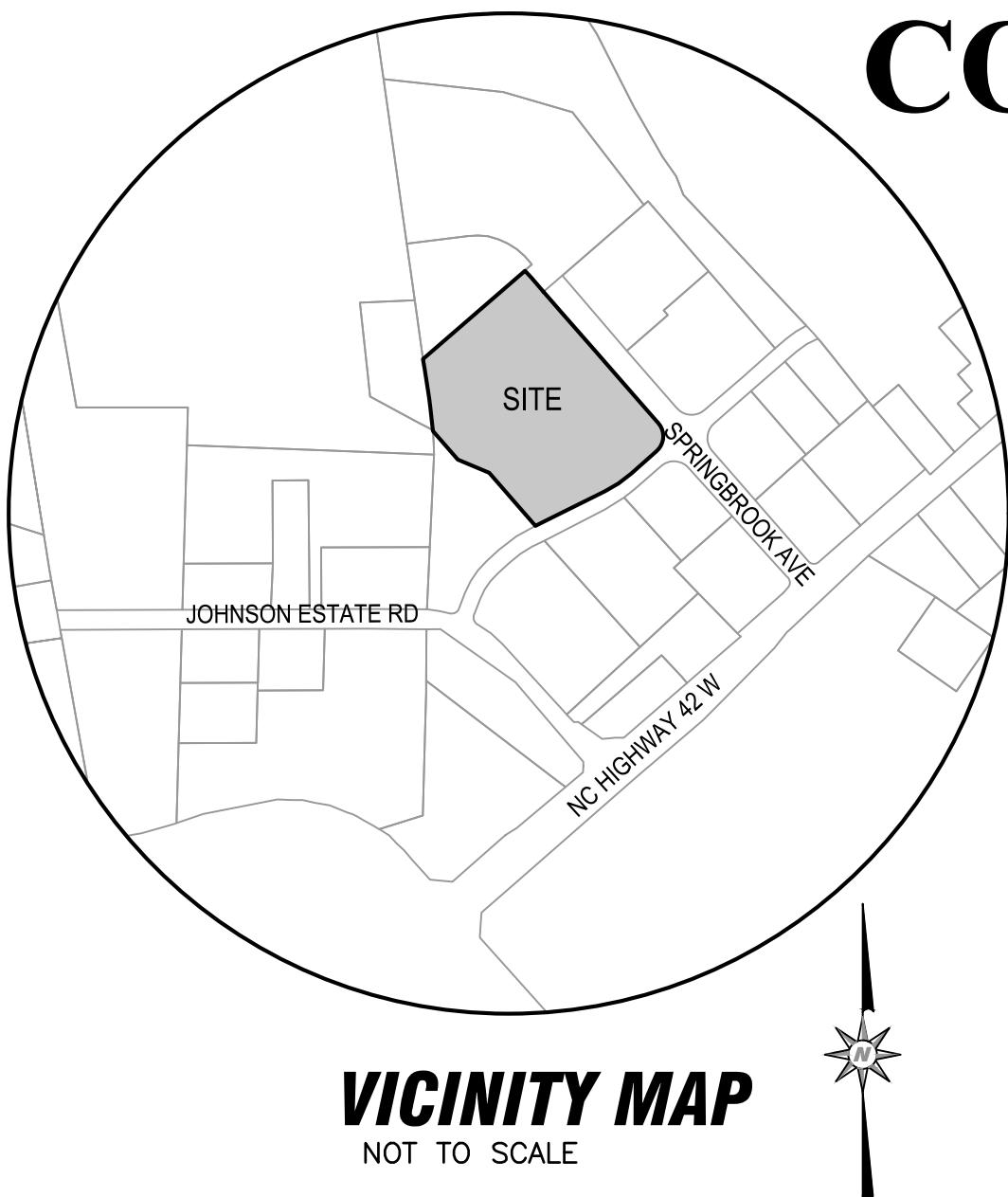


LONG TERM CARE - SPRINGBROOK



SITE INFORMATION:

PROJECT NAME:	LONG TERM CARE - SPRING BROOK
PROPERTY LOCATION:	195 SPRINGBROOK AVE CLAYTON, NC 27520 (TOWN LIMITS)
COUNTY:	JOHNSTON
PARENT PIN:	164800-64-3207
DBPC:	043490153
ZONING:	PD-MU
ACREAGE:	7.5 AC.
EXISTING USE:	NURSING HOME
PROPOSED USE:	NURSING HOME
EXISTING BUILDING COVERAGE:	20.81%
PROPOSED BUILDING COVERAGE:	23.37%
TOTAL IMPERVIOUS ADDED:	0.45 AC.
BUILDING HEIGHT:	24'
ELECTRIC PROVIDER:	DUKE ENERGY
WATER PROVIDER:	TOWN OF CLAYTON
SEWER PROVIDER:	TOWN OF CLAYTON
LIMITS OF DISTURBANCE:	23.37%
SETBACKS:	
FRONT YARD:	25'
SIDE YARD:	15'
EXISTING BUILDING:	68,000 SF
PROPOSED BUILDING ADDITION:	8 BED ADDITION: 3,397 SF 12 BED ADDITION: 4,972 SF
TOTAL:	76,369 SF
EXISTING BEDS:	100
PROPOSED BEDS:	20
REQUIRED ADA PARKING:	26-50 SPACES REQUIRES 2 ADA SPACES
PARKING PROVIDED:	91 EXISTING SPACES 43 PROPOSED REGULAR SPACES 2 HANDICAP SPACES TOTAL: 136 SPACES



Civil Engineering:

The Curry Engineering Group, PLLC
NC License # P-0799
PO Box 2018
205 S. Fuquay Ave
Fuquay-Varina, NC 27526
919.552.0849 (o)
Contact: Don Curry, PE
don@curryeng.com

Land Owner:

Brithaven Inc
PO Box 6159
Kinston, NC 28502
919.428.7361
Contact: Jon White
jonwhite.nc@outlook.com

Surveyor:

True Line Surveying, P.C.
205 West Main Street
Clayton, NC 27520
919.359.0427 (o)
Contact: Cork Lane, PLS

TOWN OF CLAYTON
JOHNSTON COUNTY, NORTH CAROLINA

CONSTRUCTION DRAWINGS AND SITE PLAN SUBMITTAL

TOWN OF CLAYTON PROJECT #2024-114-SP_CD / MASTER PLAN MSD-2013-59

1ST SUBMITTAL TO TOWN OF CLAYTON FOR REVIEW: JULY 30, 2024
2ND SUBMITTAL TO TOWN OF CLAYTON FOR REVIEW: DECEMBER 13, 2024

DRAWING INDEX

C-0.0	COVER
C-1.0	CIVIL NOTES
C-2.0	EXISTING CONDITIONS & DEMOLITION
C-3.0	OVERALL SITE PLAN
C-3.1	SITE PLAN
C-4.0	GRADING & DRAINAGE PLAN
C-5.0	UTILITY PLAN
C-6.0	LIGHTING PLAN
L-1.0	LANDSCAPE PLAN
L-2.0	LANDSCAPE DETAILS
D-1.0	SITE DETAILS
D-1.1	STORM DRAINAGE DETAILS
D-1.2	UTILITY DETAILS
EC-1.0	EROSION CONTROL PLAN
EC-1.1	EROSION CONTROL DETAILS I
EC-1.2	EROSION CONTROL DETAILS II

GOVERNING AGENCIES:

PLANNING/ZONING/LANDSCAPE: STORMWATER
TOWN OF CLAYTON
PLANNING DEPT.
111 EAST SECOND ST.
CLAYTON, NC 27520
919-359-9364

ENGINEERING
TOWN OF CLAYTON
ENGINEERING DEPT.
111 EAST SECOND ST.
CLAYTON, NC 27520
919-359-3002

US ARMY CORPS OF ENGINEERS (USACE)
USACE RALEIGH FIELD OFFICE
3331 HERITAGE TRADE DR. SUITE 105
WAKE FOREST, NC 27587
919-554-4884
CONTACT: MR. JAMES LASTINGER

UTILITY AGENCIES:

WATER & SEWER: NC DENR-DWQ SEWER
TOWN OF CLAYTON WATER & SEWER DEPT.
111 EAST SECOND ST.
CLAYTON, NC 27520
919-359-1261
CONTACT: BRANDON CARROLL

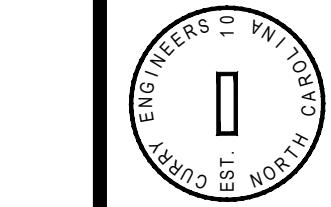
NC DENR-PUBLIC WATER SUPPLY
NC DENR DIVISION OF WATER RESOURCES
RALEIGH REGIONAL OFFICE
3800 BARRETT DRIVE
RALEIGH, NC 27609
919-791-4232



LONG TERM CARE - SPRINGBROOK CLAYTON
COVER



Curry
ENGINEERING

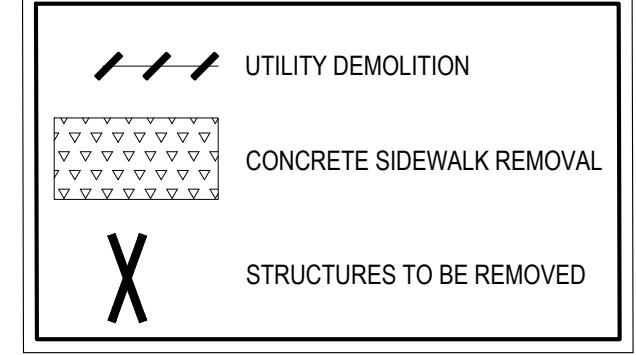


REVISIONS
1 12/3/2024
TOC COMMENTS #1
FILE NO.
DATE: JULY 30, 2024
HORZ SCALE: NONE
ORIG. SHEET SIZE: 24 x 36

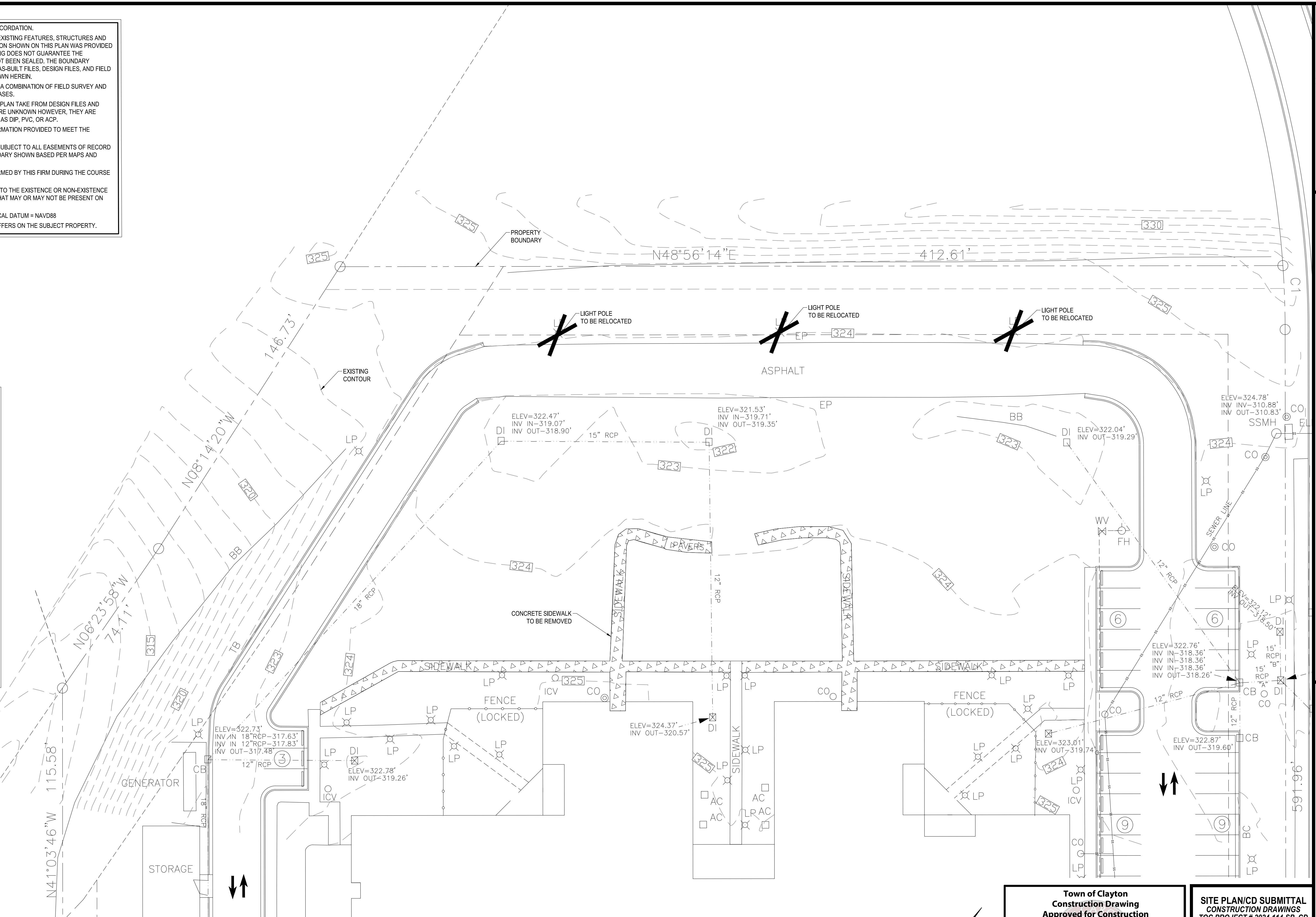
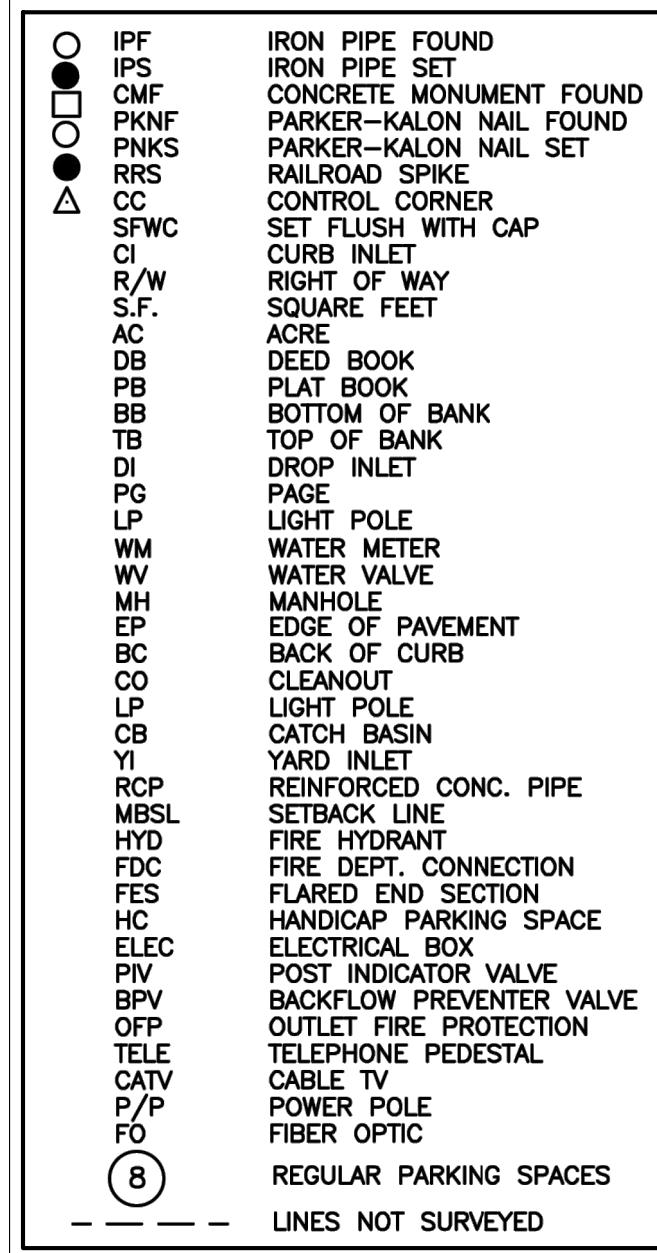
GENERAL NOTES:

1. THIS PLAN IS NOT INTENDED FOR PLATTING OR RECORDATION.
2. THE INTENT OF THIS PLAN IS TO ILLUSTRATE THE EXISTING FEATURES, STRUCTURES AND TOPOGRAPHY OF THE PROPERTY. THE INFORMATION SHOWN ON THIS PLAN WAS PROVIDED AND DEVELOPED BY OTHERS. CURRY ENGINEERING DOES NOT GUARANTEE THE ACCURACY OF THE INFORMATION, THUS IT HAS NOT BEEN SEALED. THE BOUNDARY INFORMATION SHOWN REPRESENTS A SERIES OF AS-BUILT FILES, DESIGN FILES, AND FIELD SURVEYS CULMINATING IN THE INFORMATION SHOWN HEREIN.
3. TOPOGRAPHY SHOWN ON THIS PLAN IS PER FIELD A COMBINATION OF FIELD SURVEY AND DESIGN FILES FROM PREVIOUSLY COMPLETED PHASES.
4. EXISTING WATER & SEWER LINES SHOWN ON THIS PLAN TAKE FROM DESIGN FILES AND ACTUAL SURVEY WHERE POSSIBLE. MATERIALS ARE UNKNOWN HOWEVER, THEY ARE BELIEVE TO BE STANDARD MATERIAL TYPES SUCH AS DIP, PVC, OR ACP.
5. THE ENGINEER UNDERSTANDS THE SURVEY INFORMATION PROVIDED TO MEET THE FOLLOWING CRITERIA:
 - THE PROPERTY SHOWN HEREON IS SUBJECT TO ALL EASEMENTS OF RECORD AFFECTING SAME. PROPERTY BOUNDARY SHOWN BASED PER MAPS AND DEEDS OF RECORD ONLY.
 - NO TITLE SEARCH HAS BEEN PERFORMED BY THIS FIRM DURING THE COURSE OF THIS SURVEY.
 - THIS SURVEYOR DOES NOT CERTIFY TO THE EXISTENCE OR NON-EXISTENCE OF ANY UNDER GROUND UTILITIES THAT MAY OR MAY NOT BE PRESENT ON THIS SITE.
 - HORIZONTAL DATUM = NAD83, VERTICAL DATUM = NAVD88
4. THERE ARE NO KNOWN STREAMS OR STREAM BUFFERS ON THE SUBJECT PROPERTY.

DEMO LEGEND:



SURVEY LEGEND:



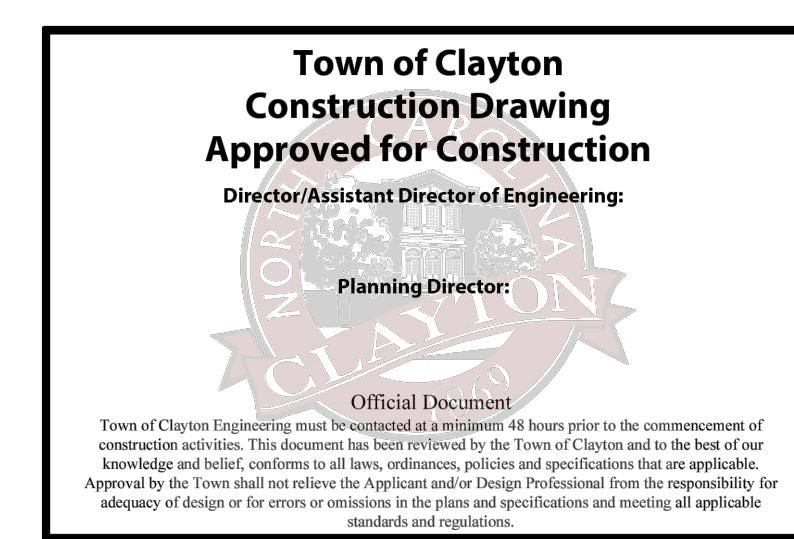
Surveyor.

True Line Surveying, P.C.
205 West Main Street
Clayton, NC 27520
919.359.0427 (o)
Contact: Curk Lane, PLS

SCALE: 1 IN = 20 FT

20' 0 20'

SCALE IN FEET
HORIZONTAL



GENERAL NOTES:

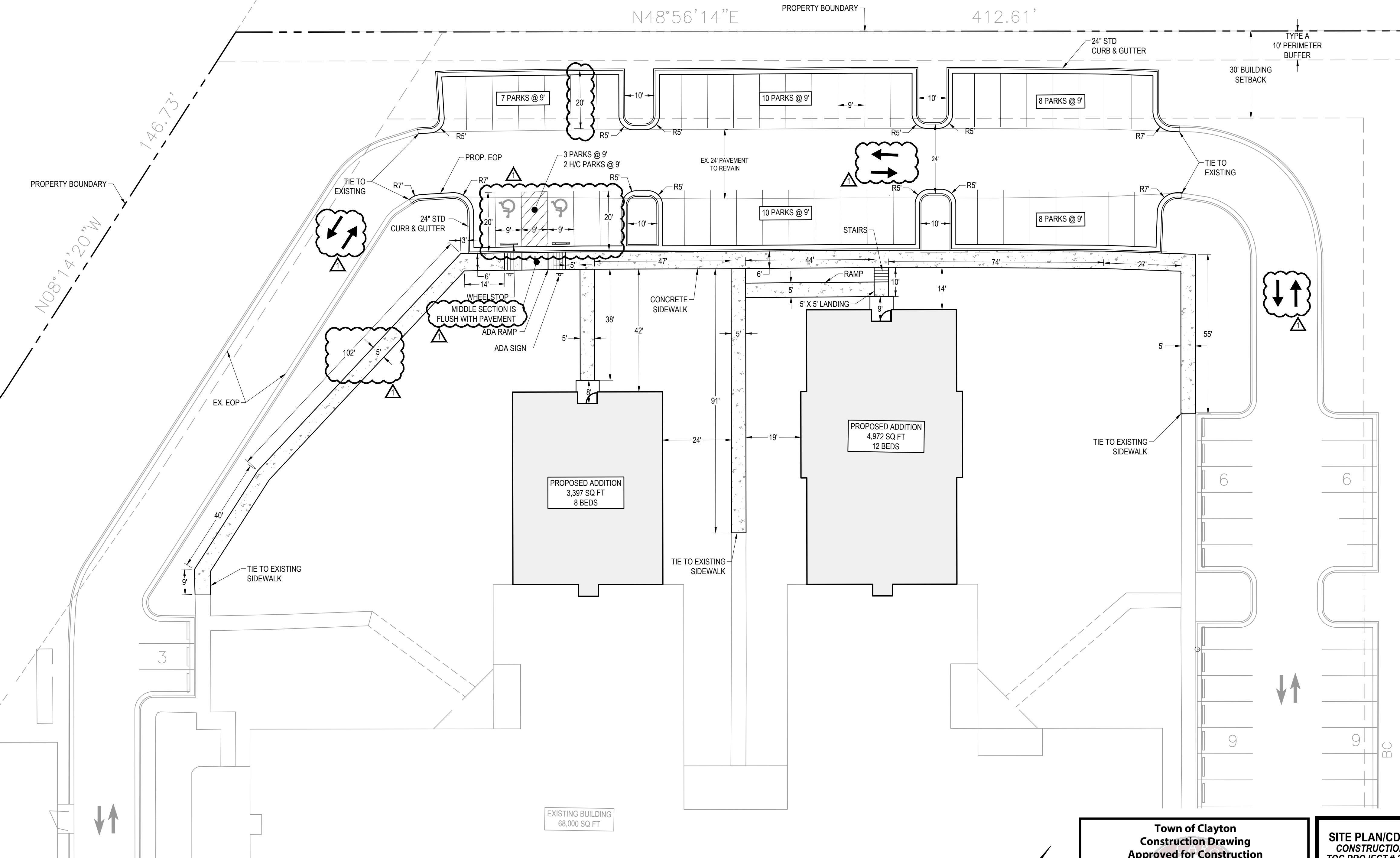
- ALL CONSTRUCTION SHALL BE PER TOWN OF CLAYTON STANDARDS AND SPECIFICATIONS.
- ALL DIMENSIONS ARE IN FEET AND FACE OF CURB UNLESS OTHERWISE NOTED.
- ALL SITE ELEMENTS ARE PERPENDICULAR TO EACH OTHER UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, RIGHT-OF-WAYS AND UTILITIES, PUBLIC OR PRIVATE, BEFORE WORKING IN THESE AREAS.
- PROTECT ALL PROPERTY MONUMENTS AND PINS. MONUMENTS AND PINS THAT WILL BE DISTURBED DURING CONSTRUCTION SHALL BE REFERENCED AND REPLACED BY A LICENSED LAND SURVEYOR AT THE COST OF THE CONTRACTOR.
- CONTRACTOR SHALL MAINTAIN THE SITE IN SUCH A MANNER THAT WORKMEN AND THE PUBLIC WILL BE PROTECTED FROM INJURY AND ADJOINING PROPERTY PROTECTED FROM DAMAGE.
- CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE UPON COMPLETION OF THE PROJECT AND AT LEAST ONCE A WEEK DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ANY EXISTING ITEM AND/OR MATERIAL DUE TO CONSTRUCTION OPERATIONS. ALL STREET SURFACES, UTILITY POLES, CULVERTS, DITCHES, CURB AND GUTTER OR OTHER STRUCTURES THAT ARE DISTURBED OR DAMAGED IN ANY MANNER AS A RESULT OF CONSTRUCTION SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR IN ACCORDANCE WITH THE APPROPRIATE SPECIFICATIONS.
- IF DEPARTURES FROM THE DRAWINGS OR SPECIFICATIONS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THEREOF SHALL BE SUBMITTED IN WRITING TO THE FACILITY DESIGNER FOR REVIEW. NO DEPARTURES FROM THE CONTRACT DOCUMENTS WILL BE ALLOWED WITHOUT APPROVAL BY THE FACILITY DESIGNER.
- ANY AND ALL QUANTITIES SHOWN OR IMPLIED ON THE PLANS ARE FOR ESTIMATION PURPOSES ONLY.

N/F
CHARLES COATS
DB 6515 PG 237
PN 05F02032
ZONING: R-E

N/F
UACFE LLC
DB 3372 PG 969
PN 05F02043I
ZONING: PD-MU

SITE LEGEND:

STREET LIGHT
SIGN
LOT LINE
RIGHT OF WAY LINE
SETBACK LINE
STANDARD CURB & GUTTER



SCALE: 1 IN = 20 FT
SCALE IN FEET
HORIZONTAL

Official Document
Town of Clayton
Construction Drawing
Approved for Construction
Director/Assistant Director of Engineering:
Planning Director:
Town of Clayton Engineering must be contacted at a minimum 48 hours prior to the commencement of construction activities. This document has been reviewed by the Town of Clayton and to the best of our knowledge, contains no errors. The Town of Clayton is not responsible for any errors or omissions in this document. Approval by the Town shall not release the Applicant and/or Design Professional from the responsibility for adequacy of design or for errors or omissions in the plans and specifications and meeting all applicable standards and regulations.

SEAL
CITY OF CLAYTON
CITY OF CLAYTON
SEAL
048484
B. MATTHEWS
12/13/24
NC LIC. NO. P-0789

Curry
ENGINEERING
C-3.1

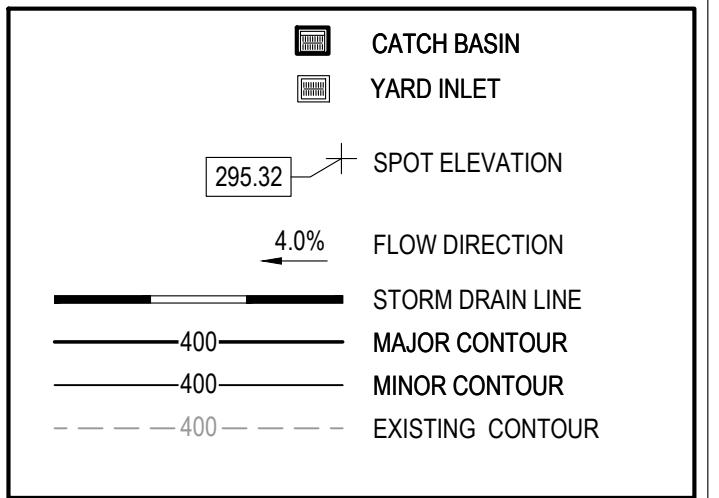
LONG TERM CARE - SPRINGBROOK CLAYTON
SITE PLAN

REVISIONS
1 12/3/2024
TOC COMMENTS #1
FILE NO.
DATE: JULY 30 2024
HORZ SCALE: NONE
ORIG. SHEET SIZE: 24 x 36

GENERAL NOTES:

1. BEFORE YOU DIG, STOP. CALL THE NC ONE-CALL CENTER AT 1-800-632-4949. IT'S THE LAW. EXISTING UTILITIES ARE SHOWN FROM THE BEST AVAILABLE INFORMATION AND ARE APPROXIMATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THESE AND OTHER UTILITIES BEFORE STARTING CONSTRUCTION. NOTIFY UTILITY LOCATING COMPANY (ONE CALL @ 1-800-632-4949) OR INDIVIDUAL UTILITY OWNERS FOR UNDERGROUND LOCATIONS AT LEAST 48 HOURS IN ADVANCE.
2. STORM DRAINAGE PIPING SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED. STORM DRAINAGE WITH LESS THAN 2' OF COVER MEASURED FROM SUBGRADE SHALL BE CLASS IV RCP.
3. RIM ELEVATION FOR YARD INLETS (YI) REFERS TO THE CENTER OF THE TOP OF GRATE. RIM ELEVATION OF MANHOLES (SDMH) REFERS TO THE CENTER OF THE TOP OF MANHOLE COVER. RIM ELEVATION OF CATCH BASINS (CB) REFERS TO THE CENTER, EDGE OF PAVEMENT GRATE ELEVATION RIM OF CURB INLETS (CI) REFERS TO THE TOP OF SLAB, EDGE OF PAVEMENT ELEVATION.
4. CUT/FILL SLOPES SHALL BE GRADED AT A MAXIMUM OF 3H:1V UNLESS OTHERWISE INDICATED.
5. NO GRADING EQUIPMENT SHALL BE PERMITTED ON-SITE UNTIL A LAND DISTURBANCE PERMIT HAS BEEN ISSUED BY WAKE COUNTY.
6. WHERE PROPOSED EDGE OF PAVEMENT CONNECTS TO EXISTING, CONTRACTOR SHALL MATCH EXISTING ELEVATION AND CREATE A SMOOTH TRANSITION.
7. MANHOLES, CLEANOUTS, VALVES, METERS, AND OTHER AT OR ABOVE GRADE APPURTENANCES SHALL NOT BE INSTALLED IN SIDEWALKS.

GRADING/DRAINAGE LEGEND:



STORM DRAINAGE TABLE				
INLET#	TYPE	RIM ELEV (EOP)	INV IN (FROM-SIZE)	INV OUT (TO-SIZE)
1	SDMH	323.18		
1A	EX DI	324.37	320.67 (7'-12")	
2	CB	322.62		
3	CB	320.77		
4	CB	322.43		
5	SDMH	324.21	318.84 (6'-15")	
6	YI	324.14		318.60 (5'-15")
7	YI	324.30		320.57 (1A-12")
8	YI	324.00	319.54 (-15")	

2 PROJECT FOR 20240720240710 LONG TERM CARE - SPRINGBROOK CLAYTON PLANSITE PLAN SHEET FFE:325.22 GRADING & DRAINAGE PAVING
PLOTTED 20240720240710 09:53 AM

N/F
CHARLES COATS
DB 6515 PG 237
PN 05F02032
ZONING: R-E

N/F
UACFE LLC
DB 3372 PG 969
PN 05F02043I
ZONING: PD-MU

LONG TERM CARE - SPRINGBROOK CLAYTON
GRADING & DRAINAGE PLAN

T 919.552.2649
F 919.552.2643
205 Fudge Avenue
Fuquay-Varina, NC 27526

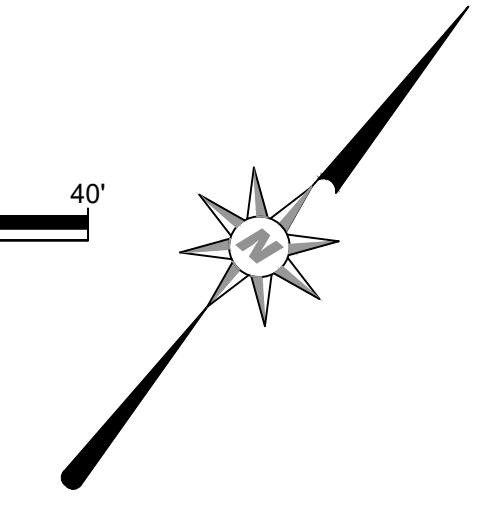
NC LIC. NO. P-0789

Curry
ENGINEERING
EST. 1947
NORTH CAROLINA
PROFESSIONAL
ENGINEERS
SEAL
048484
B. MATTHEWS
12/13/24

Official Document
Town of Clayton
Construction Drawing
Approved for Construction
Director/Assistant Director of Engineering:
Planning Director:
MSD-2013-59

SITE PLAN/CD SUBMITTAL
CONSTRUCTION DRAWINGS
TOC PROJECT # 2024-114-SP_CD
MSD-2013-59
SEAL

SCALE: 1 IN = 20 FT
20' 10' 0 20' 40'
SCALE IN FEET HORIZONTAL



Town of Clayton Engineering must be contacted at a minimum of 48 hours prior to the commencement of construction activities. This document has been reviewed by the Town of Clayton and to the best of our knowledge, contains accurate information. The Town of Clayton is not responsible for any errors or omissions. Approval by the Town shall not release the Applicant and/or Design Professional from the responsibility for adequacy of design or for errors or omissions in the plans and specifications and meeting all applicable standards and regulations.

REVISIONS
1 12/30/2024
FILE NO.
DATE: JULY 30, 2024
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HORZ SCALE: NONE
ORIG. SHEET SIZE: 24 x 36

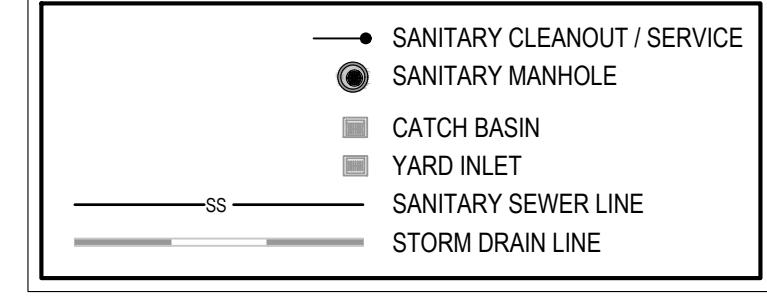
LONG TERM CARE - SPRINGBROOK CLAYTON

UTILITY PLAN

UTILITY NOTES:

- CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (1-800-632-4949) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL VERIFY THE DEPTH AND LOCATION OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
- ALL UTILITY CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH TOWN OF CLAYTON STANDARD SPECIFICATIONS AND DETAILS IN EFFECT AT TIME OF PERMITTING.
- THIS PLAN IS DIAGRAMMATIC AND REPRESENTS THE APPROXIMATE LOCATION OF UTILITIES UNLESS SPECIFICALLY DIMENSIONED. THE CONTRACTOR SHALL COORDINATE THE ACTUAL LOCATION OF UTILITIES TO AVOID CONFLICTS AND MEET MINIMUM SIZE, SLOPE, AND CODE REQUIREMENTS.
- NO CHANGES TO ANY ASPECT OF THIS PLAN WILL BE MADE WITHOUT APPROVAL OF THE ENGINEER AND TOWN OF CLAYTON PLANNING DEPARTMENT.
- CONTRACTOR SHALL ADJUST ALL CLEANOUTS, VALVE BOXES, MANHOLES, ETC. TO THE FINISHED GRADES ESTABLISHED BY THIS PROJECT.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY PIPE SIZE AND MATERIAL ADAPTERS FOR CONNECTION FROM SITE UTILITY PIPING TO BUILDING SERVICE PIPING. CONTRACTOR SHALL PROVIDE ALL REDUCERS NEEDED WHEN CHANGING PIPE SIZES. A SEWER SERVICE LINE SHALL BE A MINIMUM 6" AT 2ND BUILDING SERVICE CONNECTION.
- ALL SEWER CONNECTIONS SHALL BE SWEEPING TEES OR WYES WITH CLEANOUTS.
- ALL METERS, BFP's, PIV, FDC CONNECTION, AND VALVES ARE TO ADHERE TO TOWN OF CLAYTON STANDARDS.
- ELECTRICAL POWER TO THE BUILDING IS TO BE SUPPLIED BY DUKE ENERGY.
- ALL WATER LINES ARE TO HAVE MINIMUM 48" COVER.
- ALL U/G ELECTRICAL CONDUITS ARE TO HAVE MINIMUM 24" COVER. GAS, TELEPHONE AND CABLE LINES SHALL HAVE MINIMUM COVER AS DETERMINED BY SERVICE COMPANY.
- CLEANOUTS ARE REQUIRED ON ALL SERVICES WITH A MAXIMUM SPACING OF 75 FEET ON 4-INCH SERVICES AND 100 FEET ON 6-INCH SERVICES, AND AT THE ROW LINE OR EDGE OF EASEMENT. ALL CLEANOUTS SHALL BE FLUSH WITH FINISHED GRADE WITH AN INVERTED BRASS CAP.
- REFER TO BUILDING PLANS FOR EXACT LOCATION OF WHERE UTILITIES ENTER THE BUILDING.
- THERE SHALL BE AT MINIMUM 24" VERTICAL SEPARATION BETWEEN WATER & SANITARY SEWER. THERE SHALL BE AT MINIMUM 24" VERTICAL SEPARATION BETWEEN WATER & STORM SEWER (OR ROOF DRAINS) AND BETWEEN SANITARY SEWER & STORM DRAINAGE (OR ROOF DRAINS). IN BOTH SITUATIONS IT IS PREFERRED THAT THE UTILITY CROSSES ABOVE THE SANITARY SEWER. IF THE MINIMUM SEPARATION CANNOT BE MAINTAINED OR IF THE UTILITY HAS BEEN LAID BEATHEN THE SANITARY SEWER, THE SANITARY SEWER WILL BE DUCTILE IRON PIPE.
- ALL PROPOSED UTILITIES LINES MUST BE UNDER GROUND.
- NOTE THAT IF ANY ACCESSORY UNITS ARE VISIBLE FROM THE RIGHT-OF-WAY, ADDITIONAL SCREENING WILL BE REQUIRED THAT WILL DELAY ISSUANCE OF A CERTIFICATE OF OCCUPANCY UNTIL SUCH SCREENING IS INSTALLED AND ACCEPTED BY THE TOWN.
- ALL SEWER CLEANOUTS IN PAVEMENT AREAS SHALL BE TRAFFIC-RATED.
- PERMANENT MARKERS SHALL BE INSTALLED WHERE THE WATER SERVICE CHANGES DIRECTION, IN COMPLIANCE WITH TOWN SPECIFICATIONS.

UTILITY LEGEND:



N/F
CHARLES COATS
DB 2228 PG 69
PN 05F02032L
ZONING: R-E

N/F
ROBERT BROWN JR.
DB 3433 PG 168
PN 05F02033F
ZONING: R-E

N/F
CHARLES COATS
DB 6515 PG 237
PN 05F02032
ZONING: R-E

N/F
UACFE LLC
DB 3372 PG 969
PN 05F02043I
ZONING: PD-MU

SCALE: 1 IN = 20 FT
SCALE IN FEET
HORIZONTAL

20' 10' 0 20' 40'



LONG TERM CARE - SPRINGBROOK CLAYTON LANDSCAPE PLAN

Curry
ENGINEERING

REVISIONS
1 12/30/2024
ORIG. SHEET SIZE: 24 x 36
FILE NO.

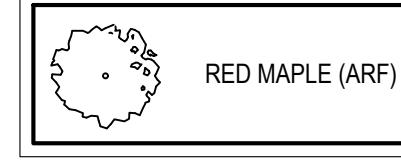
T 019 552-048
F 091 552-043
205 Fultique Avenue
Floyd-Alamance NC 27261

NC LIC. NO. P-0798

LANDSCAPING NOTES:

- ALL TREES SHALL BE MIN. 10' TALL AND 2.5" CALIPER AT TIME OF PLANTING.
- LANDSCAPING SHALL COMPLY WITH THE TOWN OF CLAYTON LANDSCAPING ORDINANCE AS SPECIFIED IN CHAPTER 6, SUBSECTION 6.6.11 OFF-STREET PARKING LOT LANDSCAPING, WHICH REQUIRES 1 SHADE TREE FOR EVERY 12 PARKING SPACES. EACH TREE MUST BE NO MORE THAN 60' APART.
- THIS SITE SHALL COMPLY WITH TOWN OF CLAYTON UDO SECTION 6.6.12 PERIMETER BUFFER TABLE 6.6.12.G BUFFER APPLICATION, WHICH REQUIRES A TYPE A BUFFER.
- ALL DENUDED AREAS NOT SHOWN TO HAVE MULCH GROUND COVER SHALL BE SEDED WITH PERMANENT SEEDING IN ACCORDANCE WITH TOWN OF CLAYTON STANDARDS AND SPECIFICATIONS.
- PLANT TREES WITH A MINIMUM CALIPER OF TWO & ONE HALF INCHES MEASURED SIX INCHES ABOVE THE GROUND AND A ROOT BALL NO SMALLER THAN TWO FEET IN DIAMETER AND 16 INCHES IN DEPTH.
- THE BEST TIMES FOR PLANTING ARE EARLY SPRING AND EARLY FALL. TREES PLANTED IN THE SUMMER RUN THE RISK OF DEHYDRATION.
- PLANT ALL TREES AT LEAST THREE-AND-A-HALF FEET FROM THE END OF HEAD-IN PARKING SPACES IN ORDER TO PREVENT DAMAGE FROM CAR OVERHANGS.
- DIG THE TREE PIT AT LEAST TWO FOOT WIDER THAN THE ROOT BALL AND AT LEAST SIX INCHES DEEPER THAN THE BALL VERTICAL DIMENSION.
- ESPECIALLY IN AREAS WHERE CONSTRUCTION ACTIVITY HAS COMPACTED THE SOIL, THE BOTTOM OF THE PIT SHOULD BE SCARIFIED OR LOOSENSED WITH A PICK AX OR SHOVEL.
- AFTER THE PIT IS DUG, OBSERVE SUB-SURFACE DRAINAGE CONDITIONS. WHERE POOR DRAINAGE EXISTS, THE TREE PIT SHOULD BE DUG AT LEAST AN ADDITIONAL TWELVE INCHES WIDER AND THE SOIL AMENDED TO ALLOW PROPER ROOT GROWTH.
- BACKFILL SHOULD INCLUDE A PROPER MIX OF SOIL AND FERTILIZER. ALL ROOTS MUST BE COMPLETELY COVERED. BACKFILL SHOULD BE THOROUGHLY WATERED AS IT IS PLACED AROUND THE ROOTS.
- IMMEDIATELY AFTER IT IS PLANTED, THE TREE SHOULD BE SUPPORTED WITH STAKES AND STRAPS TO FIRMLY HOLD IT IN PLACE AS ITS ROOT SYSTEM BEGINS TO DEVELOP. REMOVE STAKES AND TIES AFTER ONE YEAR.
- SPREAD AT LEAST THREE INCHES OF MULCH OVER THE ENTIRE EXCAVATION IN ORDER TO RETAIN MOISTURE AND KEEP DOWN DUST.
- AN ADDITIONAL THREE-INCH SAUCER AND MULCH SHOULD BE PROVIDED TO FORM A BASIN AROUND THE TRUNK OF THE TREE. THIS SAUCER HELPS CATCH AND RETAIN MOISTURE.
- CONSCIENTIOUS POST-PLANTING CARE, ESPECIALLY WATERING, PRUNING AND FERTILIZING, IS A MUST FOR STREET AND PARKING LOT TREES. PRUNE OFF BROKEN OR DAMAGED BRANCHES.
- ALL DISTURBED AREAS NOT IDENTIFIED FOR PLANTINGS AND MULCH SHALL BE SEDED. SEE DETAIL SHEETS FOR REQUIREMENTS.

LANDSCAPE LEGEND:



LANDSCAPE CALCULATIONS
SHADE TREE PLANTINGS
REQUIREMENT: 1 CANOPY TREE PER EVERY 12 OFF STREET
PARKING SPACES
PARKING SPACES: 45
TREES REQUIRED: # = 4 TREES
TREES PROVIDED: 4 TREES

2D PROJECT FOR 2D BUILDING 20240710 LONG TERM CARE - SPRINGBROOK CLAYTON LANDSCAPE PLANSHEET 1.0 LANDSCAPE PLANS
PLOTTED: 20240710 09:53 AM

PLANT SCHEDULE							
TYPE	USE	KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	HEIGHT
LDT	Island Planting	ARF	8	Acer rubrum 'Franksred'	Red Maple	2.5" cal	Min. 10'



N/F
CHARLES COATS
DB 6515 PG 237
PN 05F02032
ZONING: R-E

N/F
UACFE LLC
DB 3372 PG 969
PN 05F02043I
ZONING: PD-MU

EXISTING VEGETATION IN
TYPE A 10' PERIMETER
BUFFER TO REMAIN

24' EXISTING
PAVEMENT TO REMAIN

REMOVE EXISTING
DROP INLET TOP &
INSTALL NEW CB
STRUCTURE
ADJACENT
TO EXISTING. SEE
DRAINAGE DETAILS.

ELEV=321.53'
INV IN=319.71'
INV OUT=318.55'

ELEV=324.37'
INV IN=318.36'
INV IN=318.36'
INV OUT=318.26'

ELEV=322.73'
INV IN=317.63'
INV IN=317.83'
INV OUT=317.48'

ELEV=322.78'
INV OUT=319.26'

ELEV=324.37'
INV OUT=320.57'

ELEV=322.76'
INV IN=318.36'
INV IN=318.36'
INV OUT=318.26'

ELEV=323.01'
INV OUT=319.74'

ELEV=322.87'
INV OUT=319.60'

ELEV=322.73'
INV IN=317.63'
INV IN=317.83'
INV OUT=317.48'

ELEV=322.78'
INV OUT=319.26'

ELEV=324.37'
INV OUT=320.57'

ELEV=322.76'
INV IN=318.36'
INV IN=318.36'
INV OUT=318.26'

ELEV=323.01'
INV OUT=319.74'

ELEV=322.87'
INV OUT=319.60'

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LONG TERM CARE - SPRINGBROOK CLAYTON

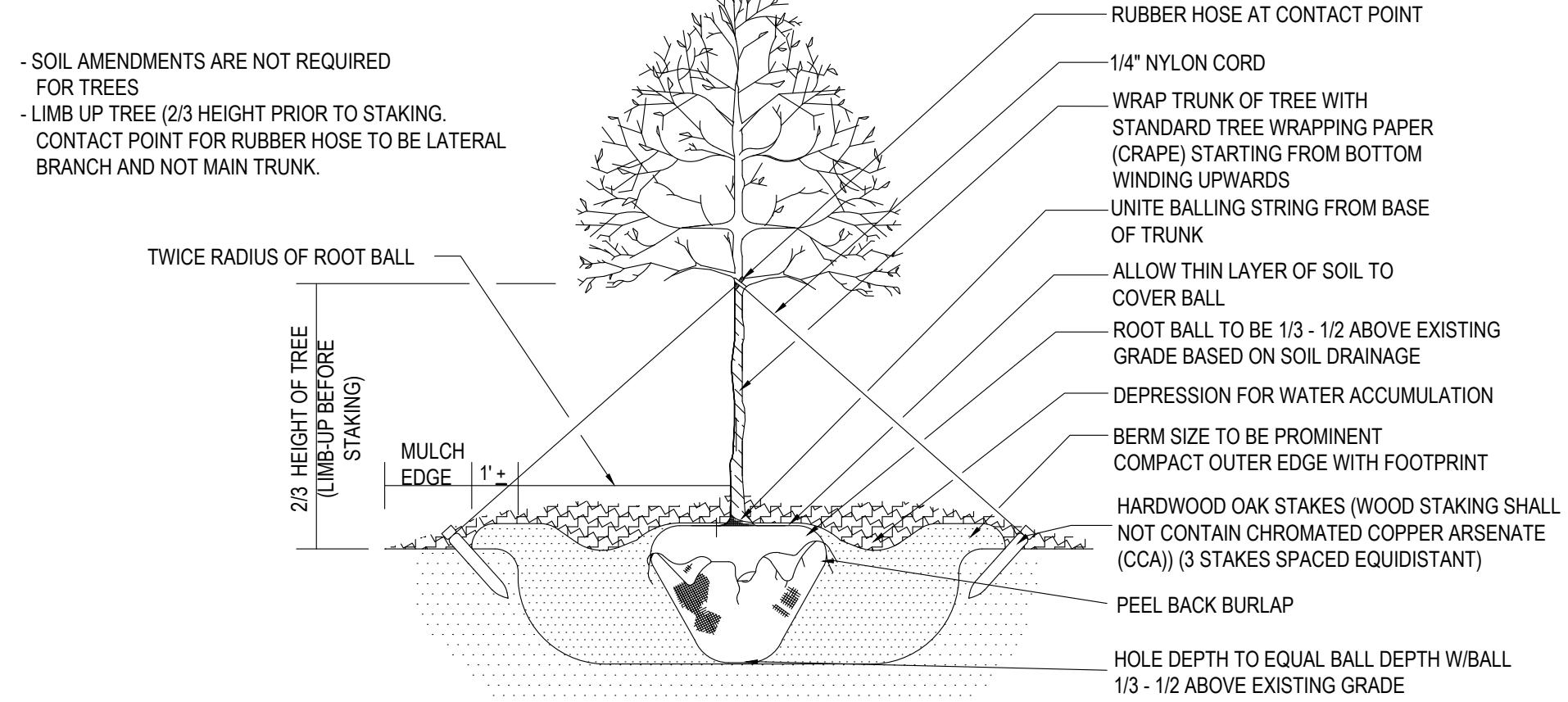
LANDSCAPE DETAILS

205 Flue Avenue
Fayetteville, NC 28306
T (910) 552-2649
F (910) 552-2643

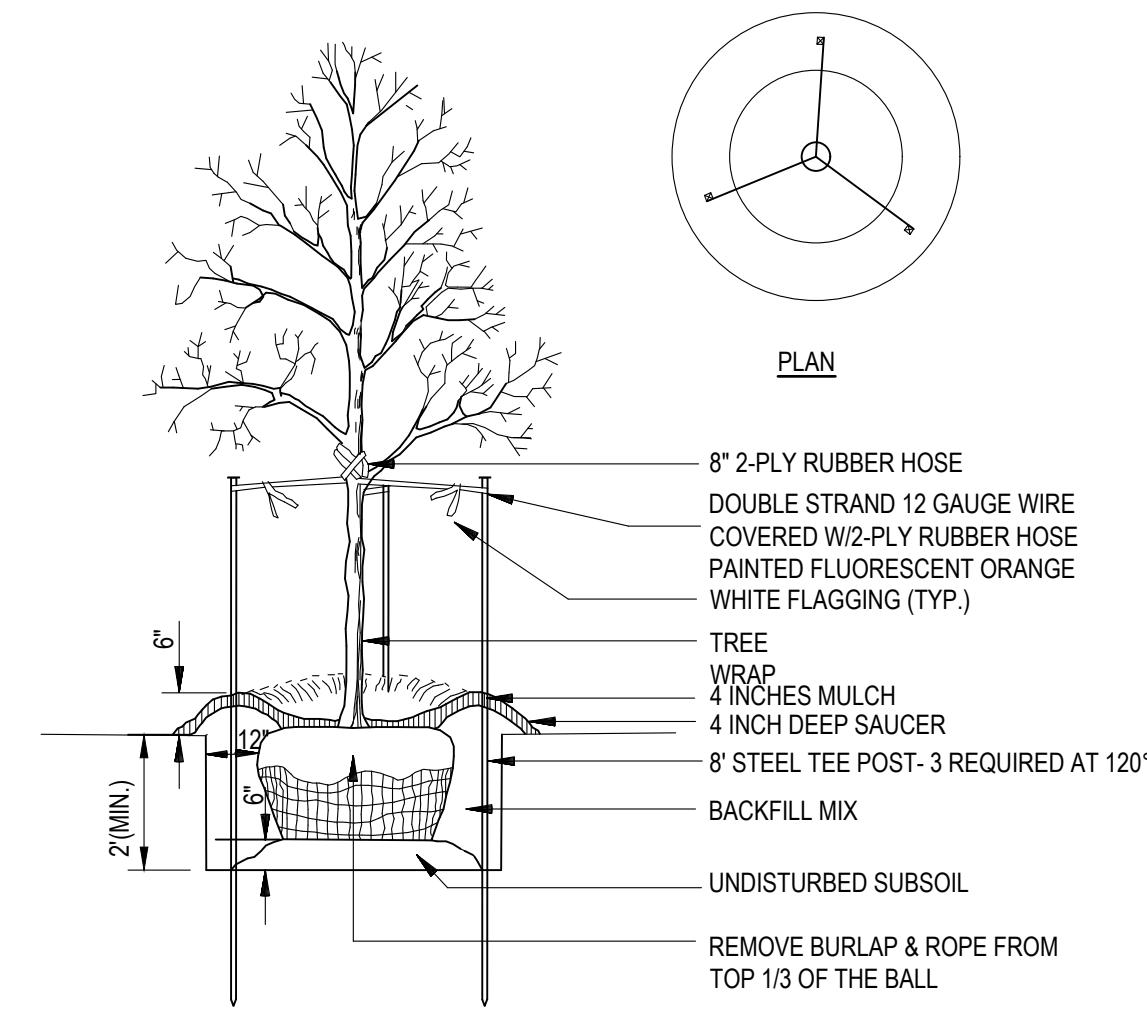
NC LIC. NO. P-0789
EST. 1910
KNT
CLAYTON
ENGINEERS LTD

Curry
ENGINEERING
L-2.0

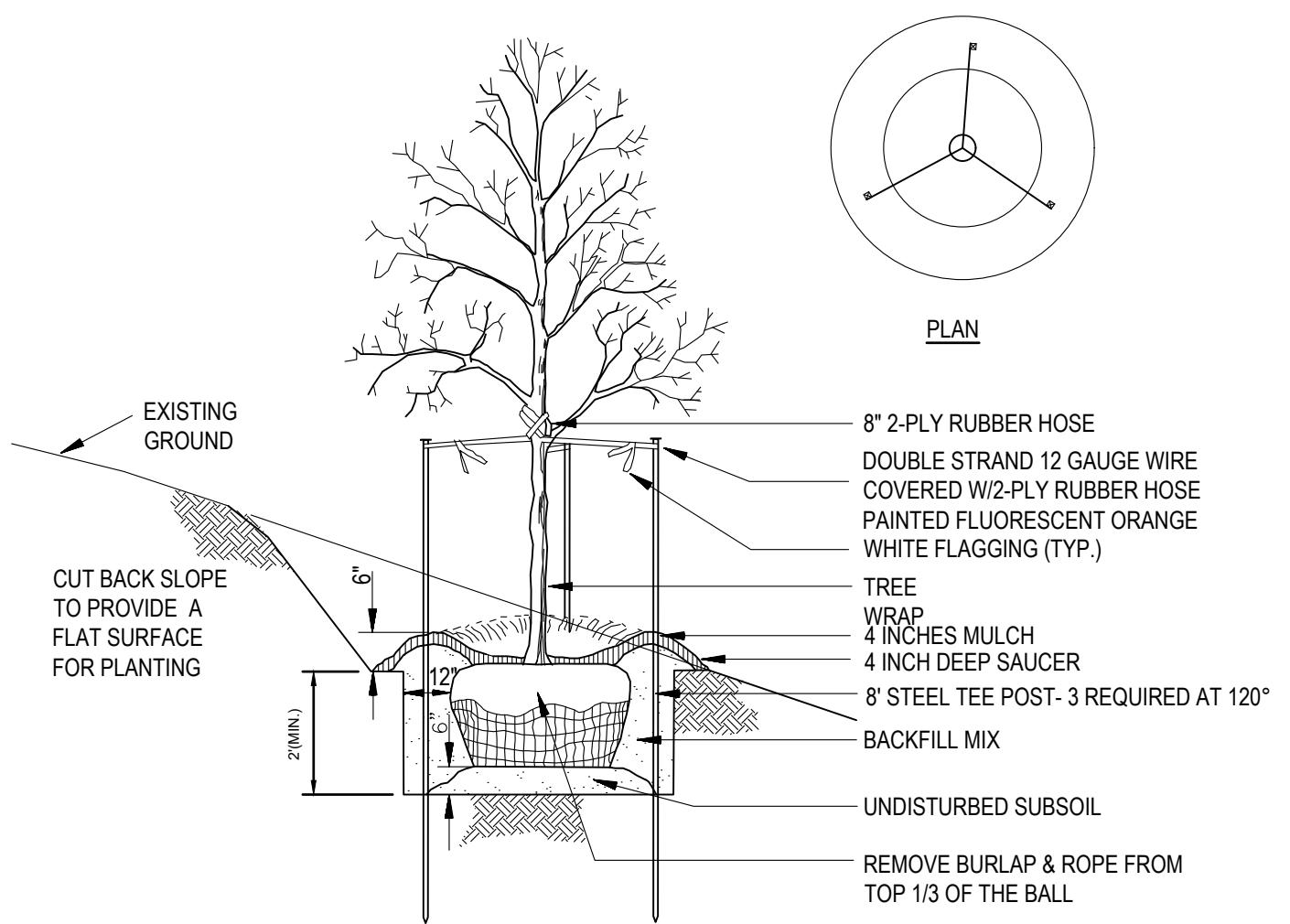
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FILE NO.			



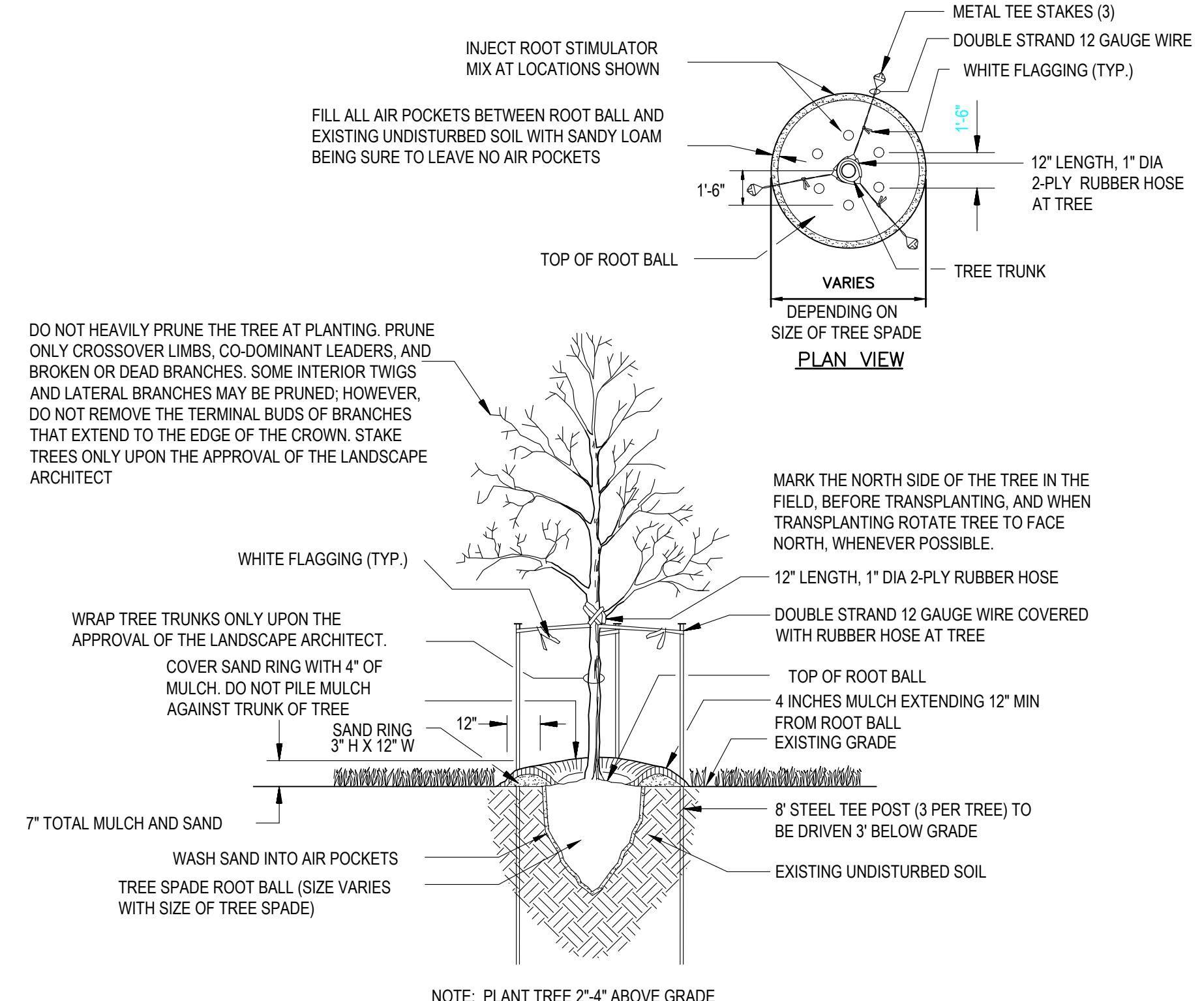
1 TREE STAKING & PLANTING DETAIL
L-02 SCALE: N.T.S.



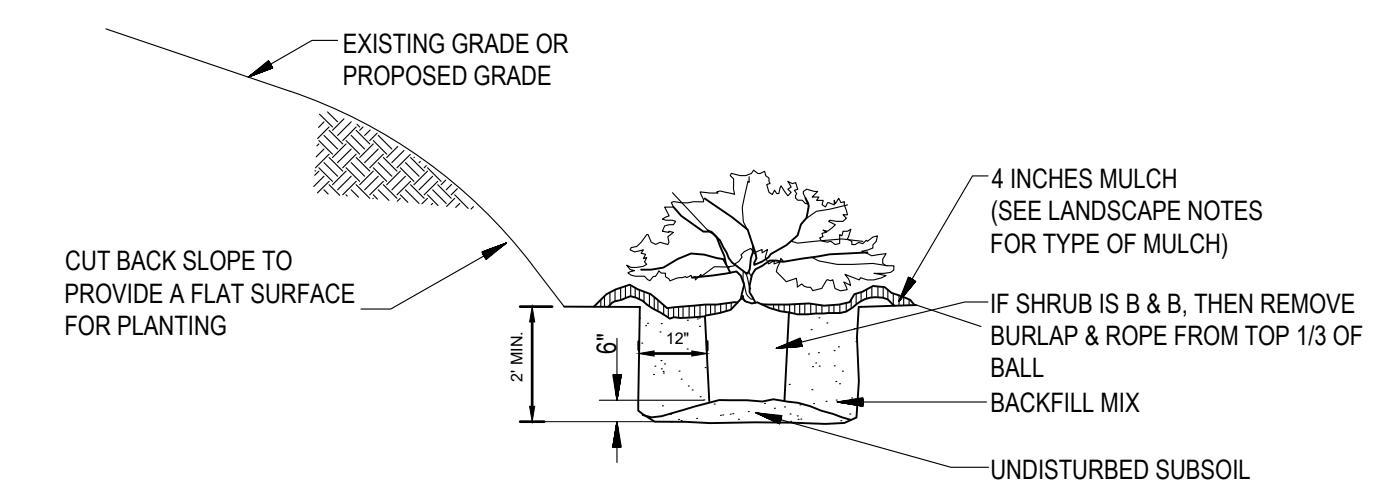
2 TREE PLANTING
L-02 SCALE: N.T.S.



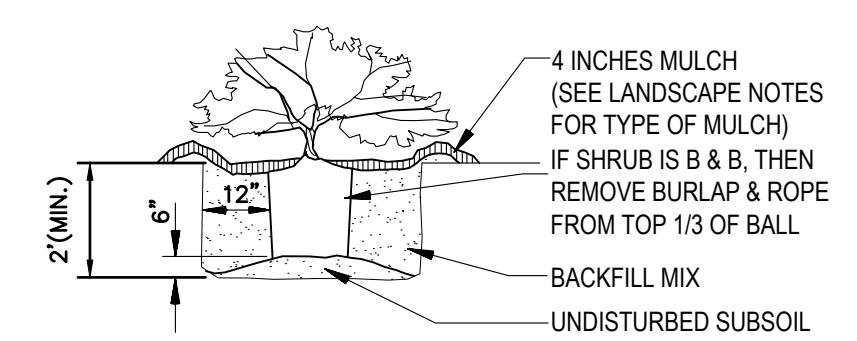
3 TREE PLANTING ON SLOPE
L-02 SCALE: N.T.S.



4 MACHINE DUG TREE PLANTING
L-02 SCALE: N.T.S.



5 SHRUB PLANTING ON SLOPE
L-02 SCALE: N.T.S.



6 SHRUB PLANTING
L-02 SCALE: N.T.S.

NOTE:

1. PLANT TREES WITH A MINIMUM CALIPER OF TWO INCHES. MEASURED SIX INCHES ABOVE THE GROUND AND A ROOT BALL NO SMALLER THAN TWO FEET IN DIAMETER AND 16 INCHES IN DEPTH.
2. THE BEST TIMES FOR PLANTING ARE EARLY SPRING AND EARLY FALL. TREES PLANTED IN THE SUMMER RUN THE RISK OF DEHYDRATION.
3. PLANT ALL TREES AT LEAST THREE-AND-A-HALF FEET FROM THE END OF HEAD-IN-PARKING SPACES IN ORDER TO PREVENT DAMAGE FROM CAR OVERHANGS.
4. DIG THE TREE PIT AT LEAST TWO FOOT WIDER THAN THE ROOT BALL AND AT LEAST SIX INCHES DEEPER THAN THE BALL VERTICAL DIMENSION.
5. ESPECIALLY IN AREAS WHERE CONSTRUCTION ACTIVITY HAS COMPACTED THE SOIL, THE BOTTOM OF THE PIT SHOULD BE SCARIFIED OR LOOSENED WITH A PICK AX OR SHOVEL.
6. AFTER THE PIT IS DUG, OBSERVE SUB-SURFACE DRAINAGE CONDITIONS. WHERE POOR DRAINAGE EXISTS, THE TREE PIT SHOULD BE DUG AT LEAST AN ADDITIONAL TWELVE INCHES WIDER AND THE SOIL AMENDED TO ALLOW ROOTS GROW PROPERLY.
7. BACKFILL SHOULD INCLUDE A PROPER MIX OF SOIL AND FERTILIZER. ALL ROOTS MUST BE COMPLETELY COVERED.
8. BACKFILL SHOULD BE THOROUGHLY WATERED AS IT IS PLACED AROUND THE ROOTS.
9. IMMEDIATELY AFTER IT IS PLANTED, THE TREE SHOULD BE SUPPORTED WITH STAKES AND STRAPS TO FIRMLY HOLD IT IN PLACE AS ITS ROOT SYSTEM BEGINS TO DEVELOP. REMOVE STAKES AND TIES AFTER ONE YEAR.
10. SPREAD AT LEAST THREE INCHES OF MULCH OVER THE ENTIRE EXCAVATION IN ORDER TO RETAIN MOISTURE AND KEEP DOWN WEEDS. AN ADDITIONAL THREE-INCH SAUCER AND MULCH SHOULD BE PROVIDED TO FORM A BASIN AROUND THE TRUNK OF THE TREE. THIS SAUCER HELPS CATCH AND RETAIN MOISTURE.
11. CONSCIENTIOUS POST-PLANTING CARE, ESPECIALLY WATERING, PRUNING AND FERTILIZING, IS A MUST FOR STREET AND PARKING LOT TREES. PRUNE OFF BROKEN OR DAMAGED BRANCHES.



LONG TERM CARE - SPRINGBROOK CLAYTON

STORM DRAINAGE DETAILS

205 E. Fuqua Avenue
Fuquay-Varina, NC 27526
T: (919) 552-2649
F: (919) 552-2643

T: (919) 552-2649
F: (919) 552-2643

NC Lic. No. P-0789

EST. 1947

N.C. PROFESSIONAL

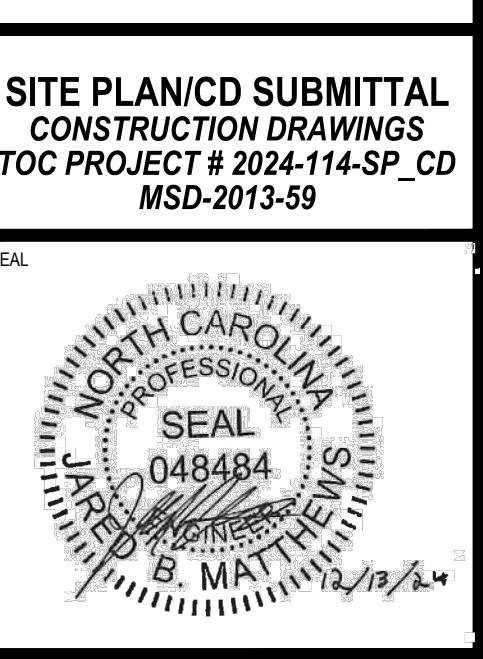
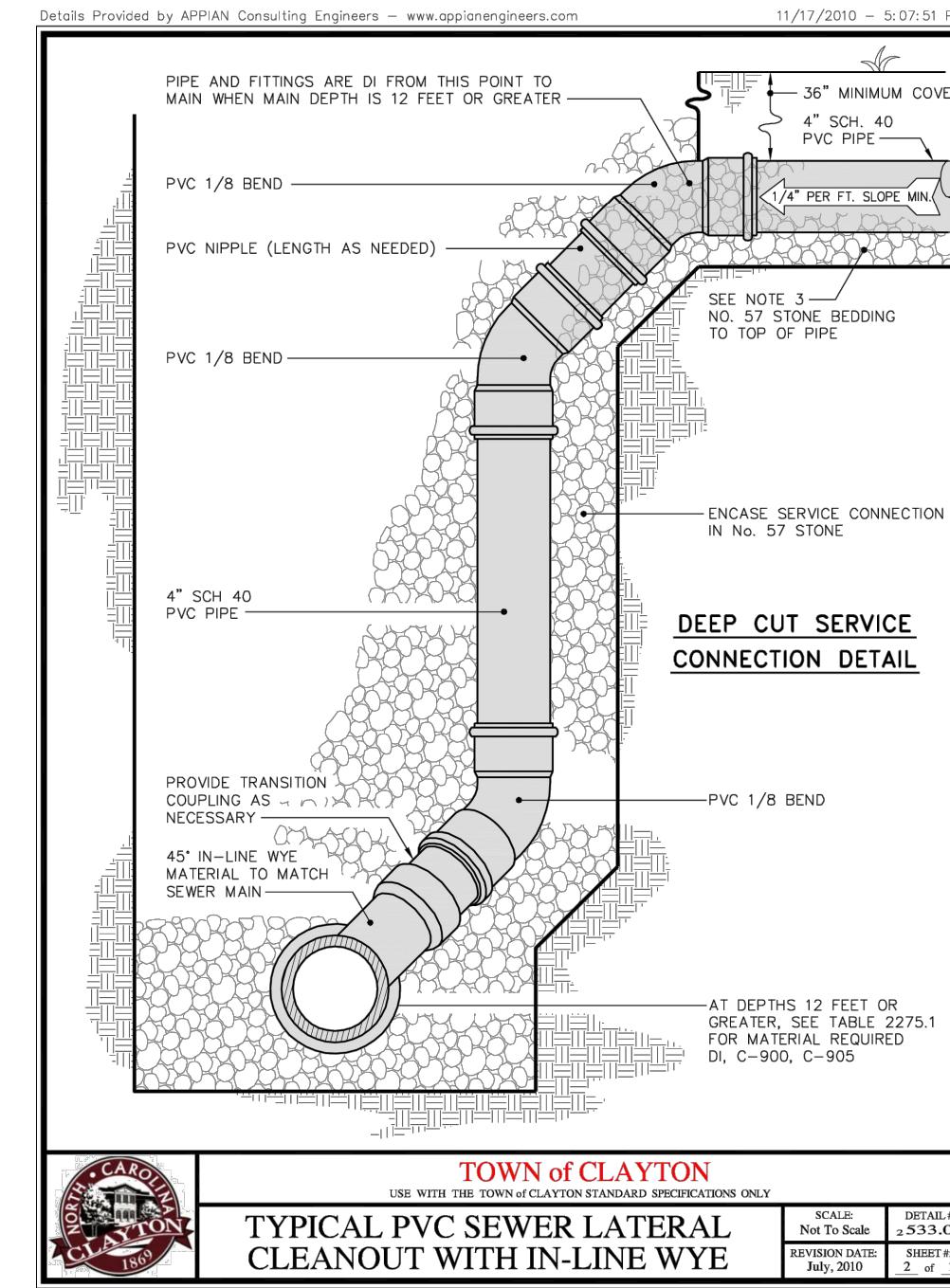
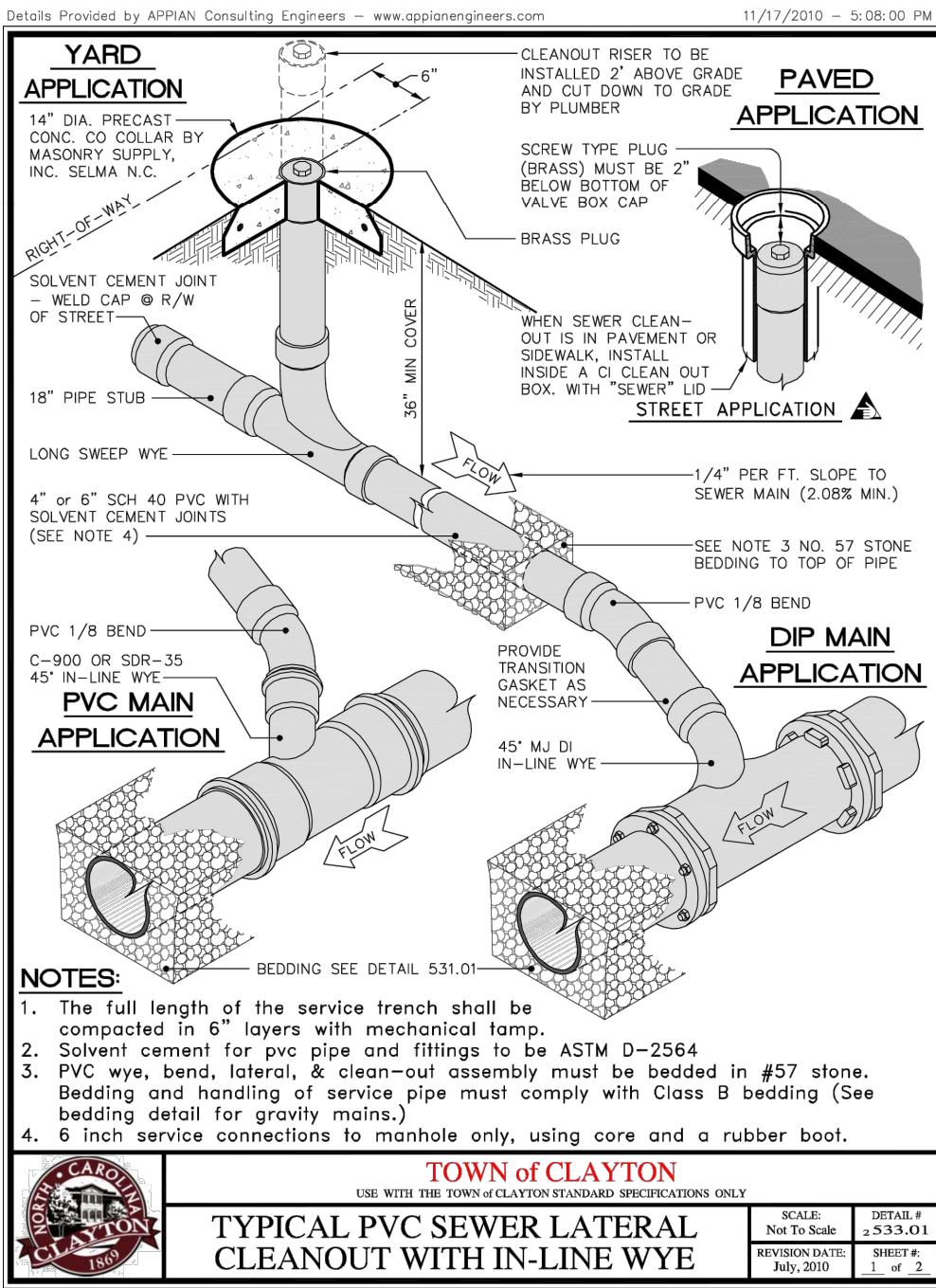
ENGINEERS

ASSOCIATES

INC.

CLAYTON

NC

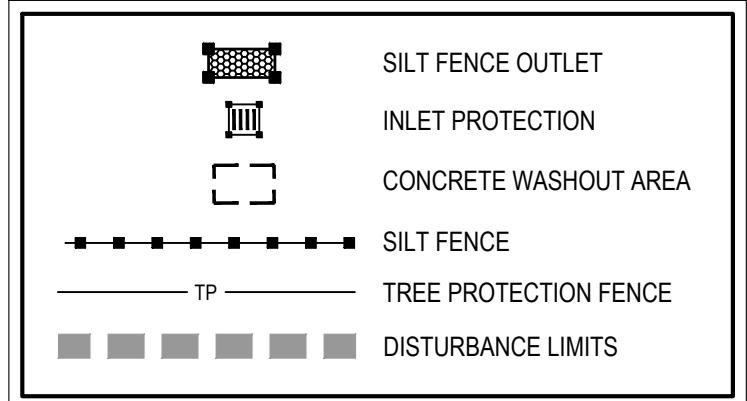


LONG TERM CARE - SPRINGBROOK CLAYTON EROSION CONTROL PLAN

PROJECT NUMBER: 202407101 LONG TERM CARE - SPRINGBROOK CLAYTON PLANNING
PLOTTED: 202407101 09:53 AM
F: 091 552-2043

Curry
ENGINEERING
EC-1.0

EROSION CONTROL LEGEND:



NOTES:

1. THE SILT FENCE, AND LIMITS OF DISTURBANCE SHOWN ON THIS PLAN ARE GRAPHICAL REPRESENTATIONS OF THE ACTUAL EROSION CONTROL MEASURES THAT SHALL BE INSTALLED UNDER THIS PROJECT. DUE TO SCALE OF THIS DRAWING, THESE MEASURES ARE GRAPHICALLY DEPICTED AND MAY BE BEYOND WHERE THEY ACTUALLY WILL BE INSTALLED IN THE FIELD. HOWEVER, UNDER NO CIRCUMSTANCES IS THERE TO BE DISTURBANCE OFFSITE.
2. THE WORK ASSOCIATED WITH THIS PERMIT INCLUDES CLEARING AND GRUBBING, INFRASTRUCTURE INSTALLATION, AND SITE GRADING TO ACCOMMODATE NEW OFFICE BUILDINGS.
3. TOTAL DISTURBED AREA = 1.33 AC
4. REFER TO DETAIL SHEET EC1.0 FOR CONSTRUCTION SEQUENCE, EROSION CONTROL NARRATIVE, MAINTENANCE NOTES, STABILIZATION INSTRUCTIONS & EROSION CONTROL DETAILS.
5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT NCDENR STANDARDS AND REGULATIONS.
6. SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.
7. THERE SHALL BE NO DISTURBANCE OUTSIDE THE LIMITS SHOWN ON THIS PLAN WITHOUT AN APPROVED PLAN AMENDMENT BY NCDENR.
8. ALL DISTURBED AREAS SHALL BE SEEDED PER STABILIZATION TABLE.
9. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SELF-INSPECTION LOG.
10. ALL EXISTING CATCH BASINS AND INLETS DOWNSTREAM OF DISTURBED AREAS SHALL HAVE SILT SACKS INSTALLED INSIDE THE GRATES.
11. CONTRACTOR SHALL CLEAN OUT ALL DOWNSTREAM STORM DRAINAGE SYSTEM AFTER PHASE CONSTRUCTION IS STABILIZED.

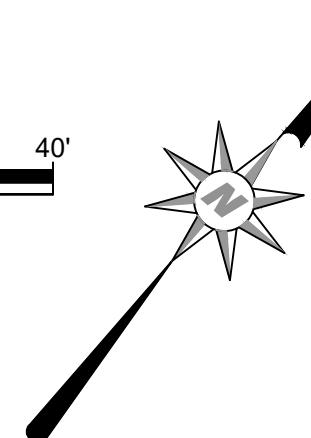
NPDES STABILIZATION TABLE

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

N/F
CHARLES COATS
DB 6515 PG 237
PN 05F02032
ZONING: R-E

N/F
UACFE LLC
DB 3372 PG 969
PN 05F02043I
ZONING: PD-MU

SCALE: 1 IN = 20 FT
20' 10' 0 20' 40'
SCALE IN FEET HORIZONTAL



Official Document
Town of Clayton
Construction Drawing
Approved for Construction
Director/Assistant Director of Engineering:
Planning Director:
Seal

SEAL
048484
NORTH CAROLINA
PROFESSIONAL
ENGINEERING
B. MATTHEWS
12/13/24

SITE PLAN/CD SUBMITTAL
CONSTRUCTION DRAWINGS
TOC PROJECT # 2024-114-SP_CD
MSD-2013-59

LONG TERM CARE - SPRINGBROOK CLAYTON

EROSION CONTROL DETAILS

ENGINERS TO
EST. 1911
NORTH CAROLINA
CLAYTON

Curry
ENGINEERING

LONG TERM CARE - SPRINGBROOK CLAYTON

EROSION CONTROL DETAILS

EROSION CONTROL NOTES

- THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS.
- TOTAL DISTURBANCE LIMITS = 1.33 ACRES.
- ANY GRADING BEYOND THE DENUDED LIMITS SHOWN IN THE PLAN IS A VIOLATION OF THE THE NORTH CAROLINA SEDIMENTATION CONTROL LAW & IS SUBJECT TO A FINE.
- GRADING MORE THAN 1 ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF THE THE NORTH CAROLINA SEDIMENTATION CONTROL LAW AND IS SUBJECT TO A FINE.
- ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH ALL NC DENR AND TOWN OF CLAYTON STANDARDS AND SPECIFICATIONS.
- ADJACENT PROPERTIES AND RIGHT-OF-WAY SHALL BE KEPT FREE OF MUD AND/OR SEDIMENT-LADEN RUNOFF.
- THE EROSION CONTROL MEASURES SHOWN ON THIS PLAN ARE RECOMMENDED AS A MINIMUM IN ORDER TO CONTROL RUN-OFF. IT IS POSSIBLE THAT MORE STRINGENT MEASURES MAY BE NEEDED AS DETERMINED BY THE CONTRACTOR, PROJECT ENGINEER, AND/OR EROSION CONTROL INSPECTOR. IF IT IS DETERMINED THAT ADDITIONAL RUN-OFF CONTROL IS NEEDED, SUCH MEASURES SHALL BE INSTALLED IMMEDIATELY.
- SHOULD MAINTENANCE ISSUES ARISE, PLEASE CONTACT JON WHITE AT 919-428-7361.
- CONTRACTOR SHALL LOCATE AND VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK.

EROSION & SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO CLEAR & GRUB AND SITE GRADE THE PROPERTY TO ACCOMMODATE 2 BUILDING ADDITIONS AND ASSOCIATED PARKING LOT AND UTILITY INFRASTRUCTURE. THE PROPERTY IS PRIVATELY OWNED. SEE OWNER INFORMATION ON EXISTING CONDITIONS PLAN. APPROXIMATELY 1.33 ACRES WILL BE DISTURBED DURING CONSTRUCTION. THE MAXIMUM FILL WILL BE APPROX. 2 FEET AND THE MAXIMUM CUT WILL BE APPROX. 2 FEET. THIS PROJECT WILL INVOLVE REMOVAL OF TOPSOIL AND SITE GRADING. STORM INLETS WILL BE EXTENDED TO THE EXISTING UNDERGROUND STORM DRAINAGE SYSTEM.

THE PROJECT IS SCHEDULED TO BEGIN CONSTRUCTION IN FALL 2024 WITH PROJECT COMPLETION AND FINAL STABILIZATION BY SUMMER 2025. THE EROSION AND SEDIMENT CONTROL PROGRAM FOR THIS PROJECT WILL INCLUDE THE INSTALLATION OF TEMPORARY SILT FENCING, SILT FENCE OUTLETS, INLET PROTECTION MEASURES

ADJACENT PROPERTY OWNERS ARE NOTED ON THE EXISTING CONDITIONS PLAN.

NATIVE SOILS

THE SOILS AT THIS SITE ARE PREDOMINATELY LOAMY SANDS. SOILS ARE MOSTLY WELL DRAINED WITH Ksat RANGES FROM MODERATELY HIGH TO HIGH. SLOPES ARE LARGELY BETWEEN 2 TO 6%.

CONSTRUCTION SEQUENCE:

- OBTAIN A LAND-DISTURBING PERMIT FROM NC DENR. THE PERMIT WILL COME FROM TOWN OF CLAYTON. THE STATE WILL PROVIDE NCG01. A COPY OF THE NCG01 MUST BE SENT TO THE TOC BEFORE PRECON.
- SCHEDULE A PRECONSTRUCTION CONFERENCE WITH TOWN OF CLAYTON AT LEAST ONE WEEK PRIOR TO START OF LAND DISTURBANCE.
- CLEAR THE AREA NEEDED TO CONSTRUCT THE REMAINDER OF PERIMETER EROSION CONTROL MEASURES INCLUDING SILT FENCE, AND OTHER MEASURES AS SHOWN ON THE APPROVED PLAN.
- CALL TOWN OF CLAYTON FOR AN ONSITE INSPECTION BY THE ONSITE INSPECTOR TO OBTAIN A CERTIFICATE OF COMPLIANCE.
- BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED.
- ROUGH GRADE ALL PAVEMENT AREAS/DRIVE AISLES.
- CONSTRUCT SANITARY SEWER SYSTEM THROUGHOUT PROJECT.
- INSTALL STORM SEWER, AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. BEGIN CONSTRUCTION BUILDING ETC.
- STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, SEED AND MULCH DENUDED AREAS WITHIN 7 OR 14 DAYS OF COMPLETION OF ANY PHASE OF CONSTRUCTION.
- WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL TOWN OF CLAYTON ON SITE INSPECTOR.
- IF SITE IS APPROVED, REMOVE SILT FENCE AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. EXISTING STORM DRAINAGE SYSTEM SHALL BE CLEARED OF ANY SEDIMENT.
- WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE ONSITE INSPECTOR. OBTAIN A CERTIFICATE OF COMPLETION.
- SUBMIT NOTICE OF TERMINATION TO NC DENR.
- INSPECTOR REFERS TO NORTH CAROLINA LAND QUALITY INSPECTOR, TOWN OF CLAYTON INSPECTOR, OR HIS REPRESENTATIVE. FIELD INSPECTIONS MAY REQUIRE ADDITIONAL SEDIMENTATION AND EROSION CONTROL MEASURES AS DEEMED NECESSARY BY THE INSPECTOR.
- CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL DEVICES SHALL CONFORM TO THE STANDARDS SET FORTH IN THE NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES LAND QUALITY SECTION: EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF EROSION CONTROL MEASURES DURING CONSTRUCTION AND THE OWNER IS RESPONSIBLE FOR ALL PERMANENT EROSION CONTROL METHODS AFTER CONSTRUCTION IS COMPLETE, IF ANY PERMANENT METHODS ARE REQUIRED.

DUST CONTROL

VEGETATIVE COVER
FOR DISTURBED AREAS NOT SUBJECT TO TRAFFIC, VEGETATION PROVIDES THE MOST PRACTICAL METHOD OF DUST CONTROL.

MULCH
WHEN PROPERLY APPLIED, MULCH OFFERS A FAST, EFFECTIVE MEANS OF CONTROLLING DUST.

MAINTENANCE
MAINTAIN DUST CONTROL MEASURES THROUGH DRY WEATHER PERIODS UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED.

SEDIMENT & EROSION CONTROLS

IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT THE EROSION AND SEDIMENT CONTROLS AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION CONTROLS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND SEDIMENT CONTROL REQUIREMENTS. ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES BE TO THE STANDARDS OF THE NC DEPT. OF ENVIRONMENTAL MANAGEMENT - LAND QUALITY SECTION.

STRUCTURAL PRACTICES

- SILT FENCE (SEDIMENT FENCE):** SILT FENCE CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION. SILT FENCES SHALL BE PROVIDED WHERE SHOWN AND AS NEEDED ON THE SITE PLAN. THESE BARRIERS SHALL BE USED TO CONTAIN SEDIMENT.
- SILT FENCE OUTLET:** GRAVEL SILT FENCE OUTLETS SHALL BE PROVIDED WHERE SHOWN AND AS NEEDED ON THE SITE PLAN. THESE OUTLETS SHALL BE LOCATED AT ALL LOW POINTS IN A RUN OF SILT FENCE AND USED TO DISCHARGE "CLEAN WATER" OFF-SITE.
- INLET PROTECTION:** HARDWIRE CLOTH AND GRAVEL INLET PROTECTION DEVICES CAN BE USED PREVENT SEDIMENT FROM ENTERING YARD INLETS, GRATED STORM DRAINS OR DROP INLETS DURING CONSTRUCTION. THIS PRACTICE ALLOWS EARLY USE OF THE STORM DRAIN SYSTEM

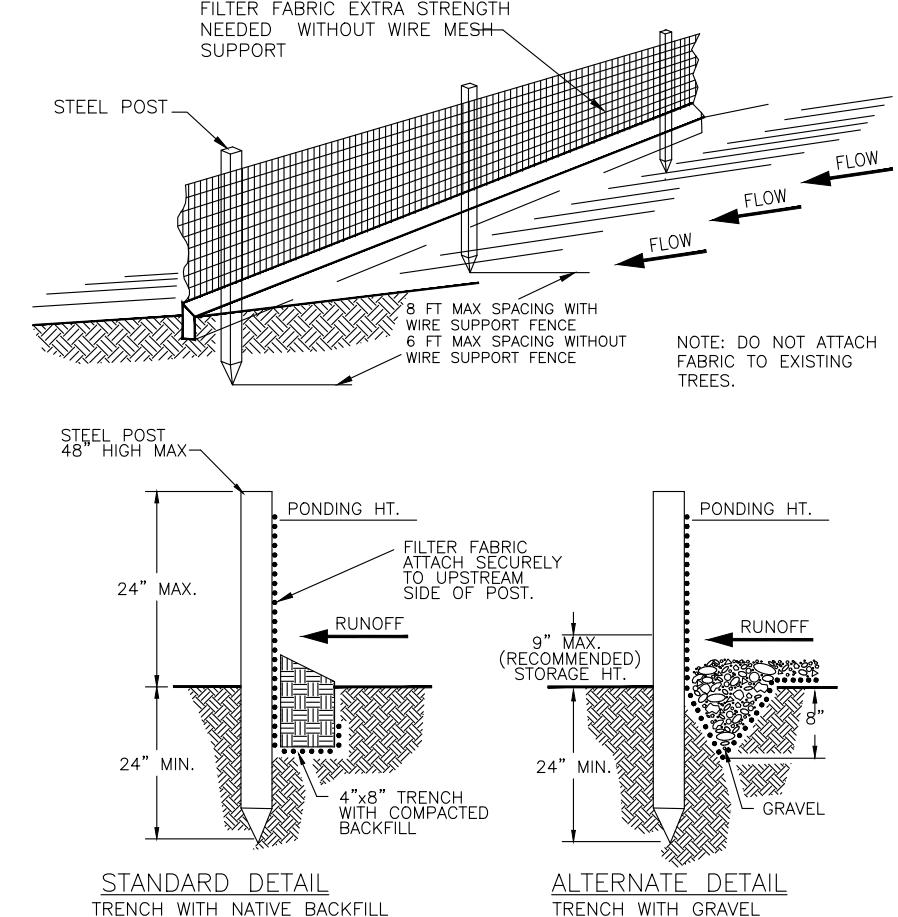
VEGETATIVE PRACTICES

- TEMPORARY SEEDING:** DISTURBED AREAS THAT ARE NOT ANTICIPATED TO BE BROUGHT TO FINAL GRADE FOR A PERIOD OF MORE THAN 7 OR 14 CALENDAR DAYS MUST RECEIVE TEMPORARY SEEDING (SEE NPDES TABLE). A QUICK GROWING GRASS SPECIES, WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING, SHOULD BE USED. TEMPORARY SEEDING SHALL BE PER TOWN OF CLAYTON REQUIREMENTS.
- TEMPORARY GRASSING:** THE SEEDED OR SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED OR HYDROMULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER.
- TEMPORARY REGRASSING:** IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER. RESEED AND MULCH BARE SPOTS LARGER THAN 9 SQUARE FEET.
- PERMANENT SEEDING:** ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL, AS A MINIMUM, BE SEEDED. PERMANENT SEEDING SHALL BE PER TOWN OF CLAYTON REQUIREMENTS. IF GROWTH IS NOT ESTABLISHED BY FINAL PROJECT INSPECTION, CONTINUE SPECIFIED ATTENTION UNTIL THE STAND OF GRASS IS ACCEPTABLE.

MAINTENANCE/INSPECTION PROCEDURES

THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.

- ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, DAILY AND WITHIN 24 HOURS OF EVERY RAINFALL EVENT.
- SILT FENCE: INSPECT FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND. BUILD UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.
- INLET PROTECTION: INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT. CLEAR THE MESH WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. REPLACE STONE AS NEEDED.
- SEEDING, FERTILIZING, AND MULCHING: INSPECT SEEDED AREAS FOR FAILURE AND NECESSARY REPAIRS AND RE-SEEDING SHALL BE MADE WITHIN THE SAME SEASON. TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
- MANTAIN THE ON-SITE RAIN GAUGE & DATA AND STORMWATER INSPECTION LOG SHEETS. THIS PERMIT INFORMATION MUST BE COLLECTED AND MAINTAINED UNTIL TOWN OF CLAYTON HAS CLOSED THE PROJECT & SURETY HAS BEEN RELEASED.
- THE CONTACT PERSON IS REQUIRED TO MAINTAIN A LOG OF SELF-INSPECTIONS PER REQUIREMENTS AS OUTLINED IN NCG0101 PERMIT. THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE OR LOCAL AGENCY APPROVING SEDIMENT AND EROSION PLANS, OR STORMWATER MANAGEMENT PLANS. THIS PERMIT INFORMATION MUST BE COLLECTED AND MAINTAINED UNTIL TOWN OF CLAYTON HAS CLOSED THE PROJECT.
- THE SITE SUPERINTENDENT WILL SELECT UP TO THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.
- PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE. SUPERINTENDENT: THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.
- GROUND STABILIZATION: SOIL STABILIZATION SHALL BE ACHIEVED ON ANY AREA OF A SITE WHERE LAND-DISTURBING ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED ACCORDING TO THE FOLLOWING SCHEDULE:
 - ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
 - ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS POSSIBLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.



CONSTRUCTION SPECIFICATIONS

1 USE A SYNTHETIC FILTER FABRIC OF AT LEAST 95% BY WEIGHT OF POLYOLEFINS OR POLYESTER, WHICH IS CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMANT TO THE REQUIREMENTS OF ASTM D 8461, WHICH IS SHOWN AS THE TEST STANDARD FOR FILTER FABRIC. THE FABRIC CONTAINS ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF 6 MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0 TO 120°F.

2 DURABLE STEEL POSTS FOR SEDIMENT FENCE ARE 1.33 INCHES DIAMETER STEEL WITH A MINIMUM LENGTH OF 5 FEET. MAKE SURE THAT STEEL POSTS HAVE PROJECTIONS TO FACILITATE FASTENING THE FABRIC.

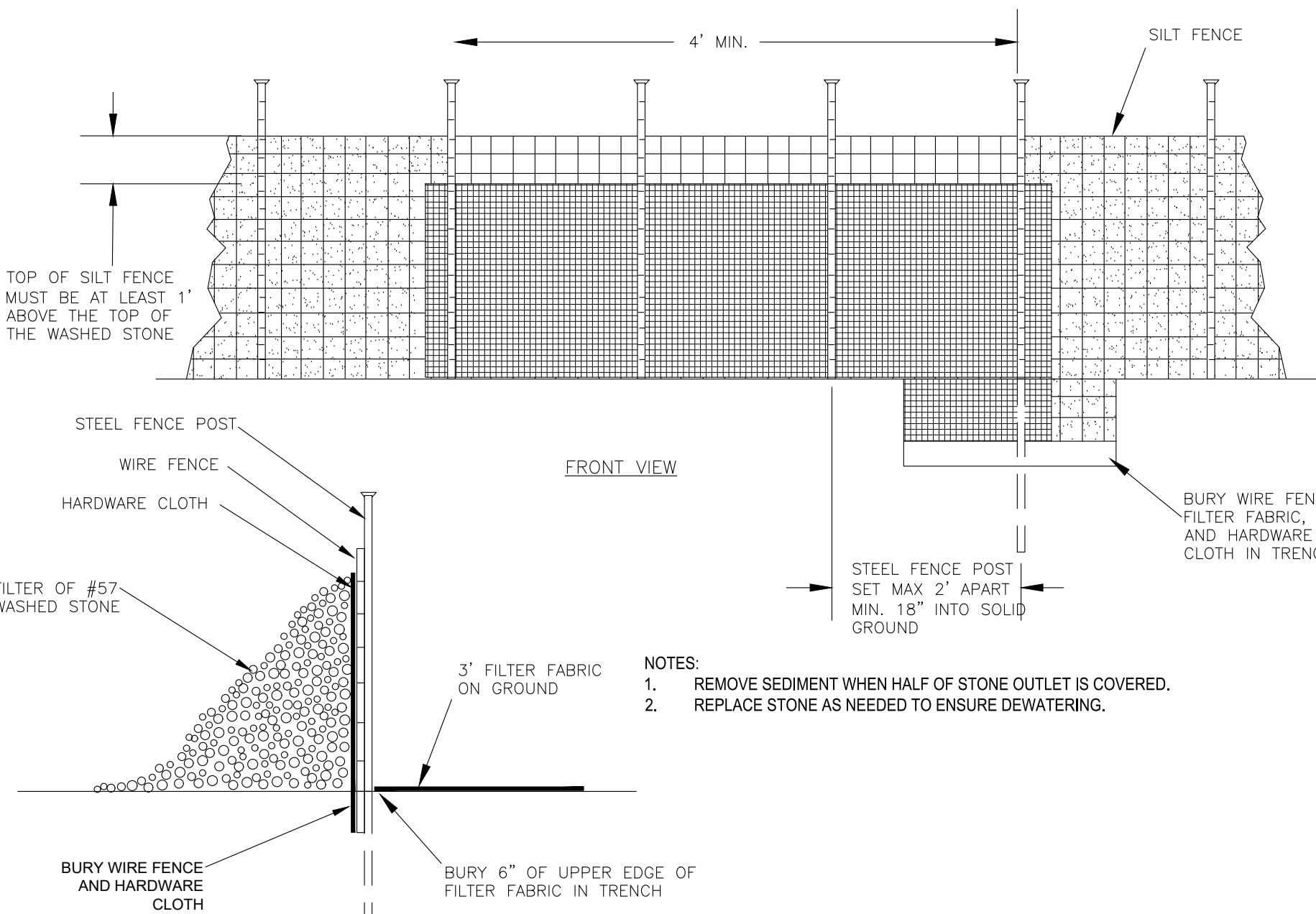
3 FOR REINFORCEMENT OF STANDARD STRENGTH FILTER FABRIC, USE WIRE FENCE WITH A MINIMUM 14 GAUGE AND A MAXIMUM MESH SPACING OF 6 INCHES.

Maintenance

INSPECT SEDIMENT FENCES DAILY AND AFTER EACH RAINFALL EVENT. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, OR DESTROY, REMOVE THE FABRIC, REPLACE STONE AS NEEDED, REMOVE SEDIMENT DEPOSITS AS NEEDED, AND PROVIDE AN APPROPRIATE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZED AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

DETAIL REFERENCE 6.62, NC ESCPDPM

1 STANDARD TEMPORARY SILT FENCE
EC-1.1 SCALE: NTS



2 STANDARD SILT FENCE OUTLET
EC-1.1 SCALE: NTS

NOTIFICATION OF COMBINED SELF-MONITORING AND SELF-INSPECTION FORM:

THE SEDIMENTATION POLLUTION CONTROL ACT WAS AMENDED IN 2006 TO REQUIRE THAT PERSONS RESPONSIBLE FOR LAND-DISTURBING ACTIVITIES INSPECT A PROJECT AFTER EACH PHASE OF THE PROJECT TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED. RULES DETAILING THE DOCUMENTATION OF THESE INSPECTIONS TOOK EFFECT OCTOBER 1, 2010.

TO SIMPLIFY DOCUMENTATION OF SELF-INSPECTION REPORTS AND NPDES SELF-MONITORING REPORTS, DWD AND DEMLR DEVELOPED A COMBINED FORM. THE SELF-INSPECTION PROGRAM IS SEPARATE FROM THE WEEKLY SELF-MONITORING PROGRAM OF THE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITIES. THE FOCUS OF THE SELF-INSPECTION REPORT IS THE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL MEASURES ACCORDING TO THE APPROVED PLAN. THE INSPECTIONS SHOULD BE CONDUCTED AFTER EACH PHASE OF THE PROJECT, AND CONTINUED UNTIL PERMANENT GROUND COVER IS ESTABLISHED. THE FORM CAN BE ACCESSED AT: [HTTP://PORTAL.NCDENR.ORG/WEB/LR/EROSION](http://PORTAL.NCDENR.ORG/WEB/LR/EROSION)

IF YOU HAVE QUESTIONS OR CANNOT ACCESS THE FORM, PLEASE CONTACT THE RALEIGH REGIONAL OFFICE AT (919) 791-4200.

2D/3D FOR 20240120240107 LONG TERM CARE - SPRINGBROOK CLAYTON PLANSHEET ELEC-2.0 EROSION CONTROL DETAILS.DWG
PLOTTED 20240120240107 09:53 AM



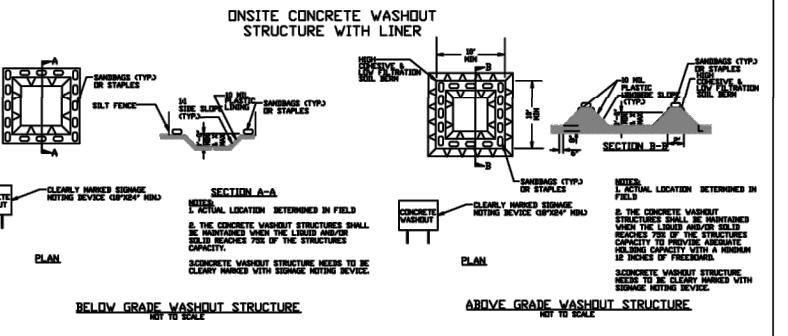
205 Fuquay Avenue
Fuquay-Varina, NC 27526
T (919) 552-2043
F (919) 552-2043

ENGINERS TO
EST. 1911
NORTH CAROLINA
CLAYTON

Curry
ENGINEERING

LONG TERM CARE - SPRINGBROOK CLAYTON
EROSION CONTROL DETAILS

REVISIONS
1 12/13/2024
FILE NO.
DATE: JULY 30, 2024
FILE NO.
ORIG. SHEET SIZE: 24 x 36

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT <p>Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.</p>																							
SECTION E: GROUND STABILIZATION <table border="1"> <thead> <tr> <th colspan="3">Required Ground Stabilization Timeframes</th> </tr> <tr> <th>Site Area Description</th> <th>Stabilize within this many calendar days after ceasing land disturbance</th> <th>Timeframe variations</th> </tr> </thead> <tbody> <tr> <td>(a) Perimeter dikes, swales, ditches, and perimeter slopes</td> <td>7</td> <td>None</td> </tr> <tr> <td>(b) High Quality Water (HQW) Zones</td> <td>7</td> <td>None</td> </tr> <tr> <td>(c) Slopes steeper than 3:1</td> <td>7</td> <td>If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed</td> </tr> <tr> <td>(d) Slopes 3:1 to 4:1</td> <td>14</td> <td>-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed</td> </tr> <tr> <td>(e) Areas with slopes flatter than 4:1</td> <td>14</td> <td>-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope</td> </tr> </tbody> </table> <p>Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.</p>			Required Ground Stabilization Timeframes			Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	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	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed	(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
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GROUND STABILIZATION SPECIFICATION <p>Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:</p> <table border="1"> <thead> <tr> <th>Temporary Stabilization</th> <th>Permanent Stabilization</th> </tr> </thead> <tbody> <tr> <td> <ul style="list-style-type: none"> Temporary grass seed covered with straw or other mulches and tackifiers Hydroseeding Rolled erosion control products with or without temporary grass seed Appropriately applied straw or other mulch Plastic sheeting </td> <td> <ul style="list-style-type: none"> Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Rolled erosion control products with grass seed </td> </tr> </tbody> </table>			Temporary Stabilization	Permanent Stabilization	<ul style="list-style-type: none"> Temporary grass seed covered with straw or other mulches and tackifiers Hydroseeding Rolled erosion control products with or without temporary grass seed Appropriately applied straw or other mulch Plastic sheeting 	<ul style="list-style-type: none"> Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Rolled erosion control products with grass seed 																	
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POLYACRYLAMIDES (PAMS) AND FLOCCULANTS <ol style="list-style-type: none"> Select flocculants that are appropriate for the soils being exposed during construction, selecting from the <i>NC DWR List of Approved PAMS/Flocculants</i>. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures. Apply flocculants at the concentrations specified in the <i>NC DWR List of Approved PAMS/Flocculants</i> and in accordance with the manufacturer's instructions. Provide ponding area for containment of treated Stormwater before discharging offsite. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures. 																							
EQUIPMENT AND VEHICLE MAINTENANCE <ol style="list-style-type: none"> Maintain vehicles and equipment to prevent discharge of fluids. Provide drip pans under any stored equipment. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible). Remove leaking vehicles and construction equipment from service until the problem has been corrected. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials. 																							
LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE <ol style="list-style-type: none"> Never bury or burn waste. Place litter and debris in approved waste containers. Provide a sufficient number and size of waste containers (e.g. dumpster, trash receptacle) on site to contain construction and domestic wastes. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers. Anchor all lightweight items in waste containers during times of high winds. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow. Dispose waste off-site at an approved disposal facility. On business days, clean up and dispose of waste in designated waste containers. 																							
PAINT AND OTHER LIQUID WASTE <ol style="list-style-type: none"> Do not dump paint and other liquid waste into storm drains, streams or wetlands. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available. Contain liquid wastes in a controlled area. Containment must be labeled, sized and placed appropriately for the needs of site. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites. 																							
PORTABLE TOILETS <ol style="list-style-type: none"> 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 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas. Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit. 																							
EARTHEN STOCKPILE MANAGEMENT <ol style="list-style-type: none"> 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. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile. Provide stable stone access point when feasible. 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. 																							
																							
ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER 																							
CONCRETE WASHOUTS <ol style="list-style-type: none"> Do not discharge concrete or cement slurry from the site. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence. Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail. Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow. Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout. 																							
HERBICIDES, PESTICIDES AND RODENTICIDES <ol style="list-style-type: none"> 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 <ol style="list-style-type: none"> 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. 																							
NCG01 GROUND STABILIZATION AND MATERIALS HANDLING																							
EFFECTIVE: 04/01/19																							

CONSTRUCTION SPECIFICATIONS

1. UNIFORMLY GRADE A SHALLOW DEPRESSION APPROACHING THE INLET.
2. DRIVE 5-FOOT STEEL POSTS 2 FEET INTO THE GROUND SURROUNDING THE INLET. SPACE POSTS EVENLY AROUND PERIMETER OF THE INLET, A MAXIMUM OF 4 FEET APART.
3. SURROUND THE POSTS WITH WIRE MESH HARDWARE CLOTH. SECURE THE WIRE MESH TO THE STEEL POSTS AT TOP, MIDDLE, AND BOTTOM. PLACING A 2-FOOT FLAP OF THE WIRE MESH UNDER THE GRAVEL FOR ANCHORING IS RECOMMENDED.
4. PLACE CLEAN GRAVEL (NC DOT #5 OR #57 STONE) ON A 2:1 SLOPE WITH A HEIGHT OF 16 INCHES AROUND THE INLET AND SMOOTH TO AN EVEN GRADE.
5. ONCE THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE ACCUMULATED SEDIMENT, AND ESTABLISH FINAL GRADING ELEVATIONS.
6. COMPACT THE AREA PROPERLY AND STABILIZED IT WITH GROUNDCOVER.

MAINTENANCE:

INSPECT INLETS DAILY AND AFTER EACH SIGNIFICANT ($\frac{1}{2}$ INCH OR GREATER) RAINFALL EVENT. CLEAR THE MESH WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. REPLACE STONE AS NEEDED.

STANDARD METAL POSTS 2' IN GROUND

GALVANIZED HARDWARE WIRE EXTENDS TO TOP OF BOX

#57 WASHED STONE PLACED TO A HEIGHT OF 12"-18" MIN. ABOVE TOP OF BOX.

INLET PROTECTION

1/4" = 10' N

<p style="text-align: center;">PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING</p> <p>SECTION A: SELF-INSPECTION</p> <p>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 inspections were delayed shall be noted in the Inspection Record.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Inspect</th> <th style="width: 10%;">Frequency (during normal business hours)</th> <th>Inspection records must include:</th> </tr> </thead> <tbody> <tr> <td>(1) Rain gauge maintained in good working order</td> <td>Daily</td> <td>Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.</td> </tr> <tr> <td>(2) E&SC Measures</td> <td>At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours</td> <td>1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.</td> </tr> <tr> <td>(3) Stormwater discharge outfalls (SDCs)</td> <td>At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours</td> <td>1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.</td> </tr> <tr> <td>(4) Perimeter of site</td> <td>At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours</td> <td>If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.</td> </tr> <tr> <td>(5) Streams or wetlands onsite or offsite (where accessible)</td> <td>At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours</td> <td>If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, 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.</td> </tr> <tr> <td>(6) Ground stabilization measures</td> <td>After each phase of grading</td> <td>1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.</td> </tr> </tbody> </table> <p>NOTE: The rain inspection resets the required 7 calendar day inspection requirement.</p>	Inspect	Frequency (during normal business hours)	Inspection records must include:	(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. 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Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.	<p style="text-align: center;">PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING</p> <p>SECTION B: RECORDKEEPING</p> <p>1. E&SC Plan Documentation</p> <p>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 kept on site and available for inspection at all times during normal business hours.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Item to Document</th> <th style="width: 70%;">Documentation Requirements</th> </tr> </thead> <tbody> <tr> <td>(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.</td> <td>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. 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Additional Documentation to be Kept on Site</p> <p>In addition to the E&SC plan documents above, the following items shall be kept on the site and available for 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:</p> <ol style="list-style-type: none"> This General Permit as well as the Certificate of Coverage, after it is received. Records of inspections made during the previous twelve months. 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. <p>3. Documentation to be Retained for Three Years</p> <p>All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]</p>	Item to Document	Documentation Requirements	(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.	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Oil spills if: <ul style="list-style-type: none"> 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). 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. Anticipated bypasses and unanticipated bypasses. Noncompliance with the conditions of this permit that may endanger health or the environment. <p>2. Reporting Timeframes and Other Requirements</p> <p>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 Department's Environmental Emergency Center personnel at (800) 858-0368.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Occurrence</th> <th style="width: 70%;">Reporting Timeframes (After Discovery) and Other Requirements</th> </tr> </thead> <tbody> <tr> <td>(a) Visible sediment deposition in a stream or wetland</td> <td> <ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. 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. 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(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 available, record the cumulative rain measurement for those unattended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may 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	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.																																													
(3) Stormwater discharge outfalls (SDCs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.																																													
(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	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.																																													
(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 activity, 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.																																													
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.																																													
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<p>PART II, SECTION G, ITEM (4) DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT</p> <p>Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:</p> <ol style="list-style-type: none"> The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items, The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit, Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems, Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above, Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States. 																																															
 NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING		EFFECTIVE: 04/01/19																																													

Town of Clayton Construction Drawing Approved for Construction

**SITE PLAN/CD SUBMITTAL
CONSTRUCTION DRAWINGS
TOC PROJECT # 2024-114-SP_CD
MSD-2013-59**