

# **Staff Report**

# Infill Housing Design Review Committee

File Number: 10-A-21-IH

Meeting: 7/20/2022

Applicant: Quinn Epperly QB Realty Team LLC

Owner: Quinn Epperly QB Realty Team LLC

# **Property Information**

Location: 1547 Ohio Ave. Parcel ID 81 | S 011

**Zoning:** RN-2 (Single-Family Residential Neighborhood)

**District:** Lonsdale Infill Housing Overlay District

## **Description of Work**

Level III New Primary Structure

New primary residence fronting Ohio Avenue. Two-story, front-gable roof residence measures 17' wide by 33' long, with an 8' deep, full length front porch, which is partially recessed under the projecting second story. The house is proposed to be set approximately 26' from the front property line. The parking is proposed as a 10' wide driveway extending off Ohio Avenue to the left of the house and wrapping to a two-car parking area in the rear of the house.

The two-story, front-gable roof house features an 8' deep front porch, which is topped by a projecting shed roof and partially recessed under cantilevered interior space on the second story. The house is proposed to be clad in horizontal lap siding, with an asphalt shingle-clad roof and an exposed CMU foundation. The façade (southeast) is two bays wide, with two adjoining 30 x 60 double-hung windows followed by a Craftsman-style door. On the second story, there are three adjoining 30 by 50 double-hung windows. On the right elevation, there are three windows of varying size and placement, with two other window sizes on the left elevation. A secondary access is located on the rear elevation.

# **Applicable Design Guidelines**

Heart of Knoxville Infill Housing Design Guidelines

- 1. Front Yards
- Consistent front yard space should be created along the street with the setback of a new house matching the older houses on the block.
- When several infill houses, porches and the habitable portion of each house should be about the same distance from the street as the original houses.
- A walkway should be provided from the sidewalk or street to the front door. Along grid streets, the walk should be perpendicular to the street.
- Healthy trees that are outside the building footprint should be preserved. The root area should be marked and protected during construction.
- 2. House Orientation and Side Yards
- New housing should be proportional to the dimensions of the lot and other houses on the block.
- Side yard setbacks should be similar to older houses on the block, keeping the rhythm of spacing between houses

#### consistent.

#### 3. Alleys, Parking, and Services

- Parking should not be in front yards.
- Alley access should be used for garage or parking pad locations.
- On streets without alleys, garages or parking pads should be at least 20' behind the front façade of the infill house with access limited to one lane between the street and the front façade.
- On those streets which have alleys, driveways should not be permitted from the front of the house.
- Alley oriented parking pads, garbage collection points, and utility boxes should be screened with a combination of landscaping and fencing.

#### 4. Scale, Mass, and Foundation Height

- The front elevation should be designed to be similar in scale to the other houses along the street.
- The front façade of new houses should be about the same width as original houses on the block.
- If extensions or bays were typically part of the neighborhood's historic house design, such elements should be incorporated into infill housing.
- New foundations should be about the same height as the original houses in the neighborhood.

## 5. Porches and Stoops

- Porches should be part of the housing design in those neighborhoods where porches were commonplace.
- Porches should be proportional to original porches on the block, extending about 8-12' toward the street from the habitable portion of the house.
- Porches should extend into the front yard setback, if necessary, to maintain consistency with similarly sited porches along the street.
- Porch posts and railings should be like those used in the historic era of the neighborhood's development.

#### 6. Windows and Doors

- When constructing new houses, the windows and door styles should be similar to the original or historic houses on the block.
- To respect the privacy of adjacent properties, consider the placement of side windows and doors.
- The windows and doors on the front façade of an infill house should be located in similar proportion and position as the original houses on the block.
- Attention should be paid to window placement and the ratio of solid (the wall) to void (the window and door openings).
- Contemporary windows such as "picture windows" should not be used in pre-World War II neighborhoods.

### 7. Roof Shapes and Materials

- New roofs should be designed to have a similar pitch to original housing on the block.
- More complex roofs, such as hipped roofs and dormers, should be part of new housing designs when such forms were historically used on the block.
- Darker shades of shingle were often used and should be chosen in roofing houses in Infill neighborhoods.

## 8. Siding Materials

- Clapboard-like materials should be used in constructing new housing where painted wood siding was traditionally used.
- Brick, wood shingle, and other less common material may be appropriate in some older neighborhoods, particularly those with a mix of architectural styles.
- Faced stone, vertical siding, and other non-historic materials should not be used in building new houses.

#### 11. Landscape and Other Considerations

- One native or naturalized shade tree should be planted in the front and rear yards of infill lots with 25 feet or

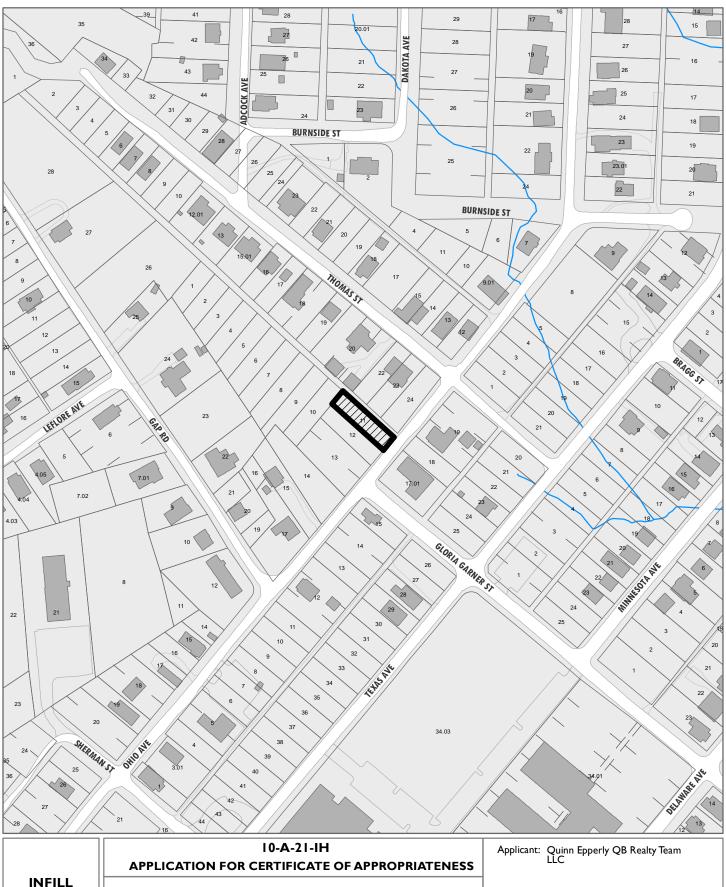
## **Comments**

- 1. The submitted site plan does not specifically call out the front setback measurement; the 8' deep front porch looks to be approximately 26' from the front property line. There is only one other house at the end of the block, set approximately 27' from the front property line. Overall, the proposed front setback should be confirmed to meet the RN-2 dimensional standards and the broader context of the neighborhood.
- 2. The subject block lacks significant context. Older houses on the block include modified Craftsman bungalows and a small shotgun house at 1700 Ohio Avenue. The narrow house is proportional to the dimensions of the lot, though the two-story, narrow form is not consistent with the broader neighborhood context.
- 3. The proposed parking meets the design guidelines by avoiding the front yard and placing the parking pad behind the house. The alley to the northeast of the site is not improved. Modifications to the site plan may be necessary to meet City Engineering standards, especially to address stormwater issue with a recently declassified stream on the site.
- 4. Guidelines note that "the front elevation should be designed to be similar in scale to the other houses on the street," and the "front façade of new houses should be about the same width as original houses on the block." The proposed house, at 17' wide and two stories tall, is not similar in scale or façade with nearby Craftsman bungalows or other Queen Anne cottages in the surrounding neighborhood. The foundation height is not clearly defined on the drawings.
- 5. The design includes an 8' deep front porch, partially recessed under a cantilevered interior space. The cantilevered section and porch roof do not reflect typical proportions from the context.
- 6. Guidelines state that "window and door styles should be similar to original or historic houses on the block," especially in "similar proportion and position" on the façade and paying attention to "window placement and ratio of solid to void." The proposed design includes six different window sizes and irregular placement. Window designs and proportions should be corrected to meet the design guidelines.
- 7. The 9/12 pitch, front-gable roof meets the design guidelines for slope; the shed roof on the porch incorporates additional roofline complexity.
- 8. The site plan incorporates trees in the front and rear yards.

## Recommendation

Staff recommends postponement of Certificate 10-A-21-IH, so that a revised design can submitted to the Board for further review, addressing items such as façade width, scale, porch proportions, and window placement, along with any stormwater issues which may exist on the site.

Page 3 of 3 Planner in Charge: Lindsay Crockett 10-A-21-IH 7/6/2022 11:10:47 AM



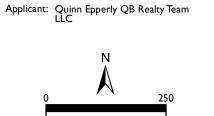




1547 Ohio Ave.

Lonsdale Infill Housing Overlay District

Original Print Date: 7/6/2022 Revised: Knoxville/Knox County Planning - Infill Housing Design Review Committee



Feet



# DESIGN REVIEW REQUEST

☐ DOWNTOWN DESIGN (DK)

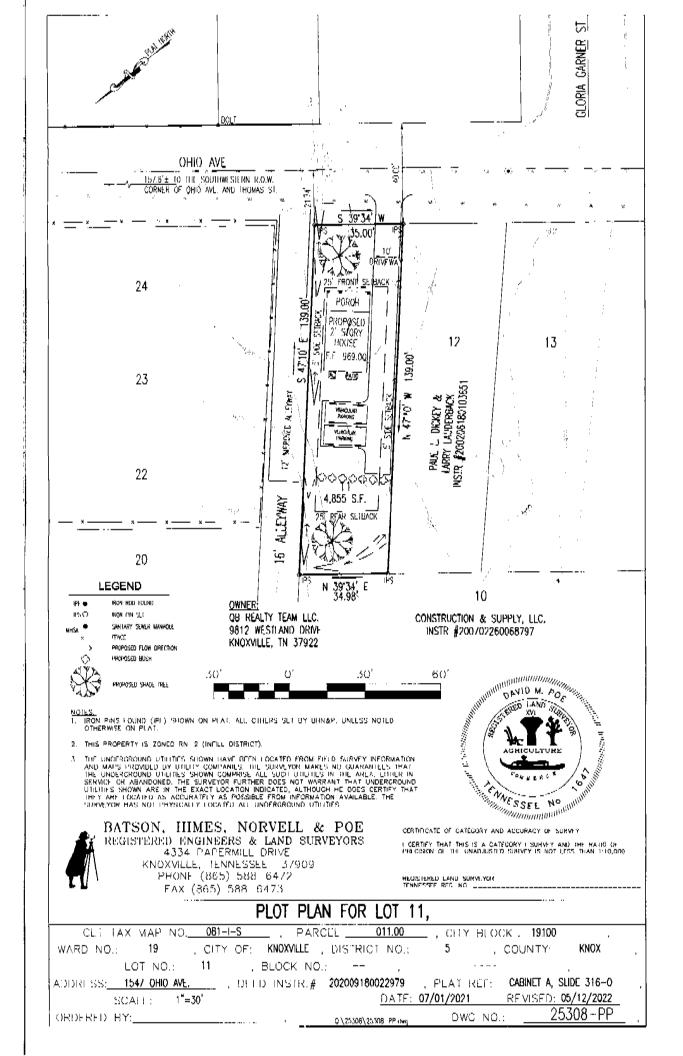
☐ HISTORIC ZONING (H)

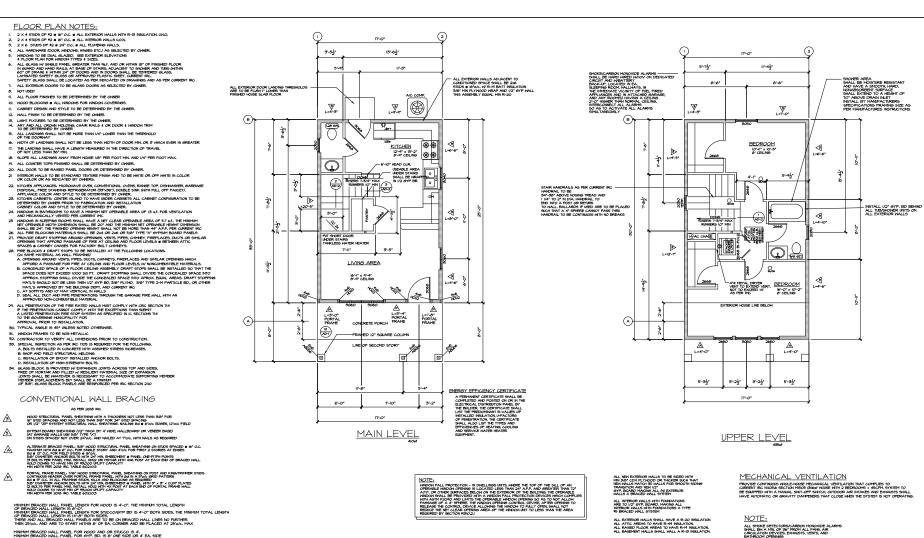
■ INFILL HOUSING (IH)

Applicant				
5/31/22			10-A-21-	HZ
Date Filed	Meeting Date (if applicable	)	File Numbe	r(s)
CORRESPONDENCE				
All correspondence related to this applicati	on should be directed to the	approved contact	listed below.	
Owner Contractor Engineer				
Quinn Epperly		QB Realty Team L	rc	
Name	- 1	Company		
2042 Town Center Blvd, PMB 318		Knoxville	TN	37922
Address		City	State	Zip
8659638462	Qbrenovations@gmail.cor	n		
Phone	Email			
CURRENT PROPERTY INFO	í			
	Owner Address		Ov	vner Phone
Owner Name (if different from applicant)		081IS011		vner Phone
CURRENT PROPERTY INFO  Owner Name (if different from applicant)  1547 Ohio Ave  Property Address		<b>081IS01</b> 1		vner Phone
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Owner Name (if different from applicant)  1547 Ohio Ave  Property Address		Parcel ID		vner Phone
Owner Name (if different from applicant)  1547 Ohio Ave  Property Address  GILBERT BROOKS LAND		Parcel ID RN-2/IH		vner Phone
Owner Name (if different from applicant)  1547 Ohio Ave  Property Address  GILBERT BROOKS LAND  Neighborhood		Parcel ID RN-2/IH		
Owner Name (if different from applicant)  1547 Ohio Ave  Property Address  GILBERT BROOKS LAND  Neighborhood  AUTHORIZATION	Owner Address	Parcel ID RN-2/IH		0.21 // 6.17.22
Owner Name (if different from applicant)  1547 Ohio Ave  Property Address  GILBERT BROOKS LAND  Neighborhood  AUTHORIZATION  Lindaay Crockett	Owner Address  Lindsay Crockett	Parcel ID RN-2/IH	9.1	0.21 // 6.17.22
Owner Name (if different from applicant)  1547 Ohio Ave  Property Address  GILBERT BROOKS LAND  Neighborhood  AUTHORIZATION  Lindaay Crockett	Owner Address  Lindsay Crockett	Parcel ID RN-2/IH	9.1	0.21 // 6.17.22

# **REQUEST**

DOWNTOWN DESIGN	Level 1:  Signs Alteration of an existing building/structure  Level 2: Addition to an existing building/structure  Level 3: Construction of new building/structure  Site design, parking, plazas,  See required Downtown Design attachment for more details.  Brief description of work:		
HISTORIC ZONING	Level 1:  Signs Routine repair of siding, windows, roof, or other features, in-killevel 2:  Major repair, removal, or replacement of architectural elements or material Level 3:  Construction of a new primary building Level 4:  Relocation of a contributing structure Demolition of a contributing structure Brief description of work:  Brief description of work:	als Additions and access	ssory structures
INFILL HOUSING	Level 1:  Driveways, parking pads, access point, garages or similar facilities  Subset Level 2:  Additions visible from the primary street  Changes to porches visible for Level 3:  New primary structure  Site built  Modular  Multi-Sectional  See required Infill Housing attachment for more details.  Brief description of work: 2 story, 2 bedroom, 1.5 bathroom vinyl siding crains.	from the primary street	y skinny lot.
STAFF USE ONLY	ATTACHMENTS  Downtown Design Checklist  Historic Zoning Design Checklist  Infill Housing Design Checklist  ADDITIONAL REQUIREMENTS  Property Owners / Option Holders  Level 1: \$50 • Level 2: \$100 • Level 3: \$250 • Level 4: \$500	FEE 1:  FEE 2:  FEE 3:	TOTAL:





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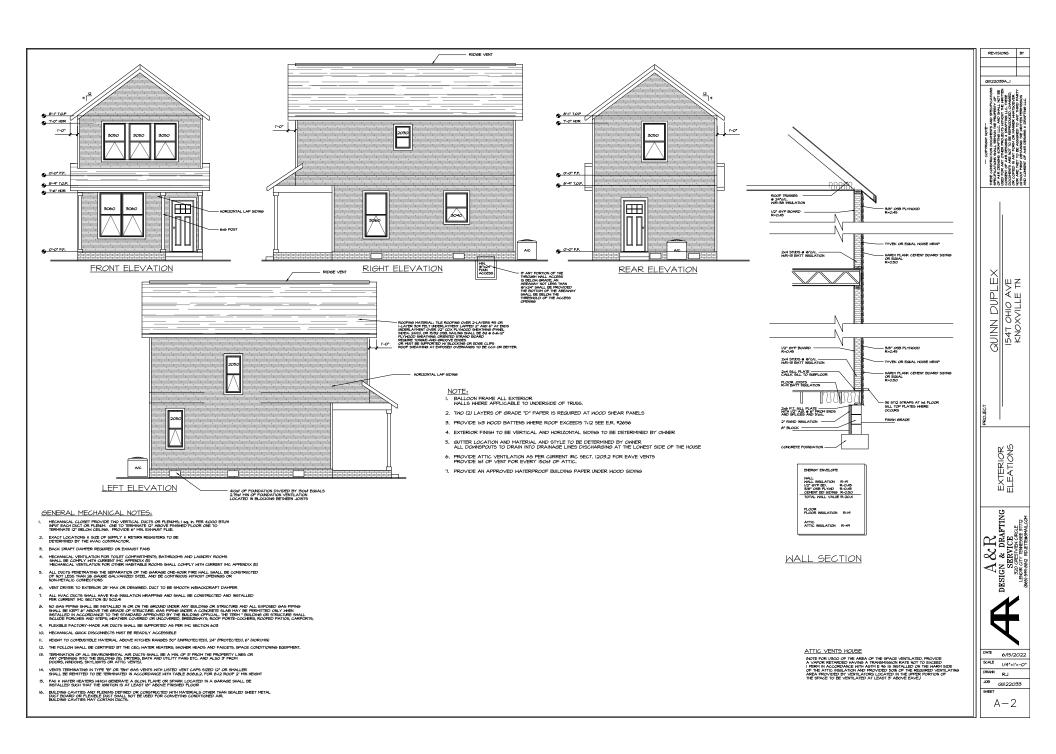
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(a)	KITCHEN SINK	2"	1 1/2"	1/2"	1/2"	2
	BATH TUB, MASTER TUB MASTER SHOWER	2*	1 1/2"	3/4*	3/4*	2
<del>(**)</del>	HATER HEATER	-	-	3/4"	3/4"	-
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(#)	CLOTHES WASHER	2"	2"	3/4"	3/4"	3
<b>₹</b>	REFRIGERATOR BIB	1	-	1/2*	,	-
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FOUNDATION FRAMING PLUMBING PLANS



6/15/2022 SCALE

1/4"=1"=-0" DRAIN RJ

QUI22033

A-3

#### ROOF FRAMING NOTES:

ROOFING MATERIAL. COMP. ROOFING OVER 2-LAYERS #IS FELT INDEBLAYMENT LAPRED 2" AND 6" AT BIDS INDEBLAYMENT OVER 12" COX PLYNOOD SEATHING (PANEL INDEX 24/0), OR 15/32 OSB, MALING SHALL DE 8d 6 6-612" PLYNOOD SHEATHING, CRIENTS STRAND BOARD REGIRET TONGUE-AND-ORGOVE EDGES OR MOST DE SPONCHED WIS LOCKING OR EDGE CLIPS

#### 5. NOT USED

4. ROOF FRAMING, PRE-ENGINEERED ROOF TRUSSES # 24'o/c, MAX. 5. PROVIDE 2x BLKG. AT ENDS OF RAFTERS AND AT ALL BEARING HALLS.

- USE "SIMPSON" (TC24) CLIPS AT ONE END OF SCISSOR TRUSS OR SLOPED TRUSS TO ALLOW FOR LATERAL DISPLACEMENT.
- 1. PROVIDE A 22'x80 MIN. ATTIC ACCESS (NEATHER-STRIPPED)
- PROVIDE 2x4 OUTRIGGERS OR OUTLOOKS 24°0/c, AT GABLE ENDS TO SUPPORT FASCIA BOARD.
- 4. PROVIDE FULL HEIGHT STUDS TO BOTTOM CHORD OF RAFTERS
- IO. PROVIDE Ix4 CONTINUOUS LATERAL BRACING @ 8'0/c, NITH CROSS BRACING @ 16'0/c, TO PROVIDE ADEQUATE LATERAL BRACING OF TRUSSES.
- II. LUMBER GRADE SHALL BE DF#2 OR BETTER.
- FILL FRAMING: PROVIDE 2x (SEE PLAN) DFI2 FILL RAFTERS @ 24"o/c, TO 2x FLAT VALLEY, PROVIDE INTERMEDIATE BRACING TO ALTERNATE TRUSSES BELOW FILL FRAMING AREA.
- PLYWOOD SHEATHING SHALL BE RUN UNDERNEATH ALL FILL FRAMING AREAS WITH EDGE NAILING AS REQUIRED.
- I4. PROVIDE ATTIC VENTILATION WITH ADEQUATE CROSS-VENTILATION IN ACCORDANCE WITH THE CURRENT IRC. SEC. 1203
- FIRE BLOCKING AND DRAFT STOPS SHALL BE INSTALLED AS PER CURRENT IRC SEC. 117.
- USE 8d NAILS @ 6"o/c. AT ALL BLKG. AND DRAG TRUSSES OR SHEAR WALLS

IB. USE Bd NAILS . 6°o/c. AT RIDGE, VALLEYS, HIPS

19. BLOCKING AT ALL EAVES.

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ROOF SHEET METAL VALLEY FLASHING HITH A 36" HIDE UNDERLAYMENT DIRECTLY UNDER FLASHING AND OVER NORMALLY REQUIRED UNDERLAYMENT FER IRG BOT

COMPLETE SET OF TRUSSES CALCS NEED TO BE SUPPLIED TO A&R DESIGN FOR VERIFICATION OF POINT LOADS AND FOOTING SIZES PRIOR TO START OF ANY CONSTRUCTION



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SECOND FLOOR ROOF FRAMING PLANS

DESIGN & DRAFTING
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6/15/2022 SCALE 1/4\*=1'=-0"

DRAWN R.J. JOB QUI22033

A-4

UPPER LEVEL FLOOR FRAMING PLAN

11'-0"



## Tennessee Department of Environment and Conservation - Division of Water Resources 312 Rosa L. Parks Ave. 11th Floor. Nashville, TN 37243

### **Hydrologic Determination Field Data Sheet**

Tennessee Division of Water Resources, V	ersion 1.5 (Fillable Form)	
Named Waterbody:		Date/Time:
Assessors/Affiliation:		Project ID :
Site Name/Description:		_
Site Location:		
HUC (12 digit):	Latitude:	
Previous Rainfall (7-days) :	Longitude:	
Precipitation this Season vs. Normal : Source of recent & seasonal precip. data :		
Watershed Size :	County:	
Soil Type(s) / Geology :	Source:	
Surrounding Land Use :		
Degree of historical alteration to natural channel morphology & hydro	logy (select one & des	cribe fully in Notes) :
Primary Field Indicators Obs	erved	

Primary Indicators	NO	YES
Hydrologic feature exists solely due to a process discharge		WWC
2. Defined bed and bank absent, vegetation composed of upland and FACU species		WWC>
Watercourse dry anytime during February through April 15th, under normal precipitation / groundwater conditions		WWC
4. Daily flow and precipitation records showing feature only flows in direct response to rainfall		WWC
<ol> <li>Presence of multiple populations of obligate lotic organisms with ≥ 2 month aquatic phase</li> </ol>		Stream
6. Presence of fish (except Gambusia)		Stream
7. Presence of naturally occurring ground water table connection		Stream
8. Flowing water in channel and 7 days since last precip >0.1" in local watershed		Stream
Evidence watercourse has been used as a supply of drinking water		Stream

NOTE: If any Primary Indicators 1-9 = "Yes", then no further investigation is necessary. However, assessors may choose to score secondary indicators as supporting evidence.

In the absence of a primary indicator, or other definitive evidence, complete the secondary indicator table on page 2 of this sheet, and provide score below.

Guidance for the interpretation and scoring of both the primary & secondary indicators is provided in TDEC-DWR Guidance For Making Hydrologic Determinations, Version 1.5

Overall Hydrologic Determination =	
Secondary Indicator Score (if applicable) =	
Justification / Notes :	_

# **Secondary Field Indicator Evaluation**

A. Geomorphology (Subtotal =	Absent	Weak	Moderate	Strong	
1. Continuous bed and bank	0	1	2	3	
2. Sinuous channel	0	1	2	3	
3. In-channel structure: riffle-pool sequences	0	1	2	3	
4. Sorting of soil textures or other substrate	0	1	2	3	
5. Active/relic floodplain	0	0.5	1	1.5	
6. Depositional bars or benches	0	1	2	3	
7. Braided channel	0	1	2	3	
8. Recent alluvial deposits	0	0.5	1	1.5	
9. Natural levees	0	1	2	3	
10. Headcuts	0	1	2	3	
11. Grade controls	0	0.5	1	1.5	
12. Natural valley or drainageway	0	0.5	1	1.5	
13. At least second order channel on existing USGS or NRCS map	0	1	2	3	

B. Hydrology (Subtotal =	Absent	Weak	Moderate	Strong	
14. Subsurface flow/discharge into channel	0	1	2	3	
15. Water in channel and >48 hours since sig. rain	0	1	2	3	
16. Leaf litter in channel	1.5	1	0.5	0	
17. Sediment on plants or on debris	0	0.5	1	1.5	
18. Organic debris lines or piles (wrack lines)	0	0.5	1	1.5	
19. Hydric soils in channel bed or sides of channel	No:	= 0	Yes	= 1.5	

C. Biology (Subtotal =	Absent	Weak	Moderate	Strong	
20. Fibrous roots in channel bed <sup>1</sup>	3	2	1	0	
21. Rooted plants in the thalweg <sup>1</sup>	3	2	1	0	
22. Crayfish in stream (exclude in floodplain)	0	1	2	3	
23. Bivalves/mussels	0	1	2	3	
24. Amphibians	0	0.5	1	1.5	
25. Macrobenthos (record type & abundance)	0	1	2	3	
26. Filamentous algae; periphyton	0	1	2	3	
27. Iron oxidizing bacteria/fungus	0	0.5	1	1.5	
28. Wetland plants in channel bed <sup>2</sup>	0	0.5	1	1.5	

<sup>&</sup>lt;sup>1</sup> Focus is on the presence of terrestrial plants.

Total Points =	
Under Normal Conditions, Watercourse is a Wet Weather Conveyance if Secondary Indicator Score < 19 points	
Notes :	

<sup>&</sup>lt;sup>2</sup> Focus is on the presence of aquatic or wetland plants.



# STATE OF TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION KNOXVILLE ENVIRONMENTAL FIELD OFFICE DIVISION OF WATER POLLUTION CONTROL 3711 MIDDLEBROOK PIKE KNOXVILLE, TN 37921

PHONE 865-594-6035 STATEWIDE 1-888-891-8332 FAX 865-594-6105

December 6, 2021

Mr. Quinn Epperly 1547 Ohio Ave Knoxville, TN

**RE:** HYDROLOGIC DETERMINATION (CONCURRENCE)

1547 Ohio Ave. Knox Co.

Dear Mr. Epperly:

Thank you for contacting the Division and requesting a hydrologic determination regarding a drainage assessment at 1547 Ohio Ave. located in Knox County.

Division personnel, (TDEC) observed and concur with the following determinations:

• The drainage feature located at (35.98463, -83.96046) was deemed to be a Wet Weather Conveyance (WWC) at the determination point.

Alterations to Wet Weather conveyances must comply with coverage under the General Permit for Alteration of Wet Weather Conveyances. A copy of this coverage is available on the TDEC website at <a href="http://tn.gov/environment/article/permit-water-aquatic-resource-alteration-list-of-general-permits">http://tn.gov/environment/article/permit-water-aquatic-resource-alteration-list-of-general-permits</a>. Alterations to any streams, wetlands or other waters determined to be jurisdictional by the U.S. Army Corps of Engineers (USACE) will require an Aquatic Resource Alteration Permit/§401 Certification. Additionally, the alteration of some features may require authorization of an ARAP even if the feature does not require a USACE permit.

If you have any questions concerning this correspondence, please contact me at (865) 364-9505 or by email at Michael.Swanger@tn.gov.

Sincerely,

Michael Swanger, Environmental Scientist III

Division of Water Resources

Ecopy: Quinn Epperly, Owner, qbrenovations@gmail.com