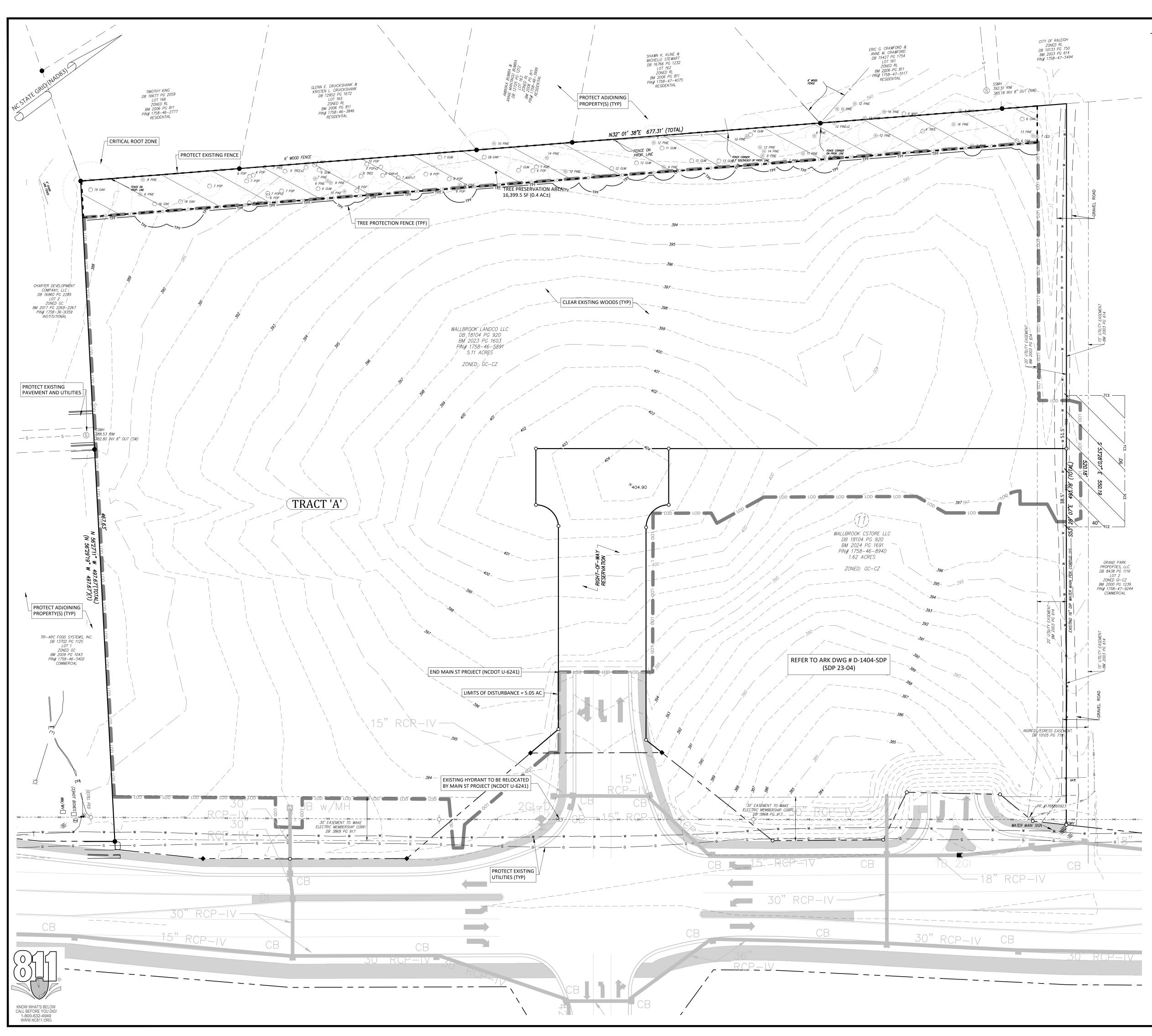
City of Raleigh Development Approval City of Raleigh Review Officer

EP 59	JTS -11)	GTON MILLSRD. SITE	Vicin	ity M	LOUSBURGRO	FERST HOUME ST.	9 9-JUN-25 APPROVED - SIGNATURE SET 8 1-APR-25 REVISED PER WAKE CO. REVIEW COMMENTS	20-FEB-25 20-FEB-25 22-NOV-24 13-SEP-24 2-MAY-24 1-MAR-24	2 1-JUNE-23 1 1-MAY-23 # DATE
	Site Data WAKE COUNTY PIN: REAL ESTATE ID: CURRENT ZONING: TOTAL ACREAGE IN SITE: ACREAGE IN PROJECT LIMITS: ACREAGE IN PUBLIC R/W: TOTAL DISTURBED ACREAGE: LINEAR FEET IN PUBLIC STREETS: WATERSHED: RIVER BASIN: CURRENT USE: PROPOSED USE:	1758-46-5 224130 GC-CZ 5.42 AC 5.04 AC 0.32 AC 5.05 AC 138 LF Lower Neuse VACANT / NON-RESI	5891 use / WOODEE	TO SCALE				CROSLAN SOUTHEAS	
<u>Sheet</u>	BUILDING LOT COVERAGE: TOTAL SQ. FEET OF EXIST. IMPERVIOUS AREA: TOTAL SQ. FEET OF PROP. IMPERVIOUS AREA: DEVELOPMENT STANDARDS: REFERENCES:	0% EXIST. 0 SF 9583 SF (F LDO DB 18104 BM 2023, BM 1996,	R/W), 827 , PG 920 PG 1603-:	6 SF (LOT 9	), 3920 SF (LC	DT 10)	Z	RVING LOTS 9-11)	り、 しーレ とう- し4 ia Water Drive County, North Carolina
	COVER - OVERALL PLAN				_ &		PLAN		ULC Water ounty, I
C1.0	EXISTING CONDITIONS & DEMOLITION	ON PLAN			<u> </u>				Virginia Wake Co
C1.1	EROSION CONTROL - PH. 1					<u> </u>		, <u> </u>	- 00 -
C1.2	EROSION CONTROL PLAN - PH. 2		$\underline{\mathbb{A}}$	A		8	OVERAI	<b>V</b> SN S	Street 8
C1.3	EROSION CONTROL - PH. 3				A	ß			PIUJE ain Street Rolesville
C1.4	EROSION CONTROL NOTES			3			0		of ⊠ ⊈
C1.5	EROSION CONTROL DETAILS						<b> </b>	Ц Д Ш	own
C2.0	LAYOUT & SIGNAGE-STRIPING PLAN					*	VER		n s⊗⊢
C3.0	VIRGINIA WATER DRIVE EXT - PLAN	-PROFILE			-	\ ▲	Ó		RUIE Busine: Mnship,
C3.1	ACCESS DRIVE - PLAN-PROFILE					ß	Ŭ	J Z Z Z Z Z Z Z	
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C4.1 C4.2	DETAILS								ke Fc
C4.2	SURVEY - JOHNSON, MIRMIRAN & T	HOMPSO							Wał
REF	PR 21-04 REVISED - TREE PRESERV								
Engi		ner/Dev	·						
		nok Landco I							

Engine Wallbrook Landco, LLC Ark Consulting Group, PLLC 2755 Charles Blvd - Suite B 3 Keel St, Ste 2 Greenville, NC 27858 Wrightsville Beach, NC 28480 (252) 558-0888 (704) 621-6430 Contact: Bryan Fagundus, PE Contact: Austin Williams bryan@arkconsultinggroup.com

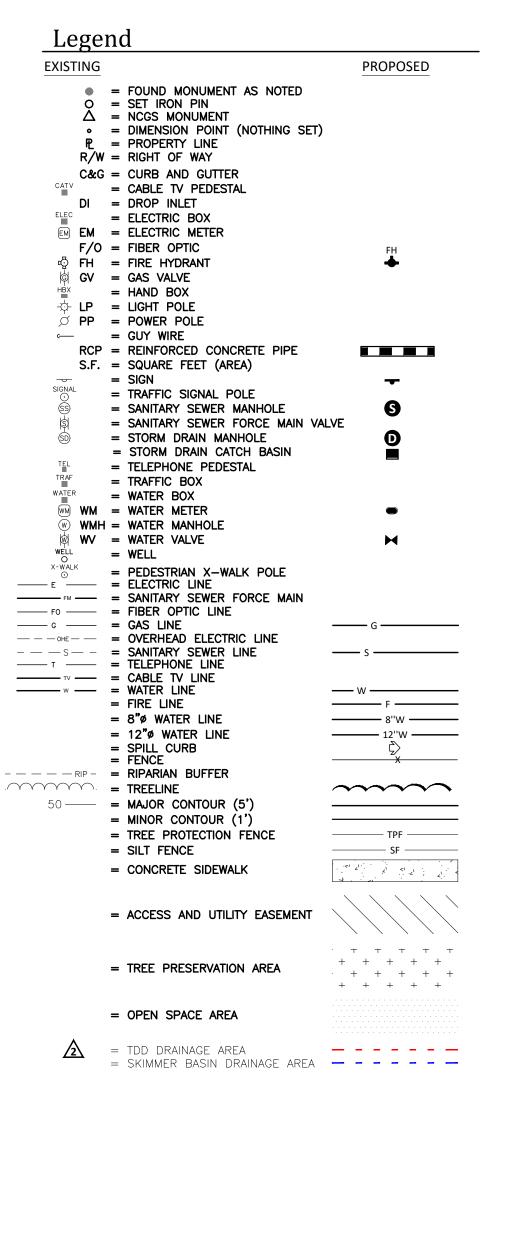
30' 60'





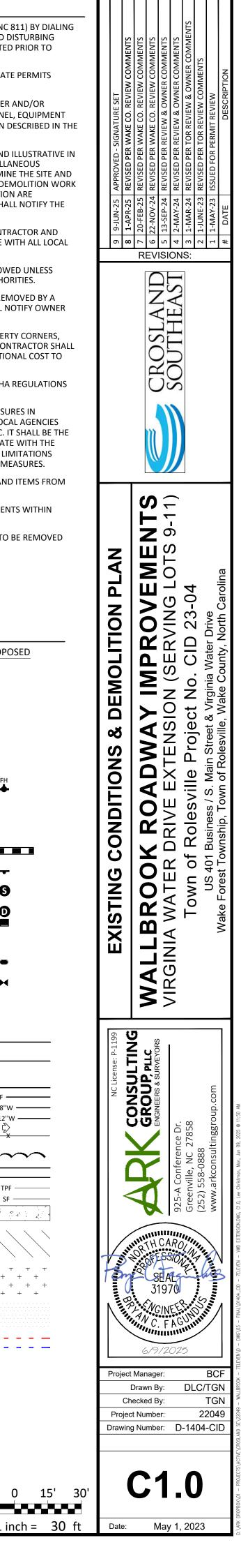
# **Demolition Notes:**

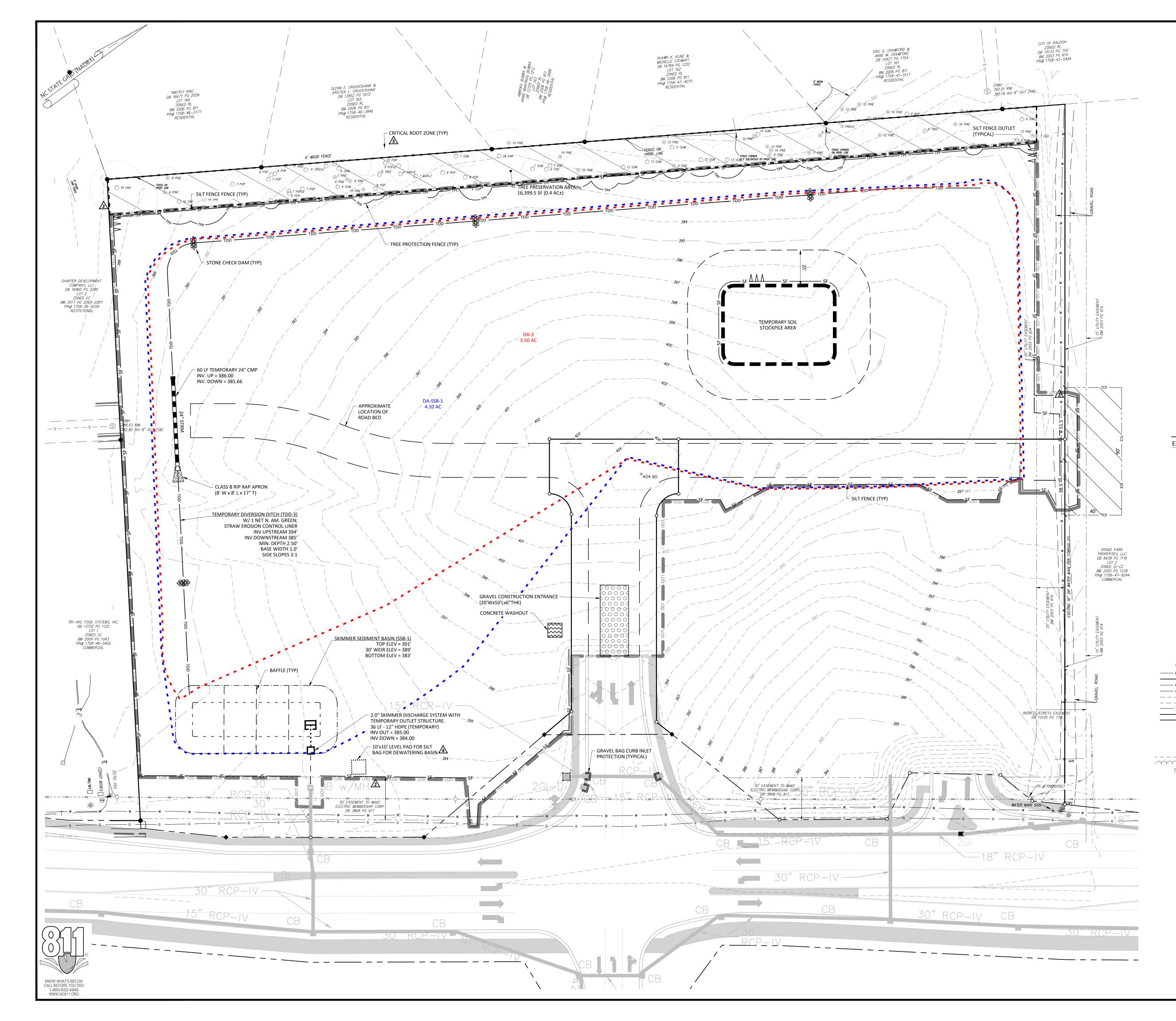
- 1. CONTRACTOR SHALL CONTACT NORTH CAROLINA ONE-CALL CENTER (NC 811) BY DIALING 811 OR 1-800-632-4949 AT LEAST 72 HOURS IN ADVANCE OF ANY LAND DISTURBING ACTIVITY OR DIGGING AND HAVE ALL UNDERGROUND UTILITIES LOCATED PRIOR TO EXCAVATING OR TRENCHING.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL LOCAL AND STATE PERMITS REQUIRED FOR DEMOLITION WORK.
- 3. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND/OR ENGINEER FOR ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT AND/OR EXISTING FACILITIES IN THE DEMOLITION AND CONSTRUCTION DESCRIBED IN THE PLANS AND SPECIFICATIONS.
- 4. EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL AND ILLUSTRATIVE IN NATURE AND DO NOT INCLUDE MECHANICAL, ELECTRICAL AND MISCELLANEOUS STRUCTURES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING ON THE DEMOLITION WORK FOR THIS PROJECT. IF CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT THAN THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- 5. ALL DEMOLITION WASTE AND DEBRIS SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF IN A STATE APPROVED WASTE SITE AND IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.
- 6. THE BURNING OF CLEARED MATERIAL AND DEBRIS SHALL NOT BE ALLOWED UNLESS CONTRACTOR GETS WRITTEN AUTHORIZATION FROM THE LOCAL AUTHORITIES.
- 7. ASBESTOS OR HAZARDOUS MATERIALS, IF FOUND ON SITE, SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIALS CONTRACTOR. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY IF HAZARDOUS MATERIALS ARE ENCOUNTERED.
- 8. CONTRACTOR SHALL PROTECT ALL CORNER PINS, MONUMENTS, PROPERTY CORNERS, AND BENCHMARKS DURING DEMOLITION ACTIVITIES. IF DISTURBED, CONTRACTOR SHALL HAVE DISTURBED ITEMS RESET BY A LICENSED SURVEYOR AT NO ADDITIONAL COST TO THE OWNER.
- 9. CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE, FEDERAL, AND OSHA REGULATIONS WHEN OPERATING DEMOLITION EQUIPMENT AROUND UTILITIES.
- 10. CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC CONTROL MEASURES IN ACCORDANCE WITH THE NCDOT STANDARDS, AND AS REQUIRED BY LOCAL AGENCIES WHEN WORKING IN AND/OR ALONG STREETS, ROADS, HIGHWAYS, ETC. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN APPROVAL AND COORDINATE WITH THE LOCAL AND/OR STATE AGENCIES REGARDING THE NEED, EXTENT, AND LIMITATIONS ASSOCIATED WITH INSTALLING AND MAINTAINING TRAFFIC CONTROL MEASURES.
- 11. CONTRACTOR SHALL PROTECT AT ALL TIMES ADJACENT STRUCTURES AND ITEMS FROM DAMAGE DUE TO DEMOLITION OR CONSTRUCTION ACTIVITIES.
- 12. CONTRACTOR SHALL REMOVE EXISTING VEGETATION AND IMPROVEMENTS WITHIN LIMITS OF DISTURBANCE UNLESS NOTED OTHERWISE.
- 13. TREES OUTSIDE OF CONSTRUCTION LIMITS OR TREES NOT INDICATED TO BE REMOVED SHALL BE PROTECTED.

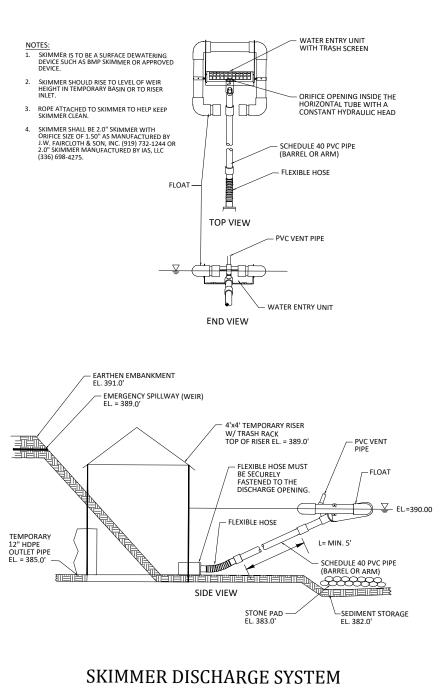


30'

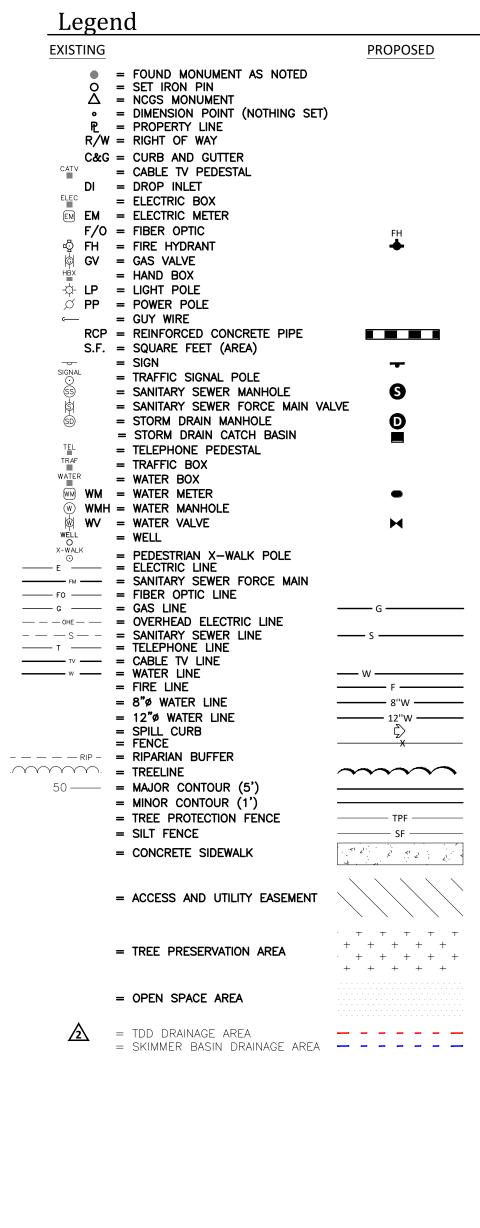
SCALE 1 inch = 30 ft





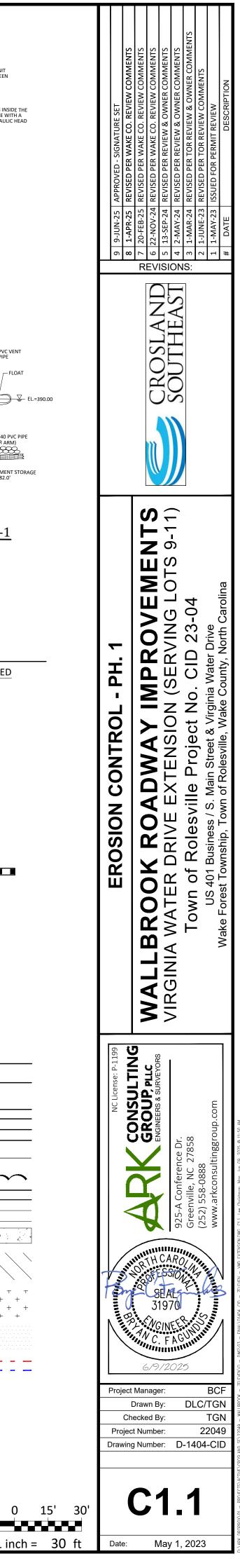


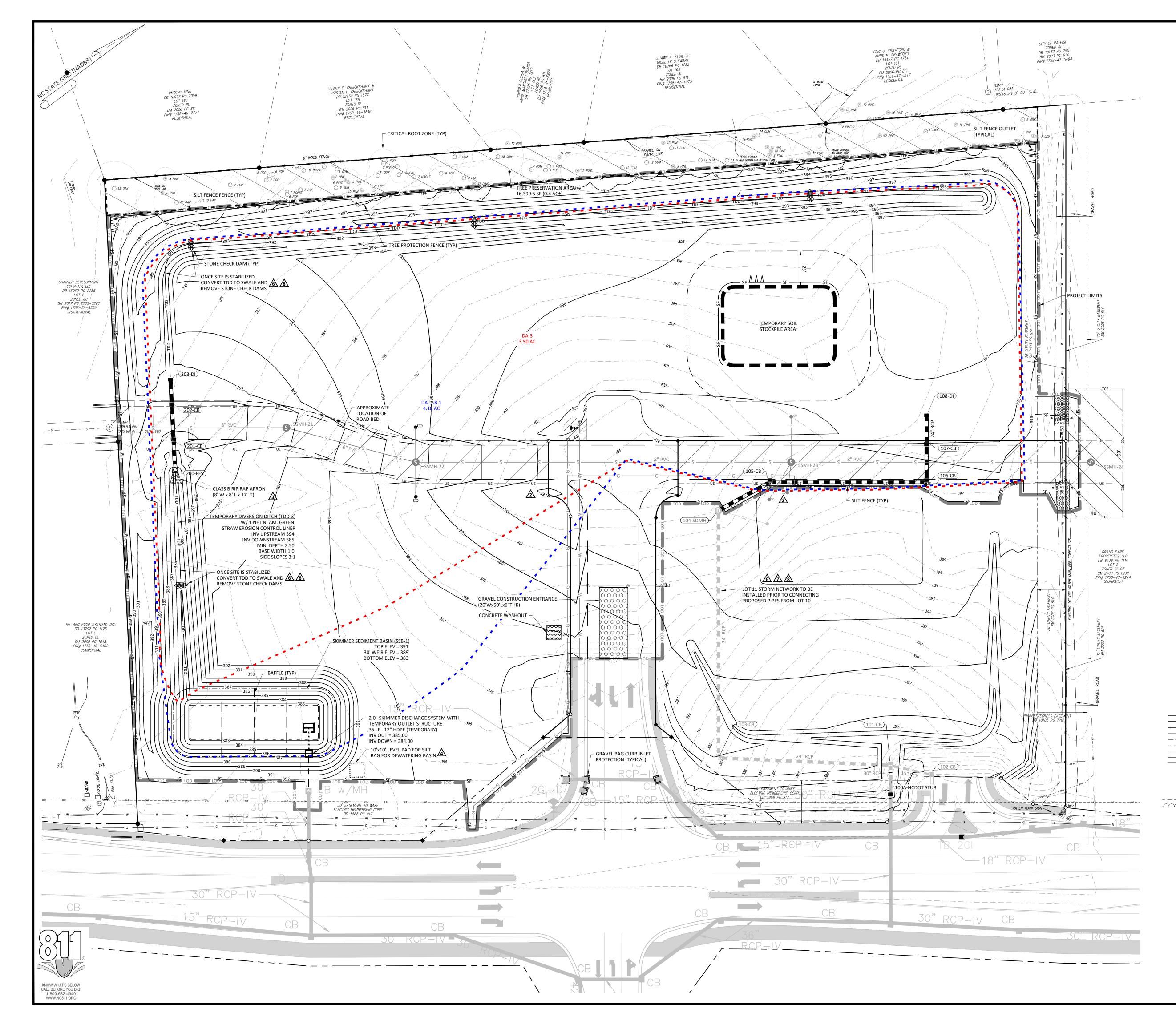
# WITH OUTLET STRUCTURE FOR SSB-1 NOT TO SCALE



30'

SCALE 1 inch = 30 ft





STRUCTURE TABLE						
ID	ТОР	IN	Ουτ	DESC		
104-SDMH	397.42	387.21 (105-CB) 389.57 (104A-CO)	387.01 (103-CB)	48 in MH		
105-CB	397.54	387.90 (106-CB)	387.70 (104-SDMH)	Catch Basin		
106-CB	397.03	389.43 (107-CB) 392.75 (106A-CO)	389.23 (105-CB)	Catch Basin		
107-CB	397.03	389.96 (108-DI)	389.76 (106-CB)	Catch Basin		
108-DI	396.90		390.19 (107-CB)	Drop Inlet		

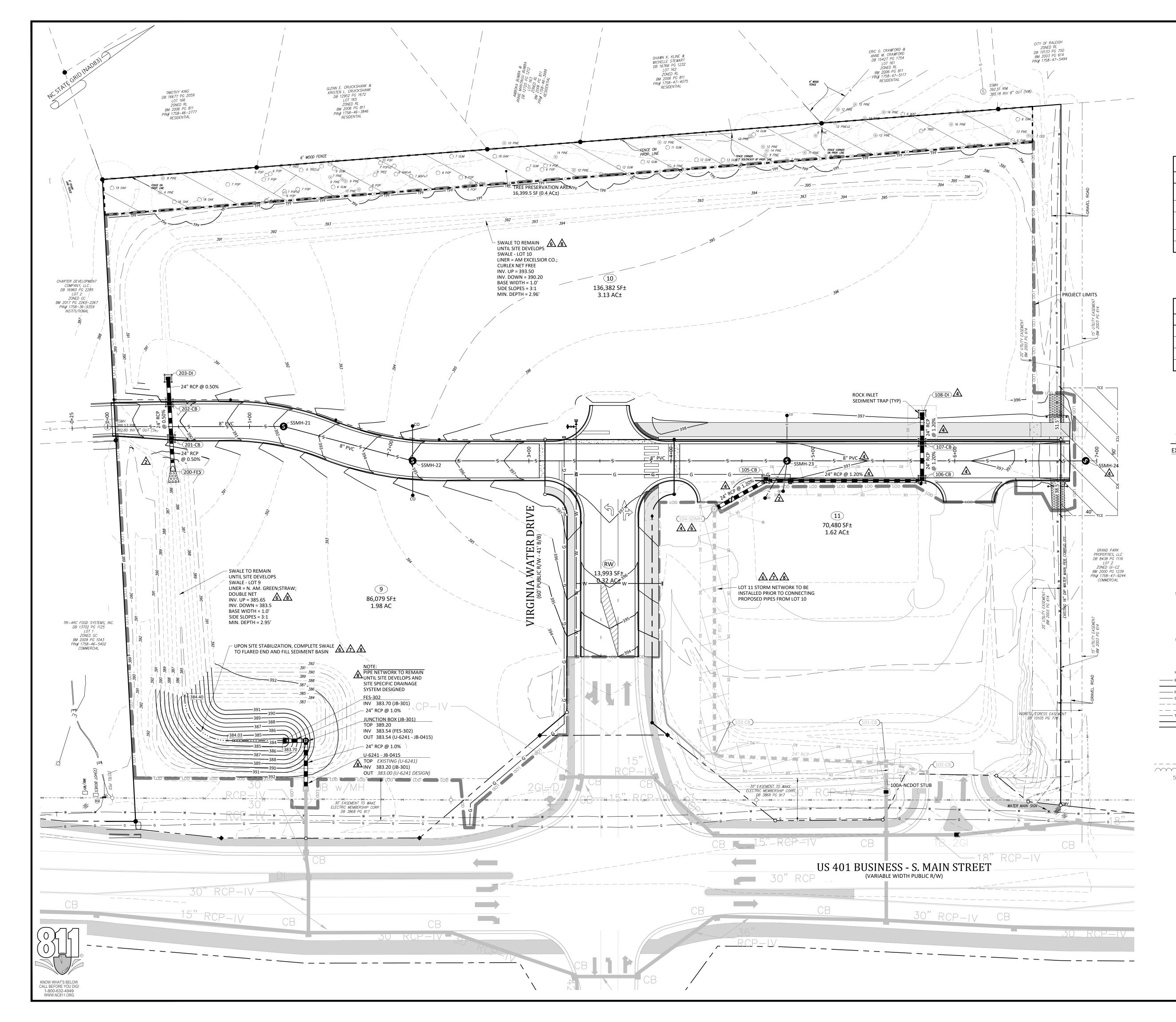
▲ STRUCTURE TABLE					
ID	ТОР	IN	OUT	DESC	
200-FES	387.99	385.66 (201-CB)		Flared End Section	
201-CB	390.03	385.77 (202-CB)	385.77 (200-FES)	Catch Basin	
202-CB	390.16	385.90 (203-DI)	385.90 (201-CB)	Catch Basin	
203-DI	390.17		385.99 (202-CB)	Drop Inlet	

# Rip Rap Aprons

	Size			Pad Length	Pad Depth	Stone
Outlet	(in)	(ft)	(ft)	(ft)	(in)	Class
200-FES	24	4	8	8	17	В
		•				

Lege	nd	
EXISTING		PROPOSED
• • •	= FOUND MONUMENT AS NOTED = SET IRON PIN	
 الک	= NCGS MONUMENT = DIMENSION POINT (NOTHING SET) = PROPERTY LINE	
C&G	= RIGHT OF WAY = CURB AND GUTTER	
	= CABLE TV PEDESTAL = DROP INLET	
	= ELECTRIC BOX = ELECTRIC METER	
F/0	= FIBER OPTIC = FIRE HYDRANT	FH
🛱 GV	= GAS VALVE	•
-¢- LP	= HAND BOX = LIGHT POLE	
Ø PP 	= POWER POLE = GUY WIRE	
	= REINFORCED CONCRETE PIPE = SQUARE FEET (AREA)	
SIGNAI	= SIGN = TRAFFIC SIGNAL POLE	-
i i i i i i i i i i i i i i i i i i i	= SANITARY SEWER MANHOLE = SANITARY SEWER FORCE MAIN VA	S
SD	= STORM DRAIN MANHOLE = STORM DRAIN CATCH BASIN	D
TEL TRAF	= TELEPHONE PEDESTAL	
WATER	= TRAFFIC BOX = WATER BOX	
	= WATER METER = WATER MANHOLE	
	= WATER VALVE = WELL	M
X-WALK O E	= PEDESTRIAN X-WALK POLE = ELECTRIC LINE	
FM	= SANITARY SEWER FORCE MAIN = FIBER OPTIC LINE	
	= OVERHEAD ELECTRIC LINE	G
— T ——	= SANITARY SEWER LINE = TELEPHONE LINE	\$
TV W	= WATER LINE	— W —
	= FIRE LINE = 8"ø WATER LINE	F 8''W
	= 12"Ø WATER LINE = SPILL_CURB	12"W
— — — RIP –	= FENCE = RIPARIAN BUFFER	
50 ——	= TREELINE = MAJOR CONTOUR (5')	
	= MINOR CONTOUR (1') = TREE PROTECTION FENCE	TPF
	= SILT FENCE	SF
	= CONCRETE SIDEWALK	
	= ACCESS AND UTILITY EASEMENT	
		· + + + + +
	= TREE PRESERVATION AREA	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
	= OPEN SPACE AREA	
	= TDD DRAINAGE AREA = SKIMMER BASIN DRAINAGE AREA	= = = = = = = =

DESC         11 (103-CB)       48 in MH         .04-SDMH)       Catch Basin         31 (105-CB)       Catch Basin         36 (106-CB)       Catch Basin         9 (107-CB)       Drop Inlet         DESC         Flared End Section         Flared End Section         Catch Basin         Catch Basin         Catch Basin         DESC         Flared End Section         Catch Basin         Catch Basin         Catch Basin         Catch Basin         Catch Basin         Catch Basin	9 9-JUN-25 APPROVED - SIGNATURE SET	8 1-APR-25	R / 20-FEB-25	6 22-NUV-24	13-SEP-24	4 2-MAY-24	3 1-MAR-24	2 1-JUNE-23 REVISED PER TOR REVIEW COMMENTS 1 1-MAV-23 ISSUED FOR DERMIT REVIEW	DATE	-
CB) Drop Inlet	EROSION CONTROL PLAN - PH. 2		WALL REOOK BOADWAY IMDROVEMENTS		VIRGINIA WATER DRIVE EXTENSION (SERVING LOTS 9-11)		Town of Rolesville Project No. CID 23-04	US 401 Business / S. Main Street & Virginia Water Drive		
F	Proje	Chec ject N			CA/ SS/ AL 97 /NE FA	RON EEG		B C/T(	CF GN GN 49	альки поповоли по всего илисторования минарома дескеми лики и дескем има дескем има счаскоми по слов да 41-50 м
30' 0 15' 30' SCALE 1 inch = 30 ft	Date					-	202			

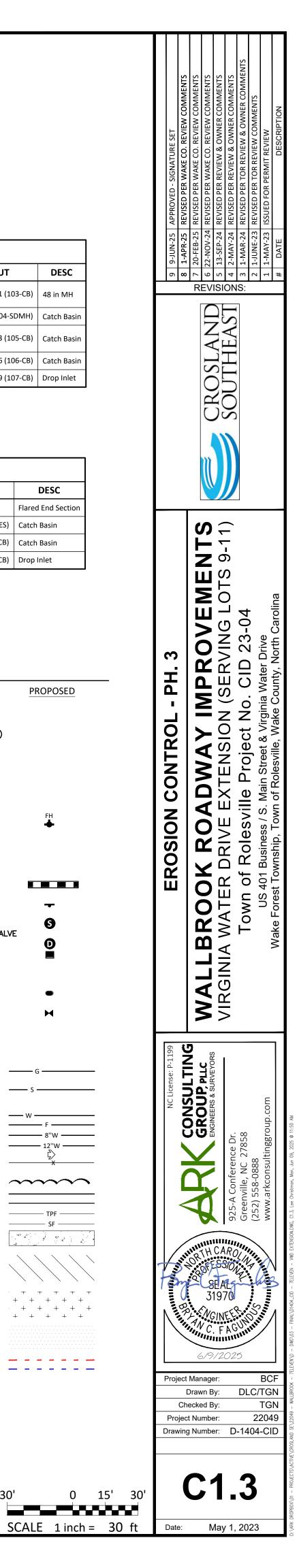


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₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽		FIRE HYDRANT GAS VALVE	-
		HAND BOX	
-¢-LP		LIGHT POLE	
Ø PP		POWER POLE GUY WIRE	
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S.F.		SQUARE FEET (AREA)	
SIGNAL		SIGN	-
⊙ ss		TRAFFIC SIGNAL POLE SANITARY SEWER MANHOLE	G
SIGNAL SS SS SS SS SS SS SS		SANITARY SEWER FORCE MAIN VA	LVE
SD		STORM DRAIN MANHOLE	D
T <u>E</u> L		STORM DRAIN CATCH BASIN TELEPHONE PEDESTAL	
TRAF		TRAFFIC BOX	
WATER		WATER BOX	
		WATER METER WATER MANHOLE	
(w) ₩MH  ☆  ₩V		WATER WANHOLE	H
WELL		WELL	
K-WALK ⊙		PEDESTRIAN X-WALK POLE	
E		ELECTRIC LINE SANITARY SEWER FORCE MAIN	
-o	=	FIBER OPTIC LINE	
G		GAS LINE OVERHEAD ELECTRIC LINE	G
– S — –		SANITARY SEWER LINE	<u> </u>
т ——			
— TV —— — W ——		CABLE TV LINE WATER LINE	— w ——
		FIRE LINE	——— F ———
		8"ø WATER LINE 12"ø WATER LINE	8"W
		SPILL CURB	
	=	FENCE	X
- — RIP —		RIPARIAN BUFFER TREELINE	$\sim\sim\sim\sim$
i0 ———		MAJOR CONTOUR (5')	
		MINOR CONTOUR (1')	
		TREE PROTECTION FENCE	TPF
		SILT FENCE	SF
	=	CONCRETE SIDEWALK	
	=	ACCESS AND UTILITY EASEMENT	$\langle \langle \langle \rangle \rangle \rangle \langle \rangle \rangle$
			· + + + + +
	=	TREE PRESERVATION AREA	+ + + + + + + + + + + + + + + + + + +
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	_		
	=	OPEN SPACE AREA	
À		TDD DRAINAGE AREA	
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∕∆	=	TDD DRAINAGE AREA	
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	=	TDD DRAINAGE AREA	

30'



	BILIZATION	
Re	quired Ground Stab	ilization Timeframes
Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	s Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	<ul> <li>-7 days for slopes greater than 50' in length and with slopes steeper than 4:1</li> <li>-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones</li> <li>-10 days for Falls Lake Watershed</li> </ul>
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope
practicable but in no case le activity. Temporary ground surface stable against accel	onger than 90 calend d stabilization shall b lerated erosion until SPECIFICATION	hanent ground stabilization as soon as dar days after the last land disturbing be maintained in a manner to render the I permanent ground stabilization is achieved.
techniques in the table bel	ow:	
Temporary Stab	vered with straw • kifiers	Permanent Stabilzation Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil
<ul> <li>Temporary grass seed cov or other mulches and tack</li> <li>Hydroseeding</li> <li>Rolled erosion control pro without temporary grass</li> <li>Appropriately applied strational plastic sheeting</li> </ul>	oducts with or seed • aw or other mulch •	reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch

EQU	IIPMENT AND VEHICLE MAINTENANCE
1.	Maintain vehicles and equipment to prevent discharge of fluids.
2.	Provide drip pans under any stored equipment.
3.	Identify leaks and repair as soon as feasible, or remove leaking equipment from project.
4.	Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
5.	Remove leaking vehicles and construction equipment from service until the prot has been corrected.
6.	Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products a recycling or disposal center that handles these materials.
1770	
1.	<b>R, BUILDING MATERIAL AND LAND CLEARING WASTE</b> Never bury or burn waste. Place litter and debris in approved waste containers.
1. 2.	Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
3.	Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
4.	Locate waste containers on areas that do not receive substantial amounts of runc from upland areas and does not drain directly to a storm drain, stream or wetland
5.	Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
6.	Anchor all lightweight items in waste containers during times of high winds.
7.	Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
8.	Dispose waste off-site at an approved disposal facility.
9.	On business days, clean up and dispose of waste in designated waste containers.
PAIN	IT AND OTHER LIQUID WASTE
1.	Do not dump paint and other liquid waste into storm drains, streams or wetland
2.	Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
3.	Contain liquid wastes in a controlled area.
4.	Containment must be labeled, sized and placed appropriately for the needs of si
5.	Prevent the discharge of soaps, solvents, detergents and other liquid wastes fror construction sites.
-	TABLE TOILETS
1.	Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foc
	offset is not attainable, provide relocation of portable toilet behind silt fence or p
	on a gravel pad and surround with sand bags.
2.	Provide staking or anchoring of portable toilets during periods of high winds or ir foot traffic areas.
3.	Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and rep with properly operating unit.

#### EARTHEN STOCKPILE MANAGEMENT

- 1. Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably
- available. 2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- 3. Provide stable stone access point when feasible.
- 4. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

## NCG01 GROUND STABILIZATION AND MATERIALS HANDLING **EFFECTIVE: 04/01/19**

#### PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

#### SECTION B: RECORDKEEPING

1. E&SC Plan Documentation The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be documented in the manner described:

Item to Document	<b>Documentation Requirements</b>		
(a) Each E&SC Measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC Plan.	Initial and date each E&SC Measure on a copy of the approved E&SC Plan or complete, date and sign an inspection report that lists each E&SC Measure shown on the approved E&SC Plan. This documentation is required upon the initial installation of the E&SC Measures or if the E&SC Measures are modified after initial installation.		
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate completion of the construction phase.		
(c) Ground cover is located and installed in accordance with the approved E&SC Plan.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.		
(d) The maintenance and repair requirements for all E&SC Measures have been performed.	Complete, date and sign an inspection report.		
(e) Corrective actions have been taken to E&SC Measures.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate the completion of the corrective action.		

#### 2. Additional Documentation

In addition to the E&SC Plan documents above, the following items shall be kept on the and available for agency inspectors at all times during normal business hours, unless the

- Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:
- (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 provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.
- c) All data used to complete the Notice of Intent and older inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

SELF-INSPECTION, RECORDKEEPING AND REPORTING

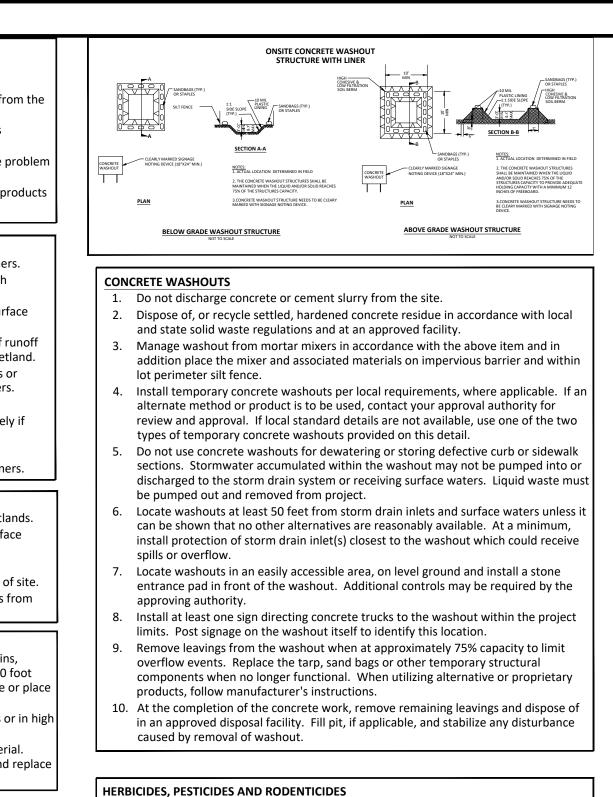
or surrounded by secondary containment structures.

#### 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, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspection were delayed shall be noted in the Inspection Record.

PART I

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is availa record the cumulative rain measurement for those un-attended d (and this will determine if a site inspection is needed). Days on wil no rainfall occurred shall be recorded as "zero." The permittee mu use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	<ol> <li>Identification of the measures inspected,</li> <li>Date and time of the inspection,</li> <li>Name of the person performing the inspection,</li> <li>Indication of whether the measures were operating properly,</li> <li>Description of maintenance needs for the measure,</li> <li>Description, evidence, and date of corrective actions taken.</li> </ol>
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	<ol> <li>Identification of the discharge outfalls inspected,</li> <li>Date and time of the inspection,</li> <li>Name of the person performing the inspection,</li> <li>Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration,</li> <li>Indication of visible sediment leaving the site,</li> <li>Description, evidence, and date of corrective actions taken.</li> </ol>
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	<ul> <li>If visible sedimentation is found outside site limits, then a record of the following shall be made:</li> <li>1. Actions taken to clean up or stabilize the sediment that has left the site limits,</li> <li>2. Description, evidence, and date of corrective actions taken, and</li> <li>3. An explanation as to the actions taken to control future releases.</li> </ul>
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activi then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit of this permit.
(6) Ground stabilization measures	After each phase of grading	<ol> <li>The phase of grading (installation of perimeter E&amp;SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover).</li> <li>Documentation that the required ground stabilization measure have been provided within the required timeframe or an assurance that they will be provided as soon as possible.</li> </ol>



- Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions
- Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
- Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately. Do not stockpile these materials onsite.
- HAZARDOUS AND TOXIC WASTE
- Create designated hazardous waste collection areas on-site.
- Place hazardous waste containers under cover or in secondary containment. Do not store hazardous chemicals, drums or bagged materials directly on the ground

#### 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 if:

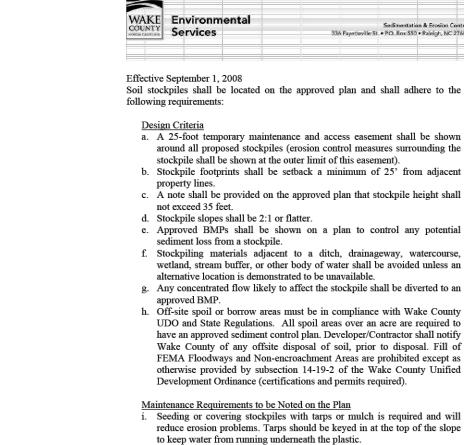
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).
- (a) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- (b) Anticipated bypasses and unanticipated bypasses.
- c) Noncompliance with the conditions of this permit that may endanger health or the environment

## 2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Division's Emergency Response personnel at (800) 662-7956, (800) 858-0368 or (919) 733-3300.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul> <li>Within 24 hours, an oral or electronic notification.</li> <li>Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis.</li> <li>If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.</li> </ul>
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	• Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	<ul> <li>A report at least ten days before the date of the bypass, if possible.</li> <li>The report shall include an evaluation of the anticipated quality and effect of the bypass.</li> </ul>
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	<ul> <li>Within 24 hours, an oral or electronic notification.</li> <li>Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.</li> </ul>
(e) Noncompliance with the conditions of this permit that may endanger health or the environment[40 CFR 122.41(I)(7)]	<ul> <li>Within 24 hours, an oral or electronic notification.</li> <li>Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(I)(6).</li> <li>Division staff may waive the requirement for a written report on a case-by-case basis.</li> </ul>

# EFFECTIVE: 04/01/19



practical).

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

#### **Erosion Control Provisions:**

- 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 MAY NOT PROCEED UNTIL EROSION CONTROL MEASURES ARE INSPECTED AND APPROVED BY THE ENGINEER.
- SCHEDULING OF A PRE-CONSTRUCTION CONFERENCE WITH THE WAKE COUNTY WATERSHED MANAGER, JEEVAN NEUPANE, PE (919-819-8907) PRIOR TO INITIATING LAND DISTURBING ACTIVITIES IS REQUIRED. FOR INSPECTION CALL 919-819-8907. 48 HOUR NOTICE IS REQUIRED.
- 4. INSTALL TREE PROTECTION FENCING AROUND ALL AREAS OUTSIDE OF THE LIMITS OF DISTURBANCE AS SHOWN ON PLANS.
- 5. PROVIDE 20' X 50' X 6" STONE CONSTRUCTION ENTRANCES AS SHOWN ON PLAN.
- 6. SEED OR OTHERWISE PROVIDE GROUND COVER DEVICES OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION FOR ALL EXPOSED SLOPES WITHIN 7 DAYS OF COMPLETION OF ANY PHASE OF GRADING ON PERIMETER AREAS AND SLOPES STEEPER THAN 3:1. ALL OTHER AREAS SHALL BE STABILIZED WITHIN 14 DAYS.
- 7. CONTRACTOR SHALL INSPECT AND MAINTAIN AS NEEDED ALL EROSION CONTROL DEVICES ON A WEEKLY BASIS AND AFTER EACH MAJOR STORM EVENT. FAILURE TO KEEP ALL EROSION CONTROL DEVICES IN PROPER WORKING ORDER MAY RESULT IN A STOP WORK ORDER OR CIVIL PENALTIES UP TO \$5000.00 PER DAY OF VIOLATION.
- 8. THE ENGINEER RESERVES THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES SHOULD THE PLAN OR ITS IMPLEMENTATION PROVE TO BE INADEQUATE.
- 9. ACCEPTANCE AND APPROVAL OF THIS PLAN IS CONDITIONED UPON YOUR COMPLIANCE WITH FEDERAL AND STATE WATER QUALITY LAWS, REGULATION AND RULES. IN ADDITION LOCAL CITY AND COUNTY ORDINANCES OR RULES MAY ALSO APPLY TO THIS LAND DISTURBING ACTIVITY. APPROVAL BY THE COUNTY DOES NOT SUPERSEDE ANY OTHER PERMIT OR APPROVAL.
- 10. PLEASE BE ADVISED OF THE RULES TO PROTECT AND MAINTAIN EXISTING BUFFERS ALONG WATERCOURSES IN THE NEUSE AND TAR RIVER BASINS. THESE RULES ARE ENFORCED BY THE DIVISION OF WATER RESOURCES (DWR). DIRECT ANY QUESTIONS ABOUT THE APPLICABILITY OF THESE RULES TO YOUR PROJECT TO THE REGIONAL WATER QUALITY SUPERVISOR, RALEIGH REGIONAL OFFICE AT (919) 791-4200.
- 11. ALL AREAS DOWNSTREAM OF TEMPORARY BASINS AND DITCHES ARE TO BE STABILIZED IMMEDIATELY UPON CONSTRUCTION.

## Construction Sequence: 🛦

#### PHASE 1

- 1. EROSION AND SEDIMENT CONTROL (E&SC) 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 AND FOR NOTIFICATION OF PROJECT START UP. 3. ANY DEWATERING ON THE SITE SHALL BE DONE THROUGH A SILT BAG THAT IS CONSTANTLY MONITORED.
- 4. INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, TREE PROTECTION FENCE, SILT FENCE, SEDIMENT BASINS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.

#### INSTALL TEMPORARY PIPE AS SHOWN ON C1.1. 6. CALL WATERSHED MANAGER, JEEVAN NEUPANE FOR AN ONSITE INSPECTION TO OBTAIN A CERTIFICATE OF COMPLIANCE.

#### PHASE 2

- 7. BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE SITE. INSTALL TEMPORARY SKIMMER SEDIMENT BASINS, ALONG WITH TEMPORARY DIVERSION DITCHES THAT SHALL BE INSTALLED TO ENSURE AS MUCH FLOW AS POSSIBLE IS DIRECTED TO THE BASINS.
- 8. AS ROUGH GRADING CONTINUES, DEVICES SHALL BE MAINTAINED AND CLEANED OF SEDIMENT. SKIMMER SEDIMENT BASINS TO BE ABANDONED SHALL BE REMOVED AS FOLLOWS: DEWATER THROUGH SILT BAG, CLEAN SEDIMENT, REMOVE BAFFLES, BACKFILL BASIN AND STABILIZE IMMEDIATELY. DEWATERING OPERATIONS THROUGH SILT BAGS SHALL BE MONITORED CONTINUOUSLY. 9. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, DITCH LININGS, ETC. SEED AND MULCH DENUDED
- AREAS PER GROUND STABILIZATION TIME FRAME. 10. INSTALL PERMANENT PIPE AS SHOWN C1.2.
- 11. WHEN ROUGH GRADING IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL WATERSHED MANAGER JEEVAN NEUPANE FOR INSPECTION.

#### PHASE 3

- 12. IF SITE IS APPROVED, MAINTAIN TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OR STABILIZED ANY RESULTING BARE AREAS. ALL REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATERS, SHOULD NOW BE INSTALLED.
- 13. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR FINAL SITE INSPECTION BY THE WATERSHED MANAGER, JEEVAN NEUPANE. OBTAIN CERTIFICATE OF COMPLETION.

	336 Fa	yetteville	St. • P.O. Box	550 • Raleigh	NC 27602	
				tation & Erosi		
				FAX 91	9 743 4772	
					9 856 7400	

Soil stockpiles shall be located on the approved plan and shall adhere to the

a. 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 b. Stockpile footprints shall be setback a minimum of 25' from adjacent c. A note shall be provided on the approved plan that stockpile height shall

e. Approved BMPs shall be shown on a plan to control any potential f. Stockpiling materials adjacent to a ditch, drainageway, watercourse

g. Any concentrated flow likely to affect the stockpile shall be diverted to an h. Off-site spoil or borrow areas must be in compliance with Wake County UDO and State Regulations. All spoil areas over an acre are required to

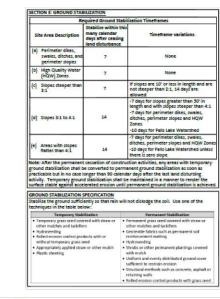
have an approved sediment control plan. Developer/Contractor shall notify Wake County of any offsite disposal of soil, prior to disposal. Fill of FEMA Floodways and Non-encroachment Areas are prohibited except as otherwise provided by subsection 14-19-2 of the Wake County Unified Development Ordinance (certifications and permits required).

i. Seeding or covering stockpiles with tarps or mulch is required and will reduce erosion problems. Tarps should be keyed in at the top of the slope j. 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. k. The approved plan shall provide for the use of staged seeding and mulching on a continual basis while the stockpile is in use. 1. Establish and maintain a vegetative buffer at the toe of the slope (where

## Seeding Specifications

#### NPDES Stormwater Discharge Permit for Construction Activities (NCGO1 - 4/1/19) NCDEQ/Division of Energy, Mineral and Land Resources



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 (see mixture below) 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, reestablish following the original lime, fertilizer and seeding rates. 9. Consult Wake County Soil & Water or NC State Cooperative Extension on maintenance treatment and fertilization after permanent cover is established Mixture Agricultural Limestone 2 tons/acre (3 tons/acre in clay soils) Fertilizer 1,000 lbs/acre - 10-10-10 500 lbs/acre – 20% analysis Superphosphate Mulch 2 tons/acre – small grain straw Asphalt emulsion at 400 gals/acre Anchor

#### eeding Schedule For Shoulders, Side Ditches, Slopes (Max 3:1): Date Type Planting Rate Aua 15 Tall Fescue 300 lbs/acre Nov ' Nov 1 Tall Fescue & Abruzzi Rye 300 lbs/acre Mar 1

- Mar 1-Tall Fescue 300 lbs/acre Apr 15 Apr 15- Hulled Common 25 lbs/acre
- Jun 30 Bermudagras
- Tall Fescue AND Browntop 125 lbs/acre (Tall Fescue); 35 Aug 15 Millet or Sorghum-Sudan Ibs/acre (Browntop Millet); 30 Ibs/acre (Sorghum-Sudan Hybrids) Hybrids\*\*

#### For Shoulders, Side Ditches, Slopes (3:1 to 2:1): Planting Rate Date Type Sericea Lespedeza (scarified) Mar 1-50 lbs/acre (Sericea Lespedeza); and use the following Jun 1 combinations: Mar 1-Add Tall Fescue 120 lbs/acre

- Or add Weeping Love grass 10 lbs/acre Jun 30 Mar 1– Or add Hulled Common 25 lbs/acre Jun 30 Bermudagrass Tall Fescue AND Browntop 120 lbs/acre (Tall Fescue): 35 lbs/acre Mullet or Sorghum-Sudan (Browntop Mullet); 30 lbs/acre Sept 1 Hvbrids\*\* (Sorghum-Sudan Hybrids) Sept 1- Sericea Lespedeza (unhulled
  - 70 lbs/acre (Sericea Lespedeza); 120 unscarified) AND Tall lbs/acre (Tall Fescue)

Nov 1 AND Abruzzi Ry Mar '

Fescue

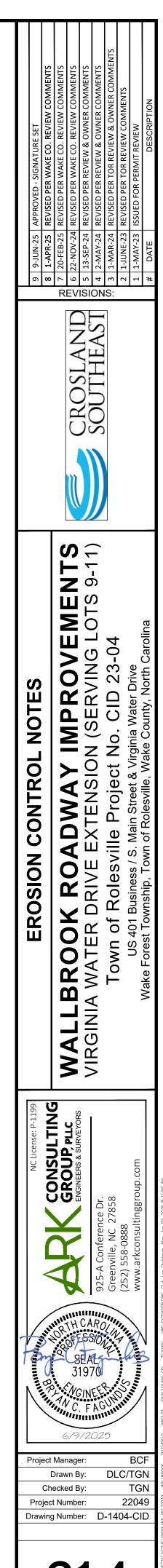
Apr 1

Mar 1

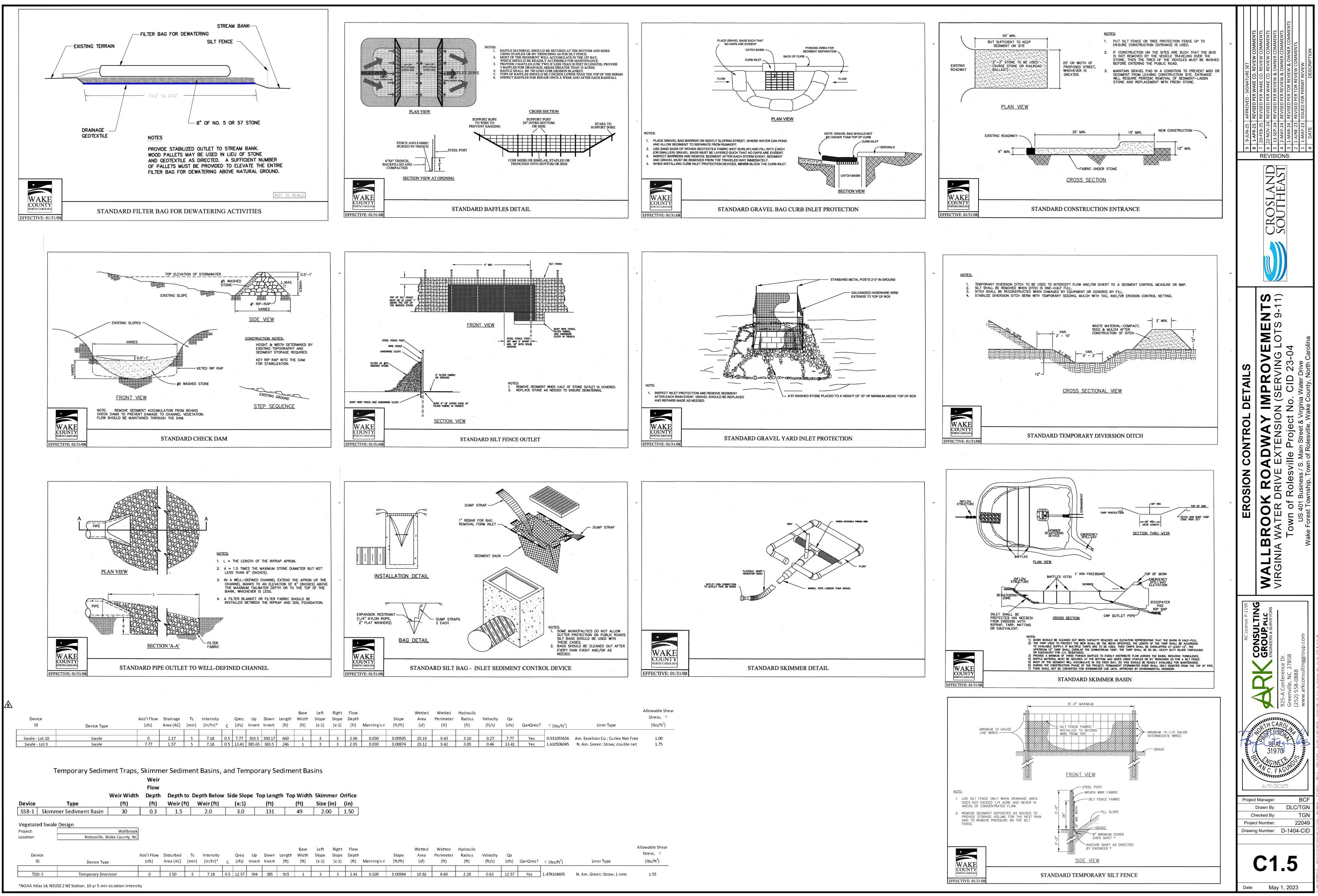
Consult Wake County Soil & Water Conservation District or NC State Cooperative Extension for additional information concerning other alternatives for vegetation of denuded areas. The above vegetation rates are those that do well under local conditions; other seeding rate combinations are possible.

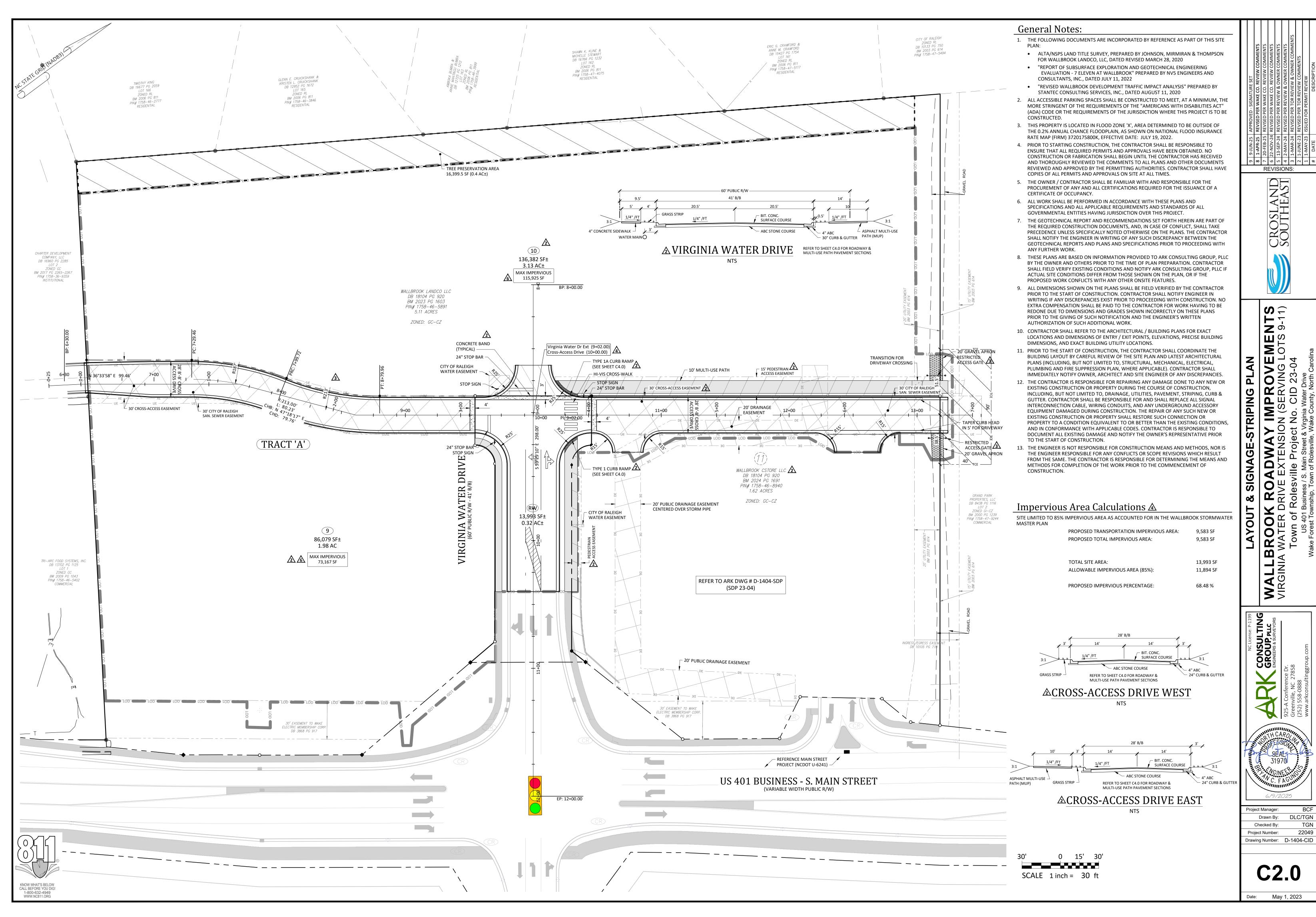
25 lbs/acre

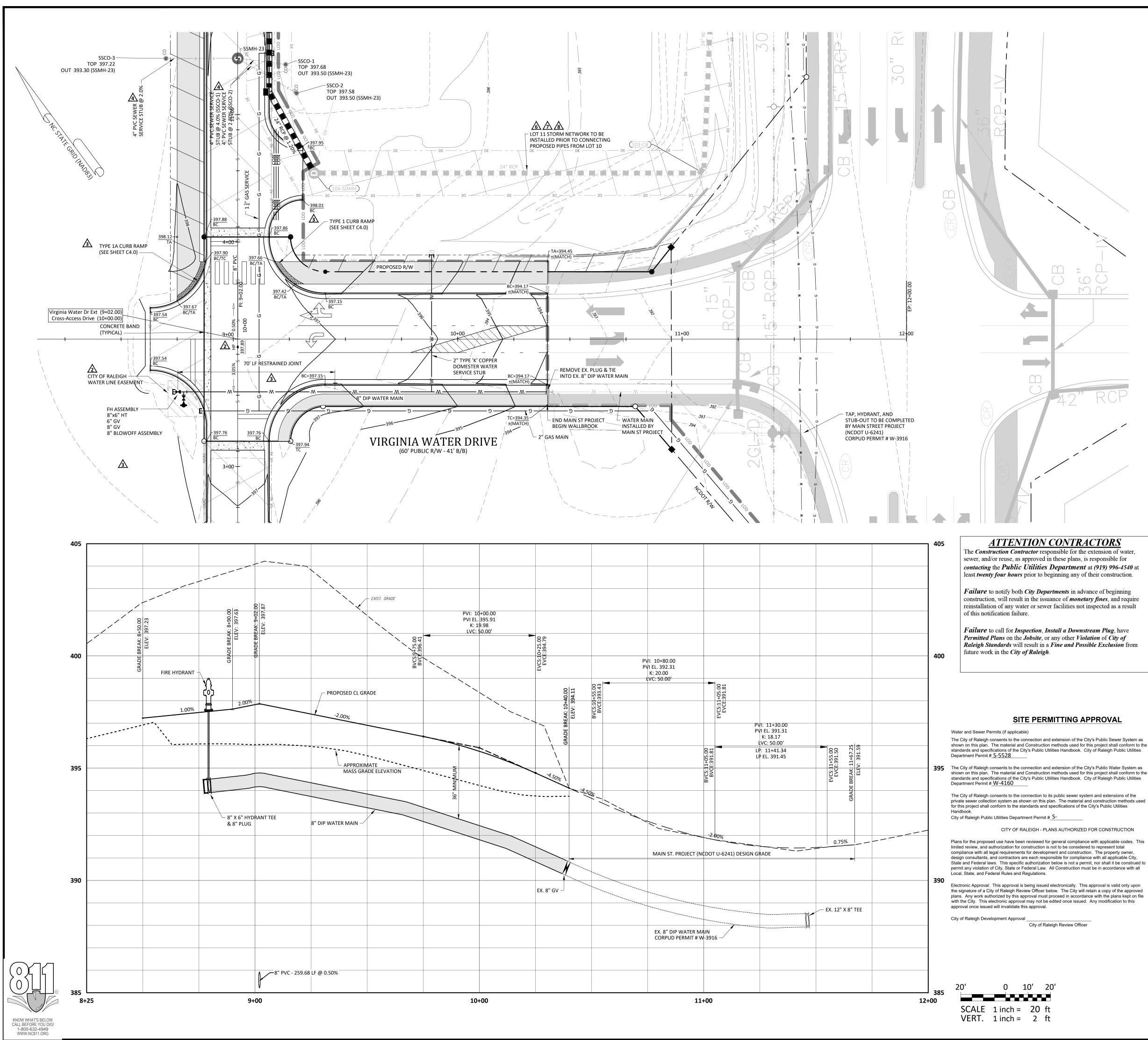
\*\*\* TEMPORARY: Reseed according to optimum season for desired permanent vegetation. Do not allow temporary cover to grow more than 12" in height before mowing; otherwise, fescue may be shaded out.

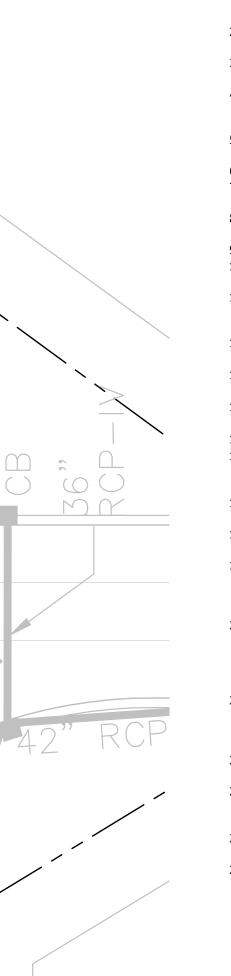


May 1, 2023









Grading Notes:

PLAN SET.

PROTECTED

DURING CONSTRUCTION.

STAND OF GRASS IS OBTAINED.

MATTING SHALL BE CONTECH LANDLOK C2 OR EQUAL.

CONTAIN ROCKS HAVING A DIAMETER OVER 3 INCHES.

STRUCTURAL FILL SHOULD BE NO LESS THAN 90 PCF.

STANDARD SPECIFICATIONS.

SURFACE OF THE COMPACTED AREAS.

OF NON-EXPANSIVE SOILS CAN BE USED AS COVER: (MH) AND (CH).

THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698).

WITH STRUCTURAL FILL, AND COMPACTED AS DESCRIBED ABOVE.

STOCKPILING OF DEBRIS WILL NOT BE PERMITTED.

OF APPROVALS TO OWNER PRIOR TO INITIATING WORK.

**CORPUD Standard Utility Notes:** 

BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR.

REQUIRED, TO MATCH PROPOSED GRADES.

PIPE (RCP) CLASS III WITH SOIL TIGHT JOINTS.

2. UTILITY SEPARATION REQUIREMENTS:

OR 50' FROM A PUBLIC WELL.

DETAILS W-41 & S-49).

MIN. VERTICAL SEPARATION REQUIRED.

PLAN &/OR PROFILE BY CORPUD PRIOR TO CONSTRUCTION.

MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS.

EASEMENT PER CORPUD HANDBOOK PROCEDURE.

WATERLINE EASEMENT IMMEDIATELY ADJACENT.

OR EASEMENT LINE & SPACED EVERY 75 LINEAR FEET MAXIMUM.

DRAINS LOWER THAN 1.0' ABOVE THE NEXT UPSTREAM MANHOLE.

DRAINAGE PIPING.

STRUCTURAL FILL: (ML), (CL), (SM), AND (SC).

IN LARGEST DIRECTION.

# SITE PERMITTING APPROVAL

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

IMPACTS 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.

3. ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED

RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECESSARY

SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24 HOUR ADVANCE NOTICE TO CORPUD.

IT IS THE DEVELOPERS RESPONSIBILITY TO ABANDON OR REMOVE EXISTING WATER & SEWER

SERVICES NOT BEING USED IN REDEVELOPMENT OF A SITE UNLESS OTHERWISE DIRECTED BY

CORPUD. THIS INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF SERVIC FROM ROW OR

8. INSTALL PVC SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT ROW

4. CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING

5. 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCEMAINS. 4.0'

INSTALL PVC WATER SERVICES WITH METERS LOCATED AT ROW OR WITHIN A 2' X 2'

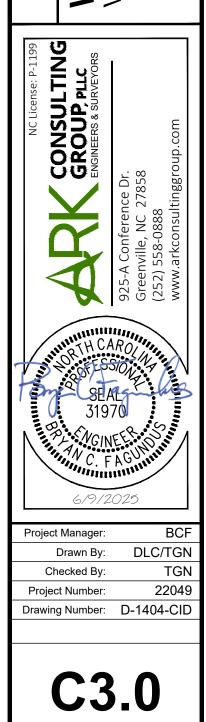
9. PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI; BACKWATER VALVES ARE REQUIRED ON ALL SANITARY SEWER SERVICES HAVING BUILDING

10. ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM

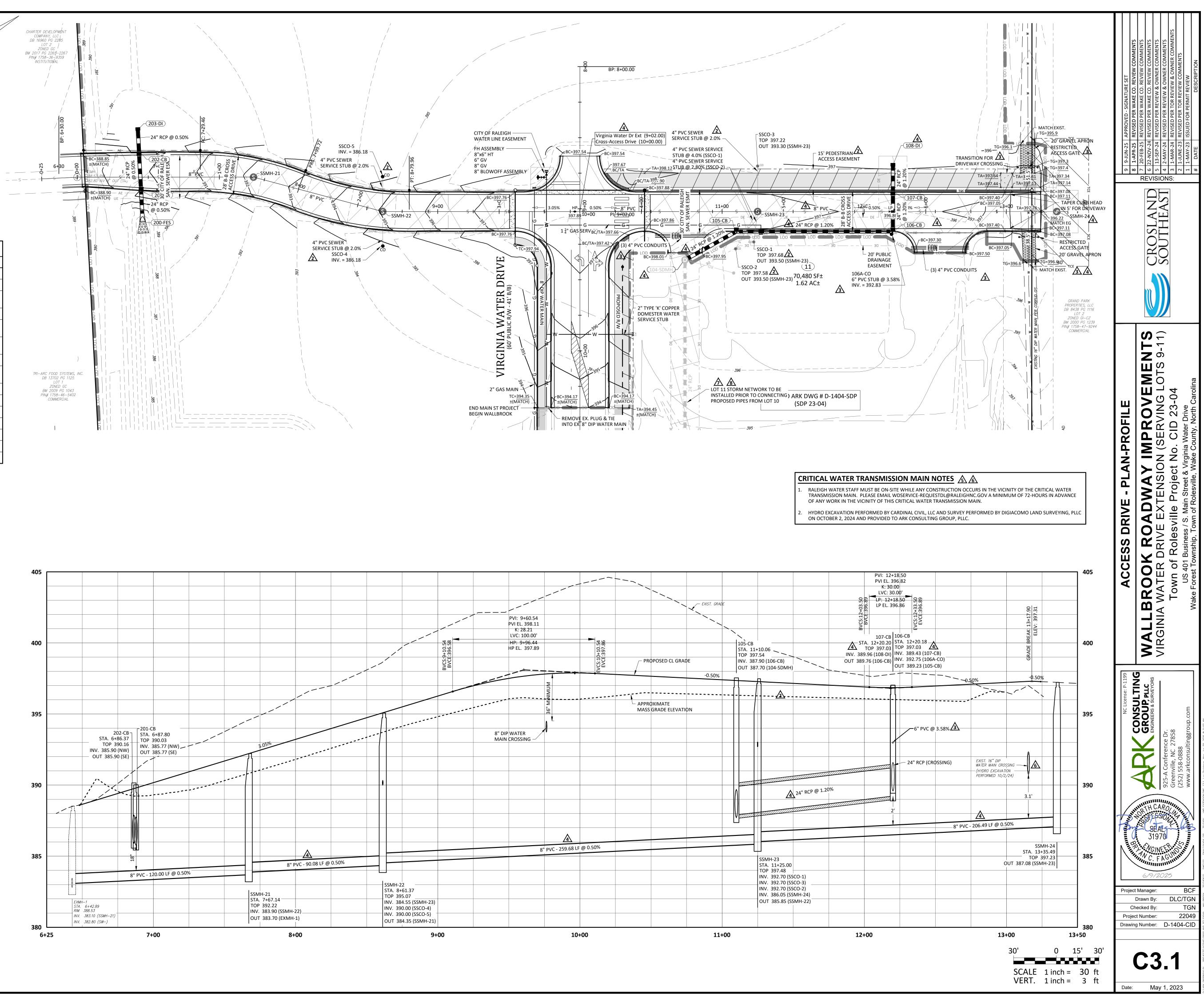
NCDWQ, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN

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 NC. THESE GUIDELINES ARE THE MINIMUM REQUIREMENTS. THE DEVICES SHALL MEET AMERICAN SOCIETY 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 MANUFACTURERS 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.

1. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT REFERENCED IN THIS 2. SITE CONTRACTOR TO GRADE ALL AREAS WITHIN THE LIMITS OF DISTURBANCE FROM BUILDING TO PROPERTY LINES AND TO EDGE OF PAVEMENT ON STREET SIDES, INCLUDING ROW. 3. TREES OUTSIDE OF CONSTRUCTION LIMITS OR TREES NOT INDICATED TO BE REMOVED SHALL BE 4. TOP SOIL SHALL BE STRIPPED FROM ALL CUT AND FILL AREAS, STOCKPILED AND REDISTRIBUTED OVER GRADED AREAS. PROVIDE EROSION AND SEDIMENTATION CONTROLS AROUND STOCKPILES 5. TILL TOP SOIL TO A DEPTH OF 4" MINIMUM AND REMOVE ALL ROCKS LARGER THAN 1" MEASURED 6. GRADE ALL AREAS TO MAINTAIN POSITIVE SLOPE AWAY FROM BUILDING. 7. ALL GRADED AREAS TO RECEIVE SEED OR SOD, TOP SOIL, STRAW AND WATER UNTIL A HEALTHY 8. INSTALL TEMPORARY TURF REINFORCEMENT MATTING ON ALL SLOPES STEEPER THAN 3:1. 9. REFER TO CIVIL DETAILS FOR PAVEMENT IN PARKING AND DRIVE AREAS. 10. ALL SIDEWALKS SHALL BE CONSTRUCTED OF 3,500 PSI CONCRETE AND SHALL HAVE TOOLED REVISIONS: CONTROL JOINTS PER THE JOINT SPACING REFERENCED ON THE PLAN. **CROSLAND SOUTHEAST** 11. MATERIALS SELECTED FOR USE AS STRUCUTRAL FILL SHALL BE FREE OF VEGETABLE MATTER, WASTE CONSTRUCTION DEBRIS, AND OTHER DELETERIOUS MATERIALS. THE MATERIAL SHALL NOT 12. SOILS REPRESENTED BY THEIR USCS GROUP SYMBOLS WILL TYPICALLY BE SUITABLE FOR USE AS 13. THE FOLLOWING SOILS ARE CONSIDERED SUITABLE IN AREAS WHERE A MINIMUM THICKNESS OF 3 OF LOW PERMEABILITY SOILS CAN BE USED AS COVER: (SW), (SP-SM), AND (SP-SC). 14. THE FOLLOWING SOILS ARE CONSIDERED SUITABLE IN AREAS WHERE A MINIMUM THICKNESS OF 3' 15. THE FOLLOWING SOIL TYPES ARE CONSIDERED UNSUITABLE: (OL), (OH), AND (Pt). 16. ALL STRUCTURAL FILL SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698). ADDITIONALLY, THE IN-PLACE MAXIMUM DRY DENSITY OF 17. THE UPPER 12" OF BUILDING FLOOR SLAB SUBGRADES SHALL BE COMPACTED TO AT LEAST 98% OF 18. FILL PLACEMENT IN PAVEMENT AREAS SHALL BE PERFORMED IN ACCORDANCE WITH NCDOT 19. SUITABLE FILL MATERIAL SHALL BE PLACED IN 8" LIFTS AND COMPACTED BY MECHANICAL MEANS. PROOFROLLING WITH RUBBER TIRED, HEAVILY LOADED VEHICLES MAY BE DESIRABLE AT INTERVALS OF APPROXIMATELY 2 VERTICAL FEET TO BIND THE LIFTS TOGETHER AND TO SEAL THE **S** 20. ALL BUILDING, SIDEWALK, AND PAVEMENT SUB-GRADE COMPACTIONS SHALL BE INTERMEDIATELY TESTED THROUGHOUT FILL PLACEMENT OPERATIONS AND APPROVED BY THE GEOTECHNICAL ENGINEER. ALL SUB-GRADES SHALL BE THOROUGHLY PROOF-ROLLED TO IDENTIFY SMALL LOCALIZED AREAS OF UNSUITABLE SOILS. ALL UNSUITABLE SOILS SHALL BE UNDERCUT, REPLACED Ζの **ш** С -PROFILE 21. WHERE REQUIRED, PAVEMENT SHALL BE SAW CUT IN STRAIGHT LINES, AND EXCEPT FOR EDGE OF BUTT JOINTS, SHALL EXTEND TO THE FULL DEPTH OF THE EXISTING PAVEMENT. ALL DEBRIS FROM Σo REMOVAL OPERATIONS SHALL BE REMOVED FROM THE SITE AT THE TIME OF EXCAVATION. |ш\_ 22. THE TOPS OF EXISTING MANHOLES, INLET STRUCTURES, CLEANOUTS, ETC. SHALL BE ADJUSTED, AS 0 > 23. SITE CONTRACTOR SHALL BE REQUIRED TO SECURE ALL NECESSARY PERMITS AND APPROVALS FOR 0 OFF SITE MATERIAL SOURCES AND / OR DISPOSAL FACILITIES. CONTRACTOR SHALL SUPPLY A COPY Ζ  $\Box$ 24. UNLESS INDICATED OTHERWISE, ALL STORM DRAINAGE PIPE SHALL BE REINFORCED CONCRETE Δ Γ 25. SITE CONTRACTOR SHALL INSTALL BUILDING ROOF DRAINS TO WITHIN 2' OF THE BUILDING Σ EXTERIOR WALL, CAP AND PROVIDE ABOVE GROUND MARKER FOR LOCATION PURPOSES. GENERAL CONTRACTOR IS RESPONSIBLE FOR TIE-INS OF BUILDING DOWNSPOUTS TO SITE ROOF 3 1. ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF DRIV RALEIGH DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: CORPUD HANDBOOK) D) ЧШ a) A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR ́IÓЩ ∞́. PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS A SOURCE OF WATER DRINKING WATER. IF ADEQUATE LATER SEPARATION CANNOT BE ACHIEVED, FERROUS > 0 SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. 0 HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS THAN 25' FROM A PRIVATE WELL <sup>-</sup> کُ ص b) WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN of UTILITIES SHALL BE 10'. IF THIS SEPARATION CONNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH VIRGINIA RO MATI THE ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER & MUST Ó c) WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATER MAIN, DIP MATERIALS OR STEEL ENCASEMENT EXTENDED 10' ON Ω 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 WATER MAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 24" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, 35 SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE (PER CORPUD f) ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18"



May 1, 2023



	STRUCTURE TABLE				
ID	ТОР	IN	OUT	DESC	
100-DI	390.70			Drop Inlet	
100A-NCDOT STUB	385.95	383.00 (101-CB)		U-6241 Project Tie-In	
101-CB	394.11	383.27 (103-CB) 390.32 (102-CB)	383.07 (100A-NCDOT STUB)	Catch Basin	
102-CB	393.73		390.90 (101-CB)	Catch Basin	
103-CB	395.26	384.93 (104-SDMH) 386.27 (8'' PVC)	384.73 (101-CB)	Catch Basin	
104-SDMH	397.42	387.21 (105-CB) 389.57 (104A-CO)	387.01 (103-CB)	48 in MH	
105-CB	397.54	387.90 (106-CB)	387.70 (104-SDMH)	Catch Basin	
106-CB	397.03	389.43 (107-CB) 392.75 (106A-CO)	389.23 (105-CB)	Catch Basin	
106A-CO	397.17		392.83 (106-CB)	со	
107-CB	397.03	389.96 (108-DI)	389.76 (106-CB)	Catch Basin	
108-DI	396.90		390.19 (107-CB)	Drop Inlet	
200-FES	387.99	385.66 (201-CB)		Flared End Section	
201-CB	390.03	385.77 (202-CB)	385.77 (200-FES)	Catch Basin	
202-CB	390.16	385.90 (203-DI)	385.90 (201-CB)	Catch Basin	
203-DI	390.17		385.99 (202-CB)	Drop Inlet	

#### 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 # <u>S-5528</u>

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-4160

The City of Raleigh consents to the connection to its public sewer system and extensions of the private sewer collection 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 #\_\_\_\_\_

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 \_ City of Raleigh Review Officer

## **ATTENTION CONTRACTORS**

The Construction Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Utilities Department at (919) 996-4540 at least twenty four hours prior to beginning any of their construction.

Failure to notify both City Departments in advance of beginning construction, will result in the issuance of *monetary fines*, and require reinstallation of any water or sewer facilities not inspected as a result of this notification failure.

Failure to call for Inspection, Install a Downstream Plug, have Permitted Plans on the Jobsite, or any other Violation of City of Raleigh Standards will result in a Fine and Possible Exclusion from future work in the City of Raleigh.



