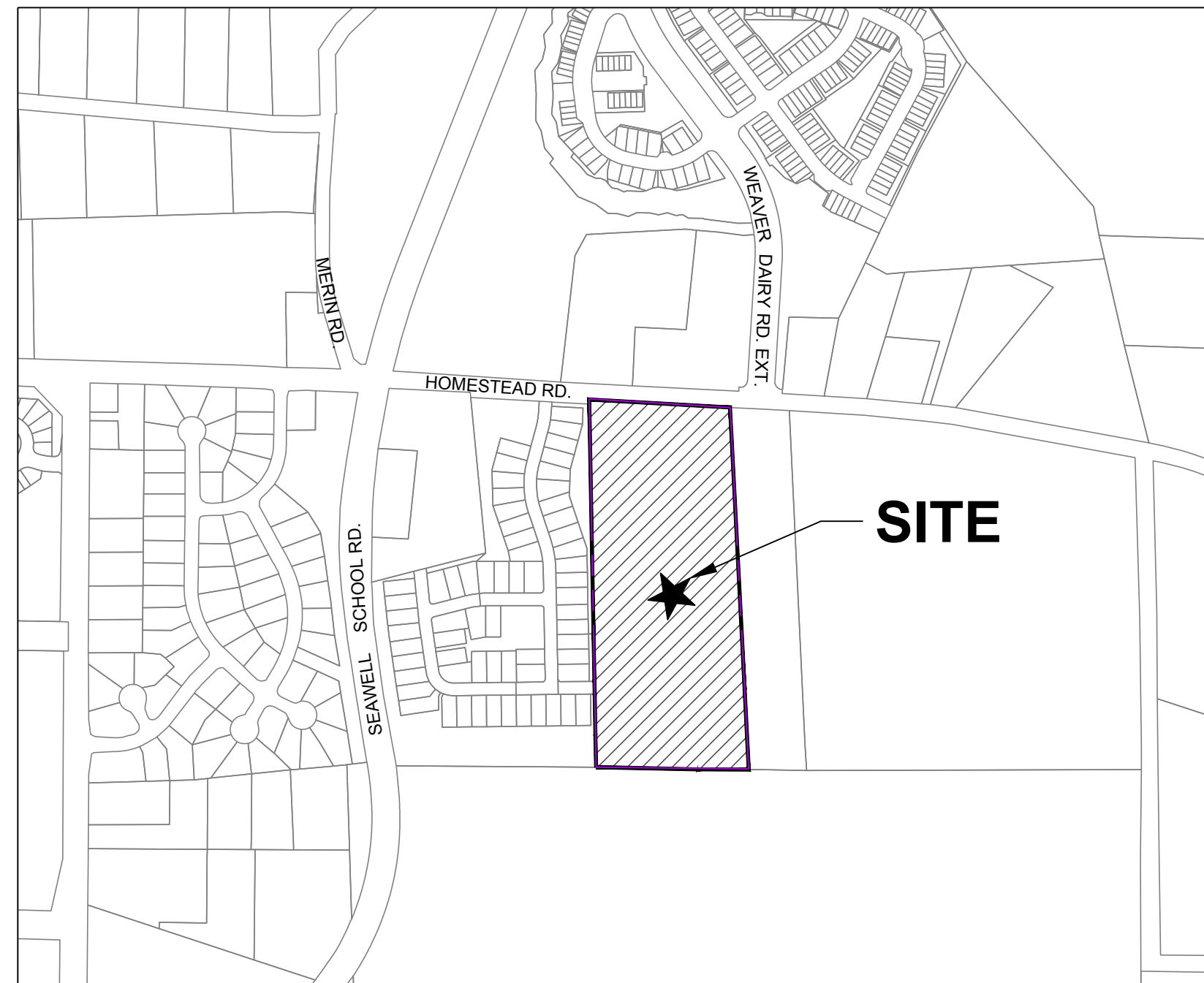


# INDEPENDENT SENIOR HOUSING CHAPEL HILL

217 HOMESTEAD ROAD  
CHAPEL HILL, NC 27516

TOWN OF CHAPEL HILL  
SPECIAL USE PERMIT SUBMITTAL

SUBMITTED ON SEPTEMBER 27, 2017  
RESUBMITTED ON JANUARY 16, 2018  
RESUBMITTED ON APRIL 24, 2018



VICINITY MAP  
SCALE: 1" = 500'



UTILITIES IMPROVEMENTS QTY	
PRIVATE SEWER	
2" SEWER SERVICE	605 LF
PRIVATE WATER	
2" WATER MAIN	LF

SITE DATA	
PROJECT NAME:	INDEPENDENT SENIOR HOUSING CHAPEL HILL
SITE ADDRESS:	2217 HOMESTEAD ROAD CHAPEL HILL NC 27516
COUNTY:	ORANGE COUNTY
PARCEL PIN #:	9870907548
PARCEL OWNER:	WILLIAM BAINSTER WOOD & VIRGINIA WOOD
PARCEL AREA:	15.73 ACRES
TOTAL DISTURBED/ PROJECT AREA:	387,684 SQUARE FEET (8.90 ACRES)
CURRENT ZONING:	R2
EXISTING LAND USE:	RESIDENTIAL
PROPOSED USE:	AGE RESTRICTED RENTAL APARTMENTS
FLOODPLAIN:	NONE
JORDAN RIPARIAN BUFFER ZONE:	NO
WETLANDS:	NONE
WATER SHED:	JORDAN LAKE
RIVER BASIN:	CAPE FEAR RIVER BASIN
STREAMS:	NONE
CONSTRUCTION TYPE:	NEW CONSTRUCTION
MIN. REQUIRED STREET SETBACK	20
MIN. REQUIRED INTERIOR SET BACK (NEIGHBORING PROPERTY LINE)	6
MIN. REQUIRED SOLAR SETBACK (NORTHERN PROPERTY LINE)	8
MAX BUILDING HEIGHT:	---
PROPOSED BUILDING HEIGHT:	---
EXISTING IMPERVIOUS AREA:	13,140 S.F.
PROPOSED IMPERVIOUS AREA:	194,940 S.F.

OVERALL PARKING SUMMARY					
PROVIDED PARKING	SOUTH	NORTH	EAST	WEST	TOTAL
REGULAR 9'X20' SPACES	23	28	88	88	227
REGULAR ADA ACCESSIBLE SPACES	-	3	2	3	9
TOTAL VEHICULAR PARKING SPACES	23	31	90	91	235
BIKE PARKING	-	-	20	18	38
PARKING RATIO (1 BEDROOM): MULTI - FAMILY (PER LUMO 5.9.7) = 1 SPACES PER DWELLING UNTIL (MIN) / 1.25 SPACES PER DWELLING UNIT (MAX) - BEDROOM (109 BEDROOMS)					
PARKING RATIO (2 BEDROOM): MULTI - FAMILY (PER LUMO 5.9.7) = 1.4 SPACES PER DWELLING UNTIL (MIN) / 1.75 SPACES PER DWELLING UNIT (MAX) - BEDROOM (81 BEDROOMS)					
MIN REQUIRED (TOTAL) = 109 + 114 = 223 SPACES      MAX REQUIRED (TOTAL) = 137 + 142 = 279 SPACES					

SHEET INDEX	
SHEET #	SHEET NAME
C0.00	COVER SHEET
C1.00	EXISTING CONDITIONS PLAN
C1.01	AREA MAP
C2.00	DEMOLITIONS PLAN
C3.00	SITE PLAN
C3.01	SITE PLAN ENLARGEMENT (NORTH)
C3.02	SITE PLAN ENLARGEMENT (SOUTH)
C3.03	FUTURE RECREATIONAL PLAN
C3.40	CONSTRUCTION MANAGEMENT PLAN
C4.00	EROSION CONTROL NOTES
C4.01	EROSION CONTROL PLAN (PHASE I)
C4.02	EROSION CONTROL PLAN (PHASE II)
C4.03	EROSION CONTROL PLAN (PHASE III)
C5.00	GRADING PLAN
C5.20	STORMWATER MANAGEMENT PLAN (SCM-01)
C6.00	UTILITIES PLAN
C9.00	SITE DETAILS
C9.01	SITE DETAILS
C9.10	EROSION CONTROL DETAILS
L1.00	LANDSCAPE PROTECTION PLAN
L1.01	LANDSCAPE PROTECTION PLAN
L1.10	PLANTING PLAN
L1.11	PLANTING PLAN SCHEDULE
L1.20	STEEP SLOPE PLAN
L2.00	LANDSCAPE DETAILS
L2.01	LANDSCAPE DETAILS
L2.02	LANDSCAPE DETAILS

APARTMENT UNIT BREAKDOWN									
NAME	UNIT	LEVELS				TOTAL	%		
		1	2	3	4				
A1	1 BD	598	598	8	10	14	14	46	109
A2	1 BD	680	729	8	9	9	9	35	57.37%
A3	1 BD	836	893	7	7	7	7	28	
B1	2BD	1042	1102	8	9	11	11	39	81
B2a	2 BD	1250	1322	5	6	8	8	27	
B4	2 BD+ST	1373	1566	3	4	4	4	15	42.63%
<b>TOTAL</b>				39	45	53	53	190	100.00%

APPLICANT/OWNER

CIVIL ENGINEERING - LANDSCAPE ARCHITECTURE - GEOMATICS - GEOTECHNICAL

ARCHITECTS



**STEWART**

101 W. MAIN STREET  
DURHAM, NC 27701  
T 919.380.8752

FIRM LICENSE # C-1051  
WWW.STEWARTINC.COM  
PROJECT # C17104

GLMH-2, LLC  
121 S. ESTES DRIVE SUITE 100  
CHAPEL HILL, NC 27514

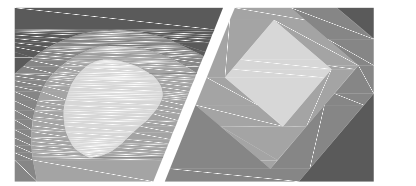
STEWART INC. - CIVIL  
CONTACT: ADAM PIKE, PE  
PROJECT MANAGER  
919.866.4805 (T)  
919.380.8752 (F)  
APIKE@STEWARTINC.COM

STEWART INC. - LANDSCAPE ARCHITECTURE  
CONTACT: CHRISTOPHER J. MILLER, PLA  
LANDSCAPE ARCHITECT  
919.866.4793 (T)  
919.380.8752 (F)  
CMILLER@STEWARTINC.COM

STEWART INC. - GEOMATICS  
CONTACT: FRANK G. MUNDY, II, PLS  
DIRECTOR OF GEOMATICS  
919.866.4806 x 206 (T)  
919.380.8752 (F)  
FMUNDY@STEWARTINC.COM

STEWART INC. - GEOTECHNICAL  
CONTACT: DON BROWN, PE, LEED AP  
MANAGER OF CONSTRUCTION SERVICES  
919.866.4842 x 242 (T)  
919.380.8752 (F)  
DBROWN@STEWARTINC.COM

GURLITZ ARCHITECTURAL  
121 S. ESTES DRIVE, SUITE 100  
CHAPEL HILL, NC 27514  
CONTACT: NATHAN HARMS  
919.489.9000 (T)  
NATHAN@GURLITZARCHITECTS.COM



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T 919.380.8750 PROJECT # C17104

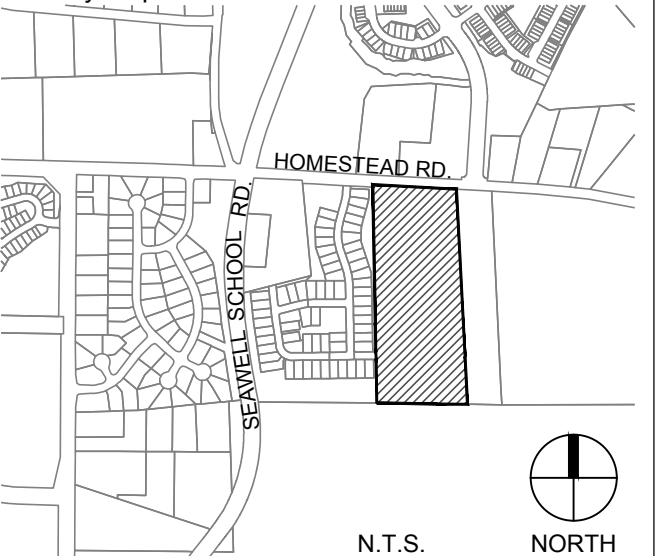
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GLMH-2, LLC  
121 S. ESTES DRIVE SUITE 100  
CHAPEL HILL, NC 27514

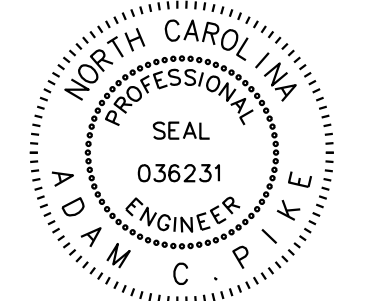
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# INDEPENDENT SENIOR HOUSING CHAPEL HILL

Vicinity map:



Seal:

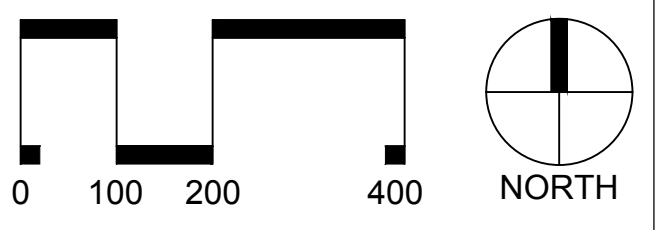


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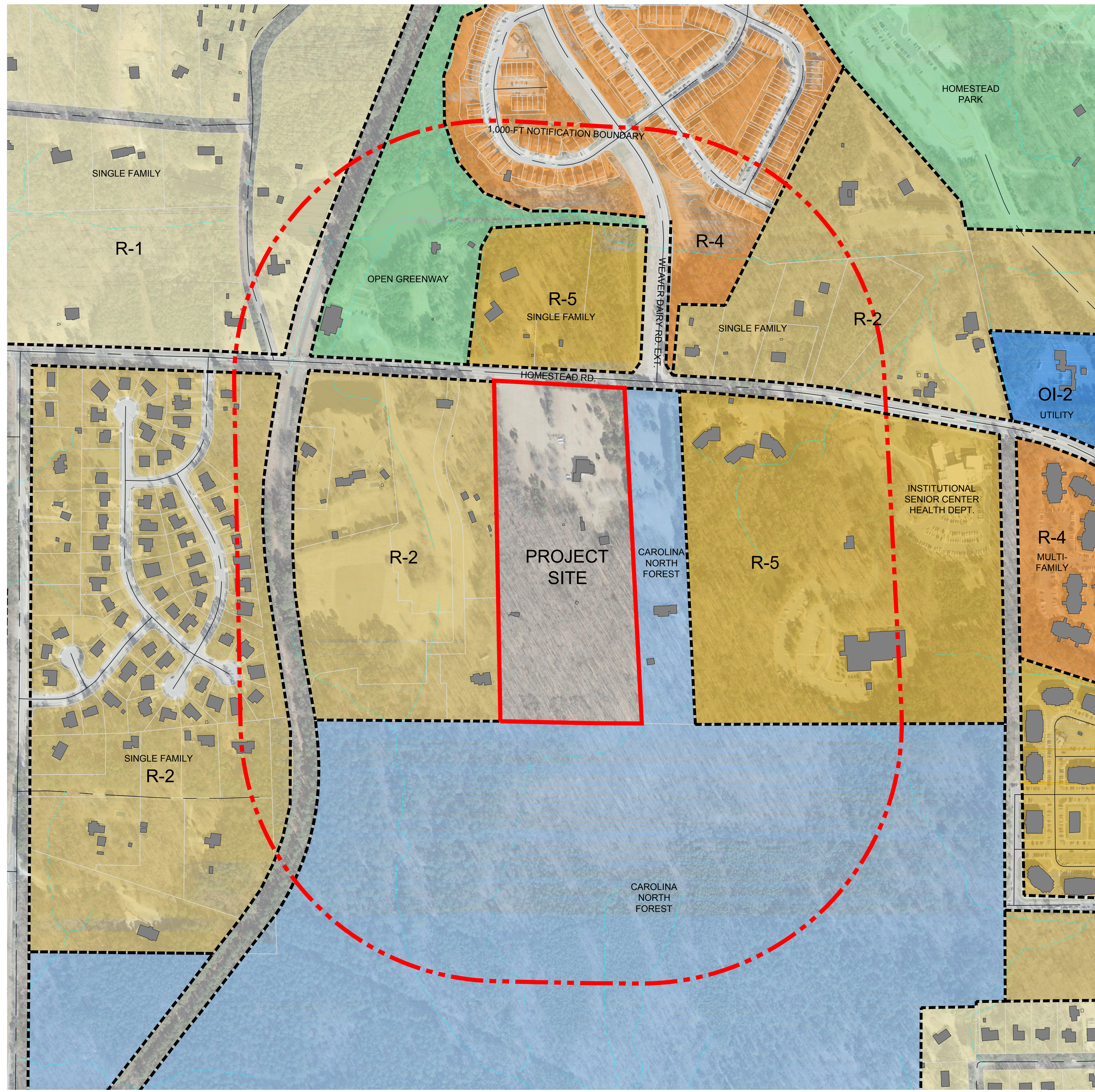


SCALE: 1"=200'

Title:

## AREA MAP

Project number: C17004 Sheet:  
Date: 09.27.2017  
Drawn by: RS  
Approved by: ACP **C1.01**

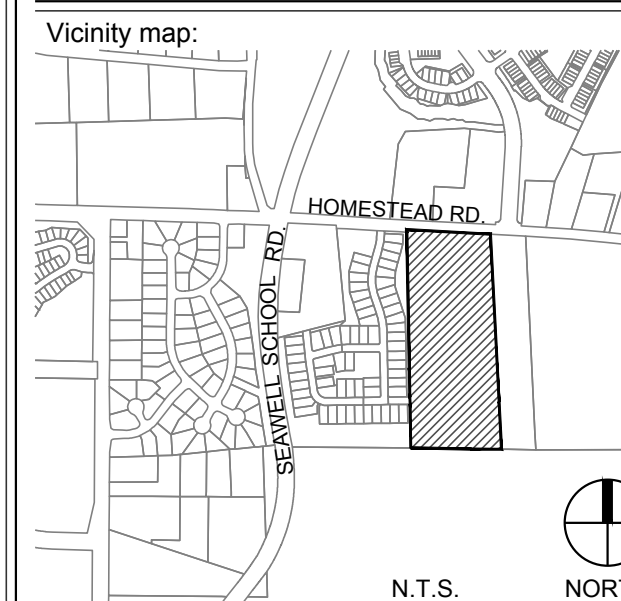


**LEGEND**

- 1000' NOTIFICATION
- PROPERTY LINES
- PERENNIAL STREAM
- EPHEMERAL STREAM
- ZONING BOUNDARY

Client:  
  
GLMH-2, LLC  
121 S. ESTES DRIVE SUITE 100  
CHAPEL HILL, NC 27514

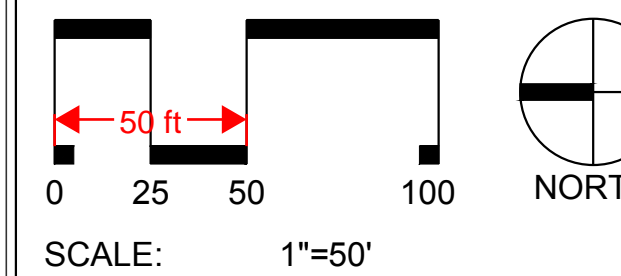
Project:  
  
**INDEPENDENT  
SENIOR  
HOUSING  
CHAPEL HILL**



Seal:  
  
**PRELIMINARY - DO NOT  
USE FOR CONSTRUCTION**

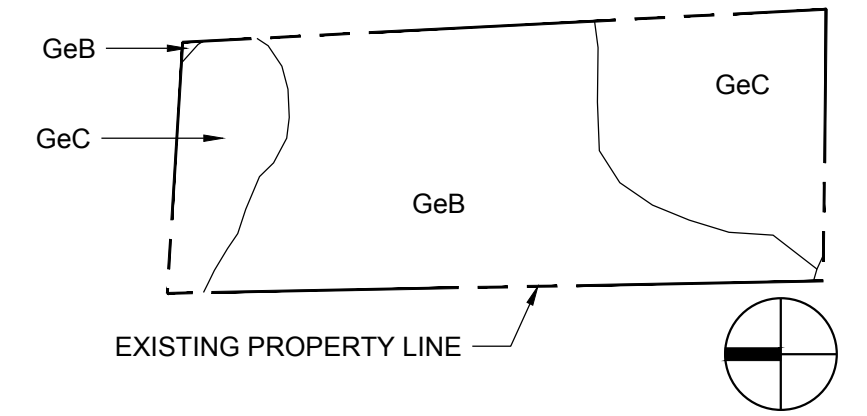
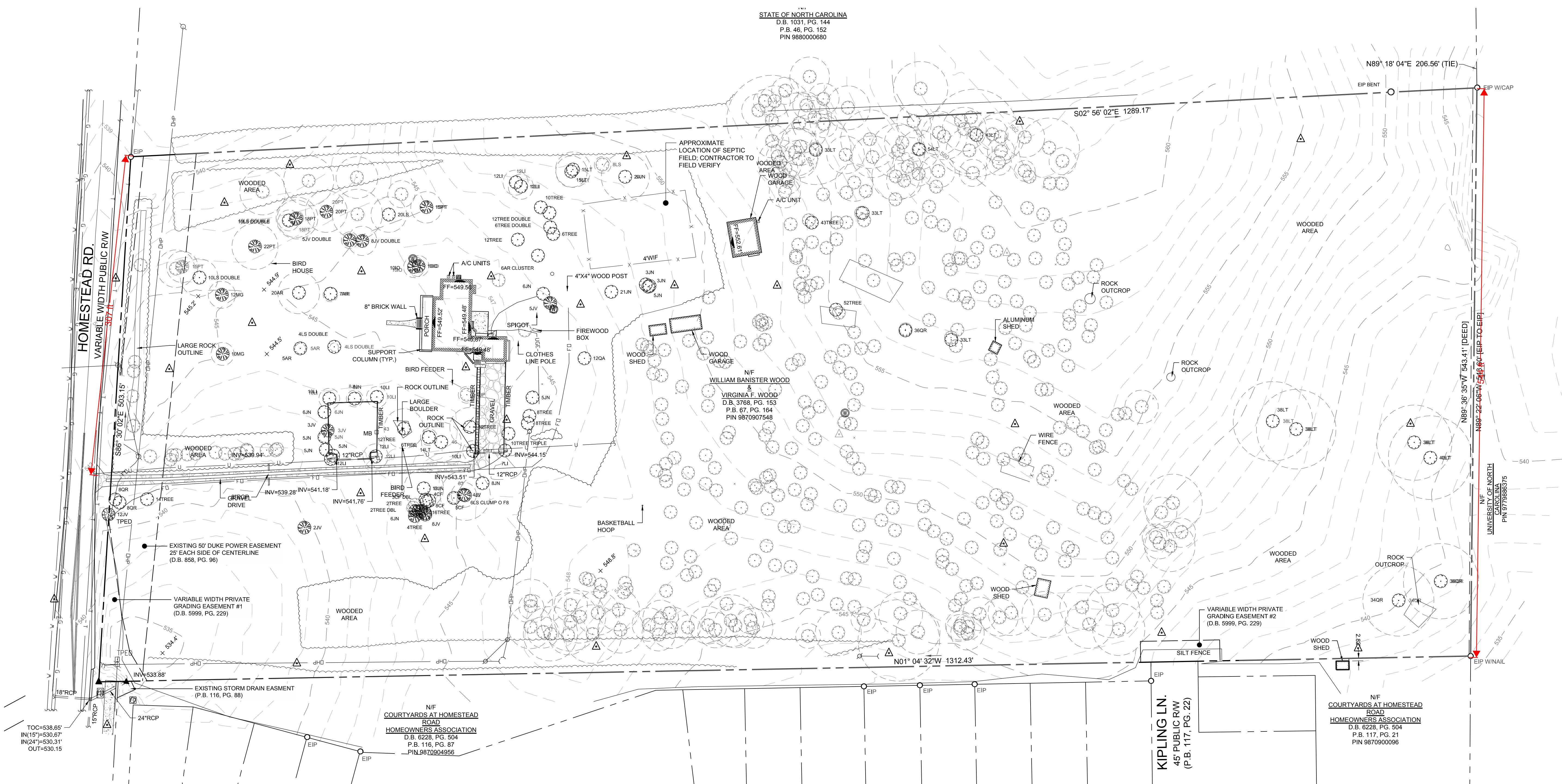
Issued for:  
  
**SUP SUBMITTAL**

No.	Date	Description



Title:  
  
**EXISTING  
CONDITIONS PLAN**

Project number: C17004 Sheet:  
Date: 09.27.2017  
Drawn by: RS  
Approved by: ACP **C1.00**



**LEGEND**

▲	SURVEY CONTROL POINT	○	BUSH
●	EXISTING IRON PIPE	—X—	WIRE FENCE
○	EXISTING IRON ROD	~~~~~	TREELINE
▲	COMPUTED POINT	—T—	UNDERGROUND TELEPHONE LINE
●	WELL	—FO—	UNDERGROUND FIBER OPTIC LINE
▲	TELEPHONE PEDESTAL	—G—	UNDERGROUND GAS LINE
⌋	UTILITY POLE	—E—	UNDERGROUND ELECTRIC LINE
—	GUY WIRE	—W—	UNDERGROUND WATER LINE
●	BOLLARD	—S—S—S—	STORM DRAIN LINE
—	SIGN	—OHW—	OVERHEAD WIRES
MB	MAILBOX	—U—	UNIDENTIFIED LINE
FF=267.18'	FINISHED FLOOR ELEVATION	—	UNKNOWN DESTINATION
○	DECIDUOUS TREE	—	CONCRETE SURFACE
○	CRITICAL ROOT ZONE FOR TREES TO BE REMOVED OR TO BE PROTECTED	—	REINFORCED CONCRETE PIPE
○	EVERGREEN TREE		

**TREE LEGEND**

AR	RED MAPLE
HO	AMERICAN HOLLY
JN	BLACK WALNUT
JV	EASTERN RED CEDAR
LS	SWEETGUM
LT	TULIP POPLAR
MG	SOUTHERN MAGNOLIA
PT	LOBLOLLY PINE
OR	RED OAK
TREE	UNIDENTIFIED TREE
EXAMPLE: 10QR = 10" RED OAK	

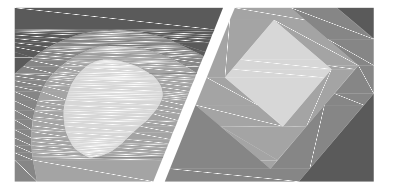
**SURVEY NOTES:**

- THIS SURVEY MAP IS INTENDED TO REPRESENT THE EXISTING CONDITIONS/TOPOGRAPHY ON A PORTION OF THE PROPERTY OF WILLIAM BANISTER WOOD AND VIRGINIA F. WOOD, PIN 9870907548, AND IS NOT A BOUNDARY SURVEY. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT AND THEREFORE ALL ENCUMBRANCES UPON THE PROPERTY MAY NOT BE SHOWN.
- THE PROPERTY LINES SHOWN HEREON HAVE BEEN CONFIRMED FROM A PARTIAL SURVEY BY STEWART ENGINEERING. PROPERTY LINES SHOWN TAKEN FROM DEED BOOK 3768 ON PAGE 153.
- THE STATE PLANE COORDINATES (SPC) FOR THIS PROJECT WERE PRODUCED WITH STATIC GPS OBSERVATIONS AND PROCESSED WITH ONLINE POSITIONING USER SERVICE (OPUS). THE NETWORK POSITIONAL ACCURACY OF THE OPUS DERIVED POSITION INFORMATION IS 0.70CM. THE FOLLOWING CORS WERE USED BY OPUS-RS:
- DK7563 NCWL WILSON CORS ARP
- DM3525 NCRC REIDSVILLE CORS ARP
- DL6900 NCZO ASHEBORO 2 CORS ARP
- THIS DRAWING DOES NOT CONFORM TO N.C. GS47-30 AND THEREFORE IS NOT FOR RECORDATION.
- HORIZONTAL DATUM IS NAD 83(2011).
- ALL DISTANCES SHOWN ARE HORIZONTAL GROUND DISTANCES IN U.S. SURVEY FT. AREA COMPUTED BY COORDINATE GEOMETRY.
- ADDRESS: 2217 HOMESTEAD RD.
- NO MONUMENT FOUND WITHIN 2000 FEET.
- UTILITIES SHOWN HEREON ARE BASED SOLELY ON ABOVE-GROUND VISIBLE EVIDENCE AND UTILITY DESIGNATION/MARKING SERVICES PERFORMED BY STEWART INC. AS A PART OF THIS SURVEY. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES BEFORE COMMENCING CONSTRUCTION.
- TREES SHOWN HEREON MAY NOT REPRESENT ALL VEGETATION ON THE SUBJECT PROPERTY.
- THE SUBJECT PROPERTY IS ZONED "R-2" (PER TOWN OF CHAPEL HILL ZONING MAP DATED FEBRUARY 2016).
- THE SUBJECT PROPERTY LIES IN ZONES X (AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE AND FUTURE CONDITIONS 1% ANNUAL CHANCE FLOODPLAIN), BASED ON THE FLOOD INSURANCE RATE MAP COMMUNITY MAP NUMBER 3710987000J DATED 02/02/07.
- NO JURISDICTIONAL STREAMS OR WETLANDS PRESENT ON SUBJECT PROPERTY ACCORDING TO REPORT BY GEORGE K LANKFORD, LSS #1223, DATED JULY 31, 2017.
- CRITICAL ROOT ZONES IN LOCAL SOIL TYPES ARE SHOWN TO BE ONE (1) FOOT OF RADIUS (NOT DIAMETER) FOR EVER ONCE (1) INCH OF TRUCK DBH.









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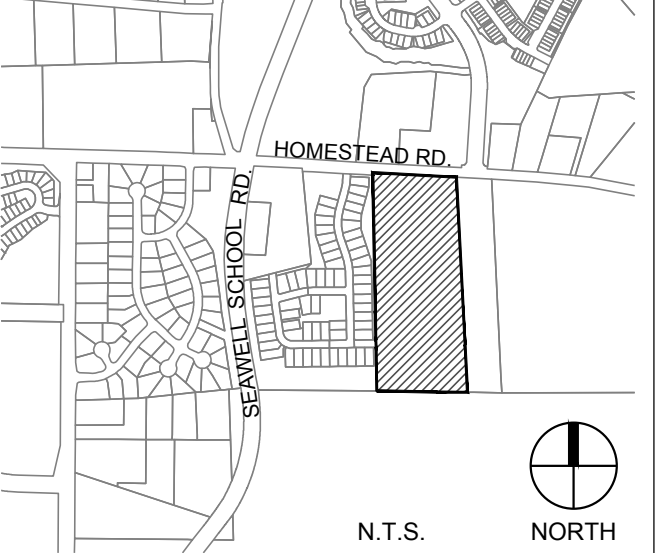
Client:

GLMH-2, LLC  
121 S. ESTES DRIVE SUITE 100  
CHAPEL HILL, NC 27514

Project:

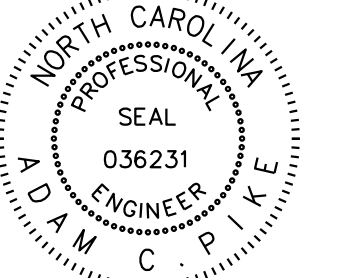
# INDEPENDENT SENIOR HOUSING CHAPEL HILL

Vicinity map:



N.T.S. NORTH

Seal:

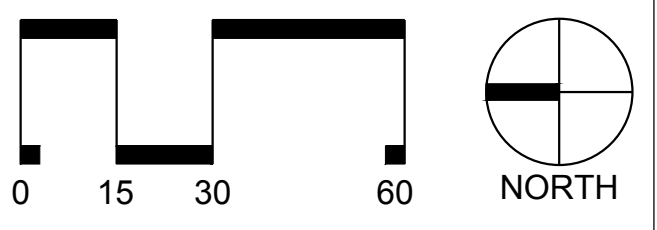


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SCALE: 1"=30'

Title:

## SITE PLAN ENLARGEMENT (SOUTH)

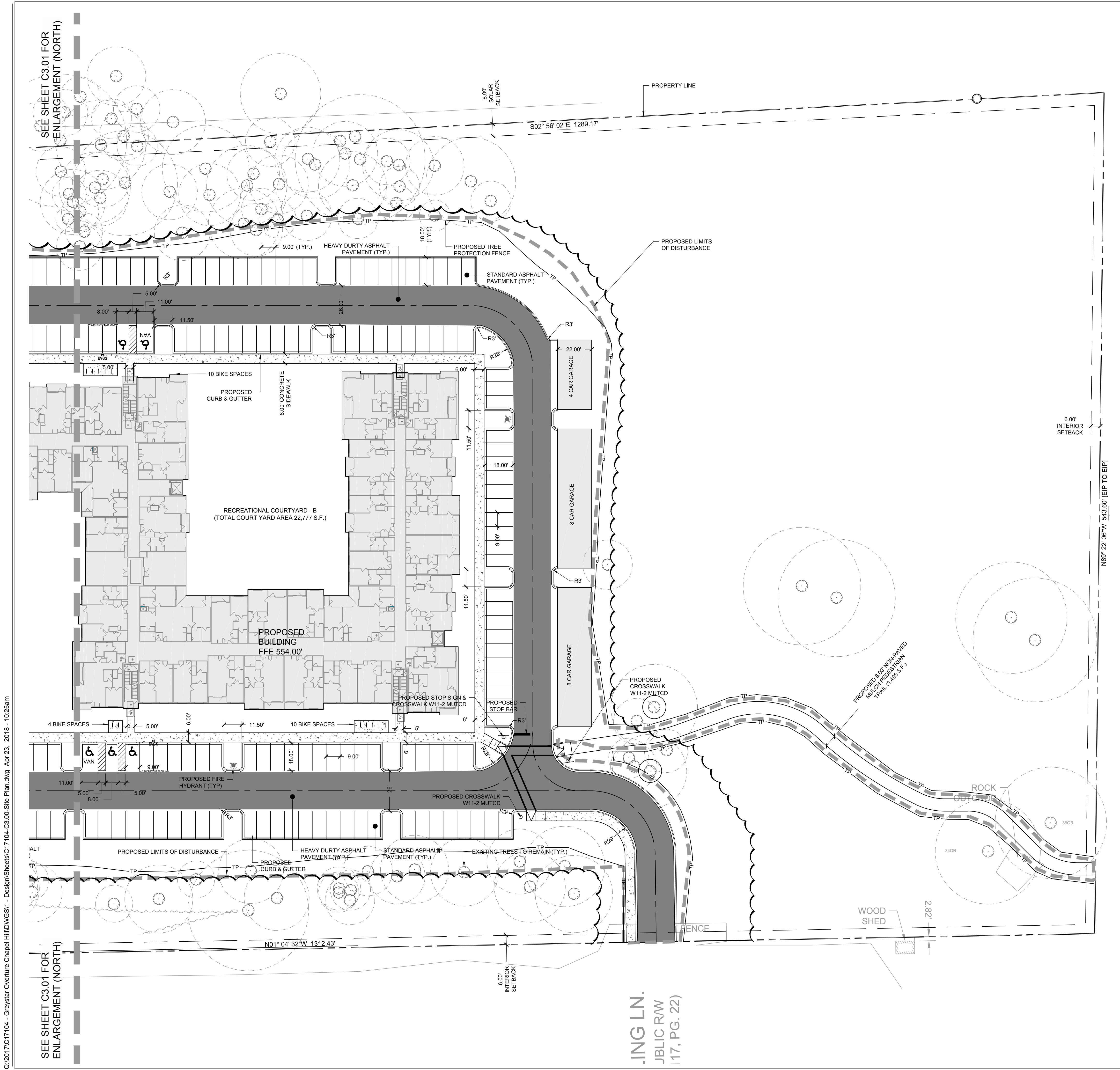
Project number: C17004 Sheet:

Date: 09.27.2017

Drawn by: RS

Approved by: ACP

# C3.02



- SITE LEGEND**
- PROPOSED BUILDING
  - PROPOSED CONCRETE SIDEWALK
  - PROPOSED HEAVY DUTY PAVEMENT
  - PROPOSED CURB & GUTTER
  - PROPOSED STOP BAR
  - PROPOSED 6' WIDE STANDARD CROSSWALK
  - PROPOSED SIGN
  - PROPOSED ADA PARKING SPACE
  - PROPOSED CIP WALL
  - PROPOSED WHEEL STOP
  - PROPOSED ASPHALT TRAIL
  - PROPOSED LIGHT
  - PROPOSED BIKE RACK
  - LIMITS OF DISTURBANCE
  - FUTURE ROADWAY IMPROVEMENTS (BY OTHERS)

- NOTES:**
- SEE SHEET C3.00 FOR GENERAL AND SITE NOTES.

ING LN.  
JBLIC RW  
(17, PG. 22)

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SEE SHEET C3.01 FOR ENLARGEMENT (NORTH)

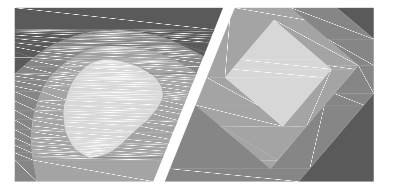
SEE SHEET C3.01 FOR ENLARGEMENT (NORTH)











**STEWART**

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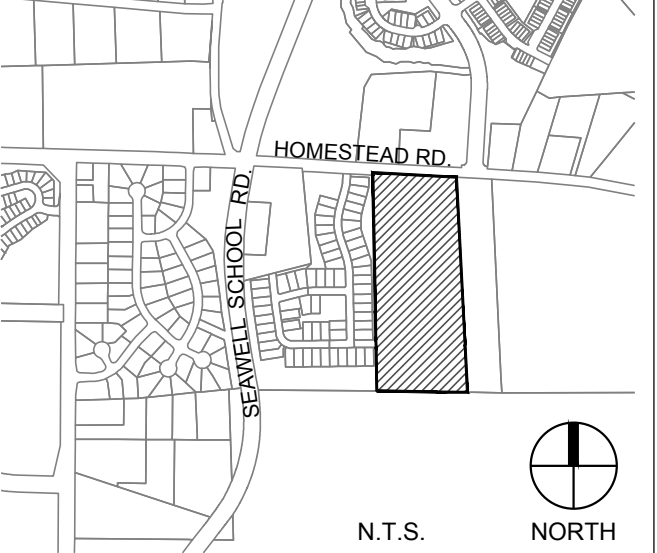
Client:

GLMH-2, LLC  
121 S. ESTES DRIVE SUITE 100  
CHAPEL HILL, NC 27514

Project:

**INDEPENDENT  
SENIOR  
HOUSING  
CHAPEL HILL**

Vicinity map:



Seal:



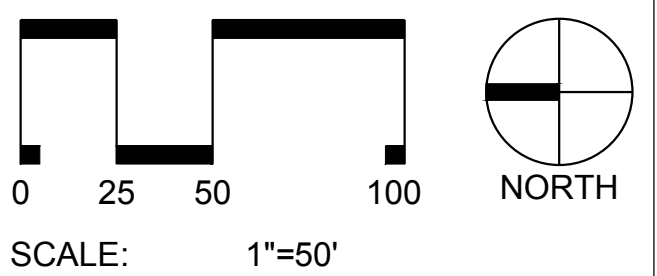
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No.	Date	Description



Title:

**EROSION CONTROL  
PLAN (PHASE I)**

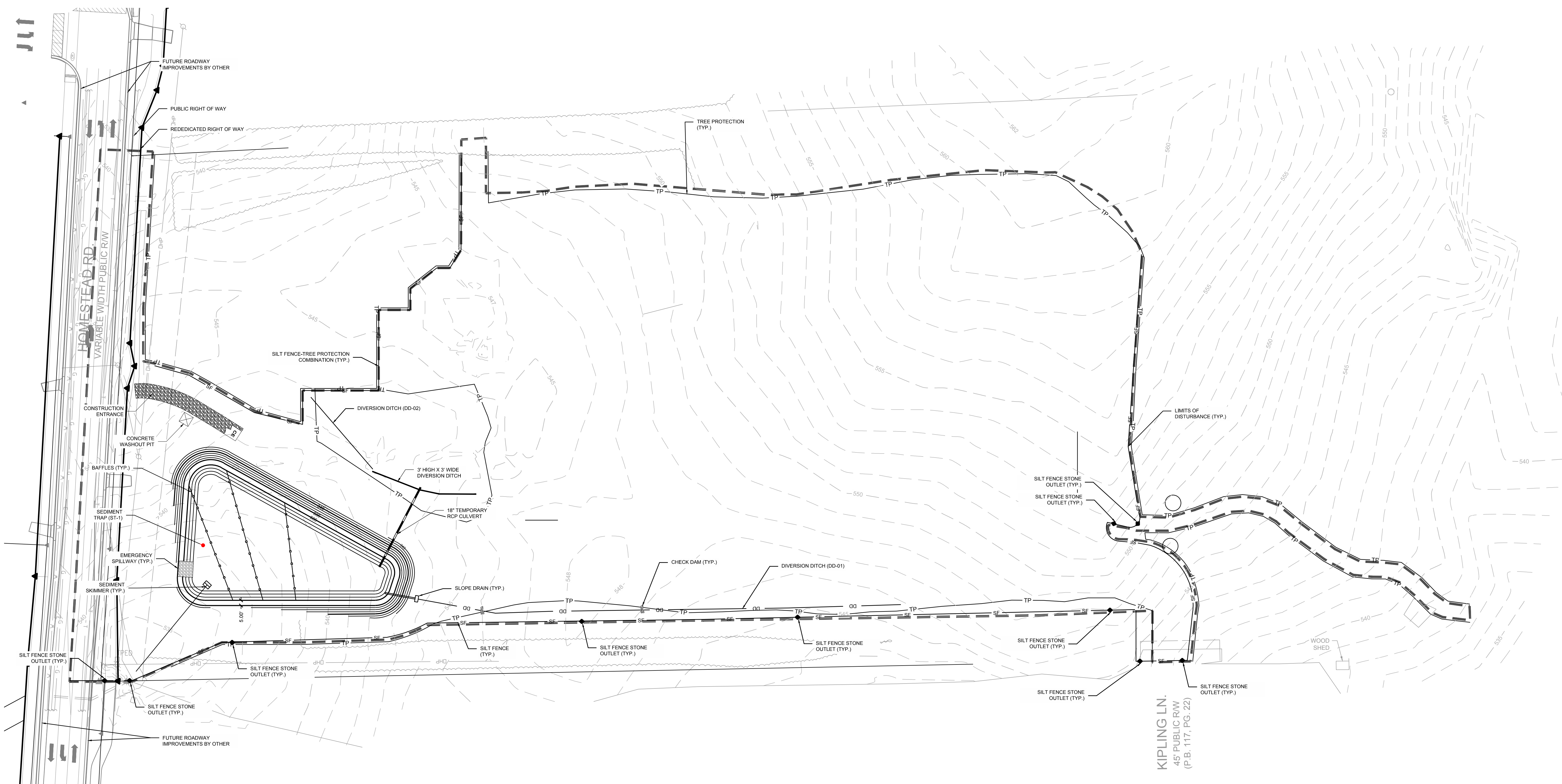
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Date: 09.27.2017

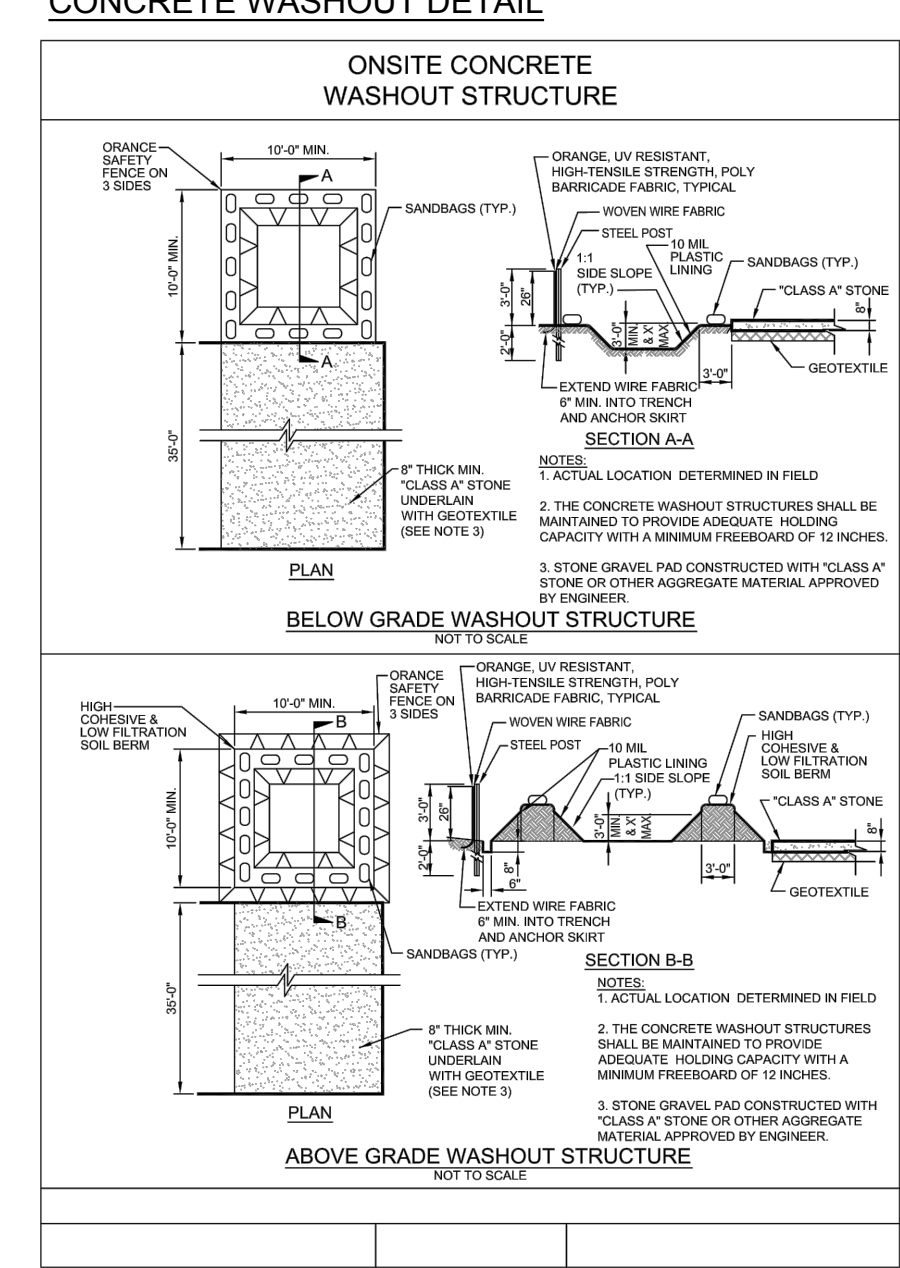
Drawn by: RS/DCB

Approved by: ACP

**C4.01**



**CONCRETE WASHOUT DETAIL**



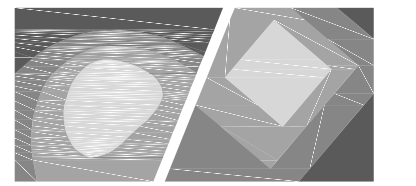
**EROSION CONTROL LEGEND**

- SF SILT FENCE
- TP TREE PROTECTION
- DD DIVERSION DITCH
- LIMITS OF DISTURBANCE
- BLOCK & GRAVEL INLET PROTECTION
- SILT FENCE AND WIRE INLET PROTECTION
- HORSE SHOE INLET PROTECTION
- SILT FENCE OUTLET
- CHECK DAM
- FLARED END SECTION (FES)
- SEDIMENT TRAP
- RIPRAP DISSIPATER
- 100 YR FLOOD ELEV.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NORTH CAROLINA EROSION CONTROL SPECIFICATIONS

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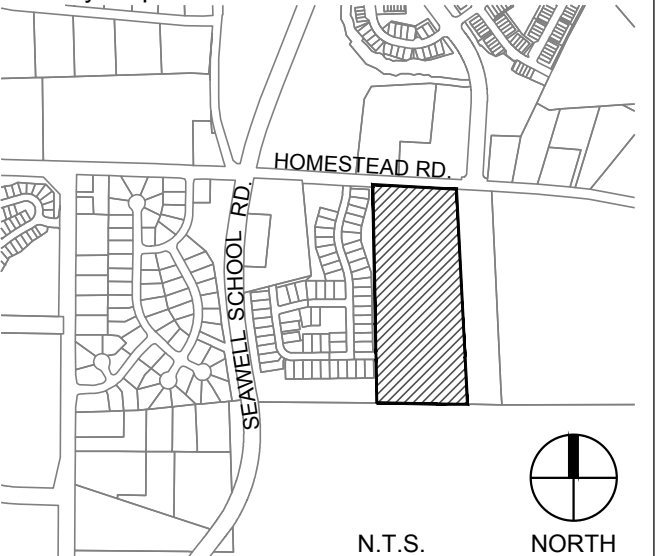
Client:

GLMH-2, LLC  
121 S. ESTES DRIVE SUITE 100  
CHAPEL HILL, NC 27514

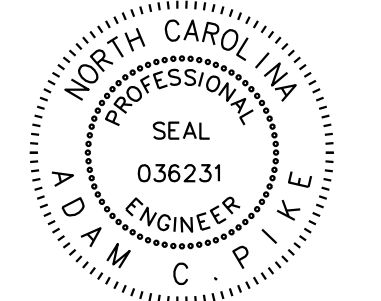
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# INDEPENDENT SENIOR HOUSING CHAPEL HILL

Vicinity map:



Seal:

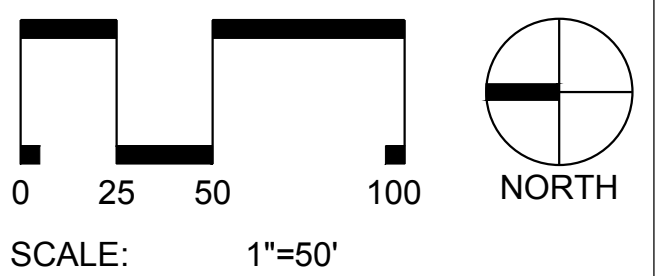


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Title:

## EROSION CONTROL PLAN (PHASE III)

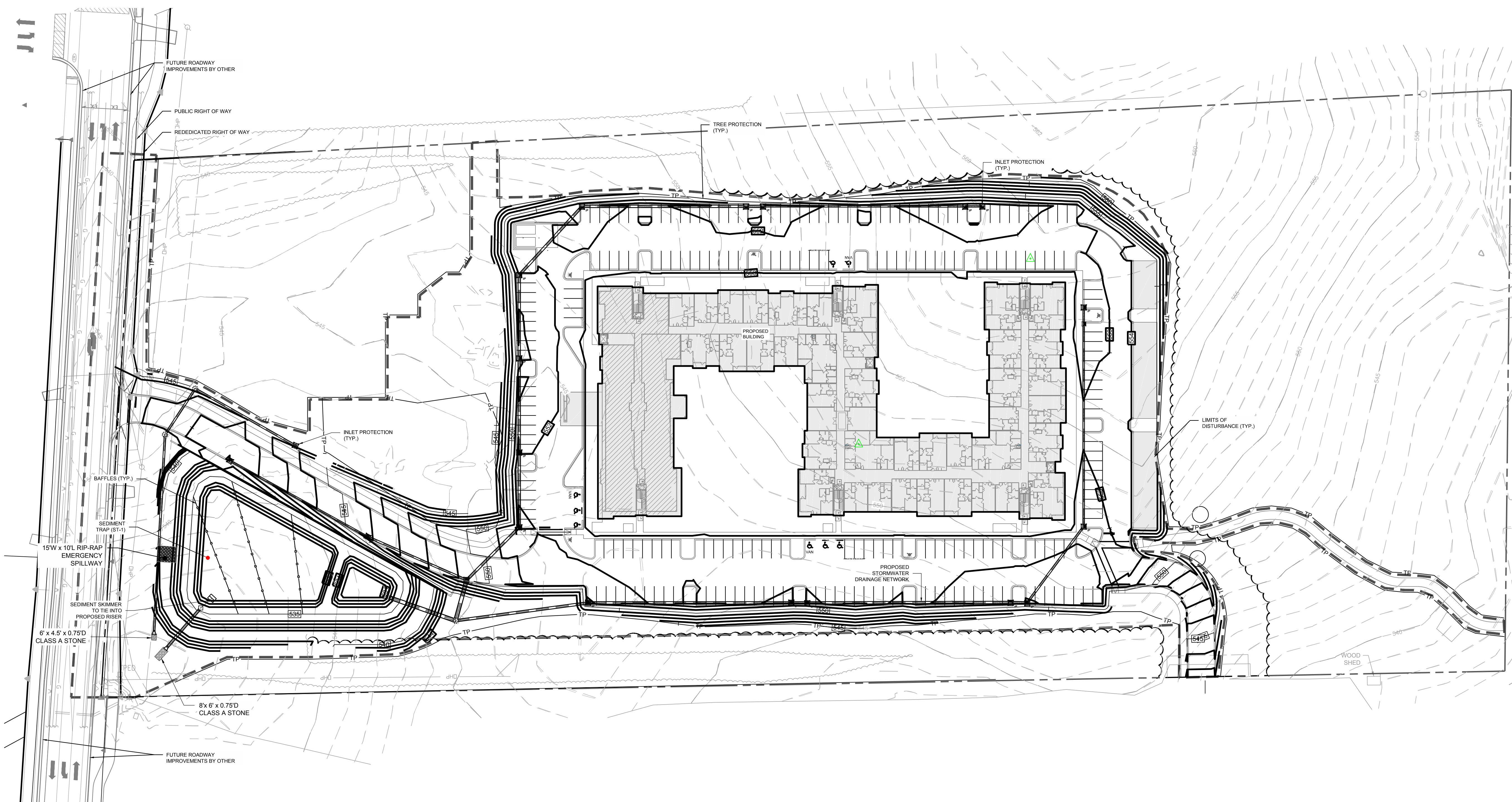
Project number: C17004 Sheet:

Date: 09.27.2017

Drawn by: RS/DCB

Approved by: ACP

# C4.03



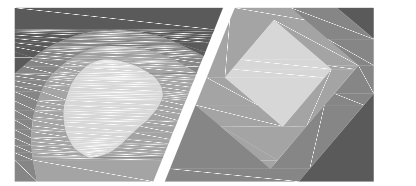
### EROSION CONTROL LEGEND

- SILT FENCE
- TREE PROTECTION
- DIVERSION DITCH
- LIMITS OF DISTURBANCE
- BLOCK & GRAVEL INLET PROTECTION
- SILT FENCE AND WIRE INLET PROTECTION
- HORSE SHOE INLET PROTECTION
- SILT FENCE OUTLET
- CHECK DAM
- FLARED END SECTION (FES)
- SEDIMENT TRAP
- RIPRAP DISSIPATER
- TEMPORARY CONSTRUCTION ENTRANCE
- 100 YR FLOOD ELEV.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NORTH CAROLINA EROSION CONTROL SPECIFICATIONS







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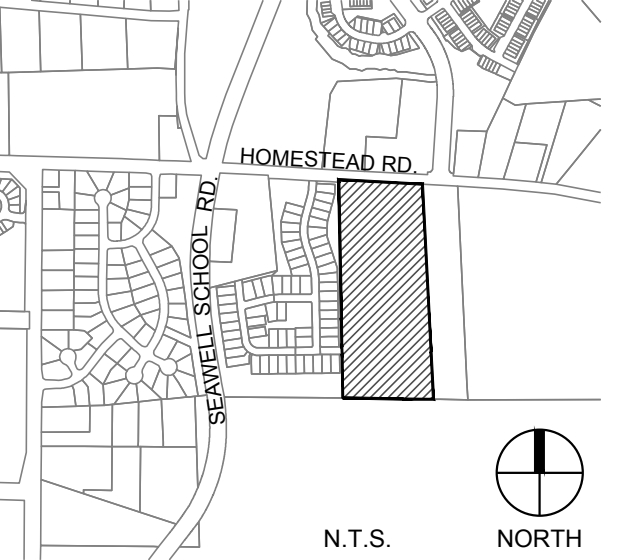
Client:

GLMH-2, LLC  
121 S. ESTES DRIVE SUITE 100  
CHAPEL HILL, NC 27514

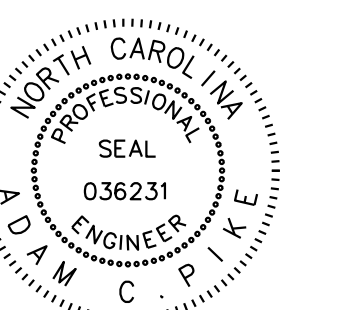
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# INDEPENDENT SENIOR HOUSING CHAPEL HILL

Vicinity map:



Seal:

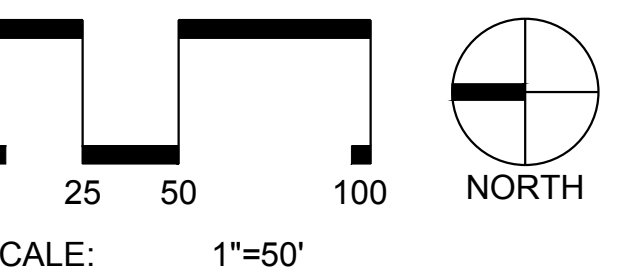


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Title:

## UTILITIES PLAN

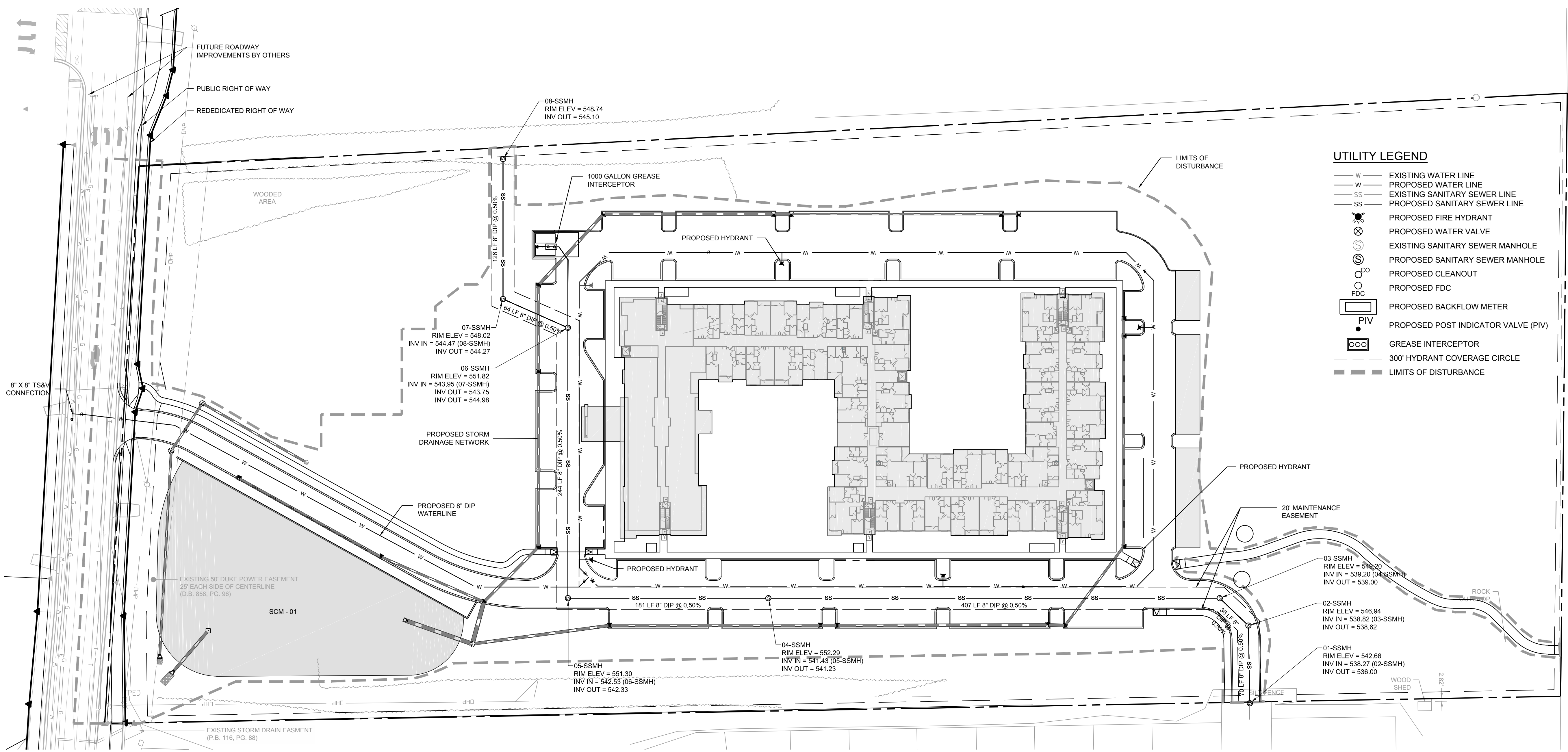
Project number: C17004 Sheet:

Date: 09.27.2017

Drawn by: DCB/RS

Approved by: ACP

# C6.00



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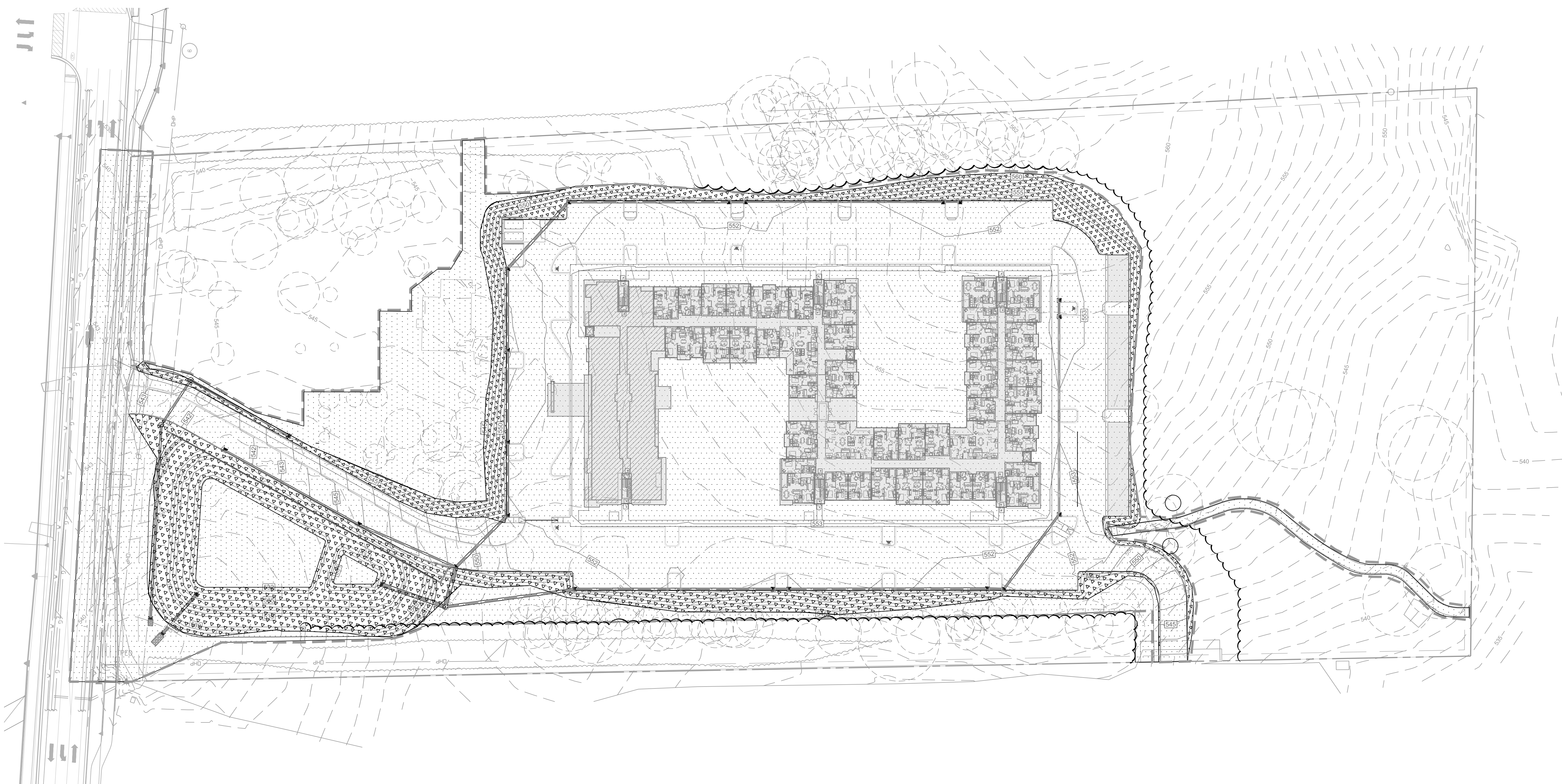
ID #	CODE	Common Name	Scientific Name	DBH	Rare or Spec	Multistem Number
1	LIST	Sw eetlum	Liquidambar styraciflua	15	Specimen	
2	JUVI	Eastern Red Cedar	Juniperus virginiana	15	Rare	
3	FRSE	Black Cherry	Prunus serrata	16	Specimen	
4	LIST	Sw eetlum	Liquidambar styraciflua	16	Specimen	
5	RTA	Lobolly Phe	Pinus taeda	19	Specimen	
6	COFL	Dogwood	Cornus florida	9	Specimen	
7	LIST	Sw eetlum	Liquidambar styraciflua	12	Specimen	
8	JUVI	Eastern Red Cedar	Juniperus virginiana	13	Rare	
9	LIST	Sw eetlum	Liquidambar styraciflua	17	Specimen	
10	FRSE	Black Cherry	Prunus serrata	9	NA	
11	JUVI	Eastern Red Cedar	Juniperus virginiana	17	Rare	
12	LIST	Sw eetlum	Liquidambar styraciflua	12	Specimen	
13	RTA	Lobolly Phe	Pinus taeda	18	Specimen	
14	LITU	Tulp Poplar	Liriodendron tulipifera	15	Specimen	
15	PYCA	Callery Pear	Pyrus calleryana	17	NA	
16	PYCA	Callery Pear	Pyrus calleryana	17	NA	
17	JUVI	Eastern Red Cedar	Juniperus virginiana	13	Rare	
18	CECA	Eastern Redbud	Cercis canadensis	8	Specimen	
19	ILOP	American Holly	Ilex opaca	7	Specimen	
20	LITU	Tulp Poplar	Liriodendron tulipifera	15	Specimen	
21	COFL	Dogwood	Cornus florida	6	Specimen	
22	COFL	Dogwood	Cornus florida	7	Specimen	
23	LITU	Tulp Poplar	Liriodendron tulipifera	16	Specimen	
24	COFL	Dogwood	Cornus florida	8	Specimen	
25	MAGR	Southern Magnolia	Magnolia grandiflora	11	NA	
26	MAGR	Southern Magnolia	Magnolia grandiflora	13	Specimen	
27	LIST	Sw eetlum	Liquidambar styraciflua	18	Specimen	
28	RTA	Lobolly Phe	Pinus taeda	18	Specimen	
29	LITU	Tulp Poplar	Liriodendron tulipifera	15	Specimen	
30	LITU	Tulp Poplar	Liriodendron tulipifera	24	Specimen	
31	LITU	Tulp Poplar	Liriodendron tulipifera	22	Specimen	
32	RTA	Lobolly Phe	Pinus taeda	22	Specimen	
33	LITU	Tulp Poplar	Liriodendron tulipifera	20	Specimen	
34	RTA	Lobolly Phe	Pinus taeda	24	Specimen	
35	LIST	Sw eetlum	Liquidambar styraciflua	14	Specimen	
36	RTA	Lobolly Phe	Pinus taeda	24	Specimen	
37	RTA	Lobolly Phe	Pinus taeda	20	Specimen	
38	LIST	Sw eetlum	Liquidambar styraciflua	13	Specimen	
39	LIST	Sw eetlum	Liquidambar styraciflua	17	Specimen	
40	JUVI	Eastern Red Cedar	Juniperus virginiana	14	Rare	
41	JUVI	Eastern Red Cedar	Juniperus virginiana	8	Specimen	
42	ACRU	Red Maple	Acer rubrum	20	Specimen	
43	BBN	River Birch	Betula nigra	19	Specimen	
44	CRAT	Hawthorn	Crataegus species	8	Specimen	
45	LITU	Tulp Poplar	Liriodendron tulipifera	19	Specimen	
46	BBN	River Birch	Betula nigra	19	Specimen	
47	BBN	River Birch	Betula nigra	21	Specimen	
48	COFL	Dogwood	Cornus florida	9	Specimen	
49	MORR	Mulberry	Morus sp	20	NA	
50	PYCA	Callery Pear	Pyrus calleryana	9	NA	
51	CECA	Eastern Redbud	Cercis canadensis	16	Rare	
52	LITU	Tulp Poplar	Liriodendron tulipifera	19	Specimen	
53	LITU	Tulp Poplar	Liriodendron tulipifera	17	Specimen	
54	JUNI	Black Walnut	Juglans nigra	23	Specimen	
55	LITU	Tulp Poplar	Liriodendron tulipifera	35	Rare	
56	JUNI	Black Walnut	Juglans nigra	12	Specimen	
57	ACRU	Red Maple	Acer rubrum	12	Specimen	
58	QUAL	White Oak	Quercus alba	22	Specimen	
59	QUAL	White Oak	Quercus alba	22	Specimen	
60	LITU	Tulp Poplar	Liriodendron tulipifera	18	Specimen	
61	LITU	Tulp Poplar	Liriodendron tulipifera	21	Specimen	
62	CARYA	Hickory	Carya species	13	Specimen	
63	CARYA	Hickory	Carya species	17	Specimen	
64	ACRU	Red Maple	Acer rubrum	16	Specimen	
65	LITU	Tulp Poplar	Liriodendron tulipifera	18	Specimen	
66	LITU	Tulp Poplar	Liriodendron tulipifera	25	Rare	
67	LIST	Sw eetlum	Liquidambar styraciflua	16	Specimen	
68	CARYA	Hickory	Carya species	17	Specimen	
69	QUVE	Black Oak	Quercus velutina	42	Rare	
70	ULAL	Winged Elm	Ulmus alatus	14	Specimen	
71	JUNI	Black Walnut	Juglans nigra	17	Specimen	
72	CARYA	Hickory	Carya species	13	Specimen	
73	LITU	Tulp Poplar	Liriodendron tulipifera	21	Specimen	
74	LITU	Tulp Poplar	Liriodendron tulipifera	20	Specimen	
75	LITU	Tulp Poplar	Liriodendron tulipifera	27	Rare	
76	LITU	Tulp Poplar	Liriodendron tulipifera	30	Rare	
77	LITU	Tulp Poplar	Liriodendron tulipifera	15	Specimen	
78	LITU	Tulp Poplar	Liriodendron tulipifera	19	Specimen	
79	FRSE	Black Cherry	Prunus serrata	19	Specimen	
80	DVI	Persimmon	Diospyros virginiana	10	Specimen	
81	CALC	Pecan	Carya illinoensis	19	Specimen	
82	LIST	Sw eetlum	Liquidambar styraciflua	12	Specimen	
83	LIST	Sw eetlum	Liquidambar styraciflua	24	Rare	
84	CALC	Pecan	Carya illinoensis	12	Specimen	
85	CALC	Pecan	Carya illinoensis	13	Specimen	
86	LITU	Tulp Poplar	Liriodendron tulipifera	21	Specimen	
87	LITU	Tulp Poplar	Liriodendron tulipifera	12	Specimen	
88	LIST	Sw eetlum	Liquidambar styraciflua	21	Specimen	
89	QUAL	White Oak	Quercus alba	15	Specimen	
90	QUAL	White Oak	Quercus alba	26	Rare	
91	LIST	Sw eetlum	Liquidambar styraciflua	19	Specimen	
92	LIST	Sw eetlum	Liquidambar styraciflua	28	Rare	
93	QUAL	White Oak	Quercus alba	25	Rare	
94	LIST	Sw eetlum	Liquidambar styraciflua	16	Specimen	
95	QUVE	Black Oak	Quercus velutina	12	Specimen	
96	LIST	Sw eetlum	Liquidambar styraciflua	16	Specimen	
97	QUAL	White Oak	Quercus alba	16	Specimen	
98	FRSE	Black Cherry	Prunus serrata	8	NA	
99	FRSE	Black Cherry	Prunus serrata	6	NA	
100	LIST	Sw eetlum	Liquidambar styraciflua	25	Rare	
101	LIST	Sw eetlum	Liquidambar styraciflua	16	Specimen	
102	QUAL	White Oak	Quercus alba	21	Specimen	
103	QUVE	Black Oak	Quercus velutina	28	Rare	
104	QUAL	White Oak	Quercus alba	22	Specimen	
105	QUAL	White Oak	Quercus alba	20	Specimen	
106	QUAL	White Oak	Quercus alba	15	Specimen	
107	QUAM	Blackjack Oak	Quercus marilandica	23	Specimen	
108	QUAL	White Oak	Quercus alba	17	Specimen	
109	RTA	Lobolly Phe	Pinus taeda	19	Specimen	
110	RTA	Lobolly Phe	Pinus taeda	22	Specimen	
111	QUAL	White Oak	Quercus alba	26	Rare	
112	LIST	Sw eetlum	Liquidambar styraciflua	17	Specimen	
113	QUAL	White Oak	Quercus alba	31	Rare	
114	LITU	Tulp Poplar	Liriodendron tulipifera	22	Specimen	
115	QUAL	White Oak	Quercus alba	17	Specimen	
116	QUAL	White Oak	Quercus alba	16	Specimen	
117	LIST	Sw eetlum	Liquidambar styraciflua	16	Specimen	
118	FRAX	Ash	Fraxinus species	20	Specimen	
119	CATO	Mockernut Hickory	Carya tomentosa	12	Specimen	
120	QUAL	White Oak	Quercus alba	18	Specimen	
121	QUAL	White Oak	Quercus alba	17	Specimen	
122	LITU	Tulp Poplar	Liriodendron tulipifera	21	Specimen	
123	QUAL	White Oak	Quercus alba	25	Rare	
124	CATO	Mockernut Hickory	Carya tomentosa	13	Specimen	
125	QUAL	White Oak	Quercus alba	24	Rare	

ID #	CODE	Common Name	Scientific Name	DBH	Rare or Spec	Multistem Number
126	LIST	Sw eetlum	Liquidambar styraciflua	14	Specimen	
127	FRAX	Ash	Fraxinus species	15	Specimen	
128	NYSY	Blackgum	Nyssa sylvatica	13	Specimen	
129	NYSY	Blackgum	Nyssa sylvatica	12	Specimen	
130	ILOP	American Holly	Ilex opaca	6	Specimen	
131	NYSY	Blackgum	Nyssa sylvatica	27	Rare	
132	LIST	Sw eetlum	Liquidambar styraciflua	15	Specimen	
133	LIST	Sw eetlum	Liquidambar styraciflua	21	Specimen	
134	LITU	Tulp Poplar	Liriodendron tulipifera	19	Specimen	
135	LITU	Tulp Poplar	Liriodendron tulipifera	39	Rare	
136	LIST	Sw eetlum	Liquidambar styraciflua	13	Specimen	
137	QUAM	Blackjack Oak	Quercus marilandica	13	Specimen	
138	OXAR	Sourwood	Oxydendron arboreum	9	Specimen	
139	QUAL	White Oak	Quercus alba	12	Specimen	
140	CATO	Mockernut Hickory	Carya tomentosa	22	Specimen	
141	NYSY	Blackgum	Nyssa sylvatica	16	Specimen	
142	QUVE	Black Oak	Quercus velutina	16	Specimen	
143	QUAL	White Oak	Quercus alba	21	Specimen	
144	QUAL	White Oak	Quercus alba	18	Specimen	
145	LIST	Sw eetlum	Liquidambar styraciflua	15	Specimen	
146	LIST	Sw eetlum	Liquidambar styraciflua	27	Rare	
147	QUAL	White Oak	Quercus alba	19	Specimen	
148	QUAL	White Oak	Quercus alba	23	Specimen	
149	QUAL	White Oak	Quercus alba	18	Specimen	
150	QUAL	White Oak	Quercus alba	18	Specimen	
151	LIST	Sw eetlum	Liquidambar styraciflua	18	Specimen	
152	CATO	Mockernut Hickory	Carya tomentosa	13	Specimen	
153	FRAX	Ash	Fraxinus species	22	Specimen	
154	CATO	Mockernut Hickory	Carya tomentosa	12	Specimen	
155	LIST	Sw eetlum	Liquidambar styraciflua	12	Specimen	
156	CAGL	Pignut Hickory	Carya glabra	16	Specimen	
157	CAGL	Pignut Hickory	Carya glabra	12	Specimen	
158	LIST	Sw eetlum	Liquidambar styraciflua	13	Specimen	
159	QUAL	White Oak	Quercus alba	14	Specimen	
160	QUVE	Black Oak	Quercus velutina	16	Specimen	
161	CATO	Mockernut Hickory	Carya tomentosa	16	Specimen	
162	CAGL	Pignut Hickory	Carya glabra	16	Specimen	
163	QUAL	White Oak	Quercus alba	18	Specimen	
164	QUAL	White Oak	Quercus alba	20	Specimen	
165	CATO	Mockernut Hickory	Carya tomentosa	17	Specimen	
166	LIST	Sw eetlum	Liquidambar styraciflua	15	Specimen	
167	LITU	Tulp Poplar	Liriodendron tulipifera	17	Specimen	
168	QUAL	White Oak	Quercus alba	13	Specimen	
169	LITU	Tulp Poplar	Liriodendron tulipifera	19	Specimen	
170	QUAL	White Oak	Quercus alba	18	Specimen	
171	LITU	Tulp Poplar	Liriodendron tulipifera	15	Specimen	
172	QUAL	White Oak	Quercus alba	22	Specimen	
173	LITU	Tulp Poplar	Liriodendron tulipifera	14	Specimen	
174	FRAX	Ash	Fraxinus species	17	Specimen	
175	LITU	Tulp Poplar	Liriodendron tulipifera	18	Specimen	
176	QUAL	White Oak	Quercus alba	18	Specimen	
177	QUAL	White Oak	Quercus alba	18	Specimen	
178	LITU	Tulp Poplar	Liriodendron tulipifera	17	Specimen	
179	QUAL	White Oak	Quercus alba	15	Specimen	
180	LITU	Tulp Poplar	Liriodendron tulipifera	14	Specimen	
181	LIST	Sw eetlum	Liquidambar styraciflua	22	Specimen	
182	LIST	Sw eetlum	Liquidambar styraciflua	12	Specimen	
183	LITU	Tulp Poplar	Liriodendron tulipifera	30	Rare	
184	LITU	Tulp Poplar	Liriodendron tulipifera	23	Specimen	
185	LITU	Tulp Poplar	Liriodendron tulipifera	22	Specimen	
186	QUAL	White Oak	Quercus alba	19	Specimen	
187	QUAL	White Oak	Quercus alba	23	Specimen	
188	QUAL	White Oak	Quercus alba	16	Specimen	
189	QUAL	White Oak	Quercus alba	20	Specimen	
190	QUAM	Blackjack Oak	Quercus marilandica	20	Specimen	
191	LITU	Tulp Poplar	Liriodendron tulipifera	18	Specimen	
192	LITU	Tulp Poplar	Liriodendron tulipifera	17	Specimen	
193	LITU	Tulp Poplar	Liriodendron tulipifera	19	Specimen	
194	QUAL	White Oak	Quercus alba	14	Specimen	
195	QUAL	White Oak	Quercus alba	24	Rare	
196	QUAL	White Oak	Quercus alba	14	Specimen	
197	QUAL	White Oak	Quercus alba	16	Specimen	
198	QUAL	White Oak	Quercus alba	22	Specimen	
199	QUAL	White Oak	Quercus alba	16	Specimen	
200	LITU	Tulp Poplar	Liriodendron tulipifera	28	Rare	
201	CARYA	Hickory	Carya species	20	Specimen	
202	CATO	Mockernut Hickory	Carya tomentosa	18	Specimen	
203	LITU	Tulp Poplar	Liriodendron tulipifera	37	Rare	
204	CARYA	Hickory	Carya species	15	Specimen	
205	QUAL	White Oak	Quercus alba	21	Specimen	
206	LITU	Tulp Poplar	Liriodendron tulipifera	27	Rare	
207	LITU	Tulp Poplar	Liriodendron tulipifera	26	Rare	
208	LITU	Tulp Poplar	Liriodendron tulipifera	20	Specimen	
209	QUAL	White Oak	Quercus alba	21	Specimen	
210	LITU	Tulp Poplar	Liriodendron tulipifera	39	Rare	
211	LITU	Tulp Poplar	Liriodendron tulipifera	21	Specimen	
212	LITU	Tulp Poplar	Liriodendron tulipifera	13	Specimen	
213	LITU	Tulp Poplar	Liriodendron tulipifera	14	Specimen	
214	LITU	Tulp Poplar	Liriodendron tulipifera	13	Specimen	
215	LITU	Tulp Poplar	Liriodendron tulipifera	16	Specimen	
216	QUAL	White Oak	Quercus alba	16	Specimen	
217	LITU	Tulp Poplar	Liriodendron tulipifera	20	Specimen	
218	LITU	Tulp Poplar	Liriodendron tulipifera	21	Specimen	
219	LITU	Tulp Poplar	Liriodendron tulipifera	20	Specimen	
220	LITU	Tulp Poplar	Liriodendron tulipifera	12	Specimen	
221	LITU	Tulp Poplar	Liriodendron			



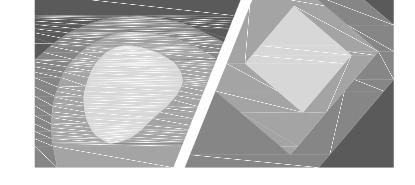


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**SLOPE LEGEND**

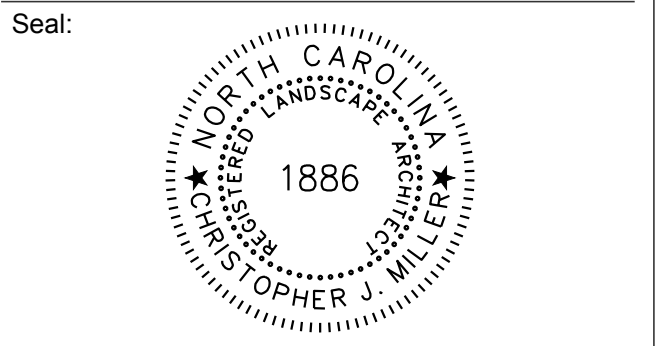
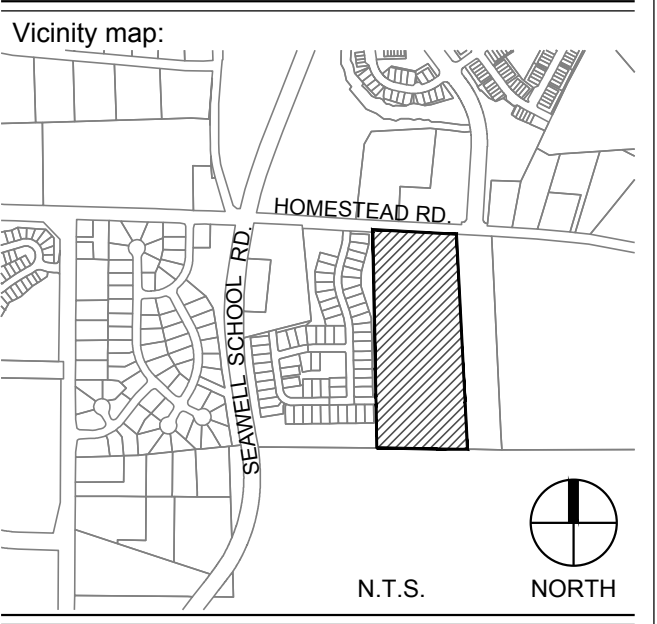
	0% - 10% SLOPES (323,480 SQFT)
	10% - 15% SLOPES (0 SQFT)
	15% - 25% SLOPES (0 SQFT)
	25% AND GREATER (61,723 SQFT)



**STEWART**  
 421 FAYETTEVILLE ST., SUITE 400 FIRM LICENSE # C-1051  
 RALEIGH, NC 27601 www.stewartinc.com  
 T 919.380.8750 PROJECT # C17104

Client:  
 GLMH-2, LLC  
 121 S. ESTES DRIVE SUITE 100  
 CHAPEL HILL, NC 27514

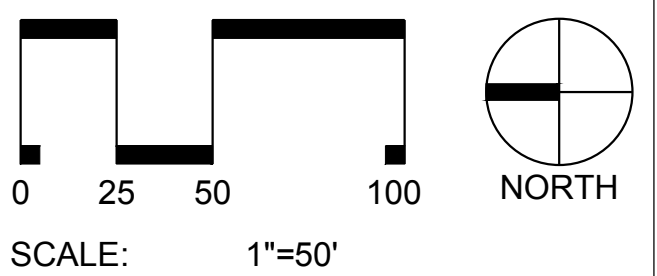
Project:  
**INDEPENDENT SENIOR HOUSING CHAPEL HILL**



PRELIMINARY - DO NOT USE FOR CONSTRUCTION

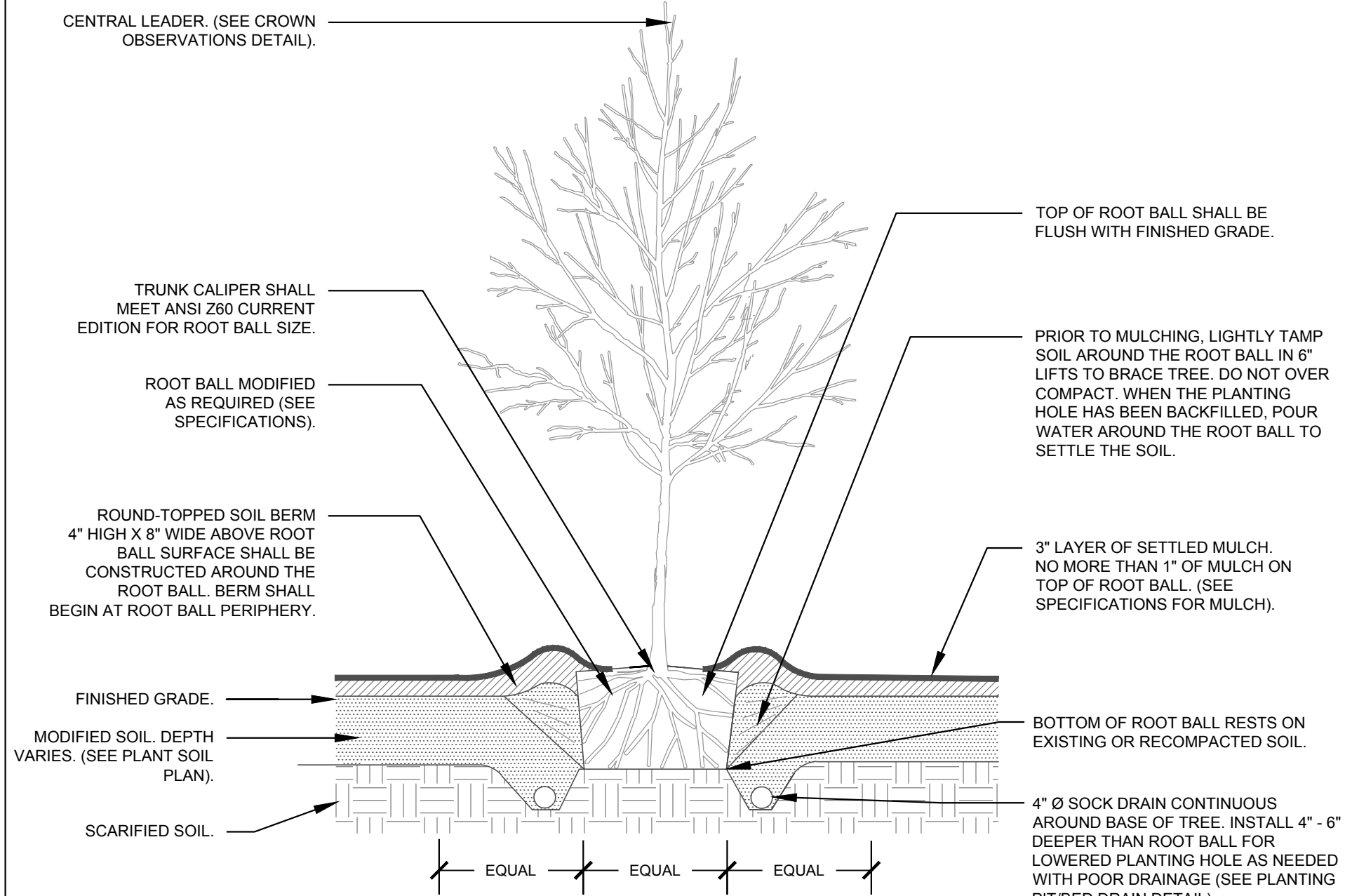
Issued for:  
**SUP SUBMITTAL**

No.	Date	Description

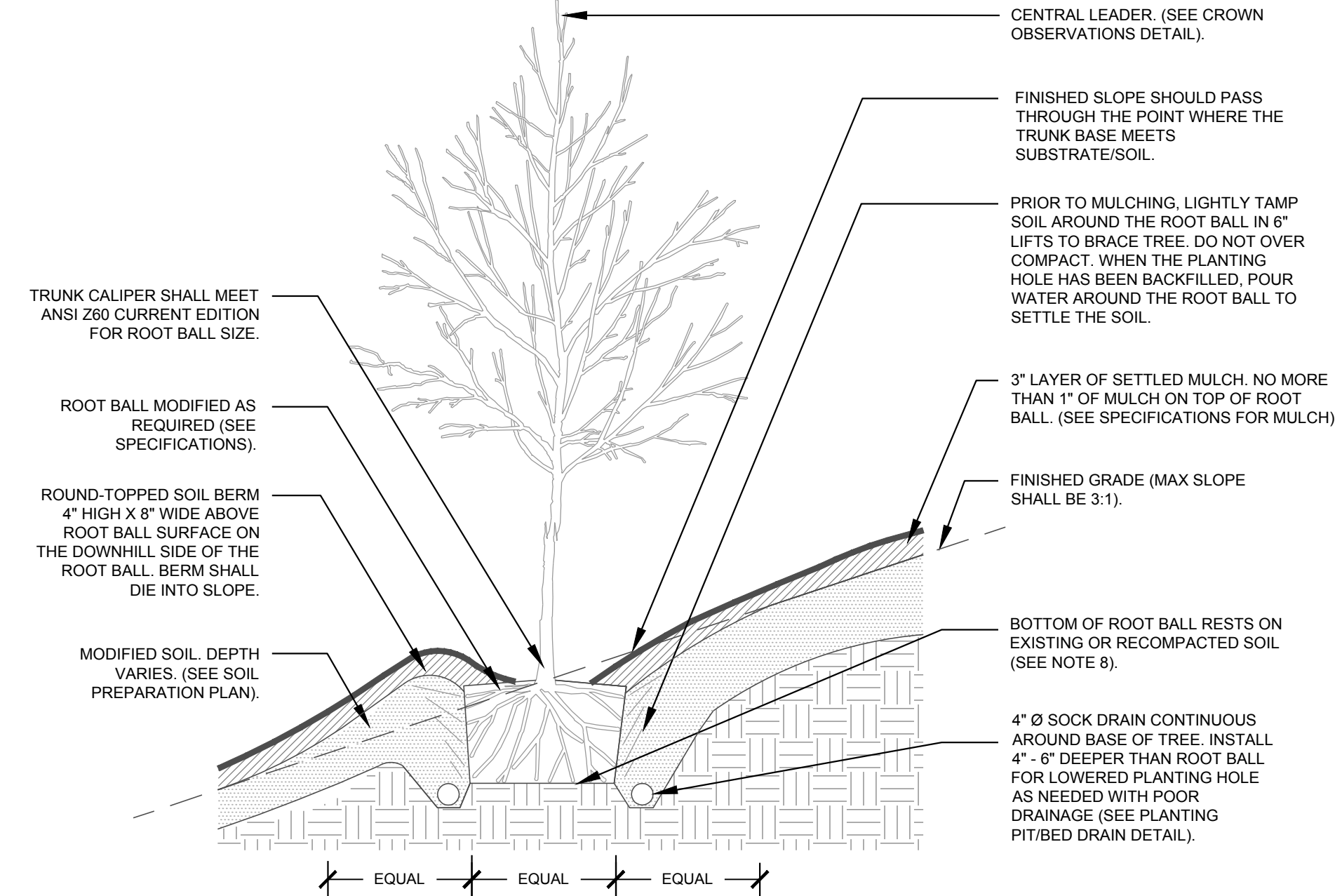


Title:  
**STEEP SLOPE PLAN**

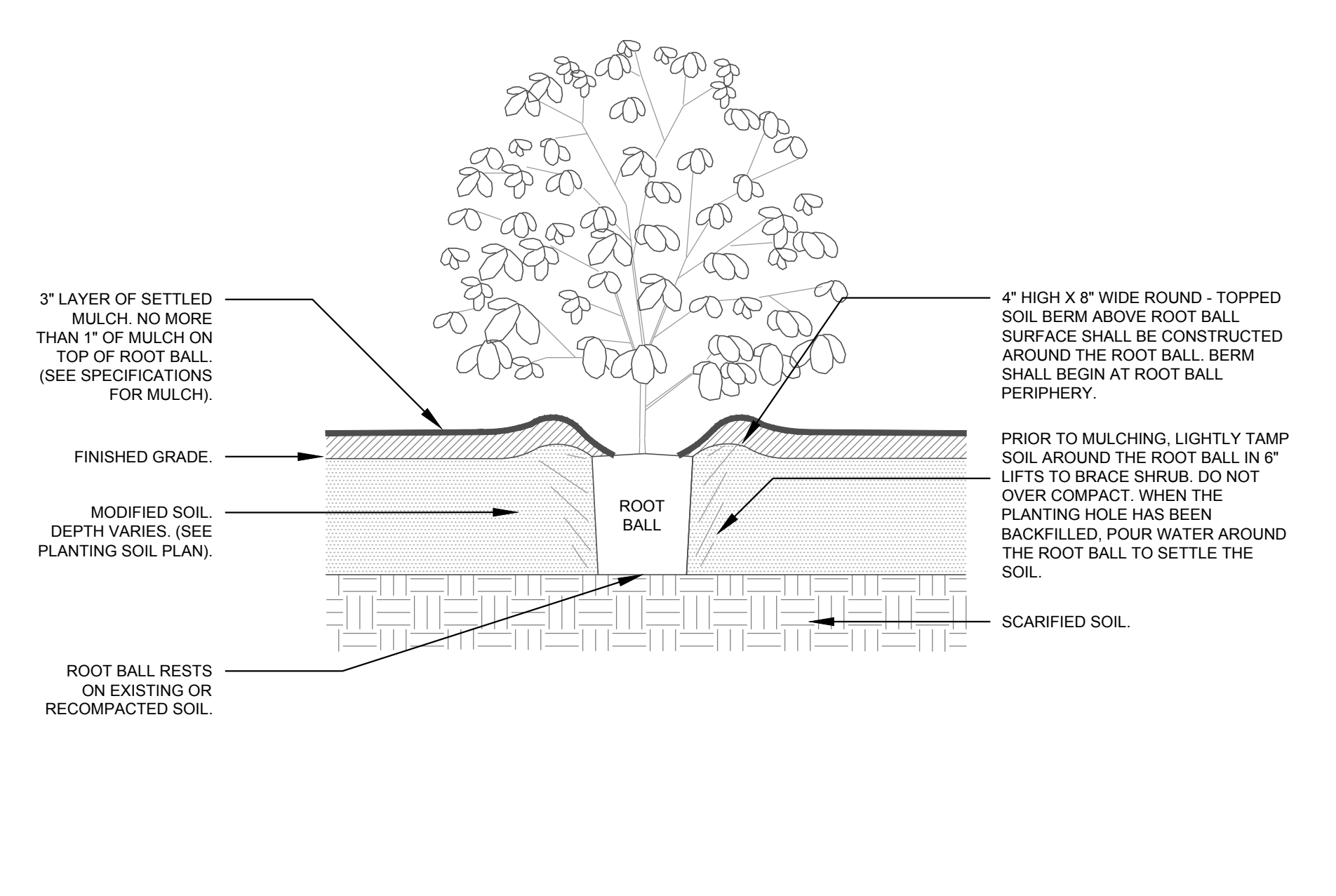
Project number: C17004 Sheet:  
 Date: 09.27.2017  
 Drawn by: DG/RS  
 Approved by: CJM **L1.20**



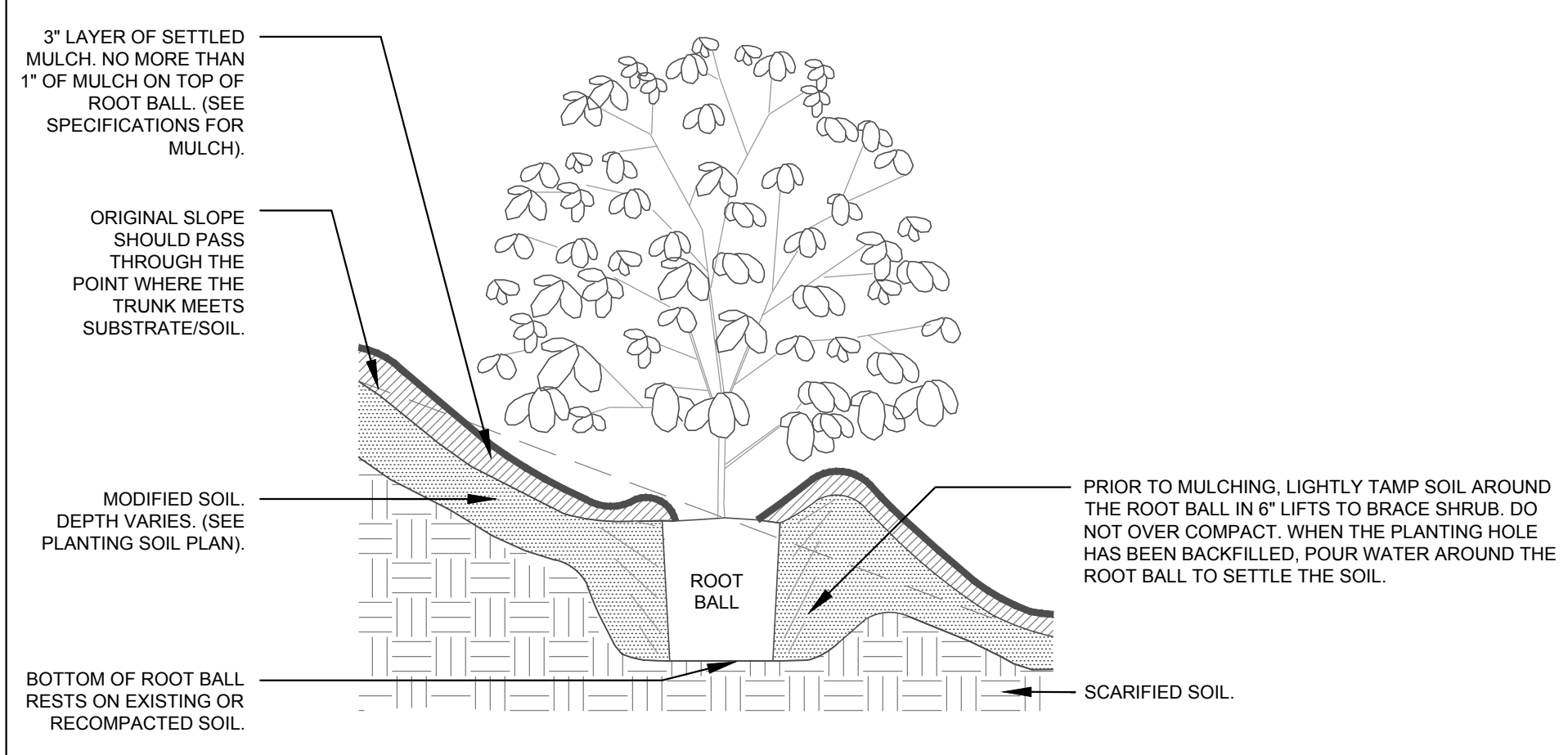
1 TREE (TYPICAL) SECTION NTS



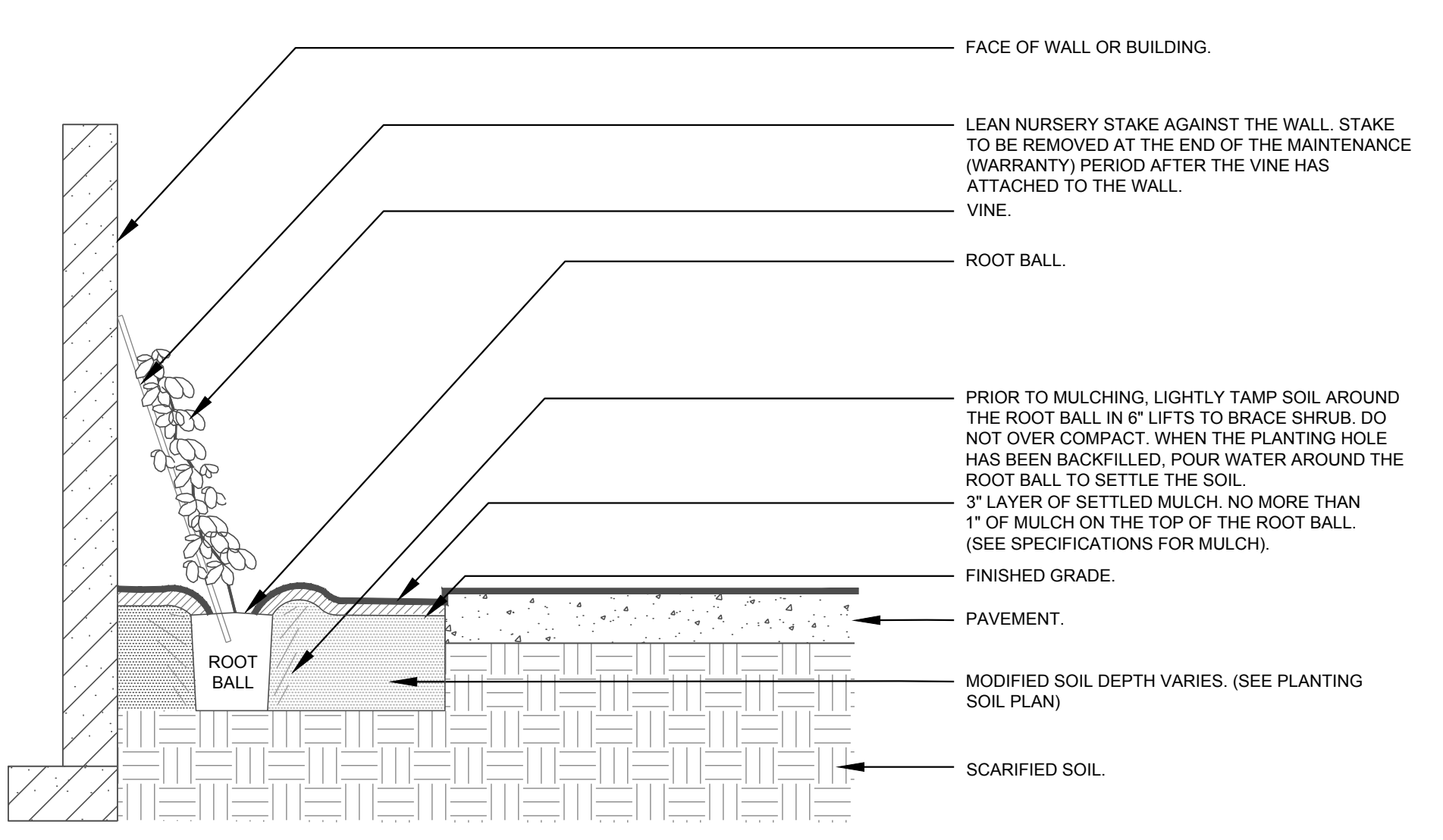
2 TREE ON SLOPE (TYPICAL) SECTION NTS



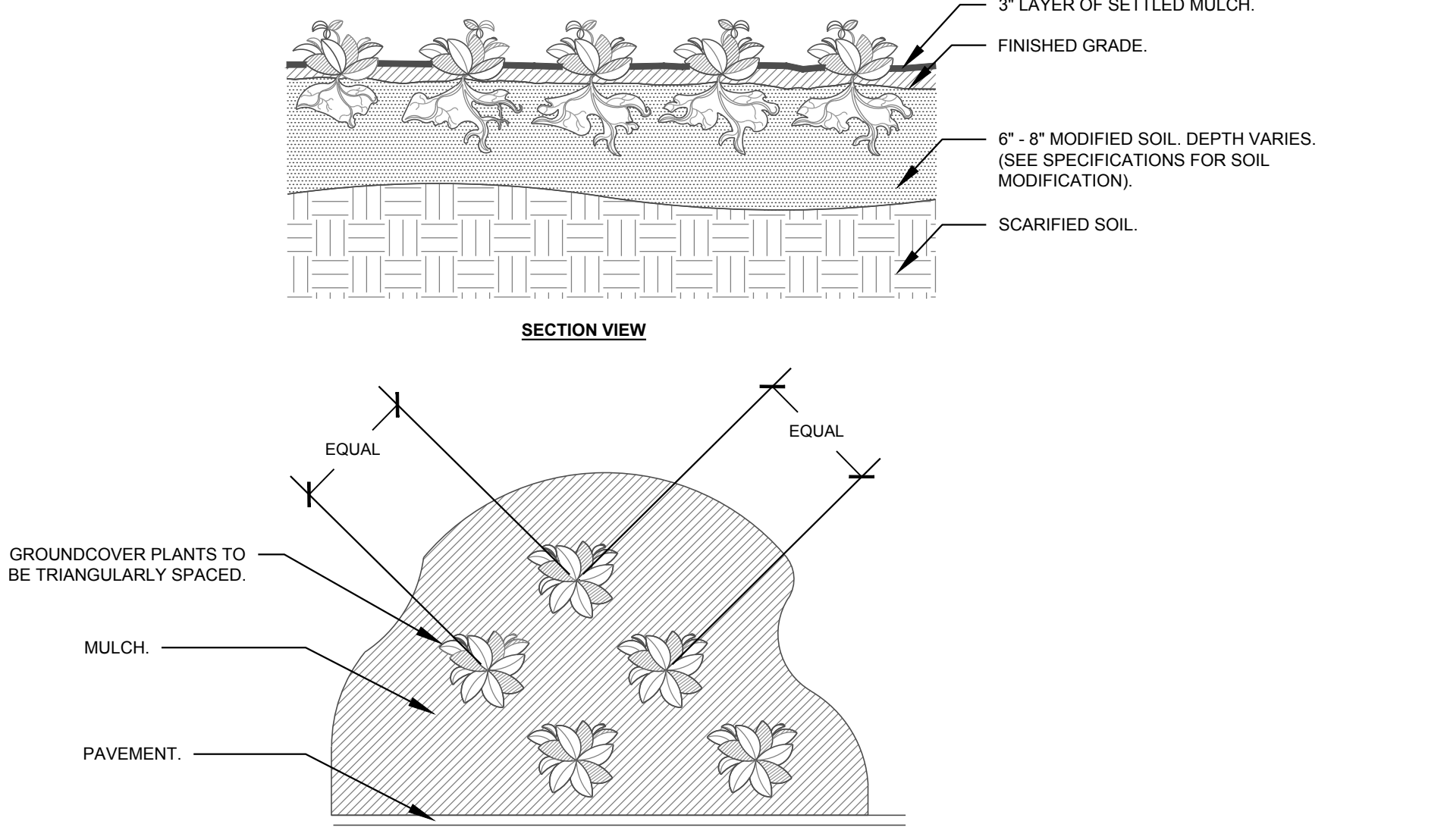
3 SHRUB (TYPICAL) SECTION NTS



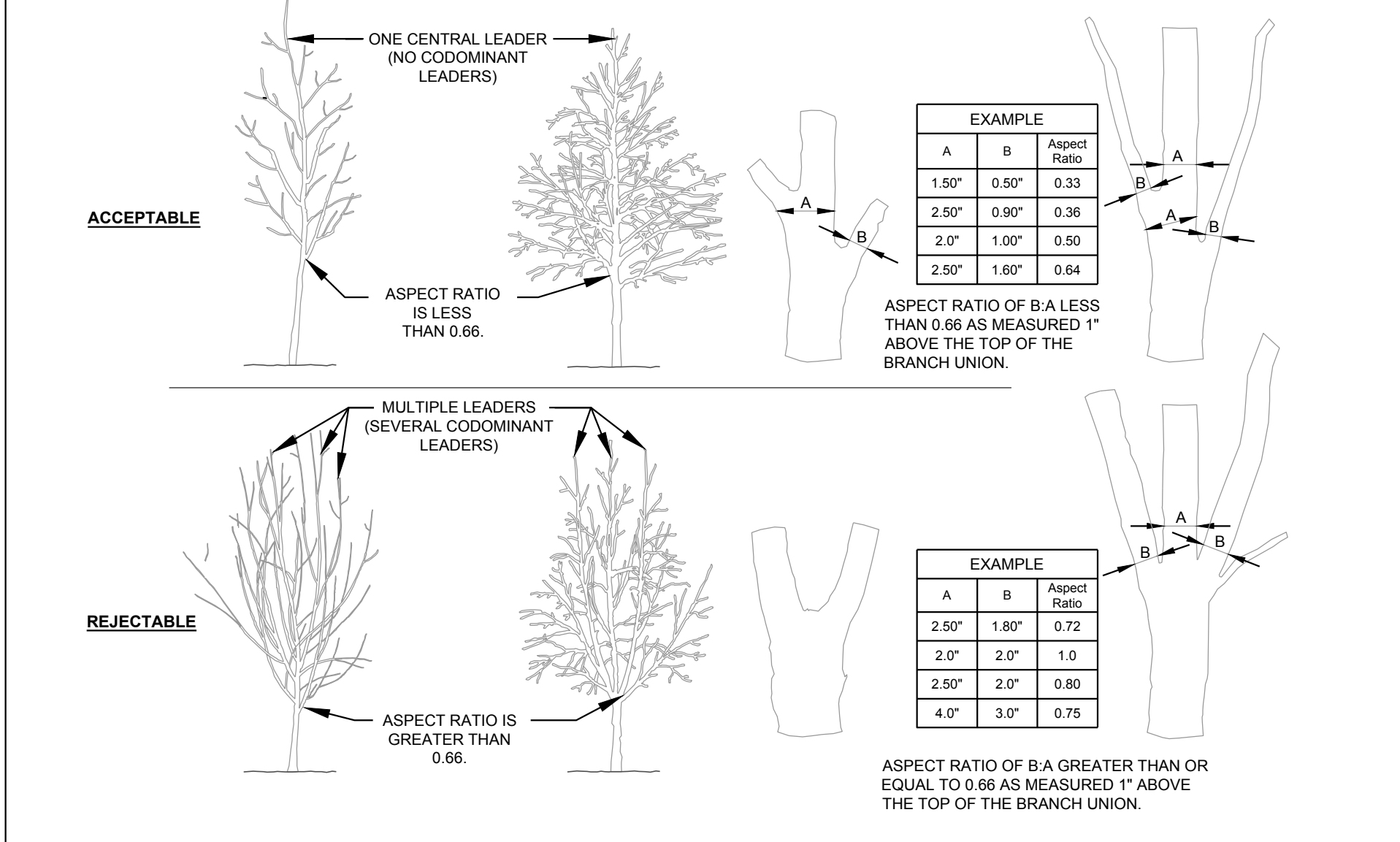
4 SHRUB ON SLOPE (TYPICAL) SECTION NTS



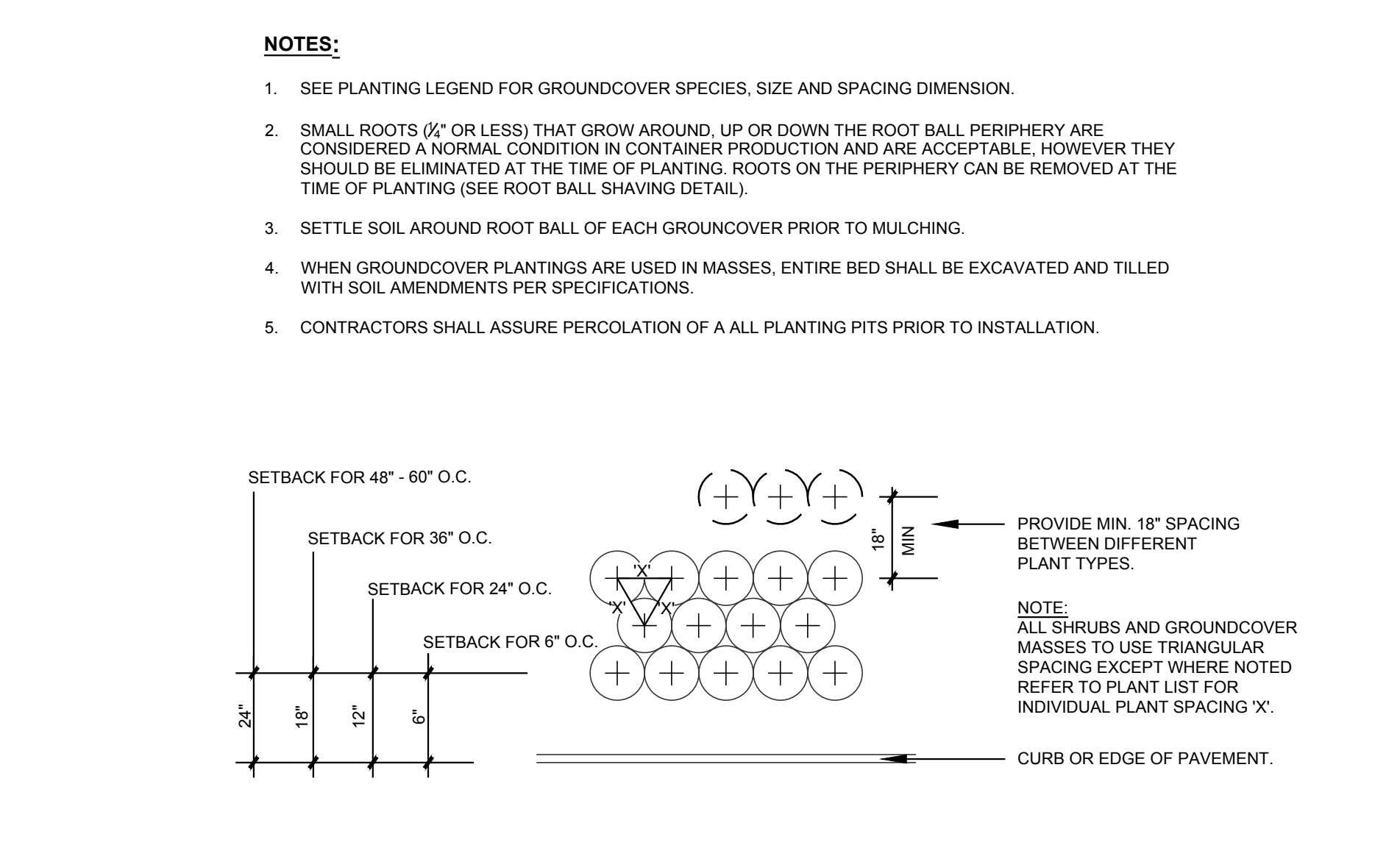
5 VINE (TYPICAL) SECTION NTS



6 GROUNDCOVER PLANTING (TYPICAL) PLAN NTS



7 CROWN OBSERVATIONS - HIGH BRANCHED SECTION NTS



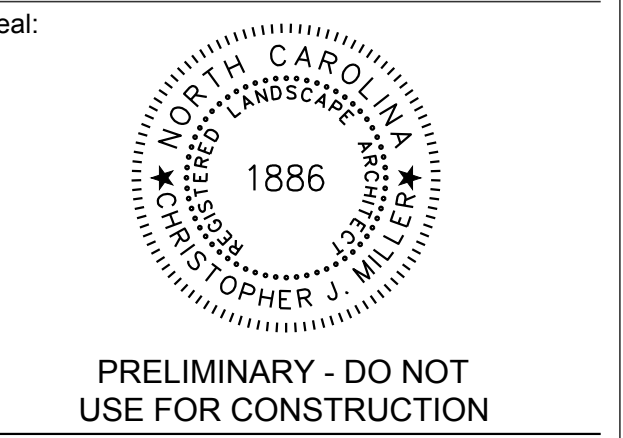
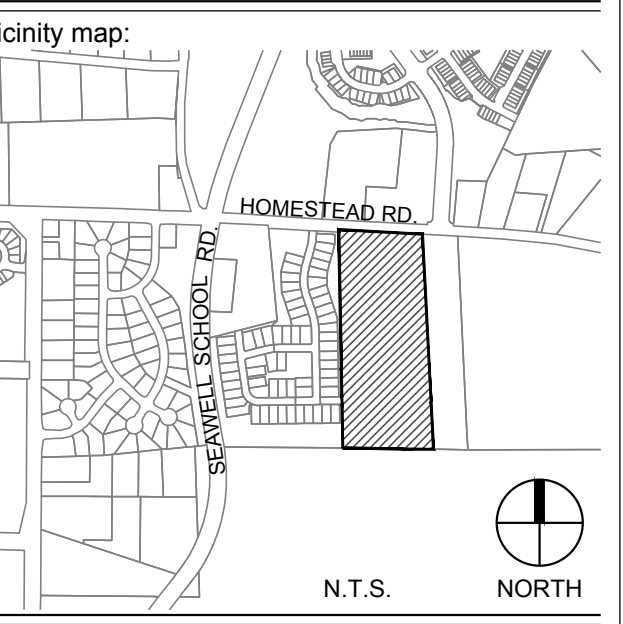
8 SHRUB AND GROUNDCOVER SPACING PLAN NTS

- PLANTING NOTES:**
- DO NOT STAKE TREES EXCEPT WHERE SPECIFIED BY LANDSCAPE ARCHITECT. STAKING IS REQUIRED FOR TREES PLANTED ON SLOPES.
  - WHERE SEVERAL TREES WILL BE PLANTED CLOSE TOGETHER SUCH THAT THEY WILL LIKELY SHARE ROOT SPACE, TILL IN SOIL AMENDMENTS TO A DEPTH OF 4-6\"/>

9 PLANTING NOTES

Client:  
 GLMH-2, LLC  
 121 S. ESTES DRIVE SUITE 100  
 CHAPEL HILL, NC 27514

**INDEPENDENT SENIOR HOUSING CHAPEL HILL**



PRELIMINARY - DO NOT USE FOR CONSTRUCTION

**SUP SUBMITTAL**

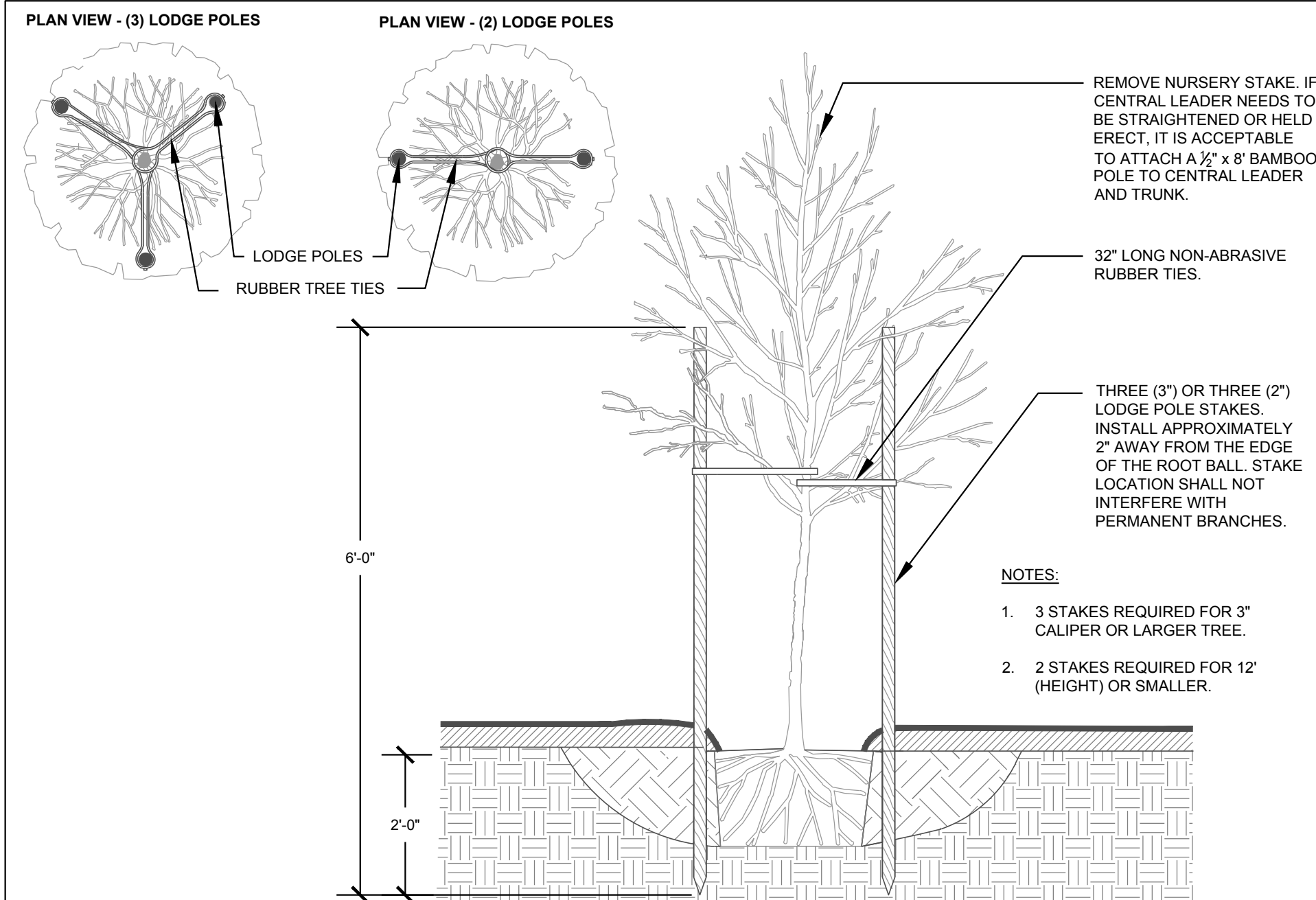
No.	Date	Description

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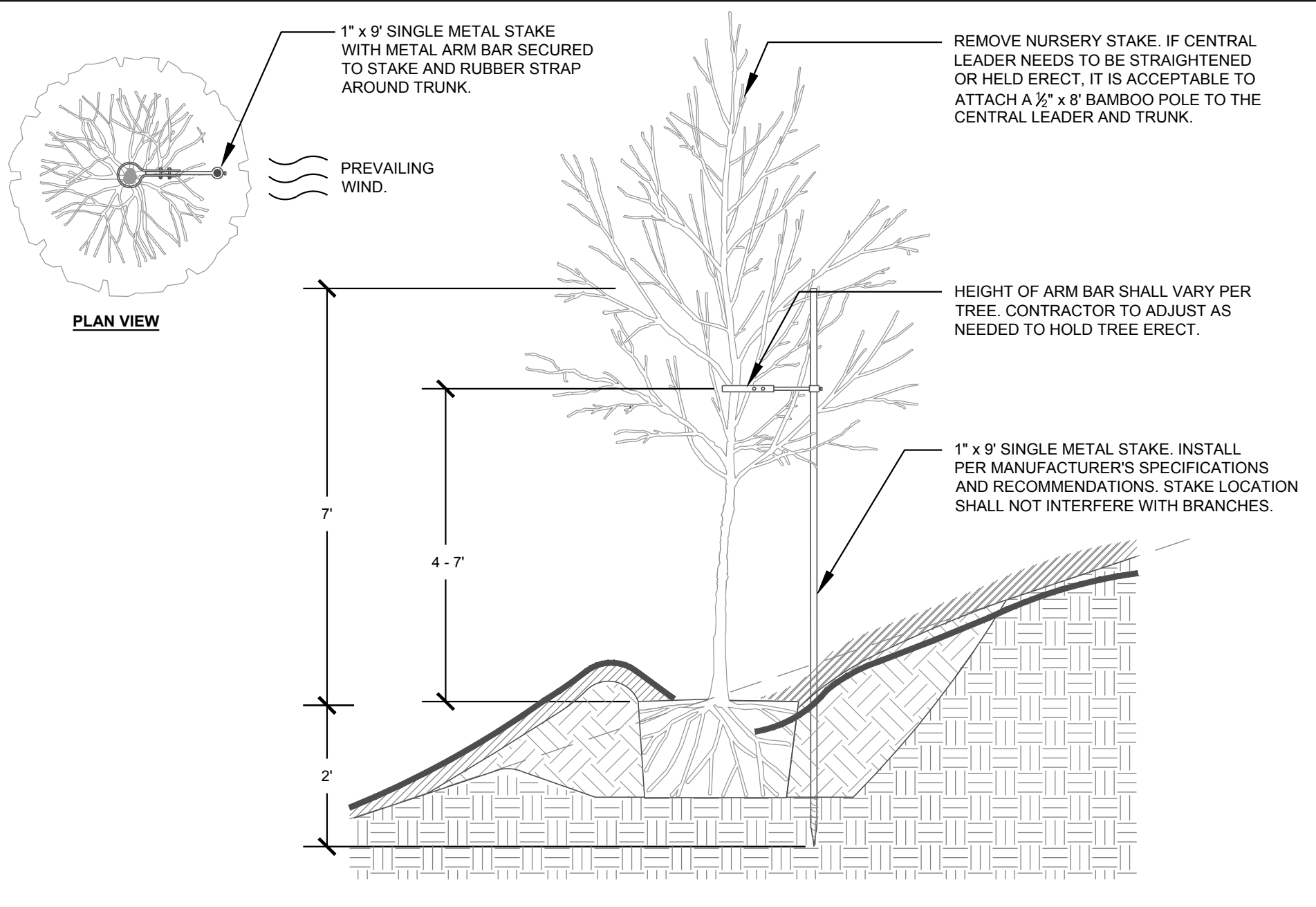
**LANDSCAPE DETAILS**



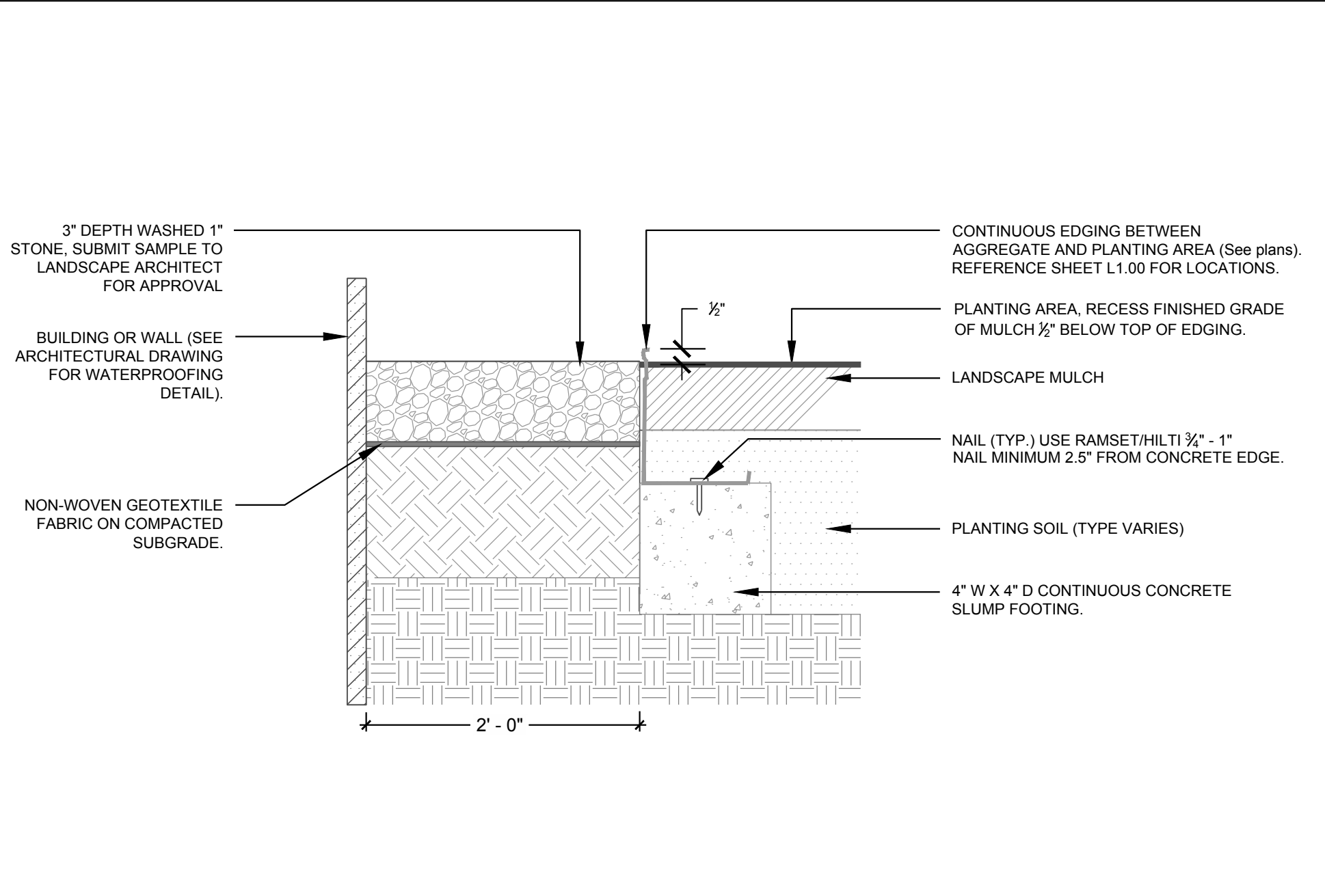




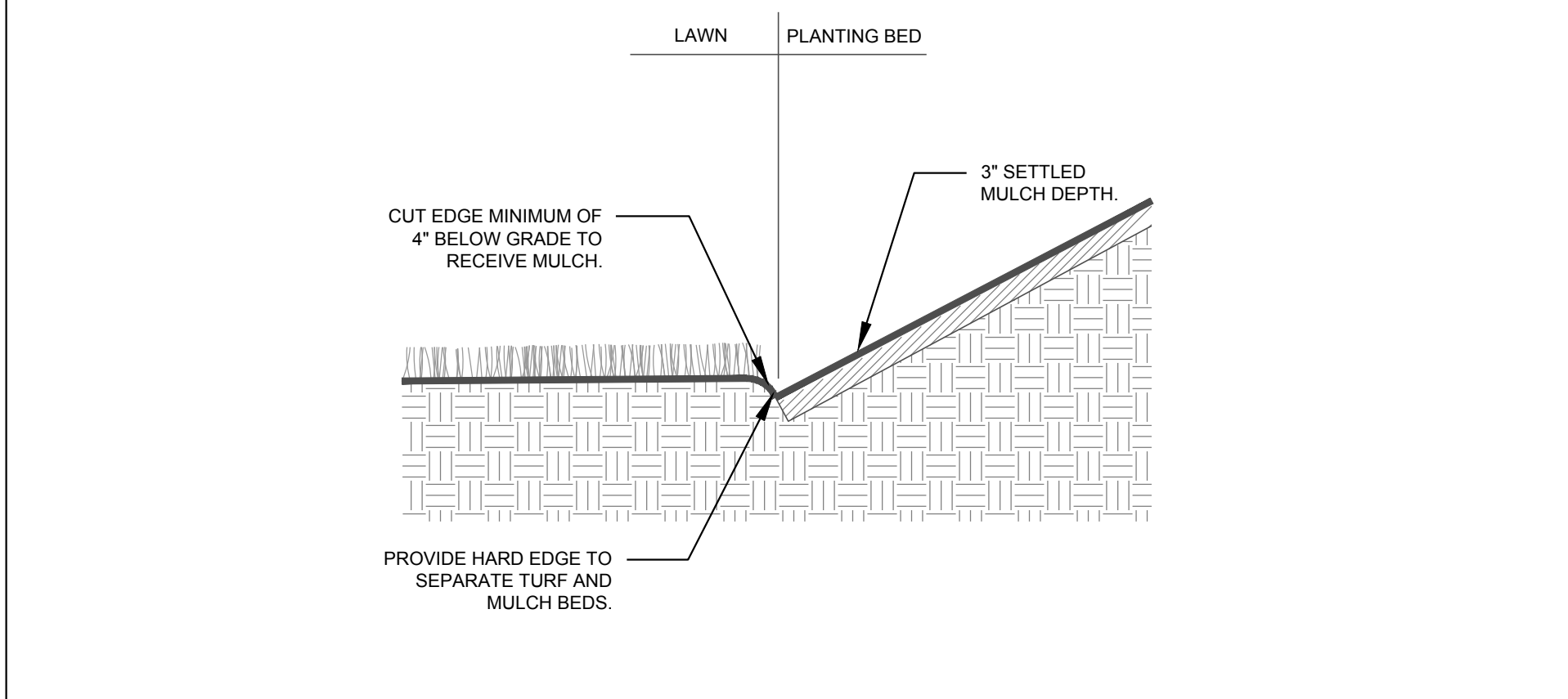
**1** TREE STAKING - LODGE POLES SECTION NTS



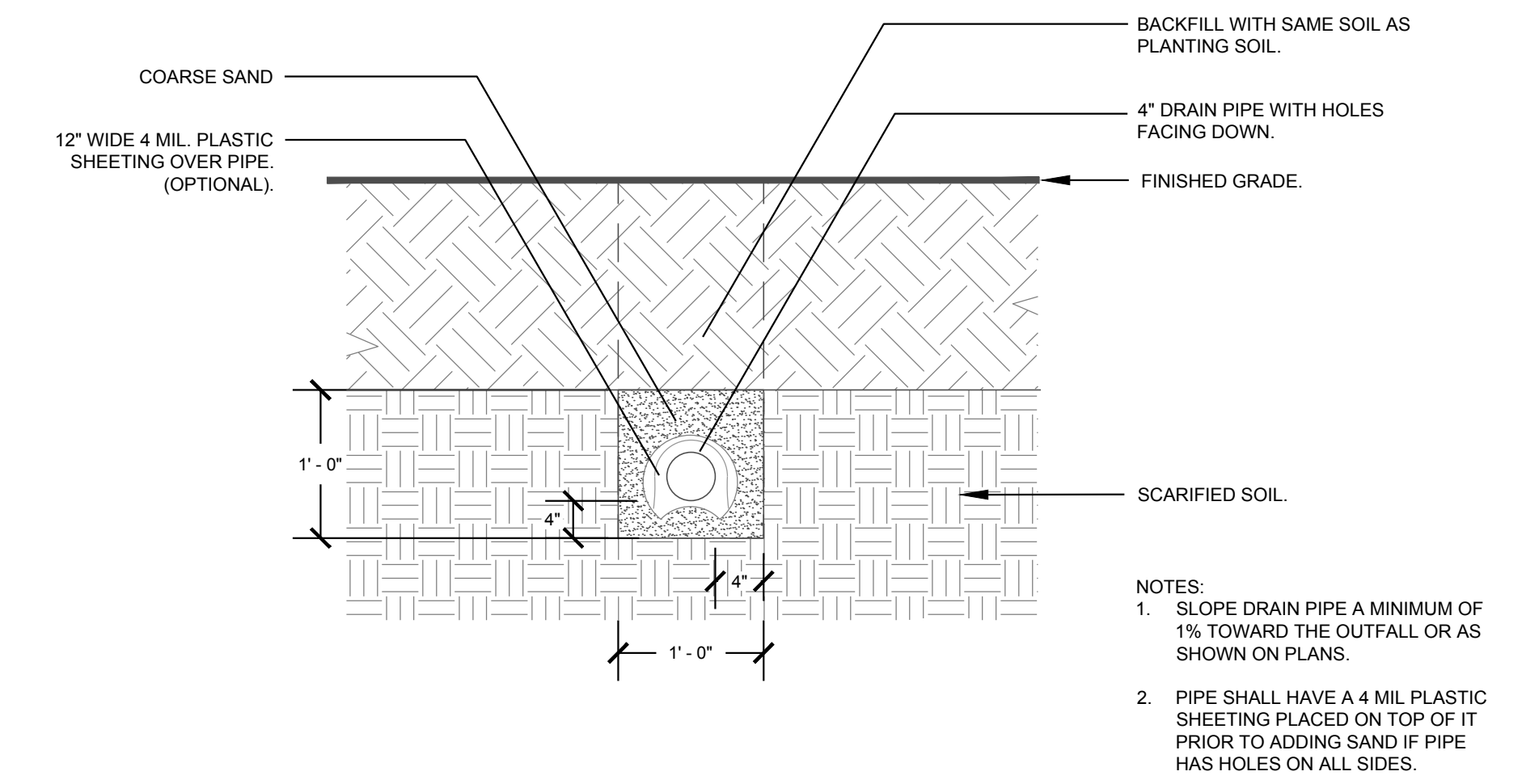
**2** TREE STAKING - ON SLOPE SECTION NTS



**3** GRAVEL BAND WITH STEEL EDGING SECTION NTS



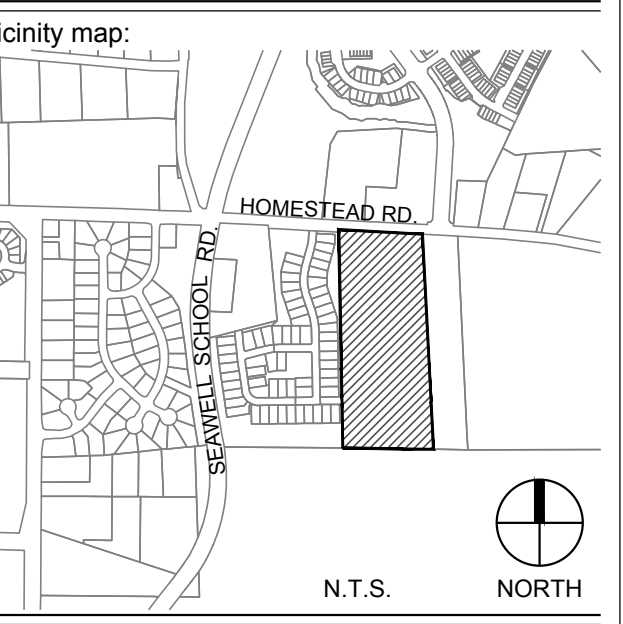
**4** LAWN / PLANT BED TRENCH EDGING SECTION NTS



**5** PLANTING PIT / BED DRAIN DETAIL SECTION NTS

Client:  
 GLMH-2, LLC  
 121 S. ESTES DRIVE SUITE 100  
 CHAPEL HILL, NC 27514

Project:  
**INDEPENDENT SENIOR HOUSING CHAPEL HILL**



Seal:  
  
 PRELIMINARY - DO NOT USE FOR CONSTRUCTION

Issued for:  
**SUP SUBMITTAL**

No.	Date	Description

SCALE: N.T.S.

Title:  
**LANDSCAPE DETAILS**

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