CURVE DATA CURVE NATHN-1 CURVE NATHN-2 P.I. 10+98.74 P.I. 12+48.11 PC 10+60.87 PC 12+10.23 PT 11+35.47 PT 12+84.84 Δ 24° 25′ 29″ (RT) D 32° 44′ 26′ D 32° 44′ 26″ R 175.000 R 175.000 74.601 . 74.601 T 37.876 T 37.876 Certification of Concept Plan. I hereby certify that I am a registered engineer, licensed to practice engineering under the laws of the State of Tennessee. I further certify that the plan and accompanying drawings, documents and statements conform to all applicable provisions of the Knoxville-Knox County Subdivision Regulations except as has been itemized and described in a report filed with the Metropolitan Planning Commission. Jaron MK Registered Engineer___(/____ -7-A Tennessee Certificate No. 104281 I HEREBY CERTIFY THAT THE RECOMMENDED SIGHT DISTANCE OF 250 FEET CAN BE ACHIEVED IN BOTH DIRECTIONS ALONG LONAS DRIVE FROM THE PROPOSED ENTRANCE ____ AASHTO STANDARDS: LONAS DRIVE (35 MPH SPEED LIMIT) STOPPING SIGHT DISTANCE = 250 FEET **INTERSECTION SIGHT DISTANCE = 330 FEET** MEASURED SIGHT DISTANCE RIGHT = 640 FEET 0,T LEFT = 723 FEETPROPOSED PRIVATE ROADS (20 MPH SPEED LIMIT) STOPPING SIGHT DISTANCE = 115 FEET **INTERSECTION SIGHT DISTANCE = 225 FEET** ALTERNATIVE DESIGN STANDARDS: 1) PRIVATE ROAD WITH 40' R.O.W. AND 20' PAVEMENT 2) INTERSECTION GRADE FROM 1% TO 3% AT LONAS DRIVE AND NATHAN SPRINGS WAY. 3) INTERSECTION GRADE FROM 1% TO 3% AT NATHANS COVE WAY AND NATHANS SPRINGS WAY VARIANCES: 1) REDUCTION OF INTERSECTION SPACING FROM 300 FEET TO 125 FEET BETWEEN SHIRLEY WAY AND NATHAN SPRINGS WAY. WAIVERS: 1) CLOSURE OF DRAINAGE AND UTILITY EASEMENTS FOR DETENTION EASEMENTS AND ALONG SOUTH LINE OF LOT 14. PRELIMINARY LOT AREAS SUMMARY (30% max) TOTAL HOUSE BUILDING IMPERVIOUS IMPERVIOUS <u>LOT NO</u> AREA (SQ FT) AREA (SQ FT) COVERAGE AREA (SQ FT) 5,397 2148 1200 1 22% 2148 5,493 1200 22% 2 5,500 1200 22% 3 2148 5,500 2148 1200 22% 4 5,500 2148 1200 22% 5 6 5,500 1200 22% 2148 5,570 2148 1200 22% 7 6,140 2148 8 1200 20% 10,271 1200 2924 9 12% 1200 2970 10 8,518 14% 6,810 1200 2148 11 18% 6,746 2148 12 1200 18% 6,759 13 1200 2148 18% 8,508 1200 2148 14 14% RGĆ&A NO. DATE DESCRIPTION ΒY CKD REVISIONS

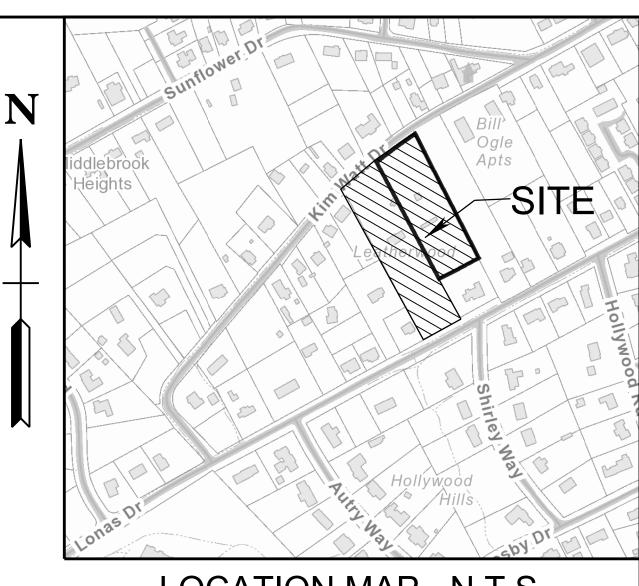


OWNER/DEVELOPER: RAINIER SERVICES, LLC 7017 HARTWINN LANE KNOXVILLE, TN 37918 DAVID DROZHZHIN (865) 200-9521

OWNER: BILL A. KING 5132 BUCKHEAD TRAIL KNOXVILLE, TN 37919

ENGINEER: ROBERT G. CAMPBELL AND ASSOCIATES 7523 TAGGART LANE KNOXVILLE, TN 37938 PHONE: (865) 947-5996 FAX: (865) 947-7556

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LOCATION MAP - N.T.S.

NOTES:

- 1) EXISTING CONTOURS FROM K.G.I.S.
- 2) THE HOMEOWNERS ASSOCIATION OR OTHER LEGAL ENTITY SHALL BE ESTABLISHED TO ADDRESS MAINTENANCE OF THE PRIVATE RIGHT OF WAY.
- 3) ACCESS TO ALL UNITS FROM INTERNAL ROAD SYSTEM ONLY. ROADWAYS TO BE PRIVATE RIGHT-OF-WAYS. DESIGN SPEED LIMIT FOR SUBDIVISION IS 20 MPH DETENTION ACCESS TO BE FROM NATHAN SPRINGS WAY.
- 4) A UTILITY AND DRAINAGE EASEMENT TO BE PLATTED TEN (10) FEET IN WIDTH INSIDE ALL EXTERIOR LOT LINES ADJOINING STREETS AND PRIVATE RIGHTS-OF-WAY. A UTILITY AND DRAINAGE EASEMENT TO BE PLATTED FIVE (5) FEET IN WIDTH ALONG ALL OTHER EXTERIOR LOT LINES AND ALONG BOTH SIDES OF ALL INTERIOR LOT LINES, EXCEPT FOR ZERO LOT LINES FOR ATTACHED UNITS.
- 5) LOCATION OF MAILBOXES TO BE COORDINATED WITH THE U.S. POSTAL SERVICE.
- 6) BASED ON GEOTECHNICAL INVESTIGATION, THE DEPRESSION AREA LOCATED ON LOTS 8 & 9 IS NOT A KARST FEATURE.
- 7) STANDARD DRAINAGE AND UTILITY EASEMENT TO BE CLOSED IN THE AREA OF DETENTION POND.
- 8) 1) EXCAVATE PERMANENT STORMWATER DETENTION PONDS IN ADVANCE OF CONSTRUCTION, AND USE AS SEDIMENT BASINS DURING CONSTRUCTION. REMOVE ACCUMULATED SEDIMENT AND INSTALL PERMANENT OUTLET STRUCTURES WHEN THE UPSTREAM DRAINAGE AREAS ARE STABILIZED.
- 9) LOCATIONS OF UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. THERE MAY BE OTHER UTILITIES NOT SHOWN. PRIOR TO ANY EXCAVATION, THE OWNER AND/OR CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE LOCAL UTILITY AUTHORITIES FOR EXACT LOCATIONS AND DEPTHS.
- 10) A 15' SANITARY SEWER EASEMENT EXISTS ALONG SANITARY SEWER LINE, 7.5' EACH SIDE AS INSTALLED.
- 11) THE OWNER IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF CONSTRUCTION SITE POLLUTION PREVENTION CONTROLS THROUGHOUT THE LIFE OF THE PROJECT.
- 12) LANDSCAPING SHALL COMPLY WITH ALL ASPECTS OF THE CITY OF KNOXVILLE TREE PROTECTION ORDINANCE.
- 13) SIGHT DISTANCE HAS BEEN EVALUATED AND DESIGNED PER AASHTO STANDARDS.
- 14) PAVEMENT STRIPING TO COMPLY WITH CITY OF KNOXVILLE STANDARD SPECIFICATIONS TS40 & TS41.
- 15) SIGNAGE TO COMPLY WITH MUTCD AND CITY OF KNOXVILLE STANDARDS.

CLT MAP: 107C GROUP B PARCELS: 34.01 & 35

PLAT REFERENCE: 202210310026251 17-9

DEED REFERENCE: 202309080033963 2172/865

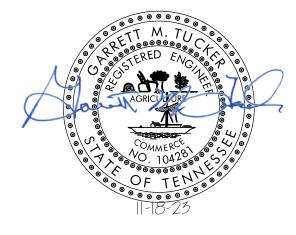
TOTAL AREA: 3.30 ACRES

PRIVATE STREET: 27,120 SQ FT (0.58 AC)

NUMBER OF LOTS: 14 PROPERTY ZONED: RN-2 (PENDING)

PLANNING SERVICES FILE NUMBER: 12-SB-23-C

GENERAL LAYOUT	DESIGNED BY GMT	CHECKED BY RGC	SCALE 1″ = 40′	SHEET ONE NO. (1)
PLAN VIEW	DRAWN BY GMT	DATE 11-18-23	FILE NO. 23137	OF 2 SHEETS



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