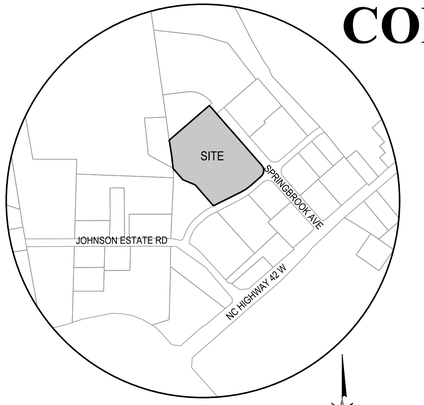
LONG TERM CARE - SPRINGBROOK

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



VICINITY MAP
NOT TO SCALE

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
DB/PG:	04348/0153
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

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GOVERNING AGENCIES:

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

STORMWATER
TOWN OF CLAYTON
ENGINEERING DEPT.
111 EAST SECOND ST.
CLAYTON, NC 27520
919-593-5002

ENGINEERING
TOWN OF CLAYTON
ENGINEERING DEPT.
111 EAST SECOND ST.
CLAYTON, NC 27520
919-553-3002

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
TOWN OF CLAYTON WATER & SEWER DEPT.
111 EAST SECOND ST.
CLAYTON, NC 27520
919-359-1267
CONTACT: BRANDON CARROLL

NCDENR-DWQ SEWER
NCDENR RALEIGH REGIONAL OFFICE
3800 BARRETT DRIVE
RALEIGH, NC 27609
919-791-4232

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

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:

Britthaven 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: Curk Lane, PLS

Town of Clayton Construction Drawing Approved for Construction
Director/Assistant Director of Engineering:
Planning Director:
Official Document
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 and belief, conforms to all laws, ordinances, policies and specifications that are applicable. Approval by the Town shall not relieve 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.

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

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

REVISIONS	
1	12/13/2024
	TOC COMMENTS #1

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

LONG TERM CARE - SPRINGBROOK CLAYTON
COVER

205 S. Fuquay Avenue
Fuquay-Varina, NC 27526
T (919) 552-0849
F (919) 552-2043
NC LIC. NO. P-0799
Curry ENGINEERING

C-0.0

Z:\PROJECTS FOLDER_RZ\BILLON\2024\2024-171 LONG TERM CARE - SPRINGBROOK - CLAYTON\PLANS\SITE PLAN\SHEET FILES\COVER DRAWING NOTES.DWG
PLOTTED: 12/13/2024 10:53 AM

General Notes:

1. TOPOGRAPHICAL DATA PERFORMED BY TRUE LINE SURVEYING AND AS-BUILT INFORMATION. SITE BENCHMARK IS AVAILABLE FROM SURVEYOR. CONTOURS SHOWN HEREON ARE FROM AN ACTUAL FIELD SURVEY. BOUNDARY INFORMATION SUPPLIED BY OWNER AND SHOWN FOR REFERENCE ONLY. CONSULT PLS FOR ACTUAL BOUNDARY DATA.
2. THE CONTRACTOR SHALL NOTIFY AND COOPERATE WITH ALL UTILITY COMPANIES OF FIRMS HAVING FACILITIES ON OR ADJACENT TO THE SITE BEFORE DISTURBING, ALTERING, REMOVING, RELOCATING, ADJUSTING OR CONNECTING TO SAID FACILITIES. THE OWNER SHALL PAY ALL COSTS IN CONNECTION WITH ALTERATION OF OR RELOCATION OF ANY EXISTING FACILITIES.
3. ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED.
4. ALL STRUCTURAL FILL MATERIAL SHALL BE FREE OF ALL STICKS, ROCKS, AND CLUMPS OF MUD.
5. UNUSABLE EXCAVATED MATERIALS AND ALL WASTE RESULTING FROM CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR IN AN APPROVED SOLID WASTE LANDFILL.
6. THE PROPOSED BUILDING IS SPRINKLERED.
7. THERE IS EXISTING UNDERGROUND WATER, SEWER, ELECTRICAL, AND FIBER OPTIC ON-SITE OR WITHIN CLOSE PROXIMITY. CONTRACTORS SHALL DIG WITH EXTREME CAUTION.
8. CONCRETE SUB SHALL BE RESPONSIBLE FOR ALL SCORE JOINTS AND EXPANSION JOINTS. SHOULD A QUESTION ARISE ABOUT THE PROPOSED PATTERN CONSULT WITH THE ENGINEER PRIOR TO POURING.
9. CONTRACTOR TO FURNISH ALL PAVEMENT MARKINGS AS SHOWN.
10. LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE AND MUST BE FIELD VERIFIED. CONTACT THE NC ONE CALL CENTER AT LEAST 48 HOURS PRIOR TO DIGGING @ 1.800.632.4949. THE SURVEYOR HAS ONLY LOCATED THE UTILITIES THAT ARE ABOVE GROUND AT THE TIME OF FIELD SURVEY. UNDERGROUND LINES SHOWN HEREON ARE APPROXIMATE OR AS REPORTED BY VARIOUS RESPONSIBLE PARTIES. THE SURVEYOR DOES NOT GUARANTEE THAT ANY UNDERGROUND STRUCTURES SUCH AS UTILITIES, TANKS AND PIPES ARE LOCATED HEREON.
11. ALL PIPE LENGTHS ARE HORIZONTAL DISTANCES AND ARE APPROXIMATE.
12. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, REGULATIONS, AND/OR LOCAL STANDARDS IMPOSED BY LOCAL UTILITY, JOHNSTON COUNTY, AND TOWN OF CLAYTON.
13. ALL CONSTRUCTION AND MATERIALS SHALL MEET TOWN OF CLAYTON SPECIFICATIONS AND STANDARDS, LATEST EDITION. ALL WORK WITHIN NCDOT RIGHT-OF-WAY SHALL MEET THE SPECIFICATIONS AND STANDARDS OF NCDOT.
14. ALL CONCRETE PIPE IS TO BE ASTM C-76, CLASS III WITH RAM-NEK.
15. THIS SITE IS NOT LOCATED IN A FLOOD HAZARD ZONE PER FEMA MAP. FEMA COMMUNITY MAP #: 3720164800K, DATED JUNE 20, 2018.
16. ALL LOT DIMENSIONS SHOWN ARE APPROXIMATE. CONSULT THE BOUNDARY SURVEY OF ACTUAL SITE BOUNDARY INFORMATION.
17. WETLANDS ARE NOT PRESENT ON SITE.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE TRAFFIC CONTROL IN OR ADJACENT TO NCDOT RIGHT-OF-WAY. ALL SIGNS, PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
19. PRIOR TO PLACING CABC STONE BASE, THE CONTRACTOR SHOULD NOTIFY THE PROJECT ENGINEER TO INSPECT AND PROOF ROLL THE SUBGRADE. ANY STONE PLACE WITHOUT PRIOR APPROVAL WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
20. DESIGN/FIELD CONDITIONS QUITE EASILY MAY VARY FROM THAT REPRESENTED IN THE INITIAL SOILS REPORT AND/OR TOPOGRAPHICAL REPORT. ISOLATED AREAS MAY SHOW UP WEAK AND ADVERSE SOILS OR GROUNDWATER CONDITIONS MAY BE DISCOVERED THAT WERE NOT REVEALED DURING THE INITIAL SOILS INVESTIGATION. THEREFORE, THE OWNER/CLIENT IS TO BE AWARE THAT CURRY ENGINEERING GROUP, PLLC WILL NOT AND CANNOT BE HELD RESPONSIBLE FOR ANY FAILURES TO EITHER A STREET OR PARKING LOT PAVEMENT DESIGN UNLESS WE CAN BE FULLY AND TOTALLY INVOLVED IN THE CONSTRUCTION PROCESS WHICH MAY INCLUDE, BUT MAY NOT NECESSARILY BE LIMITED TO, TESTING SUBGRADE AND BASE DENSITY, ENGAGING THE DESIGN ENGINEER FOR THE EVALUATION OF THE SUBGRADE AND FOR THE OBSERVATION OF PROOF ROLLING SUBGRADE AND BASE AT VARIOUS STEPS OF CONSTRUCTION, OPPORTUNITY FOR THE DESIGN ENGINEER TO CALL IN A SOILS ENGINEER FOR CONSULTATION AND ADVICE, ETC. - STEPS WHICH TAKEN ALTOGETHER WITH THE INITIAL DESIGN SHOWN ON THE PLANS, CONSTITUTE THE COMPLETE DESIGN OF THE ROAD, STREET OF PARKING AREA (PRIVATE OR PUBLIC). THE DESIGN ENGINEER MUST BE GIVEN THE FULL LATITUDE AND OPPORTUNITY TO COMPLETE THE DESIGN BY FULLY PARTICIPATING IN THE CONSTRUCTION PROCESS. PLAN DESIGN IS A SMALL PORTION OF THE DESIGN AND CANNOT BE SEPARATED FROM THE CONSTRUCTION PROCESS IF THE OWNER'S/CLIENT'S DESIRE IS TO HAVE THE DESIGN ENGINEER STAND BEHIND THE COMPLETED DESIGNED PROJECT.
21. ALL UTILITY SERVICES, (POWER, TELEPHONE, CABLE, ETC.) ARE PROPOSED TO BE UNDERGROUND. DO NOT SEED OR MULCH DISTURBED AREAS UNTIL ALL UNDERGROUND UTILITIES HAVE BEEN INSTALLED.
22. WATER AND SEWER IS TO BE PROVIDED BY THE TOWN OF CLAYTON.
23. THE BUILDING SETBACK LINES SHOWN ON THIS PLAT ARE FOR THE ENGINEER'S USE IN ESTABLISHING MINIMUM LOT FRONTAGES AT THE SETBACK LINE AND FOR RESERVING SUFFICIENT BUILDING AREA. BUILDING CONTRACTORS ARE TO VERIFY LOT LINE SETBACKS BEFORE SETTING FORMS OR DIGGING FOOTINGS.
24. REGULATORY SIGNS, STOPS SIGNS AND STREET NAME SIGNS SHALL BE MANUFACTURED FROM HIGH INTENSITY REFLECTIVE MATERIALS.
25. ALL EXCESS TOPSOIL AND UNCLASSIFIED EXCAVATION IS TO BE HAULED OFF-SITE, UNLESS OTHERWISE DIRECTED BY THE OWNER.
26. ALL SITE CONSTRUCTION MUST BE INSPECTED BY THE PROJECT ENGINEER AT THE FOLLOWING STAGES:
    A. COMPLETION OF GRADING SUBGRADE PRIOR TO PLACING STONE BASE.
    B. COMPLETION OF STONE PLACEMENT PRIOR TO PAVING.
    C. FINAL INSPECTION WHEN ALL WORK IS COMPLETE.
27. THE SURVEYOR DID NOT VISIBLY SEE ANY CEMETERIES IN ANY OPEN AREAS UNLESS OTHERWISE NOTED.
28. THIS PROPERTY DOES NOT DEPICT ENCUMBRANCES THAT ARE FOUND DURING A THOROUGH TITLE SEARCH.
29. ALL HVAC UNITS FOR THE PROPOSED BUILDING WILL BE SCREENED FROM PUBLIC RIGHT OF WAY.
30. ALL CURB AND GUTTER TO BE 24" STANDARD CURB AND GUTTER. ALL CURB AND GUTTER WITHIN NCDOT R/W SHALL BE 30" STANDARD.
31. ALL CURB AND GUTTER AND SIDEWALK CONCRETE IS TO BE MINIMUM 3,000 PSI AT 28 DAYS, AIR ENTRAINED.
32. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS INDICATED OTHERWISE.
33. PROVIDE HANDICAP SIGNS, MARKING AND RAMPS AS SHOWN.
34. HANDICAP RAMPS ARE TO MEET "ADA ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES" AS DETAILED IN THE FEDERAL REGISTER, VOLUME 56, NUMBER 144 DATED JULY 26, 1991, RULES AND REGULATIONS ACTIVATED JANUARY 26, 1992. FOR ADDITIONAL INFORMATION, REFER TO THE 2012 NC STATE BUILDING CODE CHAPTER 11, "ACCESSIBILITY." ALL STREET RETURNS TO HAVE H.C. RAMPS.
35. CONTRACTOR SHALL NOT POUR ANY CONCRETE BEFORE FORMS ARE INSPECTED BY THE PROJECT ENGINEER AND/OR OWNER. ANY CONCRETE THAT HAS NOT BEEN APPROVED BY THE ENGINEER AND/OR OWNER WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
36. ALL AREAS NOT COVERED BY BUILDING OR PARKING SHALL BE COVERED WITH 4" MINIMUM OF TOPSOIL, FREE OF ROOT MATTER AND ROCKS AND GRASSED.
37. CONTRACTOR SHALL SAW-CUT TO PROVIDE SMOOTH TRANSITIONS WHERE EXISTING ASPHALT AND/OR CURB AND GUTTER IS TO BE REMOVED.
38. THE CONTRACTOR SHALL PROVIDE ALL THE MATERIAL AND APPURTENANCES NECESSARY FOR THE COMPLETE INSTALLATION OF THE UTILITIES. ALL PIPE AND FITTINGS SHALL BE INSPECTED PRIOR TO BEING COVERED.
39. ALL HANDICAP SPACES ARE TO RECEIVE A HANDICAP SIGN AND HANDICAP SYMBOL PAINTED ON THE ASPHALT. NOTE STALLS TO RECEIVE `VAN ACCESSIBLE' SIGNAGE.
40. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF PRECISE BUILDING DIMENSIONS AND EXACT UTILITY ENTRANCE POINTS.
41. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS AND FIELD CONDITIONS WHEN POSSIBLE, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS WELL IN ADVANCE OF TRENCHING. IF THE CLEARANCES ARE LESS THAN SPECIFIED ON THE PLANS OR 12 INCHES, WHICH EVER IS LESS, CONTACT THE PROJECT ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
42. THE CONTRACTOR SHALL INCLUDE IN HIS CONTRACT PRICE THE REMOVAL AND DISPOSAL OF ANY EXCESS TOPSOIL HE DETERMINES IS NOT REQUIRED TO PERFORM THE FINAL GRADING AND LANDSCAPING OPERATION.
43. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL REQUIRED/NECESSARY SHEETING, SHORING, AND SPECIAL EXCAVATION MEASURES REQUIRED ON THE PROJECT TO MEET OSHA, FEDERAL, STATE AND LOCAL REGULATIONS PURSUANT TO THE INSTALLATION OF THE WORK INDICATED ON THE DRAWINGS. JOHNSTON COUNTY, TOWN OF CLAYTON, & CURRY ENGINEERING ACCEPT NO RESPONSIBILITY FOR THE DESIGN TO INSTALL SAID ITEMS.
44. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE DAILY RECORD KEEPING OF THE AS-BUILT CONDITION OF ALL OF THE UNDERGROUND UTILITIES, CONSTRUCTION STAKEOUT ASSOCIATED WITH THE PROJECT.
45. ALL WATER LINE AND SEWER LINE INSTALLATION SHALL CONFORM TO THE STANDARDS AND DETAILS OF THE STATE OF NORTH CAROLINA DEPARTMENT OF HEALTH CONSTRUCTION PERMIT AND TOWN OF CLAYTON .
46. THE LAND DISTURBANCE PERMIT MUST BE KEPT ON THE WORK SITE AND SHOWN UPON REQUEST.
47. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE ALL MATERIAL AND LABOR ASSOCIATED WITH THE TESTING OF THE WATER AND SEWER LINES REQUIRED BY THE STATE OF NORTH CAROLINA DEPARTMENT OF HEALTH & TOWN OF CLAYTON.
48. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE ANY DE-WATERING NECESSARY TO CONSTRUCT THE PROJECT AS SHOWN ON THE PLANS.
49. NATURAL GAS MAY BE AVAILABLE. SEE CONTACT INFORMATION THIS SHEET.
50. TESTING BY CONTRACTOR: CONTRACTOR SHALL EMPLOY AT HIS EXPENSE AN OUTSIDE INDEPENDENT SOIL TESTING SERVICE (APPROVED BY THE ARCHITECT) TO PERFORM SOIL TESTING AND INSPECTION SERVICE FOR QUALITY CONTROL TESTING DURING EARTHWORK OPERATIONS. COPIES OF RESULTS OF TESTS SHALL BE SUBMITTED BY THE TESTING SERVICE DIRECTLY TO THE CONTRACTOR, THE ARCHITECT, AND THE STRUCTURAL ENGINEER. --THE TESTING SERVICE WILL CLASSIFY PROPOSED ON-SITE AND BORROW SOILS TO VERIFY THAT SOILS COMPLY WITH SPECIFIED REQUIREMENTS AND TO PERFORM REQUIRED FIELD AND LABORATORY TESTING. (MINIMUM REQUIRED SOIL BEARING CAPACITY IS NOTED ON THE STRUCTURAL DRAWINGS). --IN PAVED AND BUILDING SLAB AREAS, THE TESTING SERVICE SHALL MAKE AT LEAST ONE FIELD DENSITY TEST FOR EACH 2000 SQUARE FEET OF FILL IN EACH COMPACTED FILL LAYER. IF A TEST SHOULD FAIL TO MEET REQUIRED DENSITY, THE CONTRACTOR SHALL RE-COMPACT THAT LAYER. THE SOIL TESTING SERVICE SHALL PERFORM ADDITIONAL TESTS AT THE CONTRACTOR'S EXPENSE TO SHOW THAT THE FAILED LAYER HAS REACHED THE REQUIRED COMPACTION. --IN FOUNDATION WALL AREAS, THE TESTING SERVICE SHALL MAKE AT LEAST ONE FIELD DENSITY TEST FOR EACH 100 FEET OR LESS OF WALL LENGTH OF FILL IN EACH COMPACTED FILL LAYER, WITH NO LESS THAN TWO TESTS ALONG A WALL FACE. IF A TEST SHOULD FAIL TO MEET REQUIRED DENSITY, THE CONTRACTOR SHALL RE-COMPACT THAT LAYER. THE SOIL TESTING SERVICE SHALL PERFORM ADDITIONAL TESTS AT THE CONTRACTOR'S EXPENSE TO SHOW THAT THE FAILED LAYER HAS REACHED THE REQUIRED COMPACTION.
51. COMPACTION: COMPACT EACH LAYER OF BACKFILL AND FILL SOIL MATERIALS AND THE TOP 12" OF SUBGRADE IN CUT AREAS TO 98% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 FOR STRUCTURES, SLABS, AND PAVEMENTS AND 95% OF MAXIMUM DENSITY FOR LAWNS OR UNPAVED AREAS.
52. THE BUILDING CONTRACTOR AND THE SITE WORK CONTRACTOR ARE TO COORDINATE THE INSTALLATION OF DRAINAGE PIPES AROUND THE BUILDING STRUCTURE.
53. ANY RELOCATION OF EXISTING UTILITIES WILL BE AT THE COST OF THE DEVELOPER/OWNER. THE TOWN WILL NOT ACCEPT RESPONSIBILITY FOR DAMAGES TO CURB AND GUTTER OR STREET IMPROVEMENTS INSTALLED PRIOR TO UNDERGROUND SERVICES, NOR WILL THE TOWN ABSORB THE COST FOR BORINGS TO INSTALL UNDERGROUND SERVICE, PAVEMENT PATCHING OR DAMAGE TO LANDSCAPING. THESE WILL BE THE RESPONSIBILITY OF THE DEVELOPER/OWNER.
54. FIRE DEPARTMENT VEHICULAR ACCESS TO ALL STRUCTURES UNDER CONSTRUCTION SHALL BE PROVIDED AT ALL TIMES. IN AREAS WHERE GROUND SURFACES ARE SOFT OR LIKELY TO BECOME SOFT, HARD ALL WEATHER SURFACE ROADS SHALL BE PROVIDED AND MAINTAINED.
55. ADDRESS NUMBERS, BOTH COMMERCIAL AND RESIDENTIAL, MUST BE POSTED ON THE FRONT OF THE STRUCTURE NEAREST TO THE MAIN ENTRANCE IN A POSITION TO BE PLAINLY LEGIBLE, VISIBLE, AND UNOBSTRUCTED FROM THE STREET OR ROAD FRONTING THE PROPERTY.
39. DISTURBED AREA IS IN EXCESS OF 1 ACRE AND FORMAL SEDIMENTATION & EROSION CONTROL PLAN APPROVAL IS REQUIRED AS A CONDITION OF CONSTRUCTION PLAN APPROVAL. A COPY OF THE APPROVED EROSION CONTROL PLAN MUST BE KEPT ON SITE AT ALL TIMES. THE APPROVED SEDIMENTATION & EROSION CONTROL PLAN SHOULD BE REGARDED AS MINIMUM REQUIREMENTS; ADDITIONAL MEASURES SHALL BE PUT IN PLACE AS NEEDED TO ENSURE THAT NO SEDIMENT IS RELEASED FROM THE SITE. THE CONTRACTOR IS RESPONSIBLE FOR PICKING UP AND PAYING FOR GRADING PERMIT ISSUED BY NCDENR LAND QUALITY
40. COPIES OF ALL PERMITS AND APPROVED PLANS MUST BE KEPT ON SITE IN A PERMIT BOX THAT IS CONSPICUOUSLY LOCATED AND EASILY ACCESSIBLE DURING CONSTRUCTION. THIS INCLUDES APPROVED CONSTRUCTION PLANS, APPROVED EROSION CONTROL PLANS, ENCROACHMENT AGREEMENTS, DRIVEWAY PERMITS, WATER/SEWER PERMITS, ETC.
41. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL JOHNSTON COUNTY, TOWN OF CLAYTON AND NCDENR STANDARDS AND SPECIFICATIONS.
42. MAINTAIN MINIMUM 3' COVER FOR ALL WATER PIPE.
43. WHERE WATERLINE CROSSES:
    A. SANITARY SEWER: WATERLINE SHALL CROSS ABOVE AND MAINTAIN 18" VERTICAL SEPARATION OR 10' OF HORIZONTAL SEPARATION. IF THIS SEPARATION CANNOT MAINTAIN OR IF WATERLINE PASSES BELOW SEWER LINE THEN BOTH WATERLINE AND SEWER LINE SHALL BE CLASS 50 DUCTILE IRON PIPE FOR A MINIMUM OF 10' EACH SIDE OF CROSSING.
    B. STORM SEWER: WHERE WATERLINE CROSSES ABOVE MAINTAIN 1' VERTICAL SEPARATION, WHERE WATERLINE CROSSES BELOW MAINTAIN 18" VERTICAL SEPARATION. IF THIS SEPARATION CANNOT BE MAINTAINED WATERLINE SHALL BE CLASS 50 DUCTILE IRON PIPE FOR MINIMUM OF 10' EACH SIDE OF CROSSING.
44. WHERE SANITARY SEWER CROSSES STORM MAINTAIN 18" SEPARATION. IF THIS SEPARATION CANNOT BE MAINTAINED SANITARY SEWER SHALL BE CLASS 50 DUCTILE IRON PIPE FOR MINIMUM OF 10' EACH SIDE OF CROSSING.
45. REFERENCE NC 15A, 18C, .0906 FOR ADDITIONAL CROSSING INFORMATION. THIS CRITERIA SHALL BE MET AT ALL CROSSINGS.

GENERAL ABBREVIATIONS:

IDENTIFIER	DESCRIPTION
&	AND
℄	CENTERLINE
Ø	DIAMETER OR ROUND
⅊	PROPERTY LINE
-- A --	
ABC	AGGREGATE BASE
ASPH	ASPHALT
AVE	AVENUE
-- B --	
BLVD	BOULEVARD
BLDG	BUILDING
BOC	BACK OF CURB
BW	BOTTOM OF WALL
-- C --	
CB	CATCH BASIN
CI	CURB INLET
CIP	CAST IRON PIPE
CLS	CLASS
CJ	CONTROL JOINT
CO	CLEANOUT
CONC	CONCRETE
-- D --	
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DOM	DOMESTIC
DR	DRIVE
-- E --	
(XX)	EXISTING ELEVATION
E	EAST, EASTING
EL	ELEVATION
EJ	EXPANSION JOINT
EOP	EDGE OF PAVEMENT
EX	EXISTING
EVAP	EVAPORATIVE
-- F --	
FDC	FIRE DEPARTMENT CONNECTION
FES	FLARED END SECTION
FFE	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE
FHA	FIRE HYDRANT ASSEMBLY
FL	FLOW LINE
FT	FOOT OR FEET
-- G --	
G	GAS
GALV	GALVANIZED
GB	GRADE BREAK
GE	GENERAL ELECTRIC
GR	GRADE
-- H --	
HDPE	HIGH DENSITY POLYETHYLENE
HORIZ	HORIZONTAL
HOV	HIGH OCCUPANCY VEHICLE
HP	HIGH POINT
-- I --	
IAW	IN ACCORDANCE WITH
I.H.	INTERSTATE HIGHWAY
INV	INVERT
-- L --	
LEN	LENGTH
LEV	LOW EMISSION VEHICLE
LF	LINEAR FEET
LP	LOW POINT
-- M --	
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
-- N --	
N	NORTH, NORTHING
NCDENR	NORTH CAROLINA DEPARTMENT OF ENVIRONMENT & NATURAL RESOURCES
NCDOT	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
NTS	NOT TO SCALE
-- O --	
OH	OVERHEAD
OCB	OFF-SET CATCH BASIN
-- P --	
PCC	PORTLAND CEMENT CONCRETE
PE	POLYETHYLENE
PKWY	PARKWAY
POC	POINT OF CONNECTION
PVC	POLYVINYL CHLORIDE
-- R --	
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
R.O.W.	RIGHT OF WAY
RPDA	REDUCED PRESSURE DETECTOR ASSEMBLY
RPZ	REDUCED PRESSURE ZONE
-- S --	
S	SOUTH
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SDE	SIGHT DISTANCE EASEMENT
SSMH	SANITARY SEWER MANHOLE
SS	SANITARY SEWER
STA	STATION
STD	STANDARD
ST.STL	STAINLESS STEEL
SWPPP	STORMWATER POLLUTION PREVENTION PLAN
-- T --	
TB	TOP OF BARRIER
TC/TOC	TOP OF CURB
TD	TEMPORARY DIVERSION
TH	TEST HEADER
TOP	TOP OF PIPE
TP	TOP OF PAD
TYP	TYPICAL
TW	TOP OF WALL
-- U --	
UG	UNDERGROUND
-- V --	
VEG	VEGETATED
VERT	VERTICAL
-- W --	
W	WEST
W/	WITH
W/O	WITHOUT
-- Y --	
YI	YARD INLET

** ALL SYMBOLS & ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS DRAWING PACKAGE **

BEFORE YOU DIG, CALL
811
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www.ncocc.org

REVISIONS
1 | 12/13/2024 | TOC COMMENTS #1

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

LONG TERM CARE - SPRINGBROOK CLAYTON
CIVIL NOTES

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NC LIC. NO. P-0799

Town of Clayton
Construction Drawing
Approved for Construction
Director/Assistant Director of Engineering:
Planning Director:
Official Document
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 and belief, conforms to all laws, ordinances, policies and specifications that are applicable. Approval by the Town shall not relieve 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.

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

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

C-1.0

Z:\PROJECTS FOLDER-ZEBULON\2024\2024-017 LONG TERM CARE - SPRINGBROOK - CLAYTON\PLANS\SITE PLAN\SHEET FILES\C-1.0 CIVIL NOTES.DWG
PLOTTED: 12/13/2024 10:53 AM

GENERAL NOTES:

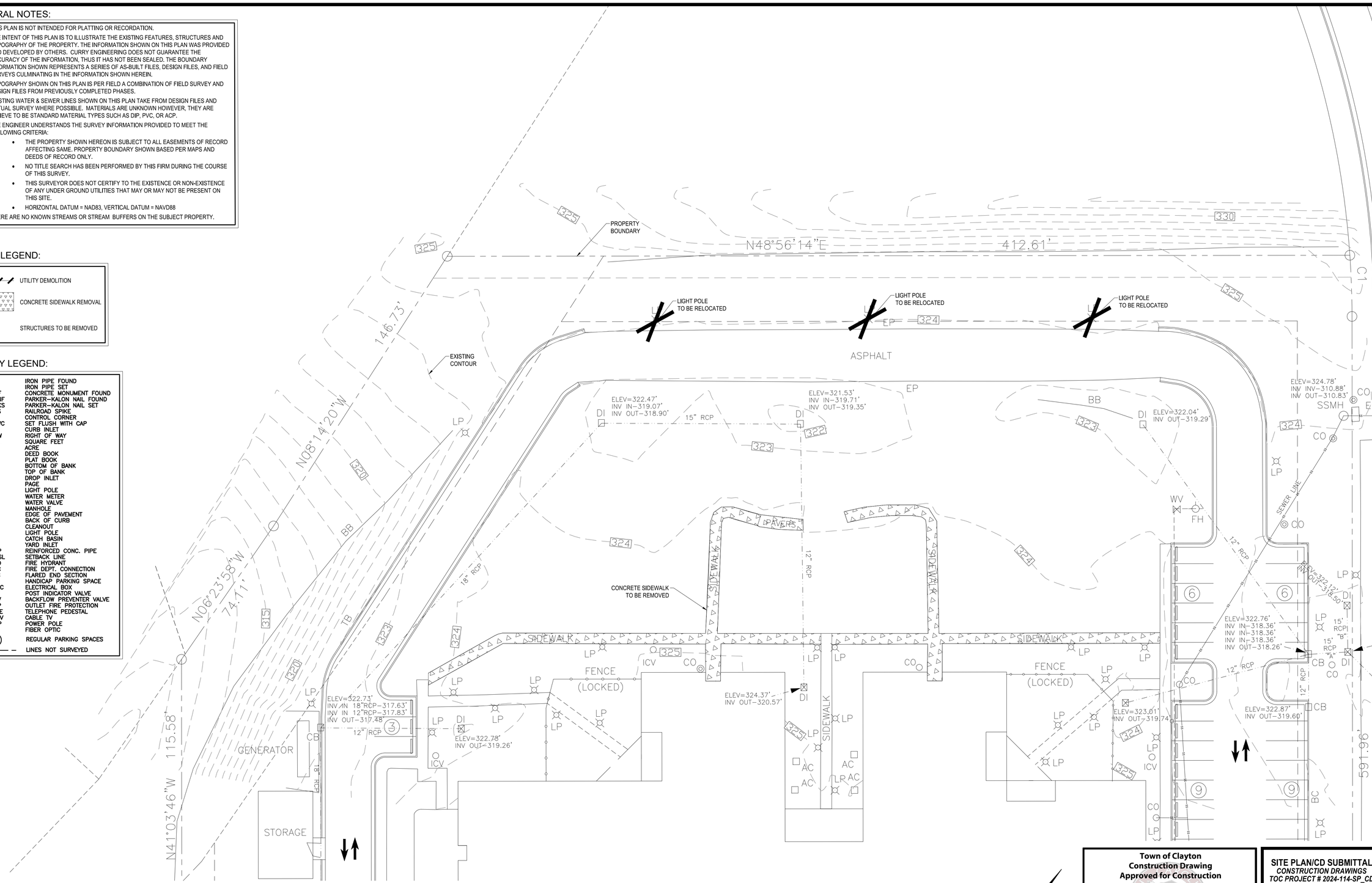
1. THIS PLAN IS NOT INTENDED FOR PLATTING OR RECORDATION.
2. THE INTENT OF THIS PLAN IS TO ILLUSTRATE THE EXISTING FEATURES, STRUCTURES AND TOPOGRAPHY OF THE PROPERTY. THE INFORMATION SHOWN ON THIS PLAN WAS PROVIDED AND DEVELOPED BY OTHERS. CURRY ENGINEERING DOES NOT GUARANTEE THE ACCURACY OF THE INFORMATION, 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:

- UTILITY DEMOLITION
- CONCRETE SIDEWALK REMOVAL
- STRUCTURES TO BE REMOVED

SURVEY LEGEND:

○	IPF	IRON PIPE FOUND
●	IPS	IRON PIPE SET
□	CMF	CONCRETE MONUMENT FOUND
○	PKNF	PARKER-KALON NAIL FOUND
●	PNKS	PARKER-KALON NAIL SET
●	RRS	RAILROAD SPIKE
△	CC	CONTROL CORNER
	SFWC	SET FLUSH WITH CAP
	CI	CURB INLET
	R/W	RIGHT OF WAY
	S.F.	SQUARE FEET
	AC	ACRE
	DB	DEED BOOK
	PB	PLAT BOOK
	BB	BOTTOM OF BANK
	TB	TOP OF BANK
	DI	DROP INLET
	PG	PAGE
	LP	LIGHT POLE
	WM	WATER METER
	WV	WATER VALVE
	MH	MANHOLE
	EP	EDGE OF PAVEMENT
	BC	BACK OF CURB
	CO	CLEANOUT
	LP	LIGHT POLE
	CB	CATCH BASIN
	YI	YARD INLET
	RCP	REINFORCED CONC. PIPE
	MBSL	SETBACK LINE
	HYD	FIRE HYDRANT
	FDC	FIRE DEPT. CONNECTION
	FES	FLARED END SECTION
	HC	HANDICAP PARKING SPACE
	ELEC	ELECTRICAL BOX
	PIV	POST INDICATOR VALVE
	BPV	BACKFLOW PREVENTER VALVE
	OFP	OUTLET FIRE PROTECTION
	TELE	TELEPHONE PEDESTAL
	CATV	CABLE TV
	P/P	POWER POLE
	FO	FIBER OPTIC
	(8)	REGULAR PARKING SPACES
	— — — —	LINES NOT SURVEYED



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' 10' 0 20' 40'
SCALE IN FEET HORIZONTAL

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CONSTRUCTION DRAWINGS
TOC PROJECT # 2024-114-SP_CD
MSD-2013-59

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL NOT APPLICABLE AS ENGINEER DOES NOT DESIGN INFORMATION PROVIDED BY OTHERS
FRED B. MATTHEWS
12/13/24

REVISIONS	
1	12/13/2024
	TOC COMMENTS #1

DATE: JULY 30, 2024
FILE NO.:
HORIZ. SCALE:
ORIG. SHEET SIZE: 24 x 36

LONG TERM CARE - SPRINGBROOK CLAYTON
EXISTING CONDITIONS & DEMOLITION

205 S. Fuquay Avenue
Fuquay-Varina, NC 27526
T (919) 552-0249
F (919) 552-2443
NC LIC. NO. P-0799
Curry ENGINEERING

C-2.0

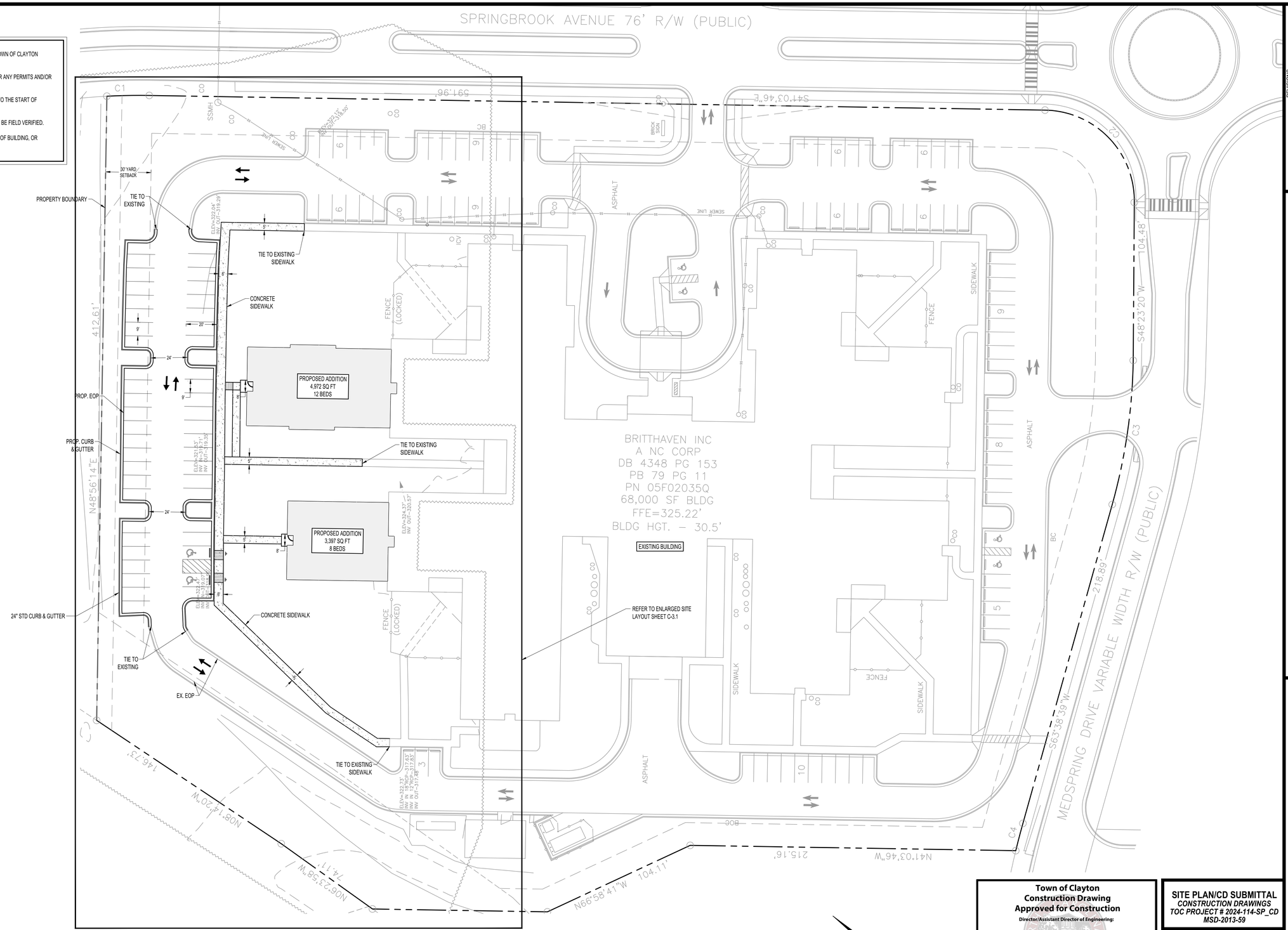
Z:\PROJECTS FOLDER-2EBULDN\2024\2024-117 LONG TERM CARE - SPRINGBROOK - CLAYTON\PLANS\SITE PLAN\SHEET FILES\C-2.0 EXISTING CONDITIONS & DEMOLITION.DWG

SITE NOTES:

1. ALL CONSTRUCTION MUST BE PERFORMED IN ACCORDANCE WITH TOWN OF CLAYTON STANDARD SPECIFICATIONS AND DETAILS.
2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ANY PERMITS AND/OR CONNECTION FEES REQUIRED TO CARRY OUT THE WORK.
3. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL GRADES PRIOR TO THE START OF CONSTRUCTION.
4. EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.
5. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT, FACE OF CURB, FACE OF BUILDING, OR PROPERTY LINE UNLESS SHOWN OTHERWISE.

SITE LEGEND:

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



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TOC PROJECT # 2024-114-SP_CD
MSD-2013-59

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 048484 ENGINEER JARED B. MATTHEWS

12/13/24

1	12/13/2024	REVISIONS TOC COMMENTS #1

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

LONG TERM CARE - SPRINGBROOK CLAYTON
OVERALL SITE PLAN

Curry ENGINEERING
CURRY ENGINEERS 2 SURVEYORS
NC LIC. NO. P-0795
T (919) 552-0849
F (919) 552-2943
205 S. Fuquay Avenue
Fuquay-Varina, NC 27526

C-3.0

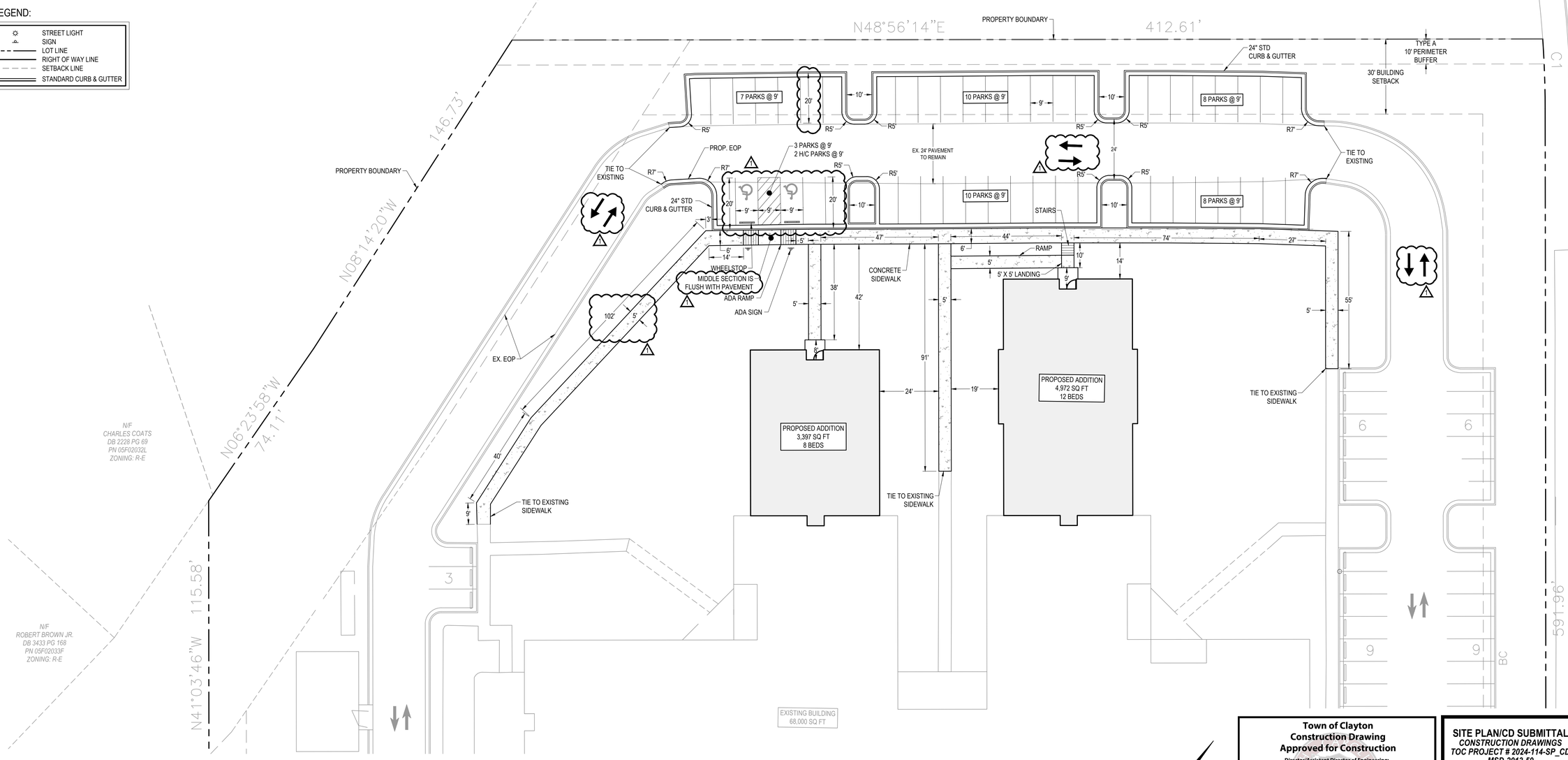
Z:\PROJECTS FOLDER\ZEBULON\2024\2024-171 LONG TERM CARE - SPRINGBROOK - CLAYTON\PD\ASSISTED PLANS\SHEET FILES\C-3.0 OVERALL SITE PLAN.DWG
PLOTTED: 12/13/2024 9:53 AM

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL BE PER TOWN OF CLAYTON STANDARDS AND SPECIFICATIONS.
2. ALL DIMENSIONS ARE IN FEET AND FACE OF CURB UNLESS OTHERWISE NOTED.
3. ALL SITE ELEMENTS ARE PERPENDICULAR TO EACH OTHER UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, RIGHT-OF-WAYS AND UTILITIES, PUBLIC OR PRIVATE, BEFORE WORKING IN THESE AREAS.
5. 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.
6. 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
7. CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE UPON COMPLETION OF THE PROJECT AND AT LEAST ONCE A WEEK DURING CONSTRUCTION.
8. 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.
9. 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.
10. ANY AND ALL QUANTITIES SHOWN OR IMPLIED ON THE PLANS ARE FOR ESTIMATION PURPOSES ONLY.

SITE LEGEND:

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



Town of Clayton
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SEAL
NORTH CAROLINA PROFESSIONAL SEAL 048484 ENGINEER
FRED B. MATTHEWS
12/13/24

REVISIONS	
1	12/13/2024 TOC COMMENTS #1

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

LONG TERM CARE - SPRINGBROOK CLAYTON
SITE PLAN

Curry ENGINEERING
205 S. Fuquay Avenue
Fuquay-Varina, NC 27526
T (919) 552-0949
F (919) 552-2043
CURRY ENGINEERS 1st NORTH CAROLINA
NC LIC. NO. P-0798

C-3.1

Z:\PROJECTS FOLDER\ZEBULON\2024\2024-0171 LONG TERM CARE - SPRINGBROOK - CLAYTON\PLANSSET\PLANSHEET FILES\C-2.1 SITE PLAN.DWG
PLOTTED: 12/13/2024 9:53 AM

GENERAL NOTES:

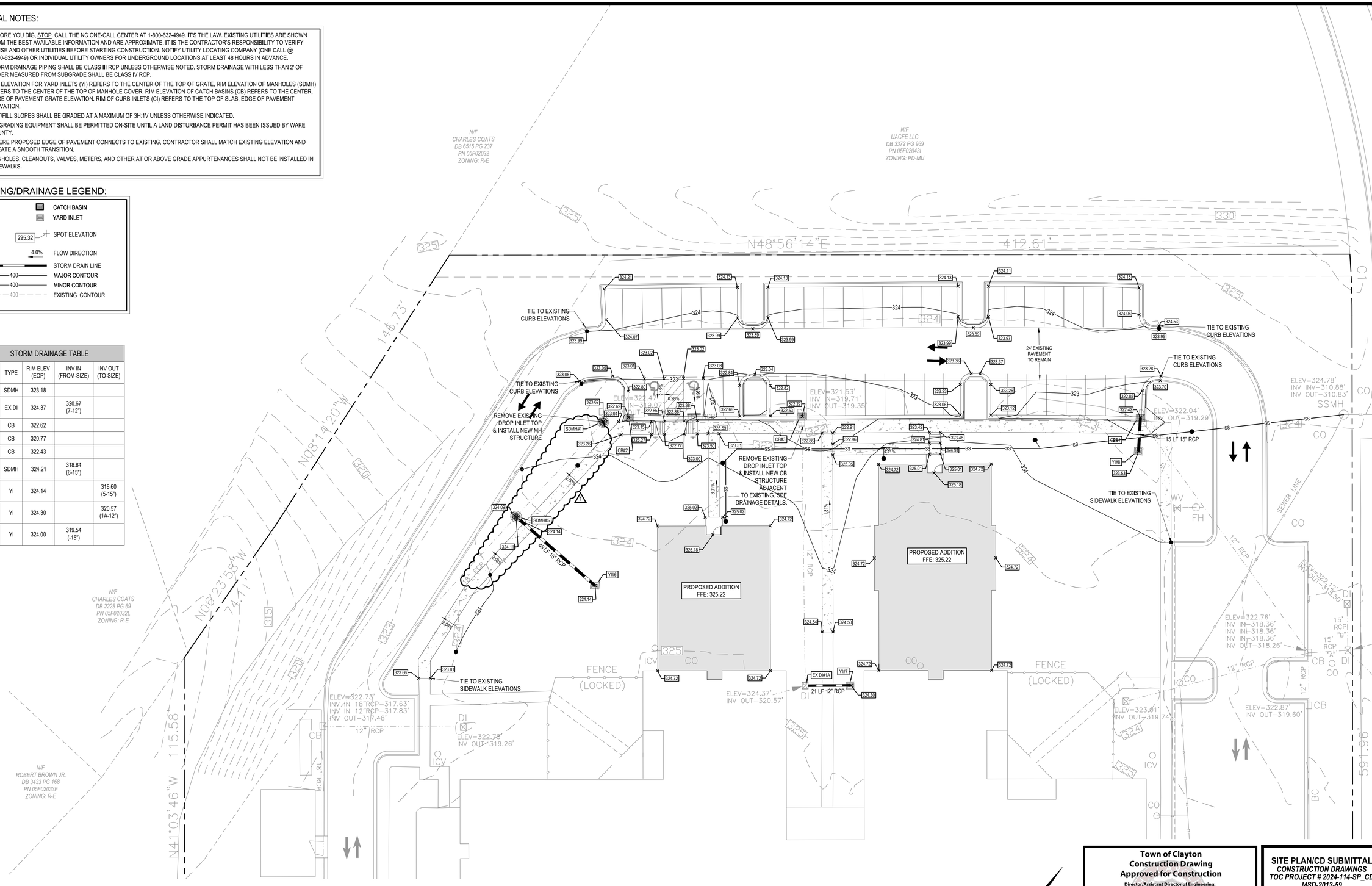
1. BEFORE YOU DIG, STOP. CALL THE NC ONE-CALL CENTER AT 1-800-632-4949. IT'S THE LAW. EXISTING UTILITIES ARE SHOWN FROM THE BEST AVAILABLE INFORMATION AND ARE APPROXIMATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THESE AND OTHER UTILITIES BEFORE STARTING CONSTRUCTION. NOTIFY UTILITY LOCATING COMPANY (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:

- CATCH BASIN
- YARD INLET
- 295.32 — SPOT ELEVATION
- 4.0% — FLOW DIRECTION
- STORM DRAIN LINE
- 400 — MAJOR CONTOUR
- 400 — MINOR CONTOUR
- 400 — EXISTING CONTOUR

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")	



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MSD-2013-59

SEAL

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

REVISIONS		
1	12/13/2024	TOC COMMENTS #1

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

LONG TERM CARE - SPRINGBROOK CLAYTON
GRADING & DRAINAGE PLAN

205 S. Fuquay Avenue
Fuquay-Varina, NC 27526
T (919) 552-0849
F (919) 552-2043
NC LIC. NO. P-0793
Curry ENGINEERING

C-4.0

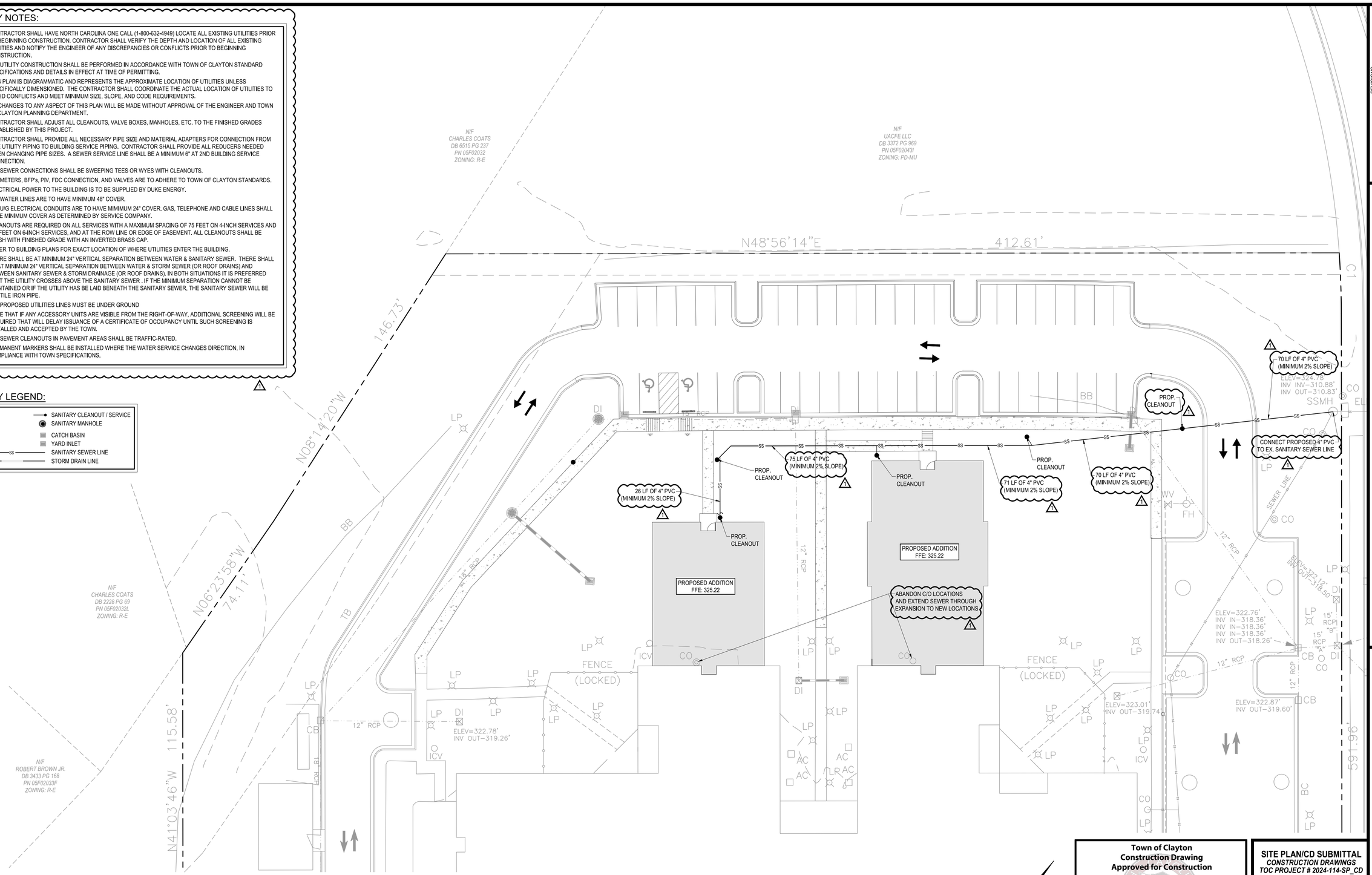
Z:\PROJECTS FOLDER-ZEBU\LONG2024\2024-117 LONG TERM CARE - SPRINGBROOK - CLAYTON\PLANS\SITE PLAN\SHEET FILES\C-3.0 GRADING & DRAINAGE PLAN.DWG
PLOTTED: 12/13/2024 10:54 AM

UTILITY NOTES:

1. 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.
2. ALL UTILITY CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH TOWN OF CLAYTON STANDARD SPECIFICATIONS AND DETAILS IN EFFECT AT TIME OF PERMITTING.
3. 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.
4. NO CHANGES TO ANY ASPECT OF THIS PLAN WILL BE MADE WITHOUT APPROVAL OF THE ENGINEER AND TOWN OF CLAYTON PLANNING DEPARTMENT.
5. CONTRACTOR SHALL ADJUST ALL CLEANOUTS, VALVE BOXES, MANHOLES, ETC. TO THE FINISHED GRADES ESTABLISHED BY THIS PROJECT.
7. 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.
8. ALL SEWER CONNECTIONS SHALL BE SWEEPING TEES OR WYES WITH CLEANOUTS.
9. ALL METERS, BFP's, PIV, FDC CONNECTION, AND VALVES ARE TO ADHERE TO TOWN OF CLAYTON STANDARDS.
10. ELECTRICAL POWER TO THE BUILDING IS TO BE SUPPLIED BY DUKE ENERGY.
11. ALL WATER LINES ARE TO HAVE MINIMUM 48" COVER.
12. ALL U/G ELECTRICAL CONDUITS ARE TO HAVE MIMIMUM 24" COVER. GAS, TELEPHONE AND CABLE LINES SHALL HAVE MINIMUM COVER AS DETERMINED BY SERVICE COMPANY.
13. 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.
14. REFER TO BUILDING PLANS FOR EXACT LOCATION OF WHERE UTILITIES ENTER THE BUILDING.
15. 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 BE LAID BENEATH THE SANITARY SEWER, THE SANITARY SEWER WILL BE DUCTILE IRON PIPE.
16. ALL PROPOSED UTILITIES LINES MUST BE UNDER GROUND
17. 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.
18. ALL SEWER CLEANOUTS IN PAVEMENT AREAS SHALL BE TRAFFIC-RATED.
19. PERMANENT MARKERS SHALL BE INSTALLED WHERE THE WATER SERVICE CHANGES DIRECTION, IN COMPLIANCE WITH TOWN SPECIFICATIONS.

UTILITY LEGEND:

- SANITARY CLEANOUT / SERVICE
- SANITARY MANHOLE
- CATCH BASIN
- YARD INLET
- SANITARY SEWER LINE
- STORM DRAIN LINE



SCALE: 1 IN = 20 FT

20' 10' 0 20' 40'

SCALE IN FEET
HORIZONTAL

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12/13/24

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ORIG. SHEET SIZE: 24 x 36

LONG TERM CARE - SPRINGBROOK CLAYTON
UTILITY PLAN

Curry ENGINEERING
205 S. Fuquay Avenue
Fuquay-Varina, NC 27526
T (919) 552-0649
F (919) 552-2943
NC LIC. NO. P-0798

C-5.0

Z:\PROJECTS FOLDER\ZEBULON\2024\2024-0171 LONG TERM CARE - SPRINGBROOK - CLAYTON\PLANS\SITE PLAN\SHEET FILES\C-5.0 UTILITY PLAN.DWG
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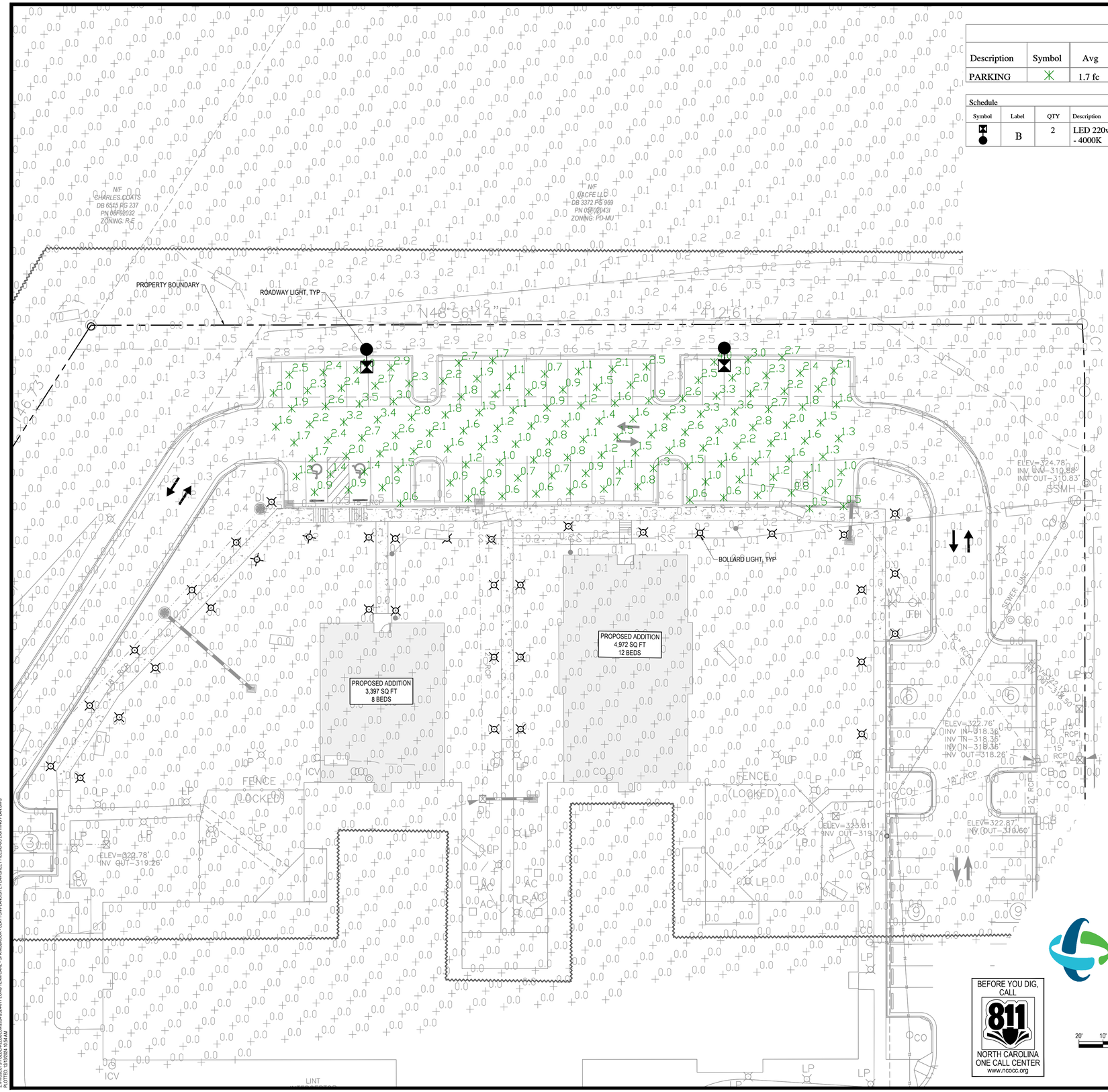


Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PARKING		1.7 fc	4.0 fc	0.5 fc	8.0:1	3.4:1

Schedule

Symbol	Label	QTY	Description	Number Lamps	Lamp Output	LLF
	B	2	LED 220w Shoebox - Type IV - - 4000K	64	381	0.85

Outdoor Lighting

SHOEBOX LED
(Meets Dark Sky Criteria)

LED (Light-emitting diode)	150 | 220 | 420 | 530 watts
Mounting height	25', 30', 35'
Color	Black | Bronze | Gray | White
Pole	Fiberglass *(1 or 2 fixtures per pole)* Decorative tapered metal Decorative square metal
Applications	Neighborhoods Roadways Shopping centers

Light source: LED (white)

Wattage: 150 | 220 | 420 | 530 watts

Light pattern: IES Type V | Type IV (forward throw) | Type III

IESNA cutoff classification: Full-cutoff

BUG rating: 150W Type III = B2U0G3 / Type IV = B3U0G4 / Type V = B5U0G3
220W Type III = B2U0G4 / Type IV = B3U0G4 / Type V = B4U0G3
420W Type IV = B3U0G5 / Type V = B5U0G5
530W Type IV = B3U0G5 / Type V = B5U0G5

Color temperature: 4,000K

Light distribution pattern

POLE AVAILABLE	MOUNTING HEIGHT	COLOR
Round tapered decorative metal*	30'	Black, Bronze
Decorative square metal*	25' and 30'	Black, Bronze, Gray, White
Fiberglass	25' and 30'	Black *(1 or 2 fixtures per pole)* Gray *(1 or 2 fixtures per pole)*

FEATURES	BENEFITS
Turnkey operation	Provides hassle-free installation and service
Little or no installation cost	Frees up capital for other projects
Design services by lighting professionals included	Meets industry standards and lighting ordinances
Maintenance, electricity & warranty included	Eliminates high and unexpected repair bills
One low monthly cost on your electric bill	Convenience and savings for you

For additional information, email us at
ODLCarolinas@duke-energy.com.

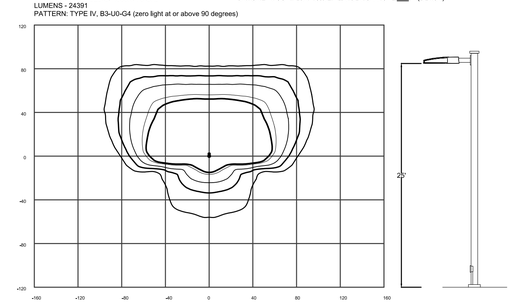
DUKE ENERGY. PROGRESS
BUILDING A SMARTER ENERGY FUTURE ®

©2022 Duke Energy Corporation 222208 OLP 5/22

ISOFOOTCANDLE CURVES

FIXTURE: LED 220W SHOEBOX
MOUNTING HEIGHT: 25 FT
LIGHT SOURCE: LED'S, 4000K, 70 CRI
LUMENS - 24391
PATTERN: TYPE IV, B3-U0-G4 (zero light at or above 90 degrees)

ASSY# LFIX-SBX-LED-205-BLK-IV-MULTIV-___-P (BLACK)
POLE ASSY# LPOLE-AB-STL-25FT-BLK-SQ-___-P (BLACK)
BRACKET ASSY# LBKT-SIDE-12IN-BLK-UNV-STL-___-P (BLACK)



LEGEND (OUTER to INNER): 0.10 , 0.25 , 0.50 , 1.00 , 1.25

LIGHTING DESIGN TOLERANCE

The calculated footcandle light levels in this lighting design are predicted values and are based on specific information that has been supplied to Duke Energy. Any inaccuracies in the supplied information, differences in luminaire installation, lighted area geometry including elevation differences, reflective properties of surrounding surfaces, obstructions (foliage or otherwise) in the lighted area, or lighting from sources other than listed in this design may produce different results from the predicted values. Normal tolerances of voltage, lamp output, and ballast and luminaire manufacture will also affect results.

PROPRIETARY & CONFIDENTIAL

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DUKE ENERGY® PROGRESS

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

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www.ncocc.org

Town of Clayton
Construction Drawing
Approved for Construction

Director/Assistant Director of Engineering:

Planning Director:

Official Document.

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 and belief, conforms to all laws, ordinances, policies and specifications that are applicable. Approval by the Town shall not relieve 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.

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

SEAL

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

REVISIONS	
1	12/13/2024 TOC COMMENTS #1

DATE: JULY 30, 2024
FILE NO.
HORZ. SCALE: 1" = 20'
ORIG. SHEET SIZE: 24 x 36

LONG TERM CARE - SPRINGBROOK CLAYTON
LIGHTING PLAN

Curry ENGINEERING
NC LIC. NO. P-0795
CURRY ENGINEERS PLLC
205 S. Fuquay Avenue
Fuquay-Varina, NC 27526
T (919) 552-0649
F (919) 552-2043

C-6.0

Z:\PROJECTS FOLDER\ZEBU ENG\2024\2024-071 LONG TERM CARE - SPRINGBROOK - CLAYTON\PLANS\SITE PLAN\SHEET FILES\C-6.0 LIGHTING PLAN.DWG
PLOTTED: 12/13/2024 9:54 AM