

SUBDIVISION REPORT - CONCEPT

3-SC-19-C ► FILE #: AGENDA ITEM #: 6

POSTPONEMENT(S): 4/11/2019 **AGENDA DATE:** 5/9/2019

SUBDIVISION: HISTORIC MIDDLEBROOK PRESERVATION TRUST

APPLICANT/DEVELOPER: MARK A. BIALIK / GBS ENGINEERING

Rick Fox / Historic Middlebrook Preservation Trust. Inc. OWNER(S):

TAX IDENTIFICATION: 93 K B 002 View map on KGIS

JURISDICTION: City Council District 6 STREET ADDRESS: 4001 Middlebrook Pike

► LOCATION: East side of Ed Shouse Dr., West side of I-640, North of Middlebrook Pk.

SECTOR PLAN: Northwest City

GROWTH POLICY PLAN: Urban Growth Area (Inside City Limits)

WATERSHED: Third Creek APPROXIMATE ACREAGE: 58.42 acres

ZONING: C-6 (General Commercial Park) / F-1 (Floodway)

Vacant land EXISTING LAND USE:

PROPOSED USE: **Business / warehouse development**

SURROUNDING LAND This property is located in the industrial and manufacturing area along Middlebrook Pike in the C-6 and I-3 zones. The property is part of the **USE AND ZONING:**

historic Middlebrook property. The historic house (circa 1845) and old barn

structures are located in the A-1 zoned property to the south.

NUMBER OF LOTS: 2

Mark A. Bialik / GBS Engineering SURVEYOR/ENGINEER:

Access is via Ed Shouse Dr., a major arterial with central median within 250' ACCESSIBILITY:

of right-of-way.

SUBDIVISION VARIANCES

REQUIRED:

STAFF RECOMMENDATION:

APPROVE the Concept Plan subject to 7 conditions.

- 1. Connection to sanitary sewer and meeting any other relevant requirements of the Knox County Health Department.
- 2. Provision of street names which are consistent with the Uniform Street Naming and Addressing System within Knoxville (City Ord. 0-280-90).
- 3. Implementing the required recommendations of the Historic Middlebrook Transportation Impact Study as prepared by Ajax Engineering, dated April 22, 2019, and as amended and approved by the City of Knoxville Department of Engineering.
- 4. Access to all lots shall be from the internal road system for the subdivision, excluding the portion of the property zoned A-1 (General Agricultural).
- 5. Installing all sidewalks shown on the development plan in accordance with the requirements of the

AGENDA ITEM #: 6 FILE #: 3-SC-19-C 5/1/2019 04:19 PM MIKE REYNOLDS PAGE #: 6-1 Americans with Disabilities Act (ADA) and the City of Knoxville Department of Engineering.

- 6. Meeting all applicable requirements of the Knoxville Department of Engineering.
- 7. Meeting all applicable requirements of the Knoxville Zoning Ordinance.

With the recommended conditions noted above, this concept plan meets all requirements for approval.

COMMENTS:

This proposal is to subdivide this 58.4 acre property into 2 lots, approximately 25 acres will become an office warehouse development with access to Ed Shouse Drive and the remainder will remain with the historic Middlebrook property. There will be one new public road with a minimum 30' pavement width and 50' right-of-way with a 25 mph design speed. The road will terminate in a cul-de-sac and there will be a sidewalk on one side of the street. The subdivision regulations require a 75' radius for ROW and curbs in Commercial and Industrial zones, however, this can be reduced to 50' with approval by the Knoxville Department of Engineering. The radius on the south side of the new road intersection is 55', however, is part of a deceleration taper which effectively functions as a larger turn radius. The applicant proposes to move an existing median curb cut to the south to align with the new road. The proposed office warehouse development is a permitted use within the C-6 zone and the development plan will be administratively reviewed by Planning staff.

The existing median opening proposed to be closed on Ed Shouse Drive is located approximately 400 feet to the south of the CSX Railroad overpass. A new median opening will be constructed on Ed Shouse Drive at the new Historic Middlebrook Driveway and will be approximately 340 feet to the south of the existing median opening. It will also be approximately 435 feet to the north of the existing median opening that is provided for the main KUB driveway. According to TDOT's Roadway Design Guidelines the desirable median opening spacing for an urban environment is 660 feet. However, it also states that a range of 440 feet to 880 feet is acceptable. Based on a TDOT minimum median spacing of 440 feet, the proposed location of the new median opening on Ed Shouse Drive will be 5 feet below the minimum at 435 feet. The traffic engineer that developed the Traffic Impact Study (TIS) states it is not expected that this spacing shortfall of 5 feet will create a safety issue.

The required sight distance along Ed Shouse Drive from the new road intersection is 1,220 feet for semi-trailers on a divided median road with a design speed of 55 mph. The sight distance is available looking to the south is attainable, however, it is not attainable to the north. To remediate the sight distance concern for vehicles turning southbound (left) onto Ed Shouse Drive, the TIS recommends installing a southbound left turn entering median lane to allow semi-trailers to stop in the median as necessary and accelerate before entering the travel lanes. To improve sight distance, the TIS also recommends removing the existing trees in the median that are within the sight distance triangle. This will require approval from the City of Knoxville Urban Forester and potentially remediation by planting trees in other locations of need.

The design of the median opening and turn lanes is similar to the existing opening to the north at Faclonite Way. The median opening separates left turning movements in the median with a triangular-shaped depressed island. It is recommended that the new median opening for Historic Middlebrook be constructed in a similar manner to help separate the left turning movements at the intersection and restrict thru motorists on Ed Shouse Drive from attempting u-turn maneuvers.

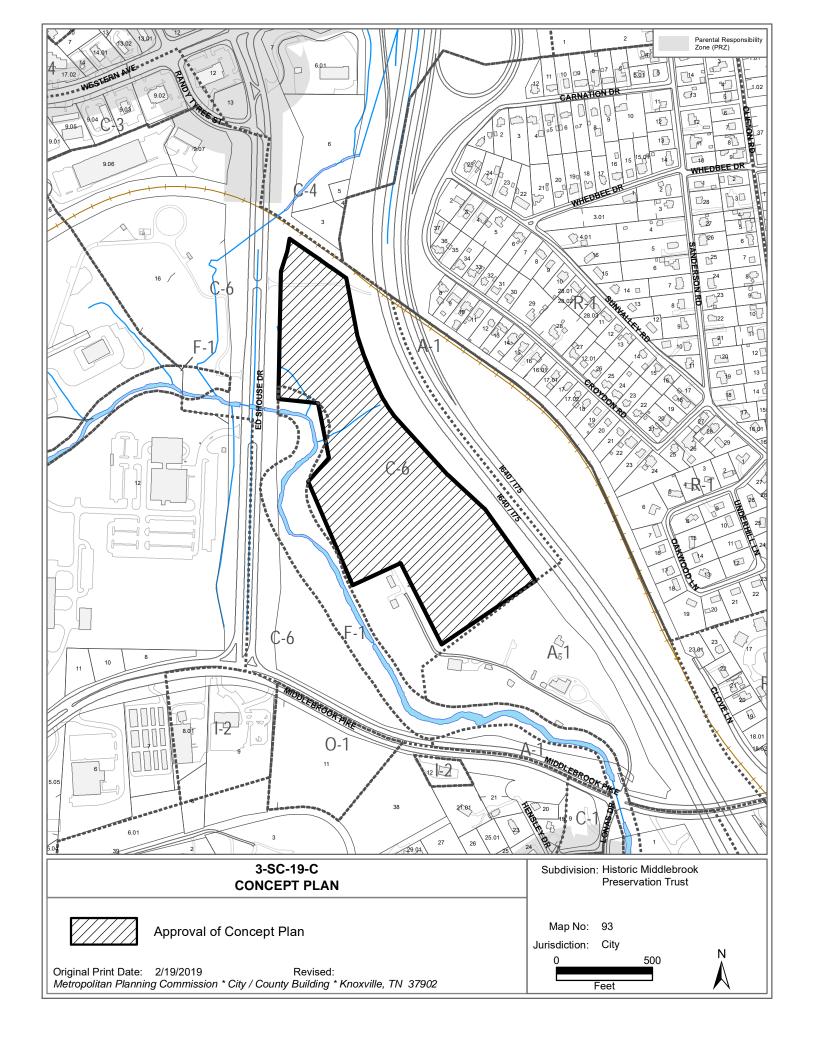
Other recommendations of the TIS are a southbound median decelaration lane for left turn movements, a northbound acceleration lane, and a northbound deceleration taper. The TIS design recommendations are all provided on the Concept Plan.

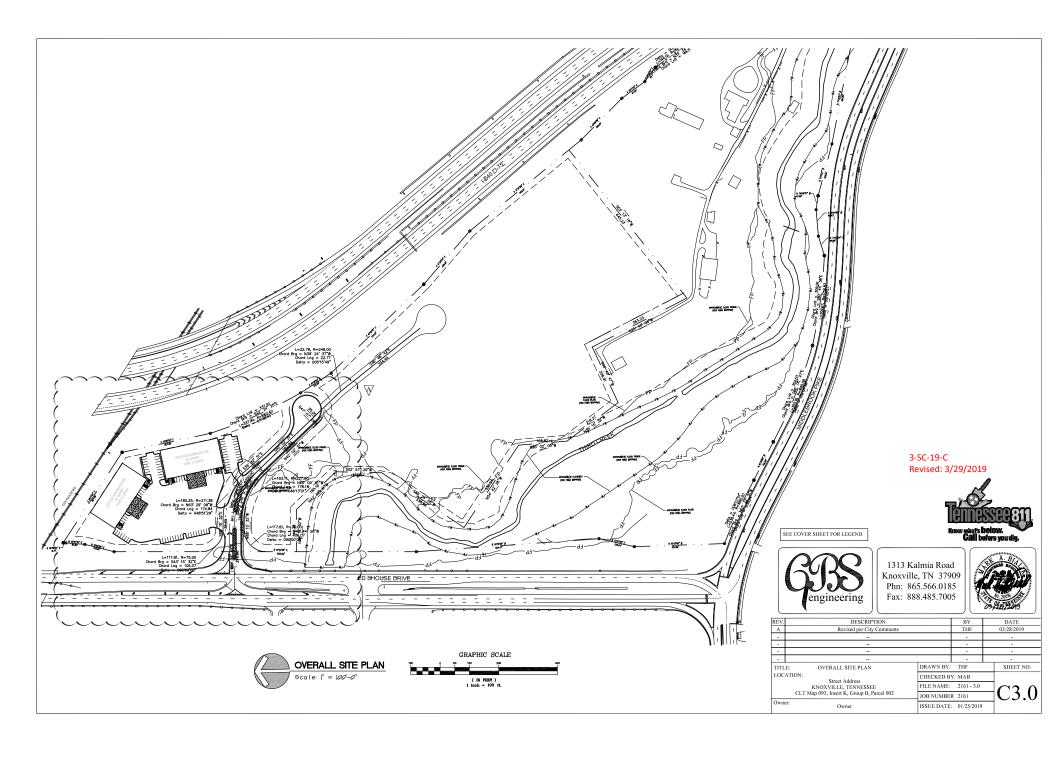
ESTIMATED TRAFFIC IMPACT: A traffic impact study was prepared by the applicant. The findings of that study were used in formulating the recommendations of this staff report.

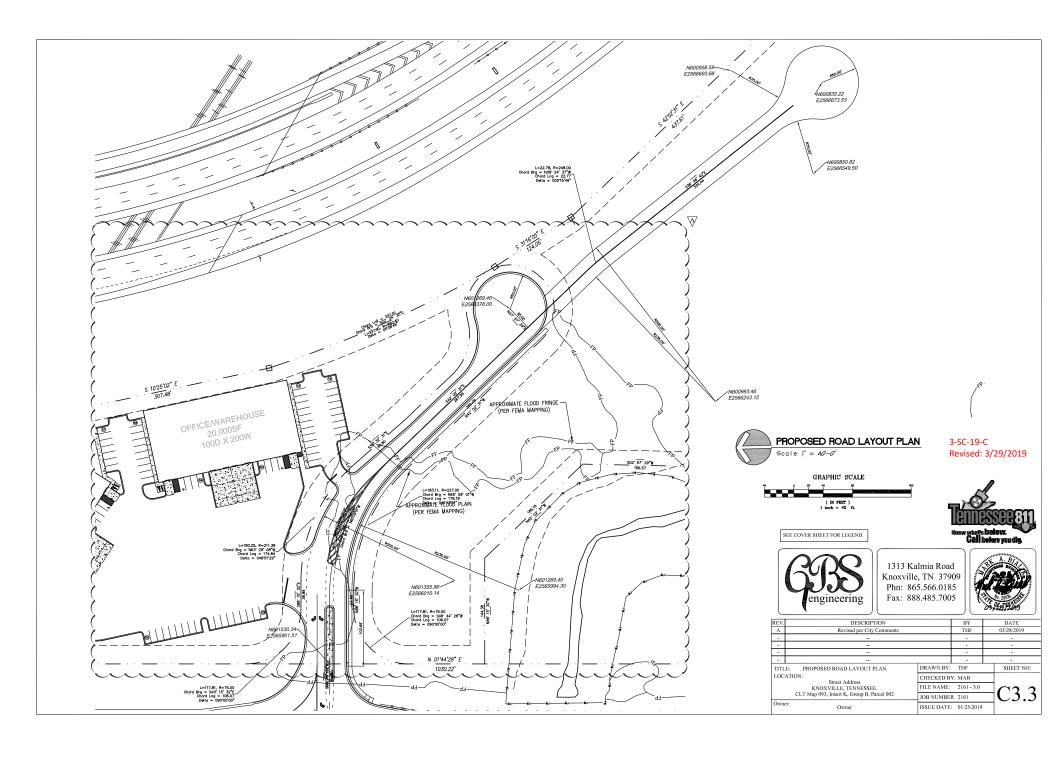
ESTIMATED STUDENT YIELD: Not applicable.

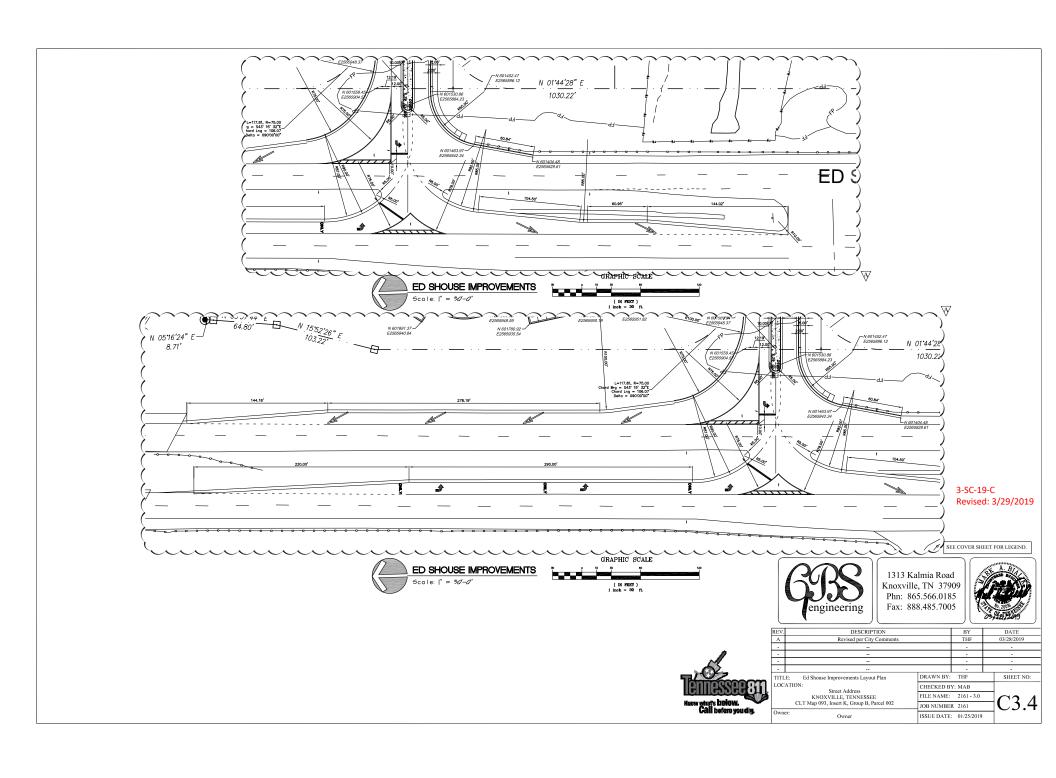
Knoxville-Knox County Planning Commission's approval or denial of this request is final, unless the action is appealed to Knox County Chancery Court. The date of the Knox County Chancery Court appeal hearing will depend on when the appeal application is filed.

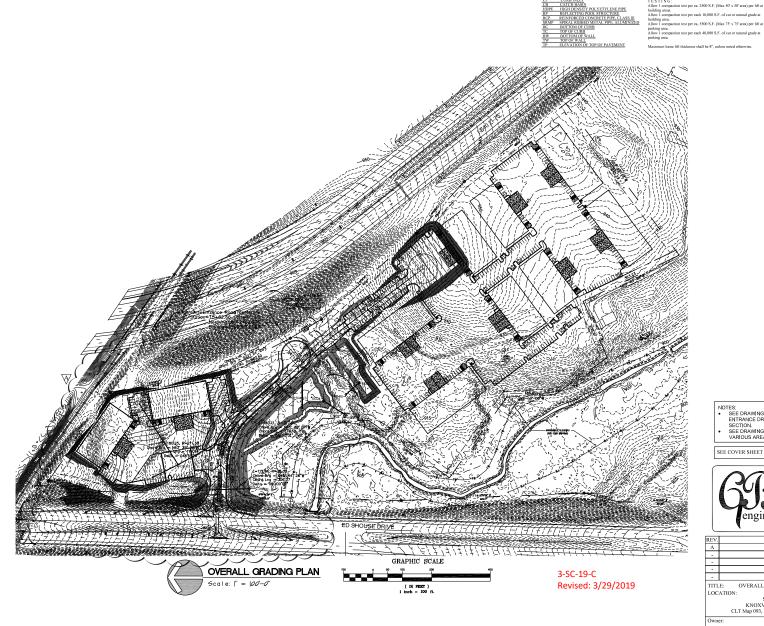
AGENDA ITEM #: 6 FILE #: 3-SC-19-C 5/1/2019 04:19 PM MIKE REYNOLDS PAGE #: 6-2











EXCAVATION AND GRADING NOTES CLEARING STRIPPING AND COMPACTION SCHEDULE Tonsoil stripping doub 2*-3* average. Desper if required by

SITE GRADING, DRAINAGE &
EROSION CONTROL DETAIL
REFERENCE LEGEND
MARK REFERENCED ITEM
HW HEADWALL
BF BIOFFITER OUTLET STRUCTURE

Comply with local and state ordinances regarding disposal of debris. Do not burn debris on site without specific written approval of both SITE, Inc. and local authority. Clear and grub for new construction as required.

EXCAVATION PREPARATION
Verify location of existing on-tile utilities. Protect and maintain existing utilities as required. Establish and verify
existing lines, grade and dimensions shown on the drawing. Report any errors or inconsistencies to STIE, Inc. before
commencement of work.

EXISTING TOPO ACCURACY
Exist contours shown are intended to form a general description of surface ground elevations. Topographic information shows herein shall be considered to have not more than the following plus or minus limits of accuracy: 0.10 feet at benchmarks, 0.25 feet at spot grades, 1.0 feet at contour lines.

STRIPPING AND SPREADING TOPSOIL

SIXEPLING AND SPREADING TOPSOIL
Topolishall be striped and temperary is shock piles for later rense. If no stock pile area is noted on grading plan, stock pile shall be in such place to provide for ready access to necessary areas of sixt by other tracks throughout progress of wixe. Franciar attentions shall be past of furthey textured upon that with the reneady bundancy contractor. General topolar temperating will be by grading contractor to a minimum depth of 6° at any point except slope of 2-12° to 10° accessor vices required by shall be 2° min. An up point or except slope.

PROOF-ROLLING
All areas to receive new structural fill or other new construction shall be proof rolled with a fully loaded tandem dump

All areas to receive new structural fill or other new construction activity. All areas to be compacted shall All areas to receive new structural fill or other new construction shall be prout morea with a may not be supported with track in pressure of soils desting again before commenting any constitution activity. All mass to be computed with receive 8 passes with compaction roller. Soil engineer shall notify GBS Engineering that all areas have passed providing the control impection prior to commencement cut & fill of grading. Do not commence grading prior to such notification.

UNDERCUT-BACKFILL Undercut shall mean excavation or othe Indexect shall mean excuration or other removal of unsuitable material below ideation of proposed final subgrade. In one case shall the term underext the used to describe material conforming above final subgrade elevations. Extent of no case shall the term underext the used to describe materials, if any must be recommended by the soil engineer first the unwards approach. Soil described the unsuitable materials, if any must be recommended by the soil engineer for the unwards approach all the underext under for required to substantiate amounts of underext. Backfill shall be of approach under the underext underext underext under for required to substantiate amounts of underext underext underext underext underext under the underext underext underext under the underext underext underext under the underext underext under the underext underext

STRUCTURAL FILL

Structural fills shall be compared as specified in excavation and grading schedule within -1 to *5% of optimum moisture content. Of its berrow areas shall be approved by GIS Engineering. Place fill and backfill in layers as specified in excavation and grading notes. Use no deleterories material organic, or rock large than 6°. In-sha soils may repeate additional water or may require additional design to rock optimum moisture content for corspections.

GRADING TOLERANCE
Grading contractor shall bring subspirate to within an everage of 11 Hz Gree for at Fragistred deviation to design
Grading contractor shall bring subspirate to within an everage of 11 Hz Gree for at Fragistred deviation to obtain
the same of the same o

Contractor shall be responsible for minor adjustments in grades as directed by GBS Engineering. Such changes shall be limited to 1500 cubic yards total. No additional cost will be allowed for this work.

WATER CONTROL

The contractor shall farminal all blew, materials and equipment secessary to keep the work free of water either from sweetness sources or from undergoonal sources or both. Selection of equipment and methods shall be the sole of the selection of t

 $GRASSING\ AND\ SODDING\ Grassing and mulching of all disturbed areas not paved or built upon shall be the responsibility of the grading contractor unless noted otherwise. Hardened soil shall be loosened to a depth of <math>6^\circ$ and topsoil respread as noted before seeding.

Grass and sodding shall be as specified on the drawings.

EROSION CONTROL Contractor shall refer to Storm Water Poll

SAFETY SCREENS

NOTES:

• SEE DRAWING C4.4 FOR CENTERLINE PROFILE OF NEW ENTRANCE DRIVE AND TYPICAL ENTRANCE DRIVE SECTION.

SEE DRAWINGS C4.1 THRU C4.3 FOR BLOWUPS OF VARIOUS AREAS OF NEW GRADING FOR MORE DETAIL.



1313 Kalmia Road Knoxville, TN 37909 Phn: 865.566.0185 Fax: 888.485.7005



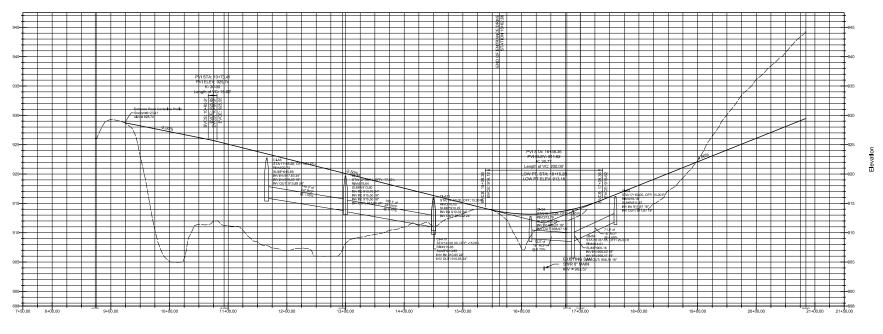
V.	DESCRIPTION	BY	DATE
١.	Revised per City Comments	MAB	03/28/2019
	E .	-	-
	ı	-	-
- 1	=	-	
		-	-

ON:
Street Address
KNOXVILLE, TENNESSEE
CLT Map 093, Insert K, Group B, Parcel 002 Owner:

OVERALL SITE GRADING PLAN

DRAWN BY: THF CHECKED BY: MAB FILE NAME: 2161 - 4.0 JOB NUMBER 216 ISSUE DATE: 01/25/2019

SHEET NO: C4.0

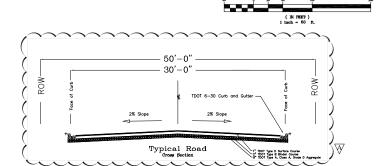




Station ENTRANCE ROAD CENTERLINE PROFILE

GRAPHIC SCALE

Scale: HORZ; |" = 50-0" & VERT; |" = 5'-0"



3-SC-19-C Revised: 3/29/2019

NOTES:

• SEE DRAWINGS C4.1 THRU C4.3 FOR BLOWUPS OF VARIOUS AREAS OF NEW GRADING FOR MORE DETAIL.



GRAPHIC SCALE

SEE COVER SHEET FOR LEGEND.



1313 Kalmia Road Knoxville, TN 37909 Phn: 865.566.0185 Fax: 888.485.7005



REV.	DESCRIPTION		BY		DATE
1	Revised per City Comments				03/28/2019
-	- - -		-	-	
-			-		-
-			-	-	
-			-	-	
TITL	E: ENTRANCE ROAD CENTERLINE PROFILE	DRAWN BY: MAB		SHEET NO:	

Street Address
KNOXVILLE, TENNESSEE
CLT Map 093, Insert K, Group B, Parcel 002

CHECKED BY: MAB FILE NAME: 2161 - 4.0 JOB NUMBER 216 ISSUE DATE: 01/25/2019



Sherry Michienzi <sherry.michienzi@knoxplanning.org>

Fwd: 2161 - Historic Middlebrook (3-SC-19-C)

1 message

Mike Reynolds <mike.reynolds@knoxplanning.org>

Tue, Apr 2, 2019 at 4:18 PM

To: Sherry Michienzi <sherry.michienzi@knoxplanning.org>, Dori Caron <dori.caron@knoxplanning.org>, Laura Edmonds <laura.edmonds@knoxplanning.org>

Postponement request for 3-SC-19-C until the May 9, 2019 Planning Commission meeting.

----- Forwarded message -----

From: Mark Bialik < Mark@gbs-eng.net> Date: Tue, Apr 2, 2019 at 4:04 PM Subject: 2161 - Historic Middlebrook

To: Mike Reynolds <mike.reynolds@knoxplanning.org>

Cc: jimnixon@5881000.com <jimnixon@5881000.com>, David Fiser <dfiser@fiserinc.com>, Travis Ferrell <Travis@gbs-

eng.net>, Ricky Fox <rrenardffo@aol.com>

Mike,

Per our telephone conversation this afternoon, I understand we need to post-pone for one more month, due to the Traffic Study was submitted later than the date required to stay on the agenda for April. We look forward to getting approval in May.

Please call or email me, if you require any additional information, or have any questions.

Mark A. Bialik, PE

(AL, AR, FL, GA, IN, IA, KY, NC, NJ,

OK, PA, SC, TN, TX, UT, VA, WI, WV)

GBS Engineering

Phone: 865.566.0185

Fax: 1.888.485.7005

Cell: 865.607.1246

email: mark@gbs-eng.net

Address: 1313 Kalmia Road,

Knoxville, TN 37909

LEGAL DISCLAIMER

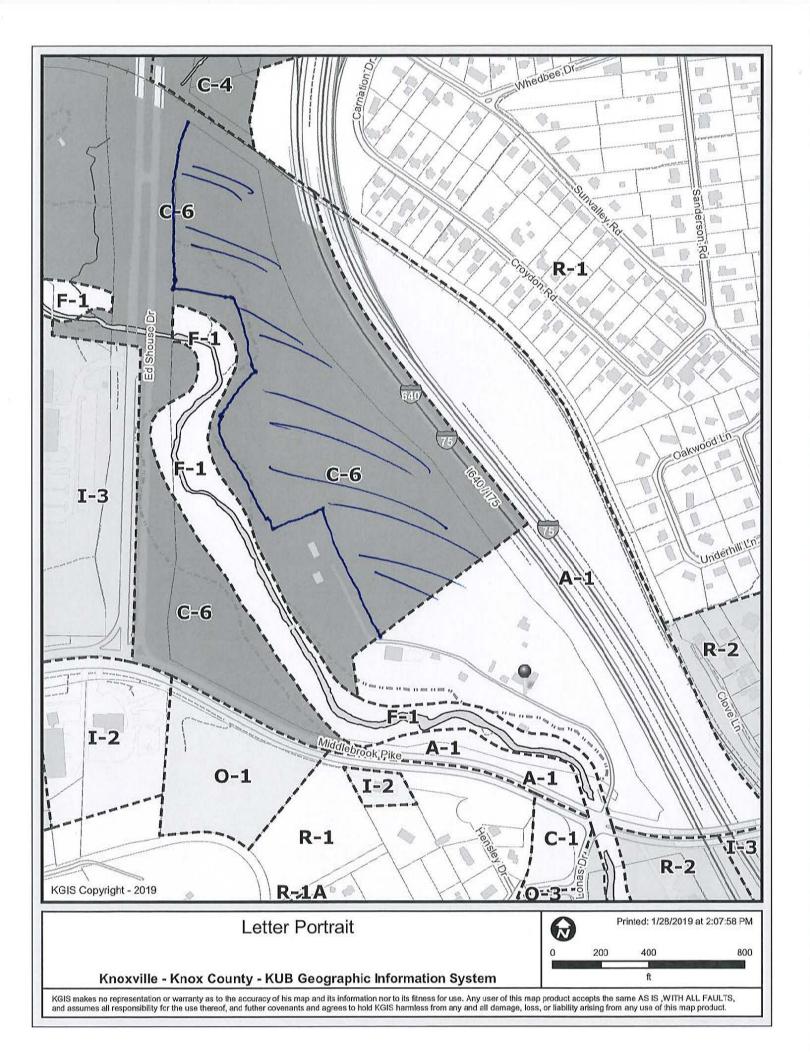
KNOXVILLE-KNOX COUNTY SUBDIVISION - COM Name of Applicant: Labb Englacesting Date Filed: 1/28/19 PLANNING _____ Meeting Date: __3/34/ COMMISSION ENNESS Application Accepted by: _____ JAN 28 2019 Suite 403 • City County Building 400 Main Street Fee Amount: 500.00 File Number: Subdivision - Concept 3-50 Knowille-Knox County Knoxville, Tennessee 37902 8 6 5 • 2 1 5 • 2 5 0 0 Planning A X • 2 1 5 • 2 0 6 8 Fee Amount: Related File Number: Development Plan _ ww•knoxmpc•org PROPERTY INFORMATION Y OWNER/OPTION HOLDER Subdivision Name: Historic Middlebrook PLEASE PRINT Preservation Trust Name: _ Unit/Phase Number: General Location: W/s I-640 F/s Ed Shouse De due north of Middlebrook Pike 12 Zip: 3792 City: Tract Size: __58.42 — No. of Lots: —/ Telephone: ____ Zoning District: C-6, F-1 Existing Land Use: Vacant Fax: Planning Sector: Northwest City Krenandtola DOL Growth Policy Plan Designation: City PLEASE PRINT Census Tract: 3802 Traffic Zone: 155 Company: Parcel ID Number(s): 093 KBOSZ District ☐ County Commission _____ District Telephone: **AVAILABILITY OF UTILITIES** List utility districts proposed to serve this subdivision: E-mail: Sewer Water _ Electricity _ All correspondence relating to this application (including plat corrections) should be directed to: Gas ___ Telephone PLEASE PRINT Name: TRAFFIC IMPACT STUDY REQUIRED No Yes Company: USE ON REVIEW ✓ No ☐ Yes Address: Approval Requested: ☐ Development Plans in Planned District or Zone 18 State: 11 Zip: 3790 ☐ Other (be specific): _ Telephone: VARIANCE(S) REQUESTED

E-mail: __mar

□ No □ Yes (If Yes, see reverse side of this form)

SIGNATURES OF ALL PROPERTY OWNE	RS INVOLVED OR HOLDERS OF OPTION ON SAME MUST BE LI	STED BELOW:
Please Sign in Black Ink:	(If more space is required attach additional sheet.)	
Name	Address • City • State • Zip	Owner Option
Show De Warner	JOIN ROCKINGHAM TRIVE	X
	KNOWILLETV 3799	
	-	
	· · · · · · · · · · · · · · · · · · ·	
*		
_		. 44

 ν



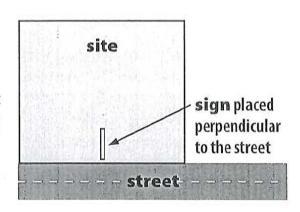
REQUIRED SIGN POSTING AGREEMENT

For all rezoning, plan amendment, concept plan, use on review, right-of-way closure, and street name change applications, a sign must be posted on the subject property, consistent with the adopted MPC Administrative Rules and Procedures.

At the time of application, MPC staff will provide a sign(s) to post on the property as part of the application process. If the sign(s) go missing for any reason and need to be replaced, then the applicant will be responsible for picking up a new sign(s) from the MPC offices. The applicant will be charged a fee of \$10 for each replacement sign.

LOCATION AND VISIBILITY

The sign must be posted in a location that is clearly visible from vehicles traveling in either direction on the nearest adjacent/frontage street. If the property has more than one street frontage, then the sign should be placed along the street that carries more traffic. MPC staff may recommend a preferred location for the sign to be posted at the time of application.



TIMING

The sign(s) must be posted 15 days before the scheduled MPC public hearing and must remain in place until the day after the meeting. In the case of a postponement, the sign can either remain in place or be removed and reposted 15 days before the next MPC meeting.

I hereby agree to post and remove the sign(s) provided on the subject property