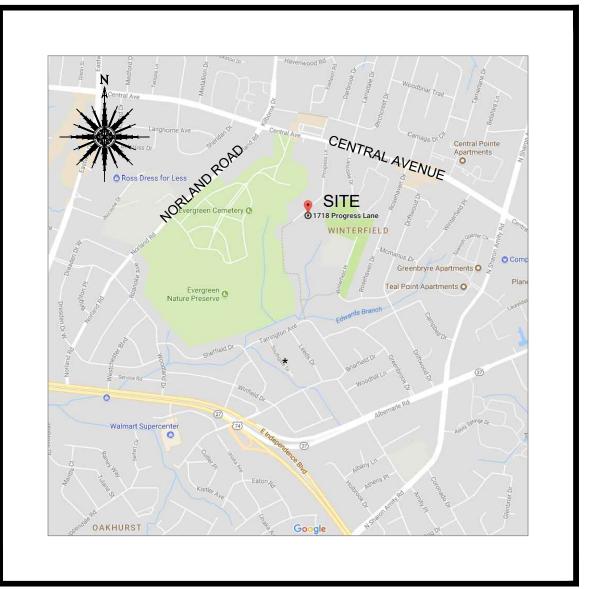


**CLT GIS PARCEL MAP** NOT TO SCALE



**VICINITY MAP** NOT TO SCALE

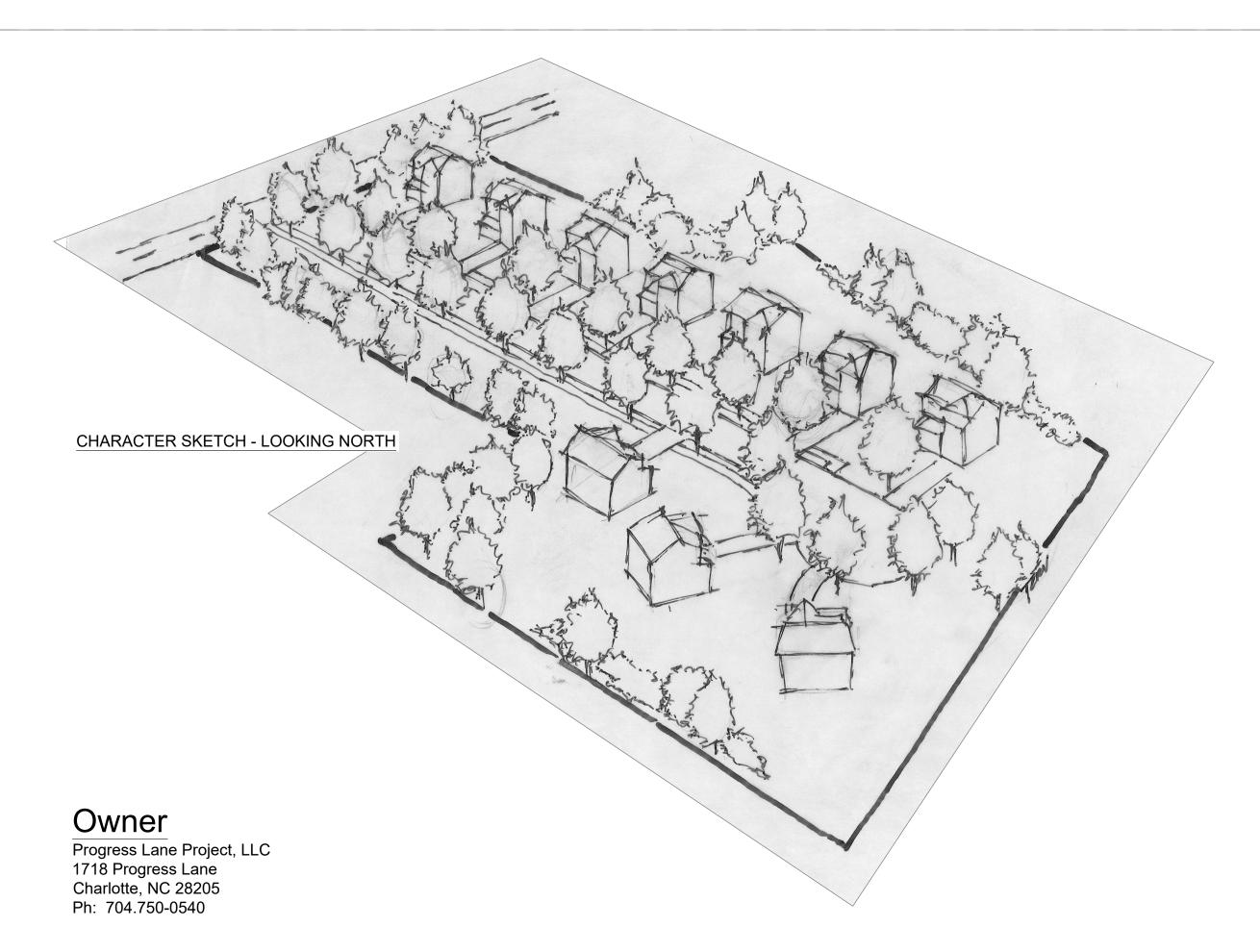


**AERIAL VIEW OF SITE** NOT TO SCALE

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# ROLSTON HERITAGE SUBDIVISION

# 1718 PROGRESS LANE - PID # 13103121 MECKLENBURG COUNTY CHARLOTTE, NC



Civil Engineer

CES Group Engineers, LLP Firm License #: F-1240 274 N. Hwy. 16, Suite 300 Denver, NC 28037 Ph: 704.489.1500

## Utilities

Water/Sewer: Charlotte Water

Electric: Duke

Phone / Cable / Etc...

Natural Gas: T.B.D.



## CES GROUP ENGINEERS, LLP

274 N. HWY. 16, SUITE 300 DENVER, NC 28037

NC FIRM LICENCE# F-1240

T 704. 489.1500 www.ces-group.net





**FINAL APPROVAL** 

PROJECT NUMBER

**APPROVED** 

## **ENGINEERING**

**EROSION CONTROL** 

## **URBAN FORESTRY**

**CDOT** 

**APPROVED** 

**APPROVED** 

**APPROVED** 

APPROVED FOR CONSTRUCTION CHARLOTTE-MECKLENBURG PLANNING DEPARTMENT By: Joshua Weaver 3-16-2018

## **DRAWING INDEX** TITLE / DATA SHEET # COVER SHEET LEGEND AND NOTES EXISTING CONDITIONS C 3.1 EROSION CONTROLS (PHASE 1) EROSION CONTROLS (PHASE 2) C 4 GRADING PLAN C 5.1 STORM PROFILES UTILITY PLAN SANITARY PROFILE ROADWAY PROFILES SIGHT VIEW PROFILES CONSTRUCTION DETAILS CONSTRUCTION DETAILS CONSTRUCTION DETAILS CONSTRUCTION DETAILS CONSTRUCTION DETAILS CONSTRUCTION DETAILS

.B	ANCHOR BOLT	EXIST	EXISTING	PERP	PERPINDICULAR
.BAN	ABANDON OR ABANDONED	EXP	EXPANSION JOINT	PI	POINT OF INTERSECTION
.BUT	ABUTMENT	EXT	EXTERIOR	PIV	POST INDICATOR VALVE
BVT	ABOVE	FR	FRAME	PL	PLATE PROPERTY LINE
CT	ACOUSTICAL	FD	FLOOR DRAIN	PLYWD	PLYWOOD
.DD	ADDITIONAL	FDN	FOUNDATION STATEMENT OF STATEME	POL	POINT ON LINE
DJ FF	ADJACENT ABOVE FINISH FLOOR	FES FF	FLARED END SECTION FINISH FLOOR	PP POT	POWER POLE POINT ON TANGENT
.GGR	AGGREGATE	FFE	FINISHED FLOOR ELEVATION	PRC	POINT OF REVERSE CURVE
LUM	ALUMINUM	FH	FIRE HYDRANT	PSI	POUNDS PER SQUARE INCH
LT	ALTERNATE	FIG	FIGURE	PT	POINT OF TANGENT
NC	ANCHOR BOLT	FIN	FINISH	PVI	POINT OF VERTICAL INTERSECTION
PPROX	APPROXIMATE	FIXT	FIXTURE	PVC	POLYVINYL CHLORIDE
RCH WWA	ARCHITECTURAL AMERICAN WATER WORKS	FL FLEX	FLOOR FLEXIBLE	PVMT PVT	PAVEMENT PRIVATE
· · · · · · · · · · · · · · · · · · ·	ASSOCIATION	FLG	FLANGE	1 • 1	TIME
VG	AVERAGE	FT	FOOT	R	RADIUS RISER
		FTG	FOOTING	RAS	RETURN ACTIVATED SLUDGE
IT	BITUMINOUS	FUT	FUTURE	RR	RAIL ROAD
J	BELL JOINT BASE LINE	CAL	GALLON	RCP RD	REINFORCED CONCRETE PIPE
L EG	BEGIN OR BEGINNING	GAL GALV	GALVINIZED	RDCR	ROOF DRAIN, ROAD REDUCER
LDG	BUILDING	GAR	GARAGE	RECPT	RECEPTACLE
LKG	BLOCKING	GND	GROUND	RECT	RECTANGULAR
М	BENCH MARK, BEAM	GR	GRAVEL	REINF	REINFORCE, REINFORCEMENT
OTT	BOTTOM	GOVT	GOVERNMENT	REF	REFERENCE
P RC	BYPASS BEARING	GPM CRIC	GALLONS PER MINUTE	REL	RELOCATED
RG MT	BEARING BASEMENT	GRTG GV	GRATING GATE VALVE	REQD REV	REQUIRED REVISION
V	BUTTERFLY VALVE	GW	GRAY WATER	RTE	ROUTE
		5		RTE	RIGHT
	CHANNEL, COLD	HDPE	HIGH DENSITY POLYETHYLENE PIPE	R/W	RIGHT-OF-WAY
•	CENTER TO CENTER	НВ	HOSE BIB		
AB	CABINET	HK	HOOK	S	SOUTH, SWITCH
AP F	CAPACITY CONSTRUCTION EASEMENT	HM HOR HORIZ	HOLLOW METAL	SAN SCH	SANITARY SCHEDULE
E F	CUBIC FEET	HOR,HORIZ HP	HORIZONTAL HORSE POWER	SCH SD	STORM DRAIN
G	CHANGE OF GRADE	HPT	HIGH POINT	SDE	STORM DRAIN EASEMENT
& G	CURB AND GUTTER	HYD	HYDRANT	SECT	SECTION
I	CAST IRON			SER	SERVICE
IRC	CIRCULAR	ID	INSIDE DIAMETER	SF	SILT FENCE
KT '	CIRCUIT CENTER LINE	IN INSUI	INCH	SH	SHEETING
L LR	CENTER LINE CLEAR	INSUL INV	INSULATION INVERT	SHTG SIM	SHEETING SIMILAR
LR ONST	CONSTRUCTION	INV	IRON PIN SET	SPEC	SPECIFICATION
OR	CORNER	0		SQ	SQUARE
MP	CORRUGATED METAL PIPE	JT	JOINT	SS	SANITARY SEWER
MU	CONCRETE MASONRY UNITS	JB	JUNCTION BOX	SSE	SANITARY SEWER EASEMENT
ND	CONDUIT			ST	STREET
O OMB	CLEAN OUT COMBINATION	L LAT	LENGTH, LONG LATERAL	STA STD	STATION STANDARD
ONC	CONCRETE		LINCOLN COUNTY UTILITY EASEMENT	STL	STEEL
ONN	CONNECT, CONNECTION	LF	LINEAL FOOT	STRUCT	STRUCTURAL
ONT	CONTINUOUS, CONTROL	LG	LONG	STY	STORY
ONTR	CONTRACTOR	LOD	LIMITS OF DISTURBANCE	SUR	SURVEY
ONV	CONVEYOR	LP	LIGHT POLE	SURF	SURFACE
P B STANE	COORDINATE POINT CRUSHED STONE	LR LT	LONG RADIUS LEFT	S/W SYMM	SIDEWALK SYMMETRICAL
TR	CENTER	LTG	LIGHTING	3 HVHVI	3 IMMETRICAL
ULV	CULVERT	210	LIGHTING	Т	TREAD, TOP
	CUBIC YARD	MACH	MACHINERY	Т & В	TOP AND BOTTOM
		MAS	MASONRY	TDC	TURNED DOWN CURB
	DEPTH OR DEGREE OF CURVE	MATL	MATERIAL	TELE	TELEPHONE
EPT -	DEPARTMENT	MAX	MAXIMUM	TEMP	TEMPORARY
F I	DRINKING FOUNTAIN DROP INLET, DUCTILE IRON	MECH MFR	MECHANICAL MANUFACTURER	THK TP	THICK TRAVERSE POINT
I IA	DIAMETER	MFR MH	MANHOLE, MOUNTING HEIGHT	TRTD	TREATED
IM	DIMENSION	MIN	MINIMUM	TS	TOP OF SLAB
P	DUCTILE IRON PIPE	MISC	MISCELLANEOUS	TV	TELEVISION
ISC	DISCONNECT	MJ	MECHANICAL JOINT	TW	TOP OF WALL
MH	DROP MANHOLE	MO	MASONRY OPENING	TYP	TYPICAL
N R	DOWN DRIVE	MON MTD	MONUMENT MOUNTED	110	LINDERCROUND
R S	DRIVE DOWN SPOUT	MTD MTL	MOUNTED METAL	UG UON	UNDERGROUND UNLESS OTHERWISE NOTED
J TL	DETAIL	MV	MUD VALVE		SUNITED STATES COAST AND
W,D/W	DRIVEWAY				GEODETIC SURVEY
WL	DWELLING	N & C	NAIL AND CAP		
WG	DRAWING	NIC	NOT IN CONTRACT	V, VAL	
	EAST	NO	NUMBER		VAPOR BARRIER
	EACH	NTS	NOT TO SCALE	VC VERT	VERTICAL CURVE
A	EASTBOUND LANE	NCDOT	NORTH CAROLINA DEPT.  OF TRANSPORTATION	VERT VOL	VERTICAL CURVE VOLUME
A BL		OC	ON CENTERS	VOL V.S.D.	VERTICAL SIGHT DISTANCE
A BL <del>-</del>	EACH FACE	, n.		٧.٥.٠.	LINES SIGHT DIGITARDE
A BL F J	EXPANSION JOINT	OD	OUTSIDE DIAMETER		
A BL F J L,ELEV	EXPANSION JOINT ELEVATION		OUTSIDE DIAMETER OPERATOR	W.B.L.	WEST BOUND LANE
A BL F J L,ELEV LEC	EXPANSION JOINT ELEVATION ELECTRICAL	OD OPER OPNG	OPERATOR OPENING	W.B.L.	WIDE FLANGE, WIDE
A BL F J L,ELEV LEC NGR	EXPANSION JOINT ELEVATION	OD OPER OPNG OPP	OPERATOR OPENING OPPOSITE	W.B.L. W/	WIDE FLANGE, WIDE WITH
A BL F J L,ELEV LEC NGR NTR	EXPANSION JOINT ELEVATION ELECTRICAL ENGINEER	OD OPER OPNG	OPERATOR OPENING	W.B.L. W/ WD	WIDE FLANGE, WIDE WITH WOOD
A BL - J _,ELEV _EC NGR NTR	EXPANSION JOINT ELEVATION ELECTRICAL ENGINEER ENTRANCE	OD OPER OPNG OPP OU	OPERATOR OPENING OPPOSITE OVERHEAD UTILITIES	W.B.L. W/ WD WE	WIDE FLANGE, WIDE WITH WOOD WATER EASEMENT
A BL - J -,ELEV LEC NGR NTR DL -	EXPANSION JOINT ELEVATION ELECTRICAL ENGINEER ENTRANCE END OFLINE EDGE OFPAVEMENT EQUAL	OD OPER OPNG OPP OU PC	OPERATOR OPENING OPPOSITE OVERHEAD UTILITIES  POINT OF CURVE	W.B.L. W/ WD WE WL	WIDE FLANGE, WIDE WITH WOOD WATER EASEMENT WATER LINE
A BL F J L,ELEV LEC NGR NTR OL P Q SMH	EXPANSION JOINT ELEVATION ELECTRICAL ENGINEER ENTRANCE END OFLINE EDGE OFPAVEMENT EQUAL EXIST.SANITARY SEWER MH	OD OPER OPNG OPP OU PC PCC	OPERATOR OPENING OPPOSITE OVERHEAD UTILITIES  POINT OF CURVE POINT OF COMPOUND	W.B.L. W/ WD WE WL W/O	WIDE FLANGE, WIDE WITH WOOD WATER EASEMENT WATER LINE WITHOUT
A BL F J L,ELEV	EXPANSION JOINT ELEVATION ELECTRICAL ENGINEER ENTRANCE END OFLINE EDGE OFPAVEMENT EQUAL	OD OPER OPNG OPP OU PC	OPERATOR OPENING OPPOSITE OVERHEAD UTILITIES  POINT OF CURVE	W.B.L. W/ WD WE WL	WIDE FLANGE, WIDE WITH WOOD WATER EASEMENT WATER LINE

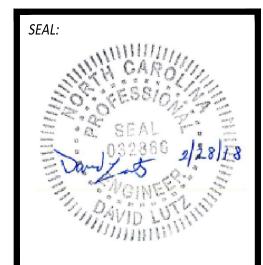
EXISTING	NEW	DESCRIPTION
	Ris. San Bis med	BUILDING WITH PORCH OR STOOP
		FOUNDATION ONLY
2116	2116	CONTOUR, CONTOUR WITH ELEVATION
+ 2116 OR x210	<u> </u>	SPOT ELEVATION
		CONCRETE CURB
		CONCRETE CURB & GUTTER
	4.4	CONCRETE SIDEWALK
		PAVEMENT
		UNPAVED OR GRAVEL ROAD
		TREE LINE
		SILT FENCE
^ ^	SF	DITCH
		PROPERTY LINE
		CENTERLINE OR BASELINE
— C —— B—		LIMITS OF DISTURBANCE
<b>A</b>		BENCHMARK
		STORM DRAIN AND ENDWALL
SS	ss	GRAVITY SANITARY SEWER
	55	FORCE MAIN - PROFILE
— —FM——		FORCE MAIN - PLAN
G	G	GAS MAIN OR SERVICE LINE
	w	WATER MAIN OR SERVICE LINE
OHE	——————————————————————————————————————	OVERHEAD ELECTRICAL LINE
——UE——	———UE———	UNDERGROUND ELECTRICAL LINE
		PIPE FITTINGS
FH T	TH T	PIPE FITTINGS
		FIRE HYDRANT
	<b>─</b> OR─ <b>─</b>	GATE VALVE
o <sup>CO</sup>	co	CLEAN OUT
	<u> </u>	MANHOLE
<b>—</b> •		BLOW OFF
		DROP INLET (CURB AND GRATING TYPE
GM ○ WM	- <b>[</b> GM]	G.M GAS METER. W.M WATER ME
— т —	— т —	TELEPHONE LINE
— —UT— —	— —UT— —	UNDERGROUND TELEPHONE LINE
	<del></del>	TELEPHONE POLE GUY AND ANCHOR
		POWER POLE GUY AND ANCHOR
	<b>)</b> (i)	LIGHT POLE
	T	TELEPHONE PEDESTAL
		BURIED TELEPHONE VAULT
TV	TV	CABLE TV
<u> </u>	<u> </u>	
	<b>*</b>	ELECTRIC LIGHT
		PROPERTY MARKER
•	•	MAILBOX
(G)	(G)	NATURAL GAS MARKER
(G)	—//—//	ABANDON OR REMOVE
		PAVED DITCH
		DRIVEWAY CULVERT
OR		CULVERT WITH FLARED END SECTION
		CULVERT WITH OUTLET PROTECTION AN LEVEL SPREADER
₩V	•	WATER VALVE
$\bowtie$	$\triangle$	CONTROL POINT/TRAVERSE POINT
		COORDINATE POINT
	⊙ CP #101 ——— OR +	COORDINATE POINT SIGN
₩ CP #101	⊙ CP #101	
₩ CP #101	⊙ CP #101	SIGN

ERAL NOTES

1. COORDINATE ALL CURB AND STREET GRADES IN INTERSECTION WITH INSPECTOR.

- 2. ALL ROAD IMPROVEMENTS AT PROGRESS LANE ARE TO BE COORDINATED WITH THE CITY OF CHARLOTTE ENGINEERING DEPARTMENT PRIOR TO CONSTRUCTION.
- 3. DEVELOPER WILL PROVIDE STREET SIGNS PER CLDSM# 50.05 (9" SIGNS ONLY).
- 4. SIGHT TRIANGLES SHOWN ARE THE MINIMUM REQUIRED.
- 5. DIRECT VEHICULAR ACCESS TO PROGRESS LANE FROM LOT 1 IS PROHIBITED.
- 6. IN ROLLING AND HILLY TERRAINS, SWEEPING OF THE STONE BASE AND/OR APPLICATION OF A TACK COAT MAY BE REQUIRED NEAR INTERSECTIONS. THESE REQUIREMENTS WILL BE ESTABLISHED BY THE INSPECTOR AND BASED ON FIELD CONDITIONS.
- 7. APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS.
- 8. IN ORDER TO ENSURE PROPER DRAINAGE, KEEP A MINIMUM OF 0.5% SLOPE ON THE CURB.
- 9. SUBSURFACE DRAINAGE FACILITIES MAY BE REQUIRED IN THE STREET RIGHT-OF-WAY IF DEEMED NECESSARY BY THE INSPECTOR.
- 10. CURB AND GUTTER SHOWN ON PLANS ALONG ROLSTON PLACE MAY BE ADJUSTED BASED UPON FIELD STAKING BY CITY ENGINEERING. ASSOCIATED STORM DRAINAGE MAY ALSO REQUIRE MODIFICATION BASED UPON FIELD CONDITIONS.
- 11. THE PURPOSE OF THE STORM DRAINAGE EASEMENT (SDE) IS TO PROVIDE STORM WATER CONVEYANCE. BUILDINGS ARE NOT PERMITTED IN THE EASEMENT AREA. ANY OTHER OBJECTS WHICH IMPEDE STORM WATER FLOW OR SYSTEM MAINTENANCE ARE ALSO PROHIBITED.
- 12. HIGH-DENSITY POLYETHYLENE (HDPE) STORM DRAINAGE PIPE INSTALLED WITHIN EXISTING OR PROPOSED PUBLIC STREET RIGHT-OF-WAY MUST BE APPROVED BY THE CITY'S INSPECTOR PRIOR TO ANY BACKFILL BEING PLACED. BACKFILL MATERIAL MUST BE APPROVED BY THE CITY INSPECTOR PRIOR TO PLACEMENT OF THE MATERIAL WITHIN THE PUBLIC STREET RIGHT-OF-WAY.
- 13. THE DEVELOPER SHALL MAINTAIN EACH STREAM, CREEK, OR BACKWASH CHANNEL IN AN UNOBSTRUCTED STATE AND SHALL REMOVE FROM THE CHANNEL AND BANKS OF THE STREAM ALL DEBRIS, LOGS, TIMBER, JUNK AND OTHER ACCUMULATIONS.
- 14. ANY BUILDING WITHIN THE 100+1 STORMWATER ELEVATION LINE IS SUBJECT TO THE RESTRICTIONS OF THE (CITY OF CHARLOTTE/MECKLENBURG COUNTY) SUBDIVISION ORDINANCE, SECTION 7.200.8.
- 15. ANY CONSTRUCTION OR USE WITHIN THE FUTURE CONDITIONS FLOOD FRINGE LINE IS SUBJECT TO THE RESTRICTIONS IMPOSED BY THE FLOODWAY REGULATIONS OF THE CITY OF CHARLOTTE AND MECKLENBURG COUNTY.
- 16. ALL OPENINGS (E.G., DOORS, WINDOWS, VENTS) IN STRUCTURES BUILT ON LOT #'S SHOULD BE LOCATED A MINIMUM OF ONE FOOT ABOVE THE ADJACENT FINISHED GROUND
- SURFACE (APPLIES TO LOTS WHICH MAY EXPERIENCE SIGNIFICANT OVERLAND FLOW NOT CONSIDERED IN THE 100+1 FLOOD ANALYSIS.)

  17. PE SEALED SHOP DRAWINGS FOR RETAINING WALL MUST BE SUBMITTED TO CITY ENGINEER PRIOR TO CONSTRUCTION.
- 18. "AS-BUILT" DRAWINGS AND PLANS OF THE STORM DRAINAGE SYSTEM, INCLUDING DESIGNED DITCHES, MUST BE SUBMITTED PRIOR TO SUBDIVISION FINAL INSPECTION TO THE CITY/COUNTY ENGINEERING DEPARTMENT IN ACCORDANCE WITH THE CITY/COUNTYSUBDIVISION ORDINANCE.
- 19. PRIOR TO INSTALLATION, PE SEALED SHOP DRAWINGS FOR UNDERGROUND DETENTION SYSTEMS MUST BE FURNISHED TO CITY OF CHARLOTTE ENGINEERING FOR APPROVAL.
- 20. PRIOR TO CO, SURVEYOR SEALED AS-BUILT DRAWINGS OF ALL WATER QUALITY BMP'S AND DETENTION SYSTEMS MUST BE PROVIDED.
- 21. PRIOR TO PLAT RECORDATION, OFFSITE R/W AND/OR CONSTRUCTION EASEMENTS ARE REQUIRED TO BE OBTAINED ACCORDING TO THE GUIDELINES
  OF THE "OFFSITE R/W ACQUISITION PROCESS". THESE NEEDED R/W AND CONSTRUCTION LIMITS ARE CLEARLY SHOWN ON THE ROADWAY
  IMPROVEMENT PLAN.
- 22. PER SECTION 18—175(E) OF CITY CODE AND SECTION 10.0 OF THE CITY'S POST CONSTRUCTION CONTROLS ADMINISTRATIVE MANUAL, ALL
  REQUIRED NATURAL AREAS AND/OR POST CONSTRUCTION CONTROLS EASEMENTS (PCCES) MUST BE RECORDED PRIOR TO THE ISSUANCE OF THE
  CERTIFICATE OF OCCUPANCY.
- 23. THE DEVELOPER SHALL CONTACT THE CHARLOTTE DEPARTMENT OF TRANSPORTATION (GUS JORDI, 704–336–7086) TO IDENTIFY ANY CONFLICTS WITH TRAFFIC SIGNALIZATION EQUIPMENT. 60– 90 DAYS WILL BE REQUIRED TO COORDINATE RELOCATION. DEVELOPER SHALL BE RESPONSIBLE FOR ALL RELATED RELOCATION COST AND/OR ANY REPAIR COST CAUSED BY THE CONTRACTOR/DEVELOPER.
- 24. CERTIFICATION AND STREET CUT PERMITS ARE REQUIRED FOR UTILITY CUTS ON CITY STREETS. ALLOW 7 DAYS PROCESSING FOR PERMIT. FOR INFORMATION CONTACT CHARLOTTE DEPARTMENT OF TRANSPORTATION (704-336-4025) OR VISIT HTTP://WWW.CHARMECK.ORG/DEPARTMENTS/TRANSPORTATION/STREET+MAINTENANCE/HOME.HTM
- 25. NON-STANDARD ITEMS (IE: PAVERS, IRRIGATION SYSTEMS, ETC.) IN THE RIGHT-OF-WAY REQUIRE A RIGHT-OF-WAY ENCROACHMENT AGREEMENT WITH THE CHARLOTTE DEPARTMENT OF TRANSPORTATION/NORTH CAROLINA DEPARTMENT OF TRANSPORTATION BEFORE INSTALLATION. FOR CITY OF CHARLOTTE MAINTAINED STREETS, CONTACT CDOT AT (704) 336-3888.
- 26. SIDEWALK WITHIN THE CITY'S R/W THAT REQUIRES REPLACEMENT AS PART OF THE DEVELOPMENT AND/OR STREET IMPROVEMENTS SHOULD BE PHASED IN SUCH A WAY AS TO MINIMIZE THE DURATION OF THE SIDEWALK CLOSURE TO THE EXTENT FEASIBLE. THE DEVELOPER SHOULD MAKE EVERY ATTEMPT TO HAVE SIDEWALK REPAIRED AND REOPENED FOR PUBLIC USE WITHIN 30 DAYS OF REMOVAL.
- 27. RIGHT-OF-WAY CLOSURES LONGER THAN 30 DAYS REQUIRE A R/W LEASE AGREEMENT WHICH WILL INCLUDE THE SUBMITTAL OF A TRAFFIC CONTROL PLAN. TRAFFIC CONTROL PLANS REQUIRED THROUGH A LEASE AGREEMENT MAY BE DIFFERENT FROM THE ONE REQUIRED DURING THE LAND DEVELOPMENT PLAN REVIEW AND ARE SUBJECT TO REVISIONS. THE REVISED TRAFFIC CONTROL PLANS MUST BE SUBMITTED AS PART OF THE LEASE AGREEMENT PROCESS FOR APPROVAL PRIOR TO START OF R/W CLOSURES. CONTRACTOR SHALL CONTACT CDOT AT (704) 336-8348
- 28. CONSTRUCTION STAGING WITHIN CITY R/W LASTING MORE THAN 30 DAYS REQUIRES A R/W LEASE AGREEMENT. CONTRACTOR SHALL CONTACT CDOT AT (704) 336-8348.
- 29. ANY WORK WITHIN THE CITY'S R/W THAT REQUIRES CLOSURE OF A SIDEWALK OR TRAVEL LANE MUST BE APPROVED BY CDOT AND WILL REQUIRE A R/W USE PERMIT OR R/W LEASE DEPENDING UPON THE PROPOSED DURATION OF CLOSURE. THESE APPROVALS ARE IN ADDITION TO SITE APPROVALS AND SHOULD BE COORDINATED WITH CDOT PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONTACT CDOT AT (704) 432-1562 AT LEAST 5 BUSINESS DAYS PRIOR TO BEGINNING WORK FOR IMPACTS LESS THAN 30 DAYS. CONTRACTOR SHALL CONTACT CDOT AT (704) 336-8348 AS SOON AS POSSIBLE FOR IMPACTS GREATER THAN 30 DAYS. EVERY EFFORT SHALL BE MADE TO CONSTRUCT IMPROVEMENTS WITH MINIMAL IMPACT TO DRIVERS AND PEDESTRIANS.
- 30. DEVELOPER TO CONTACT CDOT (ANTHONY MENDEZ: 704—336—4971) DURING SITE PLAN PREPARATION TO DISCUSS STREET LIGHTING REQUIREMENTS, IF ANY, FOR THIS PROJECT. COORDINATE WITH DUKE ENERGY AND CDOT AS NECESSARY TO DETERMINE LIGHTING LEVELS, LIGHTING LAYOUT AND REQUIREMENTS FOR INSTALLATION.



REVIS NO:	ISSUE:	DATE:
1	ADDRESS CITY COMMENTS	1/29/18
2	ADDRESS CITY COMMENTS	2/28/18



ROLSTON HERITAGE
SUBDIVISION
1718 PROGRESS LANE - PID # 13103
MECKLENBURG COUNTY

SMC
CHECKED BY:
DSL
PROJECT NO:
6923
COMMENTS:
DATE ADDROL/50
DATE APPROVED:
SCALE:
1" = 40'
DRAWING TITLE:

LEGEND

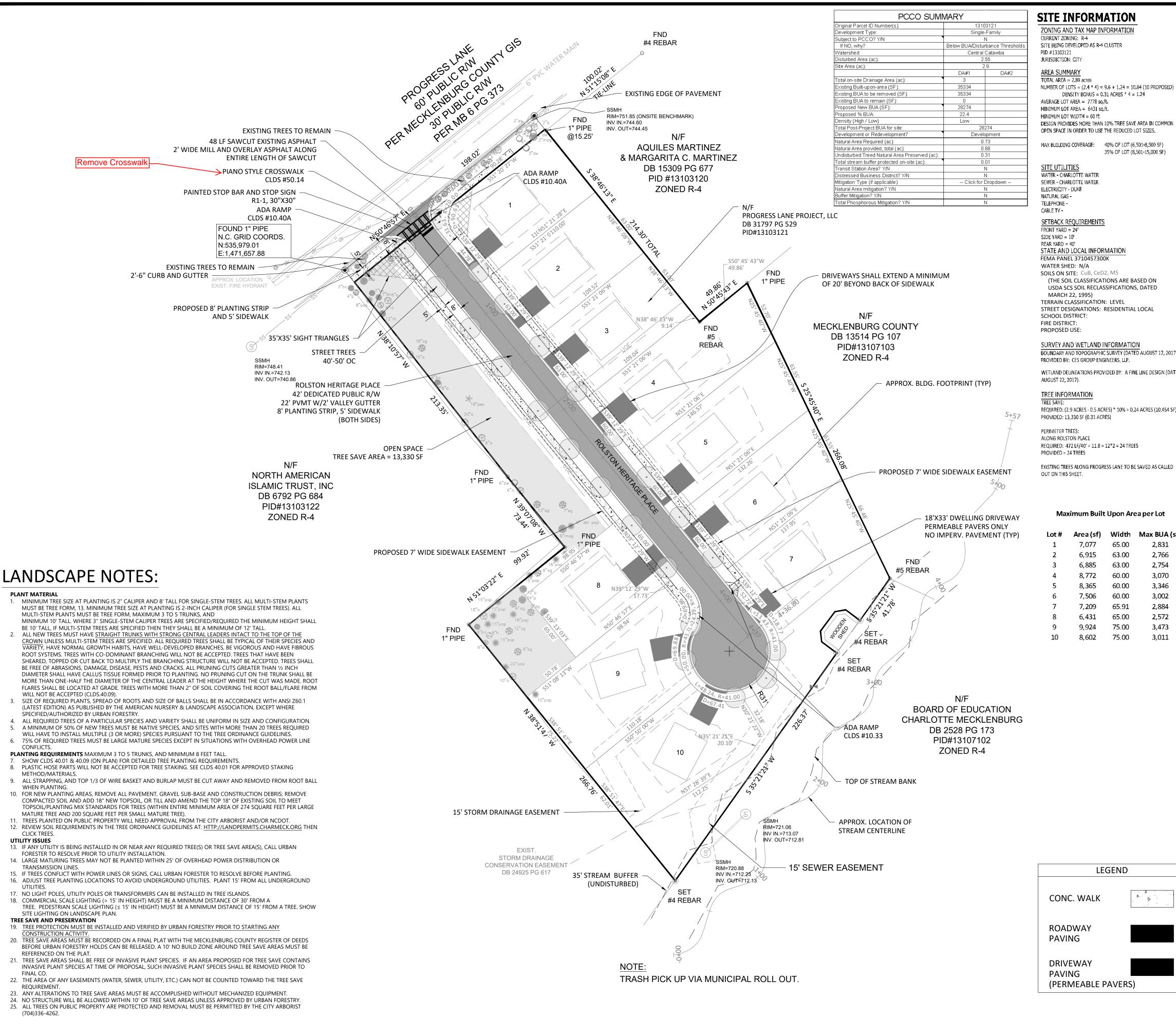
NOTES

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NORTH CAROLINA
ONE-CALL CENTER INC.

DIAL 811 or 1-800-632-4949

2 BUSINESS DAYS BEFORE DIGGING www.ncocc.org



## **SITE INFORMATION**

ZONING AND TAX MAP INFORMATION CURRENT ZONING: R-4 SITE BEING DEVELOPED AS R-4 CLUSTER PID #13103121

TOTAL AREA = 2.89 acres NUMBER OF LOTS = (2.4 \* 4) = 9.6 + 1.24 = 10.84 (10 PROPOSED)DENSITY BONUS = 0.31 ACRES \* 4 = 1.24 AVERAGE LOT AREA = 7778 sq.ft. MINIMUM LOT AREA = 6431 sq.ft.

MINIMUM LOT WIDTH = 60 ft DESIGN PROVIDES MORE THAN 10% TREE SAVE AREA IN COMMON

MAX BUILDING COVERAGE: 40% OF LOT (6,501-8,500 SF) 35% OF LOT (8,501-15,000 SF)

## SITE UTILITIES WATER - CHARLOTTE WATER SEWER - CHARLOTTE WATER

ELECTRICITY - DUKE NATURAL GAS -TELEPHONE -

SIDE YARD = 10 REAR YARD = 40' STATE AND LOCAL INFORMATION FEMA PANEL 3710457300K WATER SHED: N/A

USDA SCS SOIL RECLASSIFICATIONS, DATED MARCH 22, 1995) TERRAIN CLASSIFICATION: LEVEL STREET DESIGNATIONS: RESIDENTIAL LOCAL SCHOOL DISTRICT:

### SURVEY AND WETLAND INFORMATION BOUNDARY AND TOPOGRAPHIC SURVEY (DATED AUGUST 17, 2017)

WETLAND DELINEATIONS PROVIDED BY: A FINE LINE DESIGN (DATED

### TREE INFORMATION

REQUIRED: (2.9 ACRES - 0.5 ACRES) \* 10% = 0.24 ACRES (10,454 SF) PROVIDED: 13,330 SF (0.31 ACRES)

PERIMETER TREES: ALONG ROLSTON PLACE REQUIRED: 472 LF/40' = 11.8 ≈ 12\*2 = 24 TREES

PROVIDED = 24 TREES

		•	•
t#	Area (sf)	Width	Max BUA (sf)
1	7,077	65.00	2,831
2	6,915	63.00	2,766
3	6,885	63.00	2,754
4	8,772	60.00	3,070
5	8,365	60.00	3,346
6	7,506	60.00	3,002
7	7,209	65.91	2,884
8	6,431	65.00	2,572
9	9,924	75.00	3,473
LO	8,602	75.00	3,011

### **PROGRESS LANE AREA CALCULATIONS** IMPERV. AREA SF OVERALL SITE 126,455 2.90 TOTAL SF ROADWAY (INC C&G) 462 12,012 3,850 SIDEWALK (2) SIDES 2@5 385 TOTAL 15,862 **TOTAL SF** LOT. TYP. RESIDENCE 1,100 DRIVEWAY 2 CAR - 10 33 1,412 #OF LOTS 10 TOTAL 12,412 0.28 SF AC TOTAL IMPERV. AREA 28,274 0.65

OPEN SPACE		
OVERALL SITE	SF	AC
OVERALL SITE	126,455	2.90
ROW	21,942	0.50
LOTS (AVG. 7778 SF)	77,686	1.78
TOTAL LOT COVERAGE	SF	AC
TOTAL LOT COVERAGE	26,827	0.62
% OF SITE	21.2	1%

22.36%

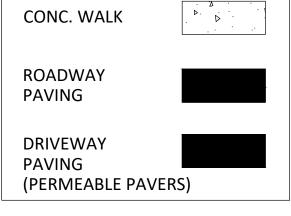
NOTE: DRIVEWAYS WILL ALL BE CONSTRUCTED WITH PERMEABLE PAVEMENT AND QUALIFY FOR BUILT UPON AREA (BUA) CREDIT OF 75% PERVIOUS AND 25% BUA. IMPERVIOUS AREA IN ABOVE TABLE REFLECTS 25% OF THE ACTUAL AREA OF THE DRIVEWAYS. SEE PERMEABLE PAVEMENT CALCULATIONS AND INFILTRATION TEST RESULTS ON SHEET C5.

% OF SITE

- DIMENSIONS AND COORDINATE POINTS ARE TO THE FACE OF CURB, EDGE OF PAVEMENT, OR CORNER OF BUILDING UNLESS OTHERWISE NOTED.
- 2. ALL IMPROVEMENTS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH STATE AND LOCAL STANDARDS.
- ANY DISCREPANCIES FOUND IN THE FIELD SHALL BE CALLED TO THE ATTENTION OF THE OWNER OR ENGINEER PRIOR TO PROCEEDING WITH WORK.
- PRIOR TO BEGINNING CONSTRUCTION, THE GENERAL CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND APPROVALS FROM ALL REGULATORY AUTHORITIES.
- THE GENERAL CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES AND RIGHT-OF-WAYS, PUBLIC AND PRIVATE, PRIOR TO WORKING IN THESE AREAS.
- GENERAL CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMAN AND THE PUBLIC SHALL BE PROTECTED FROM INJURY.
- DO NOT SCALE DRAWINGS FOR ACTUAL DIMENSIONS, AS IT IS A REPRODUCTION AND SUBJECT TO DISTORTION.
- 8. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST
- 9. CONTRACTOR SHALL SAW-CUT EXISTING ASPHALT/CONCRETE AS NECESSARY TO TIE IN SMOOTHLY TO EXISTING.
- 10. THE ENGINEER WILL PROVIDE THE CONTRACTOR WITH AN ELECTRONIC FILE OF THESE DRAWINGS UPON REQUEST.
- 11. CONTRACTOR SHALL COORDINATE RELOCATION/REMOVAL OF EXISTING UTILITIES WITH THE UTILITY OWNER AS APPLICABLE.
- 12. STOP BEFORE YOU DIG. CALL NC ONE-CALL CENTER AT 1-800-632-4949, IT'S THE LAW.
- 13. ESTIMATED CONSTRUCTION TIMEFRAME IS 2018.

## **CONTRACTOR NOTES:**

- 1. CONTRACTOR IS FULLY RESPONSIBLE FOR CONTACTING APPROPRIATE PARTIES AND ENSURING THAT EXISTING UTILITIES ARE LOCATED PRIOR TO BEGINNING CONSTRUCTION
- 2. CONTRACTOR IS RESPONSIBLE FOR PLACING BARRICADES / FENCING AS NECESSARY TO ENSURE SAFETY TO THE PUBLIC



LEGEND



SCALE: 1" = 40'



DIAL 811 or 1-800-632-4949

www.ncocc.org

2 BUSINESS DAYS BEFORE DIGGING

REVIS	IONS	
NO:	ISSUE:	DATE:
1 2	ADDRESS CITY COMMENTS ADDRESS CITY COMMENTS	1/29/18 2/28/18



CHECKED BY. PROJECT NO: COMMENTS: DATE APPROVED: 1" = 40' DRAWING TITLE:

DRAWING NUMBER:

PLANTING SCHEDULE TEM QTY SCIENTIFIC NAME COMMON NAME SPACING SIZE AB 23 Acer Barbatum 2" CAL MIN. | 40-50 FT OC | STREET TREE, ADJUST SPACING FOR DRIVEWAYS, UTILITIES, ETC. Copyright 2018 CES Group Engineers, LLP

26. CALL FOR AN INSPECTION OF TREE PROTECTION/PLANTING AREAS, A MINIMUM OF 5 DAYS BEFORE A CO IS NEEDED. 27. VISIT CITY OF CHARLOTTE'S LAND DEVELOPMENT WEBSITE FOR ADDITIONAL INFORMATION AND URBAN FORESTRY

REQUIREMENTS: HTTP://LANDPERMITS.CHARMECK.ORG THEN CLICK TREES.