



Williamson County Board Work Session
January 16, 2020 6:00 PM
Professional Development Room 1761 West Main Street

1. **Call to Order**
2. **Consent Agenda**
 - a. School Board Meeting Minutes
 - b. Board Policies - Second Reading
 - I. 1.403 Agendas
 - II. 6.412 Emergency Allergy Response Plan
 - c. Annual Review of Board Policies
 - d. Recommendation for Fieldtrip Fee Requests
 - e. Fairview Elementary School Deed to TDOT
 - f. Mallory Valley Utility District Request for Temporary Construction & permanent Waterline Easements
Centennial High School Property
 - g. Hazard Mitigation Grant Resolution
 - h. Revised Five Year Capital Plan (Correction)
3. **Superintendent's Report (20 min)**
 - a. RTI Presentation
 - b. Creekside Elementary School Ribbon Cutting
 - c. Brentwood High Construction Update
4. **Operations Report (10 min)**
5. **Board Chairman's Report (10 min)**
 - a. "Statement of Disclosure of Interest" filing with State due January 31
 - b. Board Budget Work Session Date
6. **New Business**
 - a. 2019-2020 School Board Budget (10 min)
 - I. General Purpose School Fund Budget Amendment for State Grants
 - II. General Purpose School Fund Budget Resolution - Special Education Teachers
 - III. General Purpose School Fund Budget Resolution - Copy Paper
 - b. 2020-2021 Open Zone Schools (Annual Agenda) (10 min)
 - c. New Central Middle School Name Recommendation (15 min)
 - d. Board Policies - First Reading (10 min)
 - I. 3.3002 Service Animals
 - II. 3.4001 Special Transportation for Students with Disabilities
 - III. 5.109 Evaluation
7. **Monthly Reports & Miscellaneous Information**
 - a. Strategic Plan Reports



Williamson County School Board Meeting
November 18, 2019 6:30 PM
Williamson County Administrative Complex Auditorium

1. Call to Order

Chairman Gary Anderson called the meeting to order at 6:30 p.m.

a. Record Attendance

Attendance Taken at 6:32 PM.

Mr. Gary Anderson:	Present
Mr. Dan Cash:	Present
Ms. Sheila Cleveland:	Present
Mrs. Angela Durham:	Present (Video Conference Call)
Mrs. Candace Emerson:	Present
Mr. Brad Fiscus:	Present
Mr. Jay Galbreath:	Present
Mrs. Nancy Garrett:	Present
Mr. KC Haugh:	Present
Mr. Eliot Mitchell:	Present
Mr. Eric Welch:	Present
Mr. Rick Wimberly:	Present

Present: 12 Absent: 0

b. Pledge of Allegiance

Deputy Matt Erickson led the Pledge of Allegiance and after which the Board observed a moment of silence.

2. Items of Particular Public Interest (Public Comment)

- Daniela Kunz spoke regarding environmental yearly teacher training update.
- Mark King, Wendy Luken with Williamson Medical Center and Caleb Bone with American Heart Association presented two CPR Kits to Nolensville High School.
- Michael Brown, Franklin High School student spoke regarding the student body update with district.
- Avery Smith, Page High School student spoke regarding WCS green initiative for compost facility.

3. Addendum to Correct Clerical Error in Superintendent of Schools' Contract

Chairman Anderson called on Ms. Dana Ausbrooks to explain Addendum #1 for the Superintendent of Schools' contract to correct a date error. Superintendent Golden recommended approval.

Motion Passed: Motion by Mrs. Nancy Garrett to approve. A second was made by Mr. Brad Fiscus.

Chairman Anderson called for a roll call vote on the motion.

Mr. Gary Anderson: Yes

Mr. Dan Cash: Yes
Ms. Sheila Cleveland: Yes
Mrs. Angela Durham: Yes
Mrs. Candace Emerson: Yes
Mr. Brad Fiscus: Yes
Mr. Jay Galbreath: Yes
Mrs. Nancy Garrett: Yes
Mr. KC Haugh: Yes
Mr. Eliot Mitchell: Yes
Mr. Eric Welch: Yes
Mr. Rick Wimberly: Yes
Yes: 12, Nay: 0

4. Approval of Agenda

Chairman Anderson presented the agenda for approval.

Motion Passed: Motion by Mr. Dan Cash to approve the agenda as presented. A second was made by Mr. KC Haugh.

Chairman Anderson called for a roll call vote.

Mr. Gary Anderson: Yes
Mr. Dan Cash: Yes
Ms. Sheila Cleveland: Yes
Mrs. Angela Durham: Yes
Mrs. Candace Emerson: Yes
Mr. Brad Fiscus: Yes
Mr. Jay Galbreath: Yes
Mrs. Nancy Garrett: Yes
Mr. KC Haugh: Yes
Mr. Eliot Mitchell: Yes
Mr. Eric Welch: Yes
Mr. Rick Wimberly: Yes
Yes: 12, Nay: 0

5. Approval of Consent Agenda

Chairman Anderson presented the consent agenda for approval.

Motion Passed: Motion by Ms. Sheila Cleveland to approve. A second was made by Mr. Eliot Mitchell.

Chairman Anderson called for a roll call vote on the motion.

Mr. Gary Anderson: Yes
Mr. Dan Cash: Yes
Ms. Sheila Cleveland: Yes
Mrs. Angela Durham: Yes
Mrs. Candace Emerson: Yes
Mr. Brad Fiscus: Yes
Mr. Jay Galbreath: Yes
Mrs. Nancy Garrett: Yes

Mr. KC Haugh: Yes
Mr. Eliot Mitchell: Yes
Mr. Eric Welch: Yes
Mr. Rick Wimberly: Yes
Yes: 12, Nay: 0

- a. Approval of School Board Meeting Minutes
- b. Approval of Board Policy - 2nd Reading
 - I. Policies: 3.209, 3.211, 3.215, 3.216, 6.200, 6.201, 6.203, 6.209, 6.306, 6.400, 6.4001, 6.403, 6.405, 6.4052, 6.4081, 6.409, 6.413, 6.414, 6.503, 6.505, 6.601, 6.602
 - II. Policies for Deletion: 3.213, 6.5052, 6.4002, 6.406, 6.411, 6.501, 6.6021, 6.6022, 6.6023, 6.703, 6.705, 6.713, 6.714
- c. Approval of Recommendations for Field Trip Fee Requests
- d. LEA Compliance Report
- e. Textbook Adoption Committee
- f. Town of Thompson's Station Sign Ordinance Independence High School Lighted Sign Request to Implement County Powers Act
- g. Page High School Batting Cage Enclosure

6. Communications to the Board

a. Superintendent's Report

Superintendent Golden thanked the Grassland Middle School string orchestra under the direction of Susan Abell for performing prior to the meeting. He acknowledged growth in the arts across the district. He also reminded the Board that the schools and district will be closed next week for Thanksgiving Break.

b. District Update

I. Student Spotlight

Williamson County high school students continue to earn a perfect ACT composite score, and five were honored including Alex Bush, Fairview High; Carsten Rovey, Page High; Ian Brown and Trisha Mazumdar, Ravenwood High; and Noah Bell, Summit High.

Brentwood High graduate Namrah Ajmal was recognized as an AP State Scholar, one of only two in the State.

The district celebrated four state championships from the fall sports season. Fairview High athlete Alyssa Andrea won the TSSAA Cross Country State Champion Division I Small School. Ravenwood won the TSSAA Girls Soccer State Championship Division I AAA. The team includes Ashley Yoshihara, Leah Johnson, Mia Fraser, Sarah Cloud, Sarah Kate Rath, Courtney Hill, Josie Ricketts, Erin Bentley, Anna Major, Tori Case, Marcella Forero-Pretto, Lillye Perez, Nora Henderson, Christina Stauffer, Lauren Hiatt, Maddie Gleason, Anna Jahr, Lorelai De Lacuesta, Faith Vantson and Kendall Curran. Their head coach is Brandon Mead, and the assistant coaches are Jessica Mancini and Megan Nugent.

Brentwood High won the TSSAA Volleyball State Champions Division I AAA. Team members include Reese Bailey, Haley Carpenter, Zoe Oldham, Mary Oldham, Hollye Tate, Rylie Kael, Shaye Eggleston, Coach Angie Noble, Anza Sellers, Dylan Sulcer, Ashley Miller, Hallie Corinne Frist, Sophie Frohlich, Haley Sanders, Piper Drazek, Meredith Moody, Preslee Douty, Carol Thacker, Josie Sellers, Sophie Cummins, Sydney Siefert and Gracie Young. The head coach is Barbara Campbell, and the assistant coaches are Cathy Cram and Angie Noble. Nolensville High won the TSSAA Volleyball State Champions Division I AA. Team members include Caroline Johnston, Charley Fulton, Lauren Starcke, Avery Patton, Maddie Donahue, Mamie Guthrie, Ellie Tant, Jasmine Jenkins, Caymin Ladd, Maggie Rickert, Sydney Bloedorn, Lourdes Doyle, Sydney Bloedorn, Avery Young, Madeline McNeely and Ana Barrera. The head coach is Brett Young, and the assistant coaches are Joy Owino and Jennifer Childs.

In the arts, many students were selected to the All-State Honor Choir. From Brentwood High, Alex Cook, Caroline Conte, Vivi Hirst, Ella Saliba, Caleb Oakley, Michelle Qiu and Macey Wade were

named. Natalie Pratt is their teacher. Centennial students include Graeme Cadaret, Chris Cooper, Sydney Hoover, Austin Krell, Addie Lewis and Natalie Peterson Lopes. Their teacher is Jonathan Vest. From Franklin High, Molly Pope, Molly Volker, Lillian Brown, Lilly Warren and Asha Henshaw were selected. Angela Beale is their teacher. Independence High's Haidyn DeWispelaere, Eriel Weaver, Karson Hamlin, Preston Rogers, Evelyn Palmlden, Jessica Coffey and Grace Riley were selected. Their teacher is Justin Kirby. Ravenwood students are Mark Dovgalyuk, Ben Jessop, Trisha Mazumdar, Camryn Rasmussen, Aidan Schacht, Madeline Thomas and Jasper Vasilevskis. Ethan Bennet is their teacher. Summit students are Maddie Bauer, Logan Benton, Braden Fitzgerald, Jack Glenn, Ava Podewitz, Kelsey Tardiff and Megan Robinson. Jenna Elsberry is their teacher.

II. Staff Spotlight

Brentwood High teacher Heather McHugh received the Tennessee Art Educator Association Secondary Art Educator of the Year.

Crockett Elementary was also celebrated for earning national recognition being named a 2019 National Blue Ribbon School.

c. Board Chairman's Report

Gary Anderson shared a list of school holiday performances with Board members and encouraged them to attend a program. He called on Board member Rick Wimberly to report on the Tennessee School Board Association conference.

Nancy Garrett and Dan Cash thanked the schools for their outstanding Veteran's Day programs.

7. Unfinished Business

There was no unfinished business.

8. New Business

a. Human Trafficking Professional Development Plan

Chairman Anderson called on Superintendent Golden who recommended approval of the human trafficking professional development training plan for teachers as presented required by new State requirements of TCA 49-6-3004.

Motion Passed: Motion by Mrs. Candace Emerson to approve the plan. A second was made by Ms. Sheila Cleveland.

Chairman Anderson called for a roll call vote on the motion.

Mr. Gary Anderson:	Yes
Mr. Dan Cash:	Yes
Ms. Sheila Cleveland:	Yes
Mrs. Angela Durham:	Yes
Mrs. Candace Emerson:	Yes
Mr. Brad Fiscus:	Yes
Mr. Jay Galbreath:	Yes
Mrs. Nancy Garrett:	Yes
Mr. KC Haugh:	Yes
Mr. Eliot Mitchell:	Yes
Mr. Eric Welch:	Yes
Mr. Rick Wimberly:	Yes

Yes: 12, Nay: 0

b. 2019-2020 School Board Budget

I. General Purpose School Budget Resolution for Buses

Chairman Anderson called on Superintendent Golden who recommended approval of the General Purpose School Budget Resolution for 14 replacement, 6 growth general education buses and 1 replacement special education bus with a estimated cost of \$2,031,000.

Motion Passed: Motion by Mr. Brad Fiscus to approve. A second was made by Mr. Dan Cash.

Chairman Anderson called for a roll call vote on the motion.

Mr. Gary Anderson: Yes
Mr. Dan Cash: Yes
Ms. Sheila Cleveland: Yes
Mrs. Angela Durham: Yes
Mrs. Candace Emerson: Yes
Mr. Brad Fiscus: Yes
Mr. Jay Galbreath: Yes
Mrs. Nancy Garrett: Yes
Mr. KC Haugh: Yes
Mr. Eliot Mitchell: Yes
Mr. Eric Welch: Yes
Mr. Rick Wimberly: Yes
Yes: 12, Nay: 0

II. General Purpose School Budget Resolution Intercategory Transfer for 2019-2020 Salary

Chairman Anderson called on Superintendent Golden who recommended approval of the Intercategory transfer of funds for the 2019-2020 salaries and benefits in the amount of \$10,260,667.

Motion Passed: Motion by Mr. Rick Wimberly to approve. A second was made by Mr. KC Haugh.

Chairman Anderson called for a roll call vote on the motion.

Mr. Gary Anderson: Yes
Mr. Dan Cash: Yes
Ms. Sheila Cleveland: Yes
Mrs. Angela Durham: Yes
Mrs. Candace Emerson: Yes
Mr. Brad Fiscus: Yes
Mr. Jay Galbreath: Yes
Mrs. Nancy Garrett: Yes
Mr. KC Haugh: Yes
Mr. Eliot Mitchell: Yes
Mr. Eric Welch: Yes
Mr. Rick Wimberly: Yes
Yes: 12, Nay: 0

III. General Purpose School Budget Resolution for New School Start Up Costs

Chairman Anderson called on Superintendent Golden who recommended approval of the General Purpose School Budget Resolution for start-up costs for the new middle school on Henpeck Lane not to exceed \$367,160.

Motion Passed: Motion by Mr. KC Haugh to approve. A second was made by Mr. Rick Wimberly.

Chairman Anderson called for a roll call vote on the motion.

Mr. Gary Anderson: Yes
Mr. Dan Cash: Yes
Ms. Sheila Cleveland: Yes
Mrs. Angela Durham: Yes
Mrs. Candace Emerson: Yes
Mr. Brad Fiscus: Yes
Mr. Jay Galbreath: Yes
Mrs. Nancy Garrett: Yes
Mr. KC Haugh: Yes
Mr. Eliot Mitchell: Yes
Mr. Eric Welch: Yes
Mr. Rick Wimberly: Yes
Yes: 12, Nay: 0

c. Substitute Teacher Incentive Bonus

Chairman Anderson called on Superintendent Golden who recommended approval of the Substitute Teacher incentive Bonus as presented.

Motion Passed: Motion by Ms. Sheila Cleveland to approve. A second was made by Mrs. Candace Emerson.

Chairman Anderson called for a roll call vote on the motion.

Mr. Gary Anderson: Yes
Mr. Dan Cash: Yes
Ms. Sheila Cleveland: Yes
Mrs. Angela Durham: Yes
Mrs. Candace Emerson: Yes
Mr. Brad Fiscus: Yes
Mr. Jay Galbreath: Yes
Mrs. Nancy Garrett: Yes
Mr. KC Haugh: Yes
Mr. Eliot Mitchell: Yes
Mr. Eric Welch: Yes
Mr. Rick Wimberly: Yes
Yes: 12, Nay: 0

d. 2020 Zoning Proposal

Chairman Anderson called on Superintendent Golden who recommended approval of the 2020 zoning proposal as follows:

Thompson's Station moves 28 current students and the proposed Southbrooke development with 205 proposed total lots/units to Oak View. This includes the south side of Goose Creek Bypass (McLemore Farms) and both sides of Lewisburg Pike south but does not include Callie subdivision.

Winstead moves the north side of Goose Creek Bypass to Oak View. No current students.

New Central East Middle School Zone 2020-21:

The new school's geographic area includes the portion of Carters Creek Pike attending Winstead Elementary, Coleman Road, Kittrell Road, West Harpeth Road, Columbia Pike to I-840, and Lewisburg Pike south but does not include Callie subdivision ; the eastern boundary follows the new Oak View zone

line, with the Franklin Special School District line forming the northern boundary. Students to the new middle school currently attend Heritage and Thompson's Station Middle Schools.

Middle School Zones:

Spring Station Middle Change 2020-21

Spring Station sends 58 current students to Thompson's Station Middle from the Bethesda zone.

Subdivisions include Anderson Acres, Aston Woods, and Cherry Grove.

Spring Station sends 172 current students to Heritage Middle west of Hurt Road from the Allendale zone.

Subdivisions include Augusta Trace, Crowne Pointe, Spring Meadow, and Wyngate Estates.

Allendale Elementary becomes a split feeder to Heritage Middle and Spring Station Middle.

No changes to high school zones for 2020-21.

Motion by Mr. Rick Wimberly to approve 2020 Zoning Proposal. A second was made by Mrs. Nancy Garrett.

Mr. Eliot Mitchell made a motion to suspend policy and amend the main motion to allow the rising 7th graders for the 2020-2021 school year at Spring Station Middle School who are being rezoned to Heritage Middle school for the 2020-2021 and the 2021-2022 school years. Mr. Mitchell explained that the intent of this motion is to effectively grandfather the current 6th grader class at Spring Station Middle School allowing them to finish their middle school career at Spring Station Middle School. Mr. K.C. Haugh seconded the amendment.

After lengthy discussion on the amendment to the zoning proposal, Mr. Rick Wimberly asked to move for the previous question. A second was made by Mr. Eric Welch.

Motion to Move for the Previous Question Passed: Chairman Anderson called for a voice call vote on the motion.

Mr. Gary Anderson:	Yes
Mr. Dan Cash:	Yes
Ms. Sheila Cleveland:	Yes
Mrs. Angela Durham:	Yes
Mrs. Candace Emerson:	Yes
Mr. Brad Fiscus:	Yes
Mr. Jay Galbreath:	Yes
Mrs. Nancy Garrett:	Yes
Mr. KC Haugh:	Yes
Mr. Eliot Mitchell:	Nay
Mr. Eric Welch:	Yes
Mr. Rick Wimberly:	Yes

Yes: 11, Nay: 1

Motion on the Amendment Failed: Chairman Anderson called for a roll call vote on the amendment to the motion.

Mr. Gary Anderson:	Nay
Mr. Dan Cash:	Yes
Ms. Sheila Cleveland:	Nay
Mrs. Angela Durham:	Nay
Mrs. Candace Emerson:	Nay
Mr. Brad Fiscus:	Nay
Mr. Jay Galbreath:	Yes

Mrs. Nancy Garrett:	Nay
Mr. KC Haugh:	Yes
Mr. Eliot Mitchell:	Yes
Mr. Eric Welch:	Nay
Mr. Rick Wimberly:	Nay

Yes: 4, Nay: 8

Main Motion Passed: Chairman Anderson called for a roll call vote on the main motion to approve the 2020 Zoning Proposal.

Mr. Gary Anderson:	Yes
Mr. Dan Cash:	Yes
Ms. Sheila Cleveland:	Yes
Mrs. Angela Durham:	Yes
Mrs. Candace Emerson:	Yes
Mr. Brad Fiscus:	Yes
Mr. Jay Galbreath:	Yes
Mrs. Nancy Garrett:	Yes
Mr. KC Haugh:	Yes
Mr. Eliot Mitchell:	Nay
Mr. Eric Welch:	Yes
Mr. Rick Wimberly:	Yes

Yes: 11, Nay: 1

e. Five Year Capital Plan

Chairman Anderson called on Superintendent Golden who recommended approval of the Five Year Capital Plan as presented.

Motion Passed: Motion by Mr. KC Haugh to approve. A second was made by Ms. Sheila Cleveland.

Chairman Anderson called for a roll call vote on the motion.

Mr. Gary Anderson:	Yes
Mr. Dan Cash:	Yes
Ms. Sheila Cleveland:	Yes
Mrs. Angela Durham:	Yes
Mrs. Candace Emerson:	Yes
Mr. Brad Fiscus:	Yes
Mr. Jay Galbreath:	Yes
Mrs. Nancy Garrett:	Yes
Mr. KC Haugh:	Yes
Mr. Eliot Mitchell:	Yes
Mr. Eric Welch:	Yes
Mr. Rick Wimberly:	Yes

Yes: 12, Nay: 0

f. Board Policies - First Reading

I. 1.403 Agendas

Chairman Anderson called on Superintendent Golden who recommended approval of Board Policy 1.403 Agendas on first reading as presented.

Motion Passed: Motion by Mr. Eliot Mitchell to approve. A second was made by Mr. Dan Cash.

Chairman Anderson called for a roll call vote on the motion.

Mr. Gary Anderson:	Yes
Mr. Dan Cash:	Yes
Ms. Sheila Cleveland:	Yes
Mrs. Angela Durham:	Yes
Mrs. Candace Emerson:	Yes
Mr. Brad Fiscus:	Yes
Mr. Jay Galbreath:	Yes
Mrs. Nancy Garrett:	Yes
Mr. KC Haugh:	Yes
Mr. Eliot Mitchell:	Yes
Mr. Eric Welch:	Yes
Mr. Rick Wimberly:	Yes
Yes: 12, Nay: 0	

9. Adjournment

There being no further business, Chairman adjourned the meeting at 8:25 p.m.

Chairperson

Superintendent

Williamson County Board of Education

Monitoring: Review: Annually, in July	Descriptor Term: Agendas	Descriptor Code: 1.403	Issued Date:
		Rescinds: 1.403	Issued: 01/18/18

1 The Chair and the Superintendent of Schools shall determine the agenda.¹ While developing the
2 agenda, the Chair and Superintendent shall identify routine or non-controversial items to be placed on
3 the consent agenda, which shall become a part of the regular agenda. If any member objects to
4 including an item on the consent agenda, that item shall be moved to the regular agenda as an action
5 item requiring discussion. The remaining consent items shall be adopted in a single vote without
6 discussion.

7 Additional items of business may be placed on the board work session agenda under “Topics for
8 Discussion” at the request of a board member made in writing. Board members wishing to suggest an
9 item of business for the agenda shall notify the Superintendent and Chair in writing at least ten (10)
10 working days before the board work session. The Board may from time to time invite subject matter
11 experts to provide informational presentations as part of the work session agenda.

12 Regular meetings shall be conducted under the following order of business:

- 13 1. Call to Order, Pledge and Moment of Silence
- 14 2. Items of Public Interest (Public Comment)**
- 15 3. Approval of Agenda*/Items of Consent (Consent Agenda)
- 16 4. Communications to the Board (requiring no action)
- 17 5. Unfinished Business
- 18 6. New Business
- 19 7. Adjournment

20 *Note: Once the agenda has been approved, it may not be changed without action to set aside Board
21 policy.

22 **Thirty (30) minutes will be placed on the agenda for the Chair to recognize individuals to make
23 comments. At the discretion of the Chair, this time may be extended. Williamson County residents and
24 WCS employees shall have first priority. In the event time remains, the Chair may allow nonresidents
25 to speak. All persons addressing the Board will state his/her name, provide his/her address and provide
26 the name of the organization or group he/she represents before addressing the Board. The Board
27 reserves the right to limit the time of any speaker. [The Chair shall have the authority to terminate the
28 remarks of any individual who is disruptive or does not adhere to Board rules.](#)²

29 Under the tenure recommendations section of the agenda, if a Board member requests that any specific
30 tenure recommendation(s) be acted upon separately, this request will be honored automatically.

31 Agendas for special-called meetings of the School Board shall be established pursuant to requirements
32 established by Tennessee law.

- 1 The agenda shall be available at each meeting for visitors. The agenda shall be available online to the
- 2 members, the media, and the public.

Legal References

1. TCA 49-2-206
2. [TCA 39-17-306](#)

Cross References

- Duties of Officers 1.201
Executive Committee 1.301

Williamson County Board of Education

Monitoring: Review: Annually, in April	Descriptor Term: <h2 style="text-align: center;">Emergency Allergy Response Plan</h2>	Descriptor Code: <h3 style="text-align: center;">6.412</h3>	Issued Date:
		Rescinds:	Issued:

1 The Superintendent of Schools/*designee* shall develop and maintain an emergency allergy response plan
 2 that meets state guidelines for managing students with life-threatening allergies. The Plan shall include
 3 measures to reduce exposure to allergens and procedures to treat allergic reactions. Components of the
 4 plan shall include but are not limited to: education and training of personnel, record
 5 keeping/documentation, development and reviews of the allergy action plan, and protocols for
 6 classrooms and cafeterias that include strategies to reduce exposure to allergens.¹

7 Using the state food allergy guidelines plan as a guide, the Superintendent of Schools/*designee* shall also
 8 develop a process to identify all students with food allergies and develop and implement an
 9 **Individualized Healthcare Plan (IHP)** with an allergy action plan for each specific student.²

10 EPINEPHRINE AUTO-INJECTORS

11 The Williamson County Board of Education believes schools should be prepared to treat allergic
 12 reactions in the event a student's personal epinephrine auto-injector is not available or the student is
 13 having a reaction for the first time.

14 Each school shall maintain epinephrine auto-injectors in at least two (2) unlocked, secure locations
 15 ~~including, but not limited to, the school office and the school cafeteria,~~ so they may be administered to
 16 any student believed to be having a life-threatening allergic or anaphylactic reaction.

17 In the event of such a reaction, the school nurse or other trained school personnel may utilize these
 18 epinephrine auto-injectors to respond, under a standing protocol from a physician.

19 The Superintendent of Schools/*designee* is authorized to seek the auto-injectors through a prescription
 20 written to Williamson County Schools. Upon the issuance of the auto-injectors, the Superintendent of
 21 Schools/*designee* shall ensure that they are placed within each school and that any needed trainings are
 22 conducted for staff.

Legal References

1. TCA 49-50-1602(f)
2. *Guidelines for Use of Health Care Professionals and Health Care Procedures in a School Setting* (Tennessee Department of Education and Tennessee Department of Health, 2014)

Cross References

Medicines 6.405

1320 West Main Street Suite 202
Franklin, Tennessee 37064-3700
Phone (615) 472-4000
Fax (615) 472-4190
Website: <http://www.wcs.edu>



MEMORANDUM

TO: Williamson County Board of Education

FROM: Dana M. Ausbrooks, General Counsel

CC: Jason Golden, Superintendent of Schools

DATE: January 7, 2020

SUBJECT: Annual Review of Board Policies

Tenn. Code Ann. § 49-2-207 requires that the Board Policy Manual be updated every two (2) years. This required review is on our Annual Agenda to remind us of the statutory requirement. Over the past year the standing Policy Committee and staff have completed a comprehensive review of all our Board Policies. Therefore, we are in compliance with this legal requirement.

School Board Field Trip Approval Report

(Field Trips With Student Fees over \$100)

Trip ID	Trip Date	Return Date	Approved	Origin	Trip Name	Trip Type	Activity Type	#	Destination
26569	1/17/2020	1/18/2020	12/6/2019	Centennial High	ThesCon 2020	Academic Field Trip	9th - 12th grade	40	MTSU
<i>Notes/Fees over100 - \$150 total cost per child.</i>									
26738	1/16/2020	1/18/2020	12/18/2019	Franklin High	FHS Orchestra Mid State	Band Trip	Strings	9	Blackman HS
<i>Notes/Fees over100 - \$110 Students will be meeting at RHS with all WCS Orchestra students participating in MTSBOA Mid State Weekend. No school bus needed.</i>									
26813	4/18/2020	4/18/2020	1/7/2020	Heritage Middle	Heritage Middle Dollywood	Band Trip	Strings	90	Dollywood Theme Park
<i>Notes/Fees over100 - \$185 Per Student approximately. Fundraising will raise hopefully all of the funds for the trip. Charter bus transportation included in the fee, no WCS bus needed.</i>									
26692	2/27/2020	3/1/2020	12/16/2019	Page High	Youth in Government	Academic Field Trip	Youth in Government	15	TN Capital Bldg
<i>Notes/Fees over100 \$350 per student which covers their registration fees and hotel rooms</i>									
26688	1/17/2020	1/18/2020	12/8/2019	Renaissance High School	ThesCon Trip	Band Trip	Drama	4	Middle Tennessee State University
<i>Notes/Fees over100 - \$110 per student. Students paid \$75 for the registration for the conference. Additional \$35 will cover the cost of the one night in a hotel.</i>									

Facilities & Construction
1320 West Main Street, Suite 202
Franklin, TN 37064
Tel. (615)-472-4041
Fax (615)-472-5622



MEMORANDUM

DATE: January 8, 2020

TO: School Board Members

FROM: Kevin Fortney *KF*
Director of Facilities & Construction

CC: Jason Golden, Superintendent of Schools
Mark Samuels, Asst. Superintendent of Operations

RE: **Tennessee Department of Transportation Request for Temporary Construction, Slope, & Permanent Drainage Easements, Hwy 100 at Fairview Elementary School Property**

Tennessee Department of Transportation (TDOT) has requested easements along Highway 100 fronting Fairview Elementary School. TDOT is requesting the easements to allow for roadway, slope and sidewalk improvements along the frontage of the school.

TDOT has provided an appraisal of the property and has made an offer to the purchase the requested easements for a total cost of \$7,500. A copy of the offer and the proposed project plans are attached for your review. Staff recommends approval of this request.

**State of Tennessee Department of Transportation
Approved Offer Compensation**

ROW FORM-2
Revision 11-05-2014

RECEIVED
OCT - 9 2019

STATE PROJ. #: 94013-2220-14
FED PROJ. #: STP-EN-NH-100(83)
PIN #: 126905.00
TAX MAP/PARCEL NO: 046/006.00
OWNERS: Williamson County Board of Education

COUNTY/S Williamson
FIELD OFFICE: Region 3
FORM 2 DATE: 10/9/2019
TRACT #: 5

BY: *[Signature]*

SUMMARY OF REPORTS

PERSONNEL	APPRAISER'S NAME	APPRAISAL AMOUNT	EFFECTIVE VALUATION	TYPE REPORT
Gregory K Zieba	Ted Boozer	\$7,500.00	08/15/2019	Formal Part Affected (FPA)

APPROVED ACQUISITION AREAS/COMPENSATION

INTERESTS ACQUIRED	ORIGINAL ACQUISITION AREAS	ORIGINAL APPROVED COMP.	REVISED ACQUISITION AREAS	REVISED APPROVED COMPENSATION	ALTERNATE ACQUISITIONS AREAS	ALTERNATE APPROVED COMP.
LAND (FEE SIMPLE)		\$0.00				
PDE	2,200 s.f.	\$2,040.00				
SLOPE EASEMENT	1,033 s.f.	\$768.00				
TCE	0.262 Ac.	\$3,144.00				
AIR RIGHTS		\$0.00				
ACCESS CONTROL		\$0.00				
AVIGATION		\$0.00				
OTHER		\$98.00				
(LAND OWNER) IMPROVEMENTS		\$1,450.00				
(OWNER) DAMAGES/BENEFITS		\$0.00				
APPROVED OFFER AMOUNT		\$7,500.00				
UTILITY ADJUSTMENT		\$0.00				
(OWNER) TOTAL		\$7,500.00				
TENANT IMPROVEMENTS TOTAL		\$0.00				
FORM 2 GRAND TOTAL		\$7,500.00				

ORIGINAL AREA SUMMARY			ALTERNATE AREA SUMMARY		
ORIGINAL AREA BEFORE	ORIGINAL AREA ACQUIRED	ORIGINAL AREA AFTER	ALTERNATE AREA ACQUIRED		ALTERNATE AFTER AREA ACQUISITION
11.040 Ac.	0.000 Ac.	11.040 Ac.			

COMMENTS TO NEGOTIATOR

The appraisal report appears to be well founded, documented and supported with data found for the market area of the project. The analysis and logic employed are based on accepted methods for appraisal Scope of Work. The amount noted in the appraisal report totaled \$7,450.00. The approved Total Amount Due Owner has been rounded to \$7,500.00 by the appraisal reviewer.

Completed By: *[Signature]*

Agency Staff Approval (If Consultant)

Index Of Sheets

SHEET NO	DESCRIPTIONS
1	TITLE SHEET
2	TYPICAL SECTIONS
3	RIGHT-OF-WAY & UTILITY NOTES UTILITY OWNERS AND DISTURBED AREA
3A	RIGHT-OF-WAY ACQUISITION TABLE
3B-3F	PROPERTY MAP
4-13	PRESENT LAYOUT
4A-13A	RIGHT-OF-WAY DETAILS
4B-13B	PROPOSED LAYOUT
4C-13C	PROFILE
14-14D	PROFILES OF PRIVATE DRIVES
15	EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) NOTES
16-16I	EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) PLANS STAGE 1
17-17I	EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) PLANS STAGE 2
18-18I	EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) PLANS STAGE 3
19-19E	CULVERT CROSS-SECTIONS
20-23	ROADWAY CROSS-SECTIONS

NO PROJECT COMMITMENTS SHEET INCLUDED IN THIS SET OF PLANS

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

WILLIAMSON COUNTY

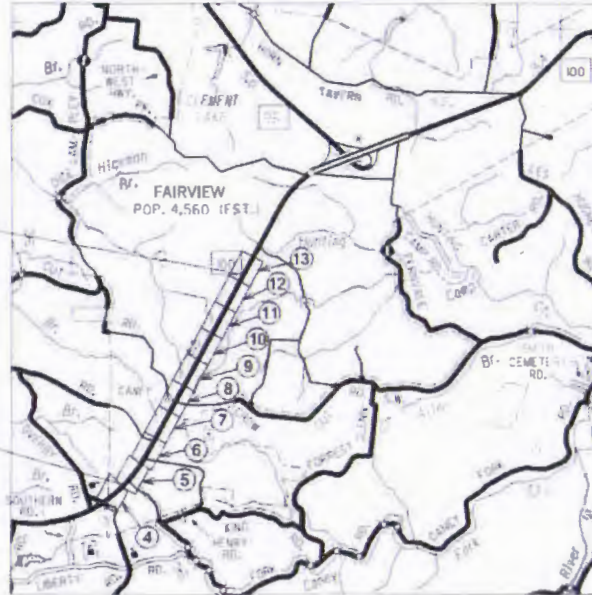
SR-100, FROM THE FAIRVIEW COMMUNITY CENTER NORTH OF DEER RIDGE RD TO BOWIE LAKE RD IN FAIRVIEW

**RIGHT-OF-WAY
SIDEWALK PROJECT**

STATE HIGHWAY NO. 100 F.A.H.S. NO.

TENN.	YEAR	SHEET NO.
	2019	1
PROJECT FILE NO. STP-EN-NH-100(83)		
DATE OF PRINTING 04013-2220-14		

PROJECT LOCATION
WILLIAMSON COUNTY



EXCLUSIONS	
STATION TO STATION	LENGTH (+/-)
373+89.00 - 383+27.23	898.23
TOTAL =	898.23

**R.O.W.
PLANS**

DESIGNED BY

08/15/2019

APPROVED:
PAUL C. MCGEEHEE, CHIEF ENGINEER

APPROVED:
CLAY BROUGHTON, COMMISSIONER

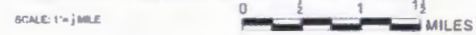
94013-2220-14
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STA. 408+00.00
N 597265.3522 E 1623839.7648

94013-2220-14
BEGIN PROJECT NO. STP-EN-NH-100(83) R.O.W.
STA. 296+00.00
N 597861.2248 E 1628147.0948

SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED JANUARY 1, 2015 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.



R.O.W. LENGTH 2.121 MILES

S.R. 100

SURVEY 05-31-18	TRAFFIC DATA
	ADT (2018) 14250
	ADT (2039) 30210
	DHV (2039) 3223
	D 85 - 35
	T (ADT) 2%
	T (DHV) 1%
	V 45 MPH

STATE PLANE COORDINATES ARE BASED ON GPS MEASUREMENTS OBTAINED 04-17-18 USING GEOD. 83 MODEL AND DATUM ADJUSTMENT FACTOR OF 1.000000

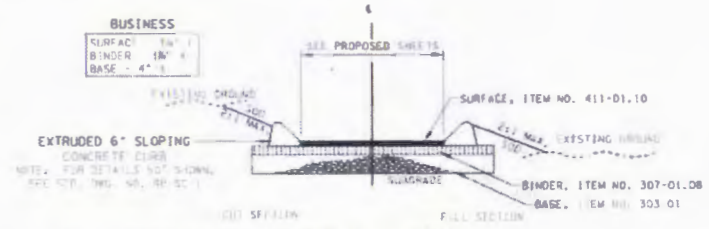
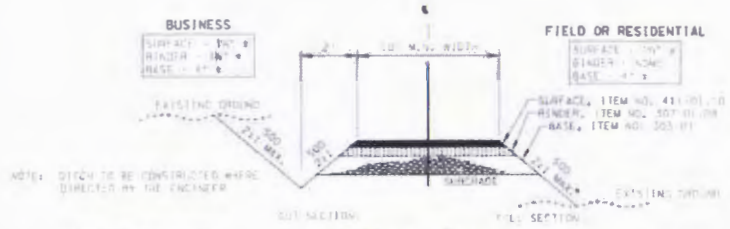
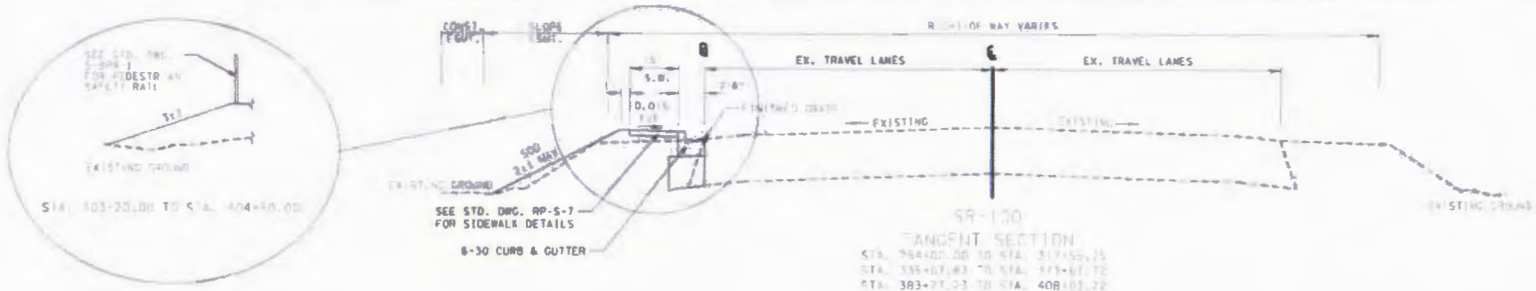
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED: _____ DATE _____
DIVISION ADMINISTRATOR

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TDOT C.E. MANAGER 1 ASO HAJVRAMI P.E.
DESIGNED BY: NEEL-SCHAFER
DESIGNER: ALICIA RUDOLPH P.E. CHECKED BY: MICHAEL AGNEW P.E.
P.E. NO. 94013-1220-14 (DESIGN)
PIN NO. 136885.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2019	STP-EN-NH-1001021	2



R.O.W. PLANS

DRAWN BY

STATE OF TENNESSEE
 DEPARTMENT OF
 TRANSPORTATION

TYPICAL SECTIONS

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TYPE	YEAR	PROJECT NO	SHEET NO.
R.O.W.	2010	STP-EN-NH-100(03)	3A

REV 08/15/19: REVISED TRACT NO. 29
 PARCEL NO. REVISED TRACT NO. 38
 BOOK NO. REVISED TRACT NO. 37
 TAX MAP NO. AND PARCEL NO.

R.O.W. ACQUISITION TABLE

TRACT NO	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA (ACRES)		AREA TO BE ACQUIRED (ACRES)			AREA REMAINING (ACRES)		EASEMENT (ACRES)						
		TAX MAP NO	PARCEL NO	DEED DOCUMENT REFERENCE		LEFT	RIGHT	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERMANENT	SLOPE	CONSTRUCTION	AIR RIGHTS			
				BOOK	PAGE														
1	WILLIAMSON COUNTY	63	28	752	738	21.763			21.763			1111 S F	3415 S F	5.280					
2	TERRY CLYDE WHITE	REC "A"	31	5196	158	0.847			0.847			6.047	1948 S F	3388 S F					
3	JANINE LEE FARRAR	270 "A"	2	628	278	1.297			1.297			1.297							
4	GARY JAWORSKI AND GLENDA JAWORSKI	68	32	583	632	1.381			1.381			1817 S F	180 S F	2.082					
5	WILLIAMSON COUNTY BOARD OF EDUCATION	48	86	123	191	11.004			11.004			2220 S F	1033 S F	2.088 S F					
6	FRANCES C NEWCOMB ETAL	68D "A"	E	1279	604		0.889	0.889			0.889	777 S F	1260 S F	2218 S F					
7	KATHY G WHITE	68D "A"	F	525	752		0.886	0.886			0.886	328 S F	180 S F	1579 S F					
8	FRANCES C NEWCOMB ETAL	68D "A"	G	1279	304		0.670	0.670			0.670	572 S F		1181 S F					
9	WILLIAMSON COUNTY TENNESSEE	46	110 03	238	414		3.088	3.088			3.088	660 S F	2069 S F	0.184					
10	DONNA G OWENS	68M "A"	4	5338	522	0.936			0.936			0.936	348 S F	3208 S F					
11	WILLIAMSON COUNTY BOARD OF EDUCATION	48	110	1825	761		78.686	78.686		1082 S F	1082 S F	0.838	412 S F	175 S F	1177 S F				
12	BARBARA F MANGRIM	48M "A"	3	5906	583	1.000			1.000			78.455	1094 S F	1879 S F					
13	TERRY HAMM AND SHERRI HAMM	48M "A"	2	5430	2	1.025			1.025				1675 S F	1821 S F					
14	DAVID W PETERSEN AND SAMORA L PETERSEN	48M "A"	1	528	612	1.041			1.041				818 S F	1594 S F					
15	GERALD E. PARHAM AND DAWN E. PARHAM	46	110 05	681	659	0.988			0.988				830 S F	21 S F	1828 S F				
16	SHARLENE L. COOPER AND JOSE B. WELBY	46	110	3879	689	11.304			11.304			11.304							
17	THELMA JONES	48	110 08	121	721	0.964			0.964			0.964	750 S F	2046 S F	2387 S F				
18	CLEVELAND JONES AND THELMA JONES	48	110 11	968	788	1.082			1.082				600 S F	688 S F					
19	THELMA JONES	48	110 06	420	112	1.160			1.160				3040 S F	2203 S F	2921 S F				
20	LISA A THORPE	48L "A"	16	4608	654	0.742			0.742				1288 S F	150 S F	580 S F				
21	MARY ALLEN BIBEE	48L "A"	15	2488	314	0.778			0.778				662 S F		703 S F				
22	RENEVERE ANDREW AND GARY C. ANDREWS	48L "A"	14	280	280	0.775			0.775										
23	RENEVERE ANDREW AND GARY C. ANDREWS	48L "A"	14	280	280	0.889			0.889										
24	PAUL C VOLURY	48	67	244	429	2.252			2.252						2081 S F				
25	JOHN M BLACKWELL AND KANDE D BLACKWELL	48	88	1408	493	0.820			0.820				450 S F	103 S F	1738 S F				
26	WILLIAM BERNARD AND LORNA S. BERNARD	48	88-21	588	588	0.888			0.888										
27	WILLIAM BERNARD MESER II AND JAN LAVERNE MESER	46	97	2013	833	0.933			0.933				250 S F						
28	STEVE A DOERR AND KAREN A DOERR	46	94	6454	445	2.224			2.224				2382 S F	733 S F	1727 S F				
29	COMMUNITY HOUSING PARTNERSHIP OF WILLIAMSON COUNTY	46	03	1309	15	1.430			1.430					855 S F	1281 S F				
30	CHAD DROPPER AND JANET DROPPER	46	09	1842	500	14.158			14.158				773 S F	476 S F	3480 S F				
31	CHAD DROPPER AND JANET DROPPER	48	08	6856	238	1.861			1.861				37 S F	598 S F	1480 S F				
32	MIDDLE TENNESSEE ELECTRIC	48	08	225	127	3.825			3.825				353 S F						
33	JOHN CAMPBELL	48	08	888	888	10.888			10.888										
34	JOHN CAMPBELL	48	08-08	888	888	0.888			0.888										
35	JOHN CAMPBELL TENNESSEE COMMUNITY HOUSING TRUST	48	08-20	782	274	0.888			0.888										
36	GRAND CENTRAL STATION PARTNERSHIP	46	83	6244	817	1.150			1.150				852 S F	3 S F	1563 S F				
37	JIM PRINCE AND KAY PRINCE	47	6 03	1837	39	0.781			0.781				348 S F	1480 S F	2517 S F				
38	DEBORAH W THOMPSON JR AND GARY STEVEN THOMPSON	47	5 02	8809	234	1.838			1.838				960 S F	1130 S F	1732 S F				
39	THE TENNESSEE COMMUNITY HOUSING TRUST	48	08	2998	298	14.988			14.988										
40	SS FAIRVIEW LLC	47	5 01	382	204	1.887			1.887				3482 S F	210 S F	1850 S F				
41	WATER AUTHORITY OF DICKSON COUNTY	47	5 04	4071	697	2632 S F			2632 S F				698 S F						
42	BOYLE W MANGRIM AND BARBARA MANGRIM	48	4	788	88	1.888			1.888										
43	JOHN CAMPBELL AND KAY CAMPBELL	47	5	8889	889	0.889			0.889										
44	JOHN CAMPBELL AND KAY CAMPBELL	47	5	8889	889	0.889			0.889										
45	SS FAIRVIEW LLC	47	2 03	4633	713	2.088			2.088				1363 S F	831 S F	2880 S F				
46	CARVALHO CONNECTION INC	47A "C"	2	4871	813	0.688			0.688				1408 S F						
47	EDWARD FAGUN AND JOEY FAGUN	42B "A"	5	1754	683	0.826			0.826				1803 S F						
ACQUISITION TOTALS (ACRES)																			
										1082 S F		0.888		0.838		2.621			

**R.O.W.
PLANS**

SCALE: 1" = 40'

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

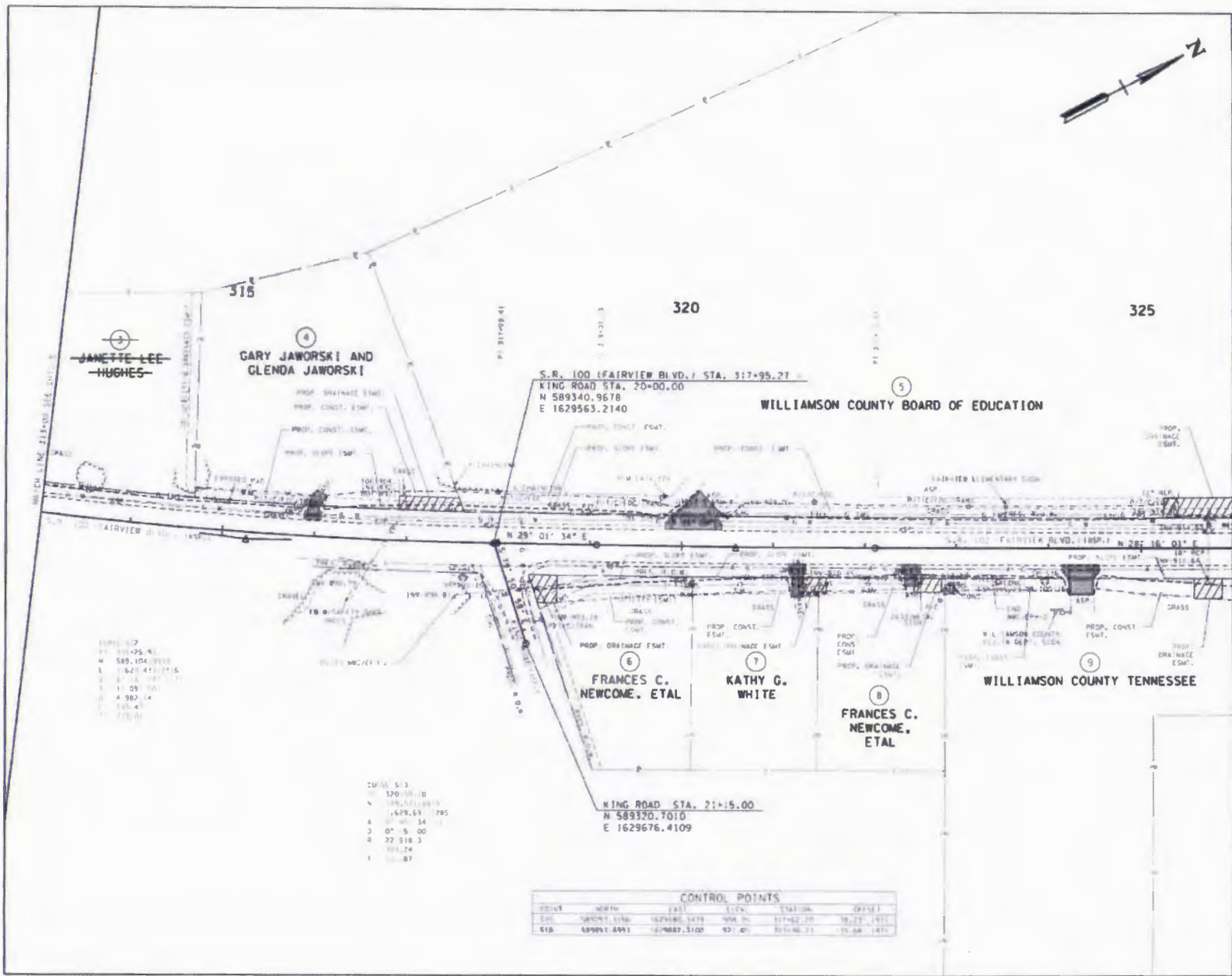
RIGHT-OF-WAY
ACQUISITION
TABLE

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R.O.W.	2019	STP-EN-NH-100(83)	6

1	100	100
2	100	100
3	100	100
4	100	100
5	100	100
6	100	100
7	100	100
8	100	100
9	100	100
10	100	100

CURV	5.3
120	100.00
1	1629.69
2	1629.69
3	0
4	22
5	100.24
6	100.24

POINT	NORTH	EAST	ELEV.	STATION	OFFSET
1	1629.69	1629.69	100.00	100+00.00	0.00
2	1629.69	1629.69	100.00	100+00.00	0.00
3	1629.69	1629.69	100.00	100+00.00	0.00
4	1629.69	1629.69	100.00	100+00.00	0.00

R.O.W. PLANS

SCALE BY

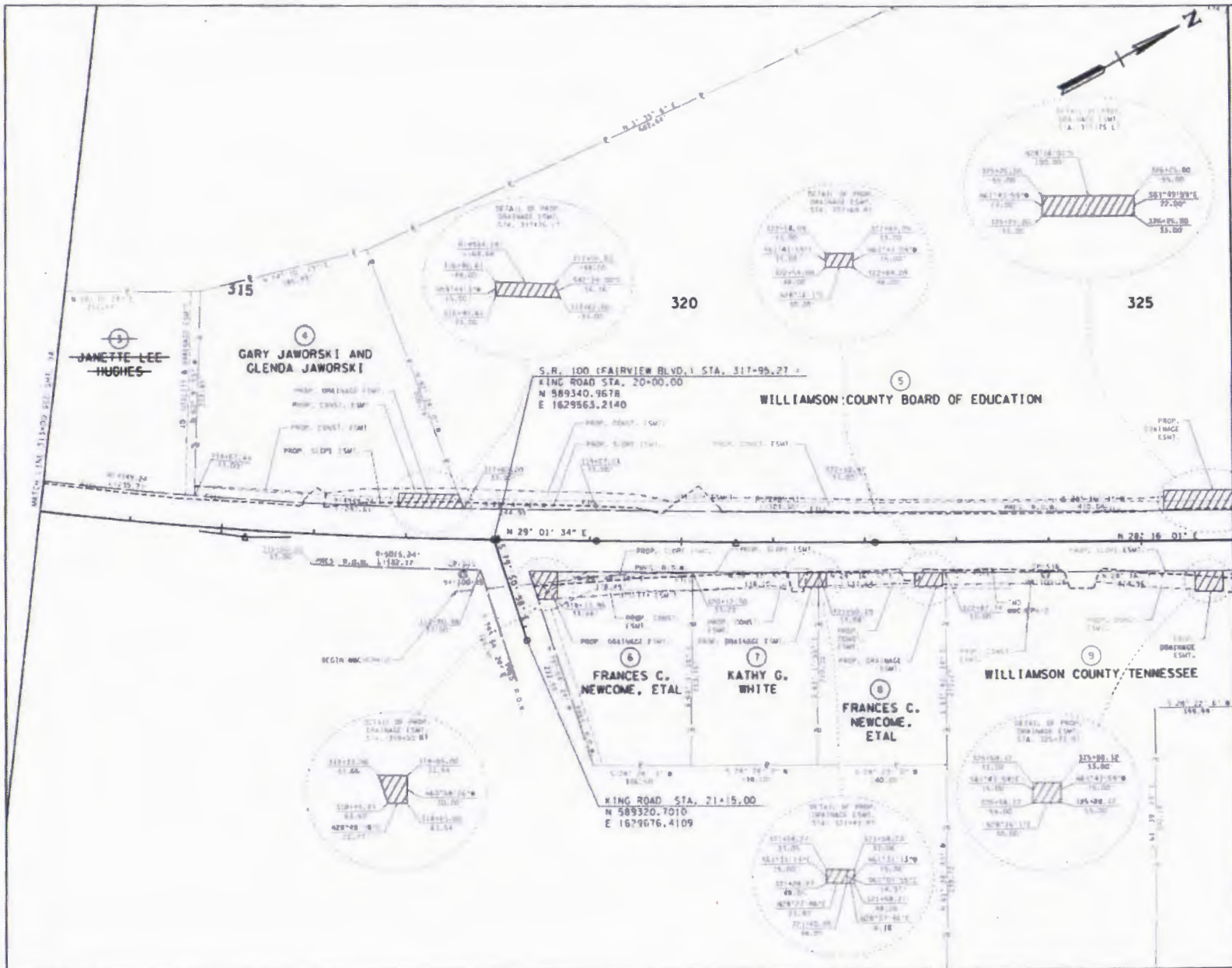
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STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

PRESENT LAYOUT
STA. 313+00 TO STA. 326+00
SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2018	STP-EN-NH-100(83)	8A

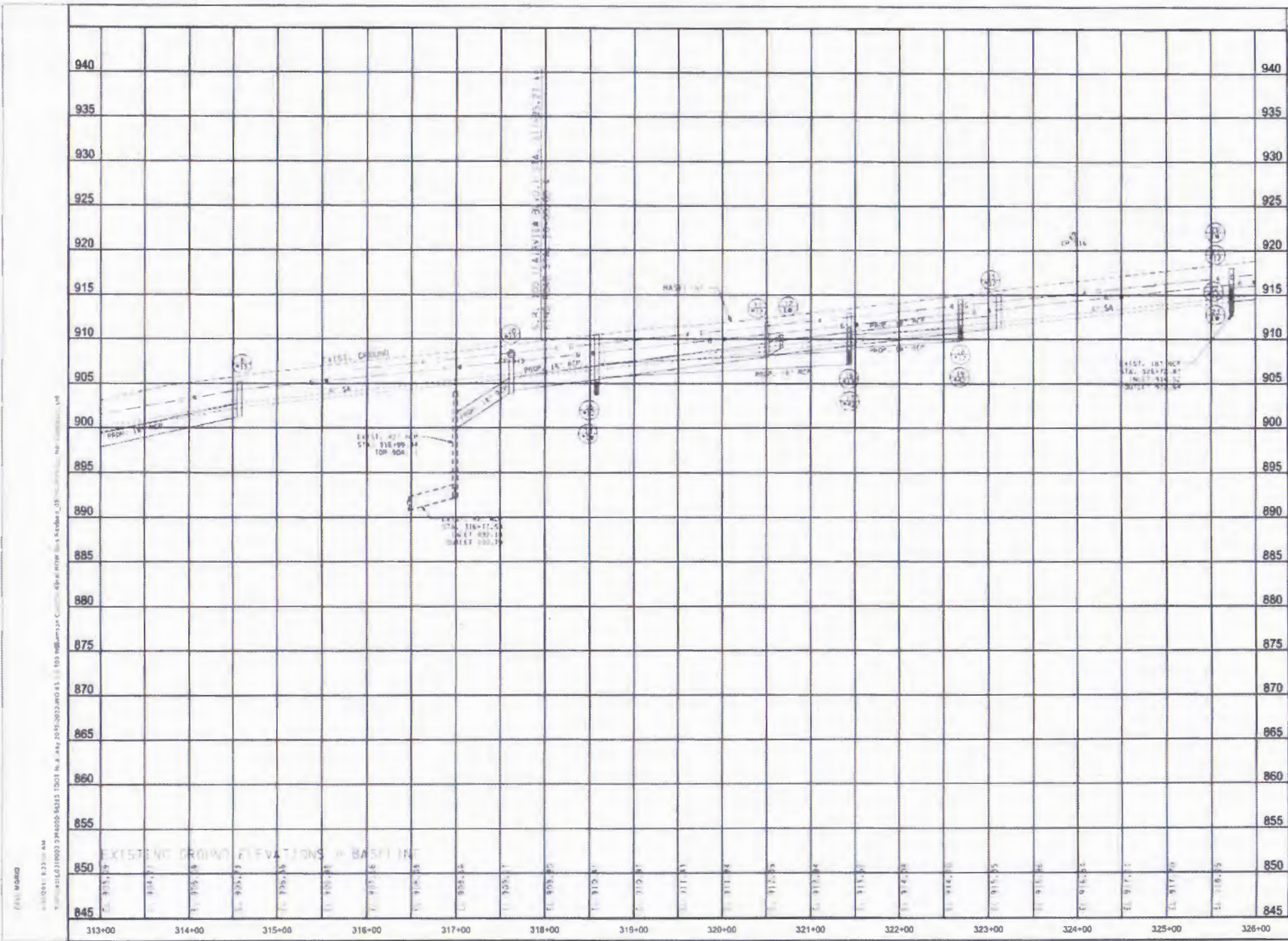
**R.O.W.
PLANS**

SCALE BY

COORDINATES ARE NAD83(1983) AND DATUM ADJUSTED BY THE FACTOR OF 1.000086 AND THE TO THE FORM. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988

STATE OF TENNESSEE
 DEPARTMENT OF
 TRANSPORTATION

**RIGHT-OF-WAY
DETAILS**
 STA. 313+00 TO STA. 328+00
 SCALE: 1"=50'



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2010	STP-EN-NH-100(83)	83

R.O.W.
PLANS

DATE BY

COORDINATES ARE NAD 83 (1995)
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THE TDN AL. ELEVATIONS ARE
REFERENCED TO THE NAVD 1988

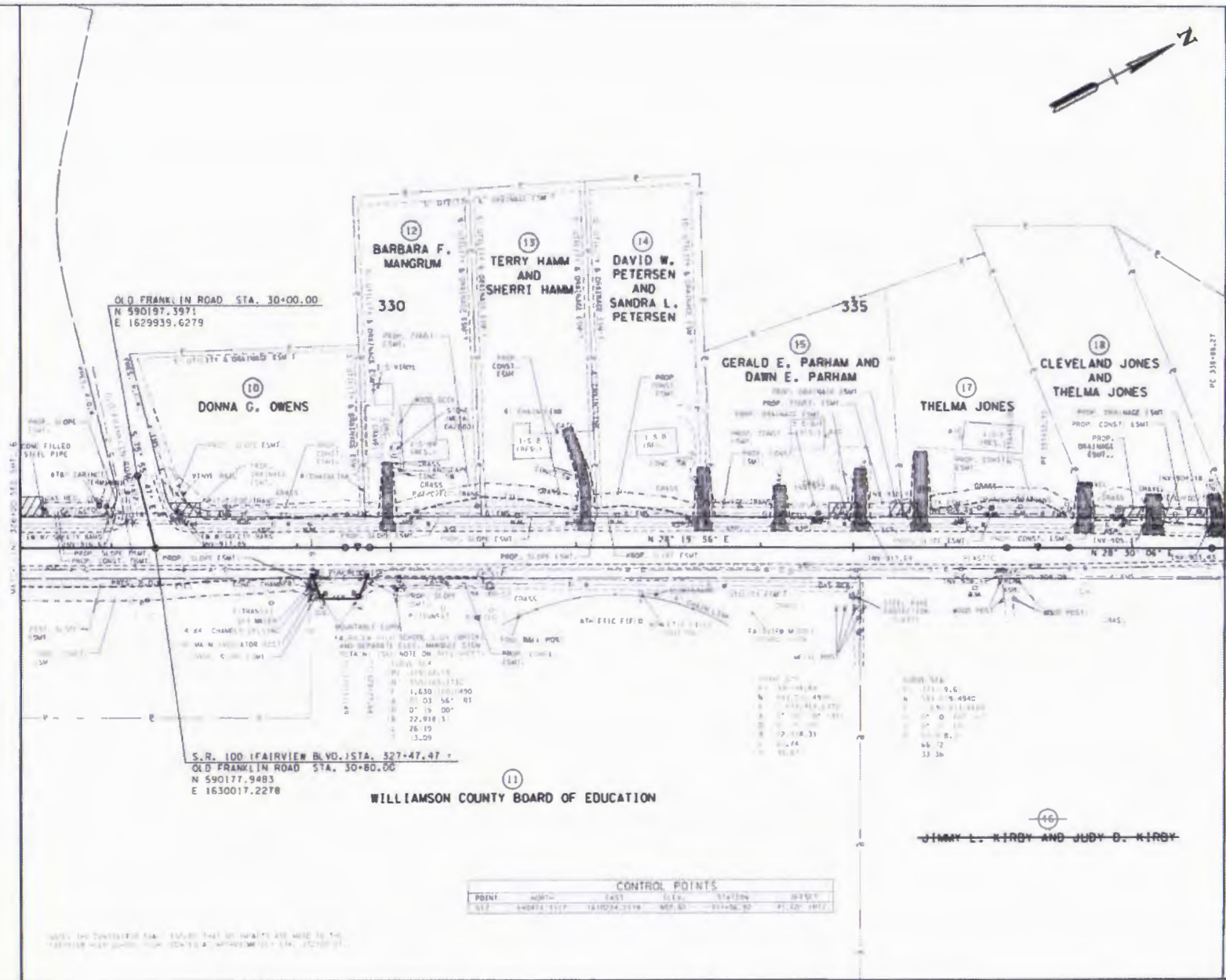
STATE OF VERMONT
DEPARTMENT OF
TRANSPORTATION

PROFILE

STA 313+00 TO STA 326+00
SCALE: 1"=50' HORIZ
1"=5' VERT

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2019	STP-EN-NH-100(83)	7



**R.O.W.
PLANS**

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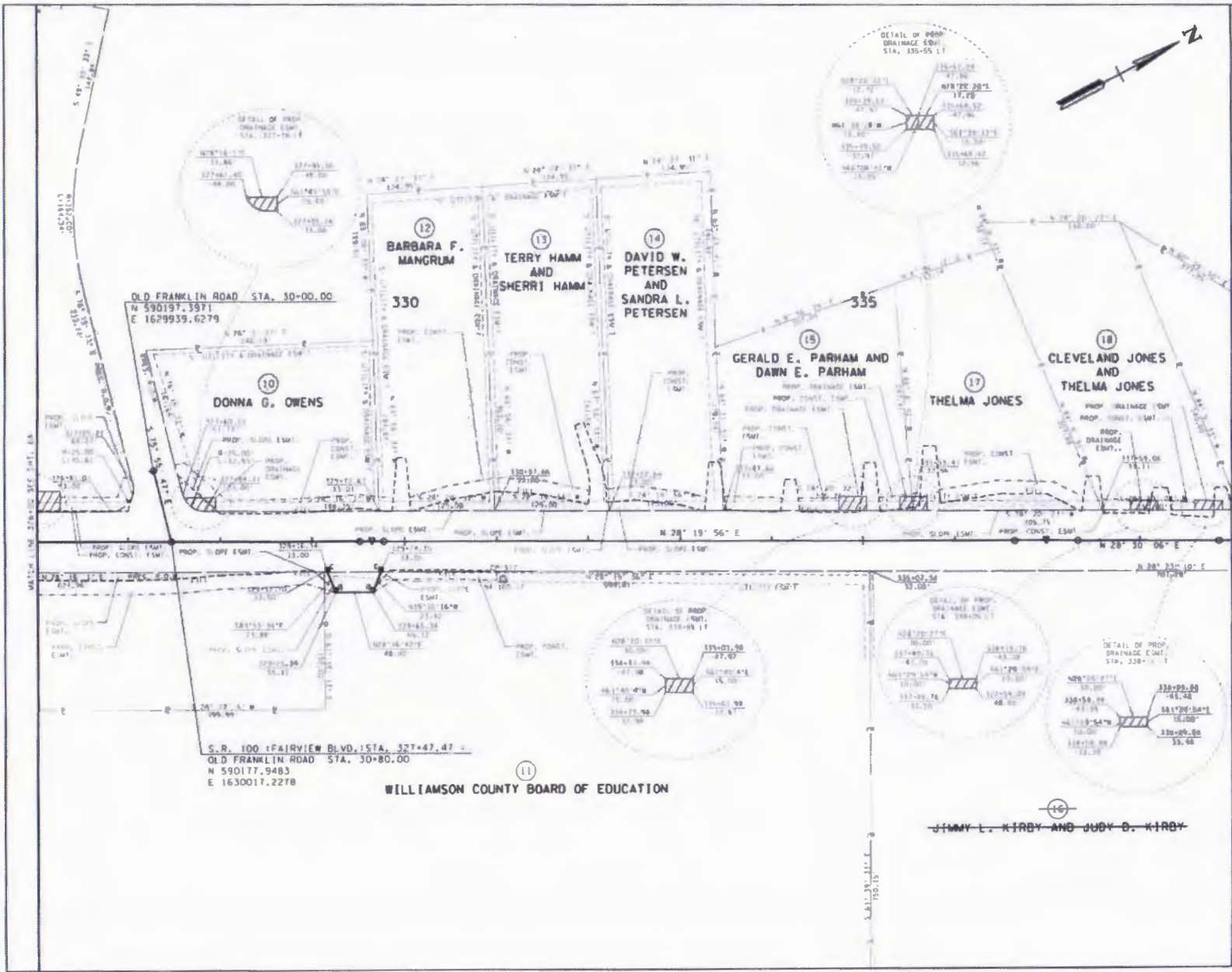
STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

**PRESENT
LAYOUT**
STA 326+00 TO STA 338+00
SCALE: 1"=50'

POINT	EASTING	NORTHING	ELEV.	STATION	REMARKS
112	440472.1117	1610294.3119	967.83	31+56.50	PI. END. 1971

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2019	STP-EN-NH-100(83)	TA

R.O.W. PLANS

CREATED BY

COORDINATES ARE NAD(83) (1983) ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TOWN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988

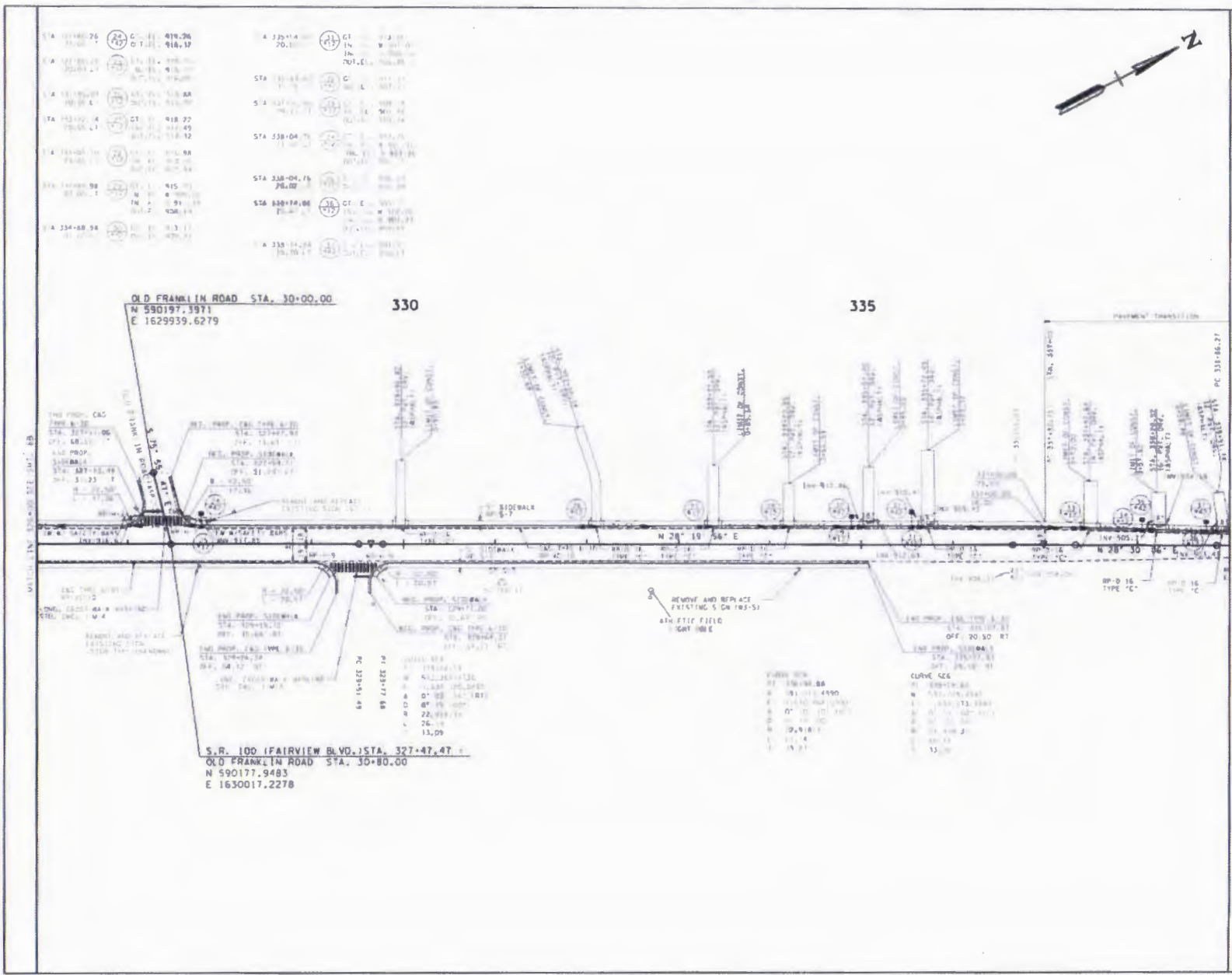
STATE OF TENNESSEE
 DEPARTMENT OF
 TRANSPORTATION

**RIGHT-OF-WAY
 DETAILS**

STA. 326+00 TO STA. 339+00
 SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2018	STP-EM-NM-1001821	7D

R.O.W.
PLANS

SEAL BY

COORDINATES ARE NAD83/1995;
 ARE DATUM ADJUSTED BY THE
 FACTOR OF 1.00008 AND TYPED TO
 THE TOTAL ELEVATIONS ARE
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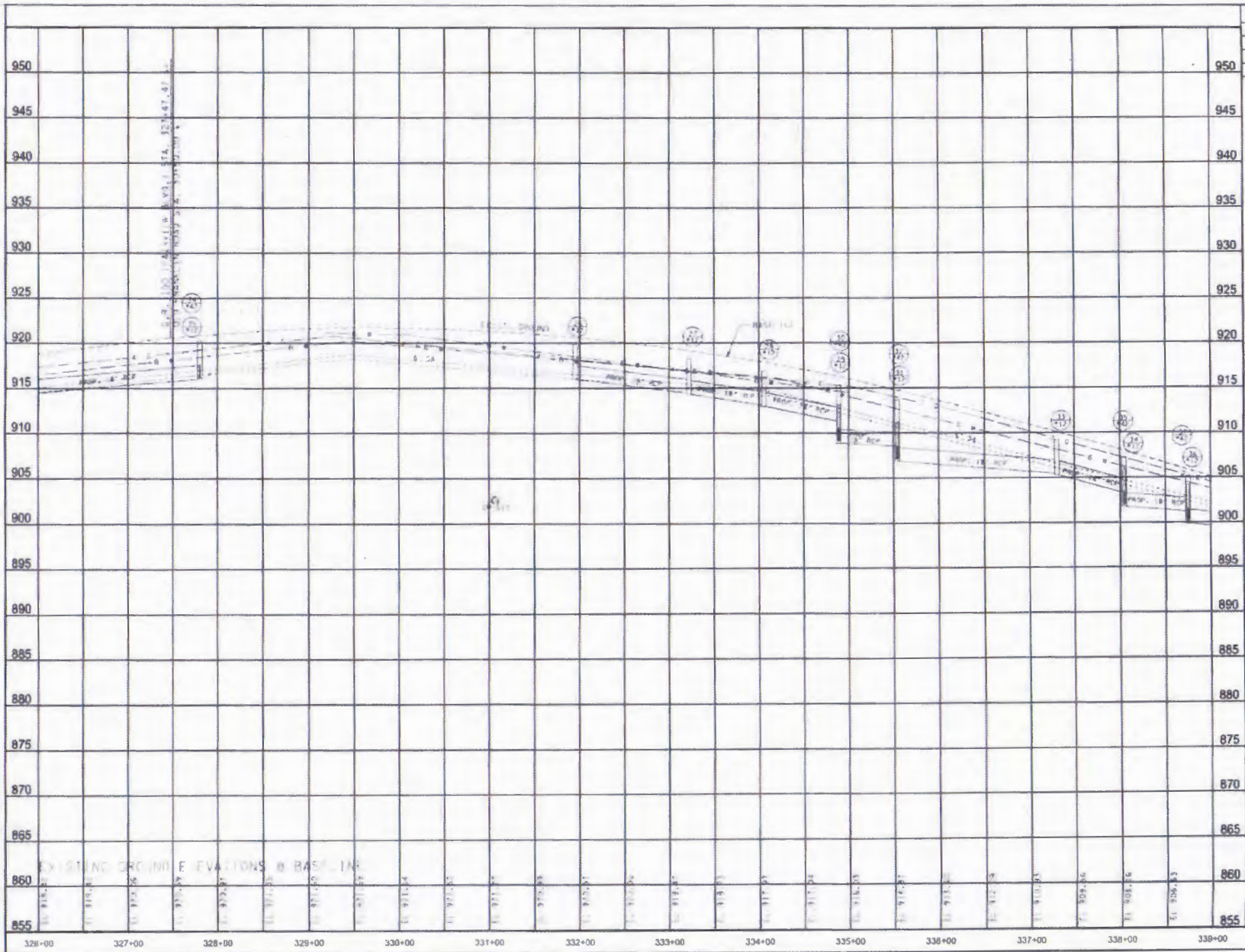
STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

PROPOSED
LAYOUT

STA. 326+00 TO STA. 330+00
SCALE: 1"=50'

11/10/2015 13:11:14

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TYPE	YEAR	PROJECT NO	PLAN NO
R.O.W.	2010	STP-EN-NH-100(63)	7C

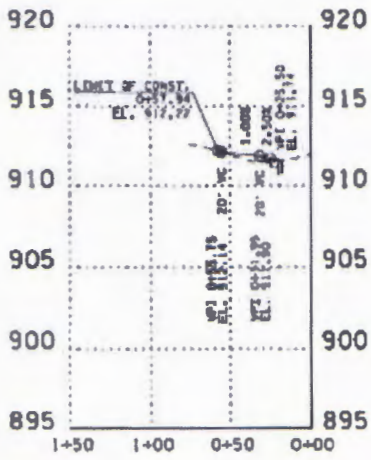
R.O.W.
PLANS

SCALE BY

COORDINATES ARE NAD 83/1983 ARE DATUM ADJUSTED BY THE FACTOR OF 1.00288 AND TIED TO THE TGNM ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

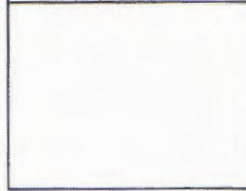
PROFILE
STA. 326+00 TO STA. 339+00
SCALE: 1"=50' HORIZ
1"=5' VERT



33' BUS. ENT. (ASP.) LT. 320+10.76
TRACT NO. 5

R.O.W. PLANS

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

PROFILES OF
PRIVATE
DRIVES
SCALE: 1" = 50' HORIZ.
1" = 8' VERT.

LEGEND

SYMBOL	AQUISITION TYPE
[Orange Box]	FEE ACQUISITION
[Light Blue Box]	PERMANENT DRAINAGE EASEMENT
[Light Green Box]	PERMANENT SLOPE EASEMENT
[Pink Box]	TEMPORARY CONSTRUCTION EASEMENT

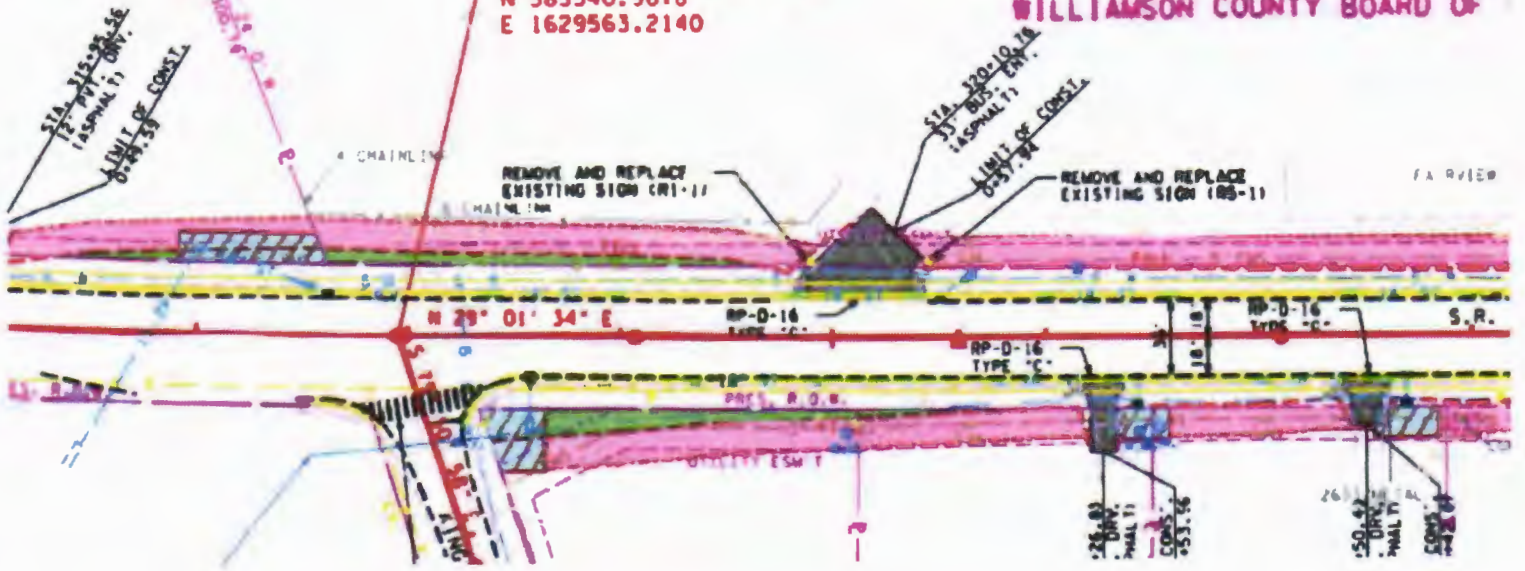
320

KI AND ORSKI

S.R. 100 (FAIRVIEW BLVD.) STA. 317+95.27 =
KING ROAD STA. 20+00.00
N 589340.9678
E 1629563.2140

5

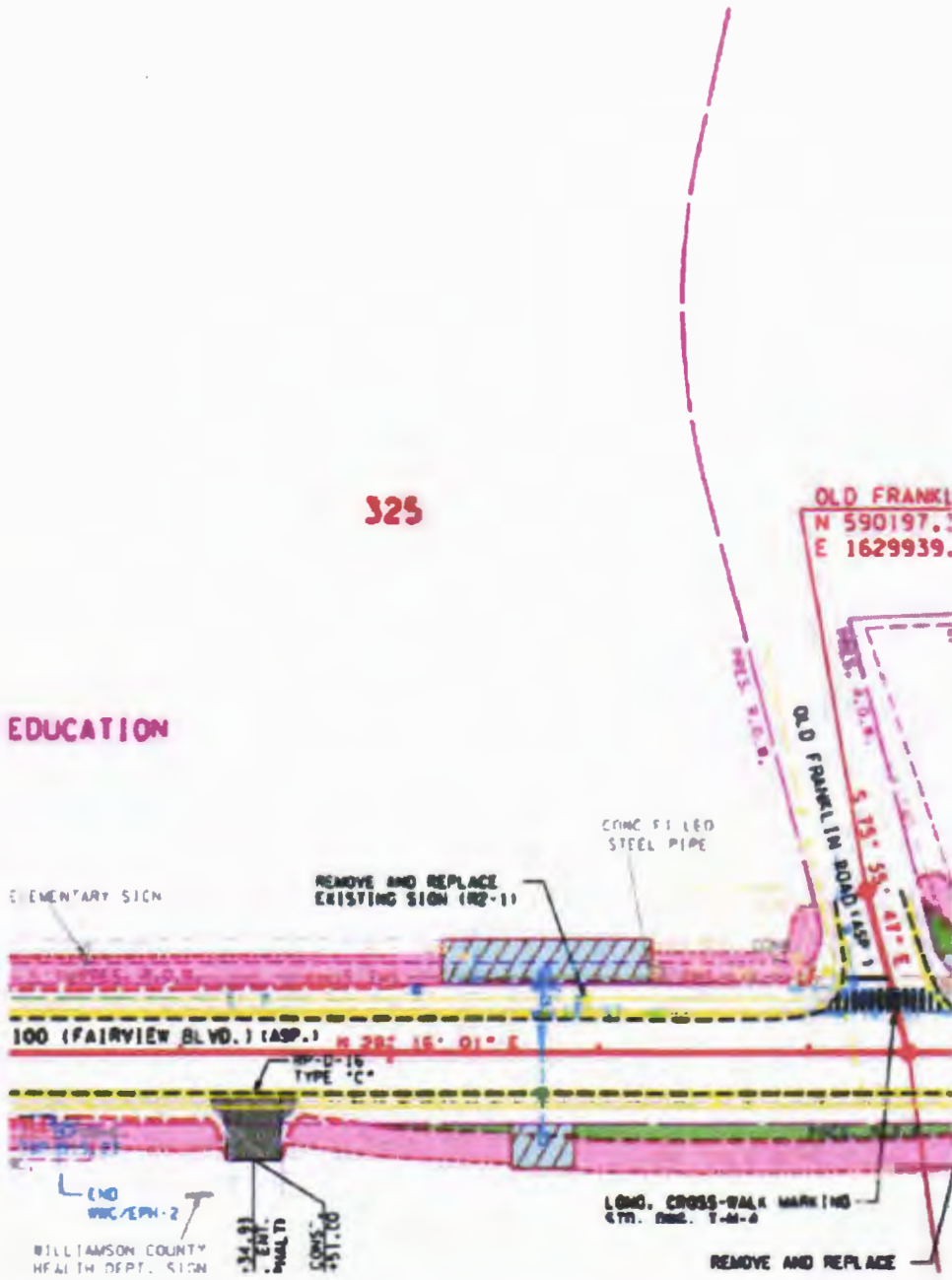
WILLIAMSON COUNTY BOARD OF



325

OLD FRANKLIN
N 590197.3
E 1629939.

EDUCATION



Facilities & Construction
1320 West Main Street, Suite 202
Franklin, TN 37064
Tel. (615)-472-4041
Fax (615)-472-5622



MEMORANDUM

DATE: January 8, 2020

TO: School Board Members

FROM: Kevin Fortney *KV*
Director of Facilities & Construction

CC: Jason Golden, Superintendent of Schools
Mark Samuels, Asst. Superintendent of Operations

RE: **Mallory Valley Utility District
Request for Temporary Construction & Permanent Waterline Easements
Centennial High School Property**

Mallory Valley Utility District (MVUD) is requesting temporary construction easement and a permanent waterline easement along on the Centennial High School property along Mallory Lane and Liberty Pike. A complete description of the easements is attached. The easement is to allow MVUD to make necessary improvements to the existing waterline to due to growth in the service area. MVUD has had the property appraised and has offered the full appraised value of \$40,000 for the permanent easement and \$25,000 the temporary construction easement. A copy of the appraisal and the easement descriptions are attached.

We requested MVUD field stake the proposed easements. Based on our review of the staked easements we recommend the easements be granted to MVUD for the appraised value.

Kevin Fortney

Modified:

Wed 1/8/2020 2:12 PM

Jason Golden

January 8, 2020

RE: Mallory Valley Utility District

Some time ago you and I discussed the attached easement request from Mallory Valley Utility District. At that time I was not in favor of an exclusive easement as it could possibly affect WCS projects in the future. I discussed the proposed water line easement with MVUD and requested they stake the easement so I could observe where the easement would lay on our property. Based on the staking of the easement, and my subsequent observation of the same, I do not think the easement will impact any future project we may elect to build. The easement runs parallel to the roadways and are not within any future building envelope that I would envision. Therefore, I am requesting you review the attached documents, and if in agreement, sign and return to my office. Please call with any questions.

Kevin Fortney



September 23, 2019

RE: Water Line Easement for the District's 24" Transmission Line Project

Dear Williamson County Board of Education:

Mallory Valley Utility District has an estimated service area of 19.5 square miles and provides water to over 5,700 metered connections. In 2016, Mallory Valley and its engineers conducted a hydraulic water model analysis to update and evaluate the long term infrastructure needs of its Capital Improvement Program. The evaluation identified the need for a secondary water transmission line. In 2018, the Board of Commissioners approved a Capital Project recommendation for a new secondary 24" water transmission line that will reside along Franklin Road, Mack Hatcher Parkway, Cool Springs Boulevard, W McEwen Drive, Mallory Lane, Liberty Pike, and Huffines Ridge. This new water transmission line will ensure that the district can meet the future water service demands of its customers.

In conjunction with this project, the District is mandated by the State of Tennessee to actively monitor and reduce water loss throughout its system. As part of this mandate, within the project area along Franklin Road, we plan to upgrade and replace all of our PVC (polyvinyl chloride) water lines with Ductile Iron Pipe. In addition, a new 12" distribution water line will be installed along Mack Hatcher Parkway connecting the water distribution lines at Franklin Road and Cool Springs Boulevard to provide improved operational redundancy.

In order to install and make the identified improvements, a utility easement on your property will be required.

You will find attachments to this letter to assist you in understanding the easement.

These include the following:

- Appraisal
- Easement document with accompanying exhibit, easement description (metes and bounds) and easement form that will be in place between yourself and the District.

We have taken the additional step of hiring a local professional land appraiser to prepare an appraisal of the easement. The appraisal summary outlines the approach, the area of the easement and the appraised value of the easement. In order for the project to move forward in a timely manner, the District is prepared to make each property owner affected by an easement, the cash offer at the appraised value. If you do so within **30 days** from the date of this letter, then the District will offer an additional "signing bonus" of 10% to the appraised value.

If you desire to accept the offer and move forward with the granting of the easement, then please contact me at our office and we will begin the signature process and prepare the check for the offer. Once the easement is signed by both parties, it will be recorded at the Williamson County Registrar of Deeds.



If you have questions related to the location of the water line or details about the construction of the project in general, our engineers can be available by appointment during the working day to meet with you and explain the easement. We will contact you in the next 2-3 weeks as a follow-up, but feel free to contact us in the meanwhile.

Thank you,

A handwritten signature in blue ink, appearing to read "K York", is positioned above the printed name.

Karen York
Director of Development
Mallory Valley Utility District

This Instrument Prepared By:
Mallory Valley Utility District
P.O. Box 936
Franklin, TN 37065
(615) 628-0237

Easement across Property at:
Book 1069, Page 493 ROWCT
Book 300, Page 798 ROWCT
Book 300, Page 517 ROWCT
Tax Map 79, Parcel 35.06

EXCLUSIVE WATER UTILITY EASEMENT

For and in consideration of the sum of One Dollar (\$1.00) cash in hand paid and for other good and valuable consideration, the receipt and legal sufficiency of which are hereby acknowledged, **Williamson County Board of Education** hereinafter referred to as "**Grantor**", has this day bargained and sold, and by these presents does hereby transfer and convey unto **Mallory Valley Utility District of Williamson County, Tennessee**, hereinafter referred to as "**Mallory Valley**", an exclusive, permanent water utility easement ("the Easement") across **Grantor's** real property, of record in Book 1069, Page 493; Book 300, Page 798; Book 300, Page 517 of the Williamson County Register of Deeds Office and designated as Map 79, Parcel 35.06. The Easement is described and depicted as "Easement 28" on **Exhibit 1** attached hereto, which is made a part hereof as if copied herein verbatim.

1. **Mallory Valley's** rights in this conveyance shall include, but shall not be limited to, the following:

(a) **Mallory Valley** shall have the right to excavate for, install, replace, maintain, repair, patrol and use the Easement for its meters and for underground pipelines for conveying water with such necessary and proper valves, appurtenances, fittings, and equipment. **Mallory Valley** through its agents and employees shall have the right to come upon the Easement at any time to exercise any of the foregoing rights and to use such trucks, tools, excavation equipment and the like as may be reasonably necessary.

(b) **Mallory Valley** shall have the right to access the Easement for ingress to and egress from the public rights-of-way from all points along the Easement.

(c) **Mallory Valley** shall have the right after reasonable notice to the owner to trim and to cut down and clear away any vegetation or other thing within the Easement that interferes with or increases the cost of the exercise of **Mallory Valley's** rights granted herein.

(d) **Mallory Valley** shall have and retain the right to mark the location of the Easement and the location and benchmark depth of pipelines within it by suitable markers installed at surface level along the route of the Easement.

(e) **Mallory Valley** shall have the right to cut any existing pavement or any pavement installed in the future within the Easement as **Mallory Valley** deems to be necessary in the exercise of its rights granted herein.

(f) **Mallory Valley** shall have a twenty (20) foot temporary construction easement on each side of and parallel to the exclusive, permanent easement, unless otherwise

noted on **Exhibit 1**.

2. **Mallory Valley** shall have the following duties in using the Easement:

(a) All water line construction within the Easement shall meet and conform to the latest edition of the **Mallory Valley** technical specifications approved by the Tennessee Department of Environment and Conservation.

(b) After the installation, repair, maintenance, or replacement of the water line or other water improvements in the Easement, **Mallory Valley** shall recompact the soil, return the surface of the Easement to the same general grade as existed prior to such installation, repair, maintenance, or replacement, replace the top soil, and overseed and apply straw to the disturbed area. **Mallory Valley** will protect or replace any minor shrubbery damaged by such installation, repair, maintenance, or replacement. If in exercising the rights granted by this Easement **Mallory Valley** cuts existing pavement, then **Mallory Valley** shall fill and recompact the area of construction in accordance with the latest edition of the **Mallory Valley** technical specifications and shall replace the pavement in-kind.

3. **Grantor** accepts the following duties and restrictions:

(a) **Grantor** shall not erect or construct any structure within the Easement or pave over the Easement, except for the installation of pavement for private or public driveways that cross the Easement.

(b) **Grantor** shall not install any other utilities, voluntarily grant easements to others within the Easement, or voluntarily allow any other use of the Easement without the prior written consent of **Mallory Valley**. **Mallory Valley** agrees it will grant the right for other utilities to cross the Easement provided such crossings meet and conform to the latest edition of the **Mallory Valley** technical specifications.

(c) **Grantor** shall not diminish or substantially add to or remove the ground cover over the pipelines and appurtenances to be installed within the Easement. The earthen fill within the Easement shall at no point exceed fifty-four (54) inches from the top of the pipelines to the finished grade. The earthen cover above the top of pipelines shall not be less than thirty (30) inches. Any slopes cut or filled shall not exceed a 5H to 1V grade. **Grantor** will notify **Mallory Valley** and obtain **Mallory Valley's** consent prior to making any significant change in the grade level within the Easement.

(d) **Grantor** will plant no trees within the Easement or within the area on either side of the Easement which might foreseeably encroach within the Easement so as to create a hazard to the underground water lines or other water improvements to be installed by **Mallory Valley**. **Grantor** will plant and maintain only grasses and minor shrubbery within the Easement.

(e) **Grantor** shall have the sole right and responsibility of mowing, maintaining and caring for the surface of the Easement, except as stated above in paragraph 2(b).

This exclusive Easement shall attach to and run with the land and shall be binding upon everyone who may hereafter come into ownership of the property, and all rights conveyed herein shall belong to **Mallory Valley** its successors and assigns forever.

Grantor does covenant with **Mallory Valley** that **Grantor** is lawfully seized and possessed of the property in fee simple, that **Grantor** has a good and lawful right to sell and convey the Easement, and that the Easement is free and clear from any lien or encumbrance whatsoever.

Grantor further covenants and binds itself, its representatives, and its successors to warrant and forever defend the title to this Easement to **Mallory Valley**, its successors, and its assigns against the lawful claims and demands of all persons whomsoever.

Witness my hand on this ____ day of _____, 2019.

Williamson County Board of Education

By: _____

Name: _____

Its: _____

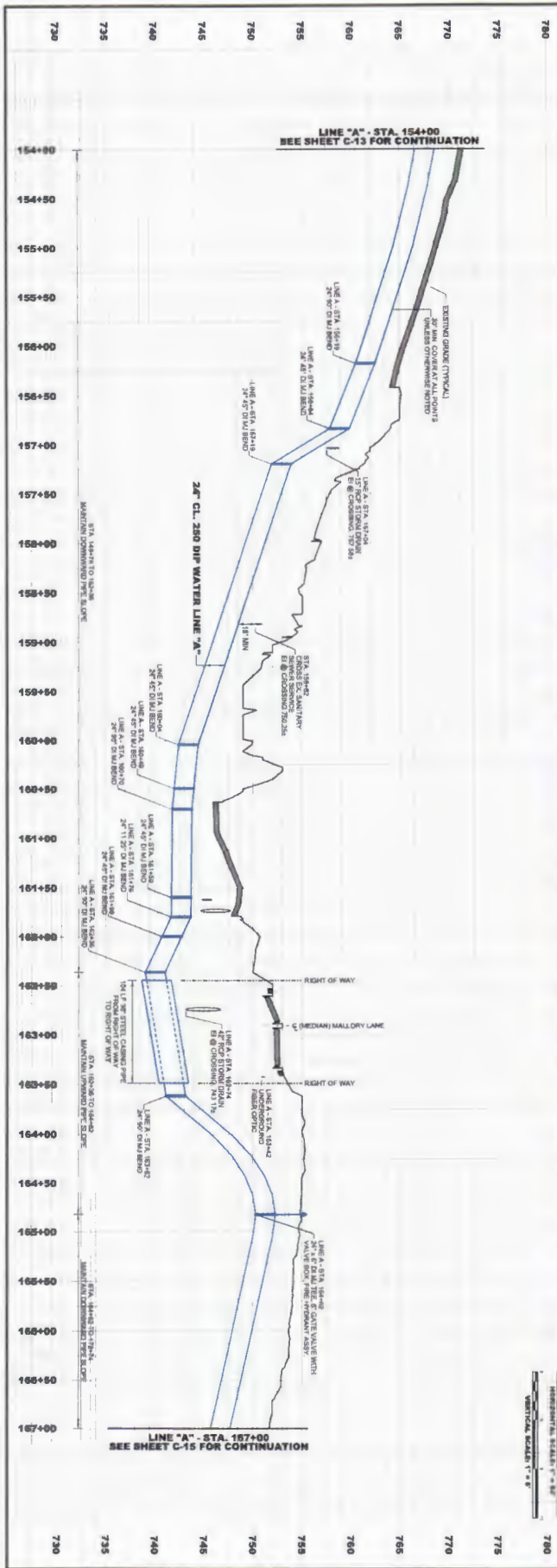
State of Tennessee)
)
County of Williamson)

Before me, a Notary Public in and for the County and State aforesaid, personally appeared _____, with whom I am personally acquainted (or proved to me on the basis of satisfactory evidence), and who, upon oath, acknowledged himself/herself to be the _____ of Williamson County Board of Education and that he/she executed the foregoing instrument for the purpose therein contained by signing on behalf of Williamson County Board of Education.

Witness my hand and official seal on this the ____ day of _____, 2019.

NOTARY PUBLIC

My Commission Expires: _____



NO.	CHK.	DATE	DESCRIPTION

WATER LINE PLAN AND PROFILE
WATER LINE "A" - STA. 154+00 TO 167+00
 12-INCH AND 24-INCH SOUTH WATER TRANSMISSION LINES
 CONTRACT A
 MALLORY VALLEY UTILITY DISTRICT
 WELLSBORO COUNTY, TENNESSEE

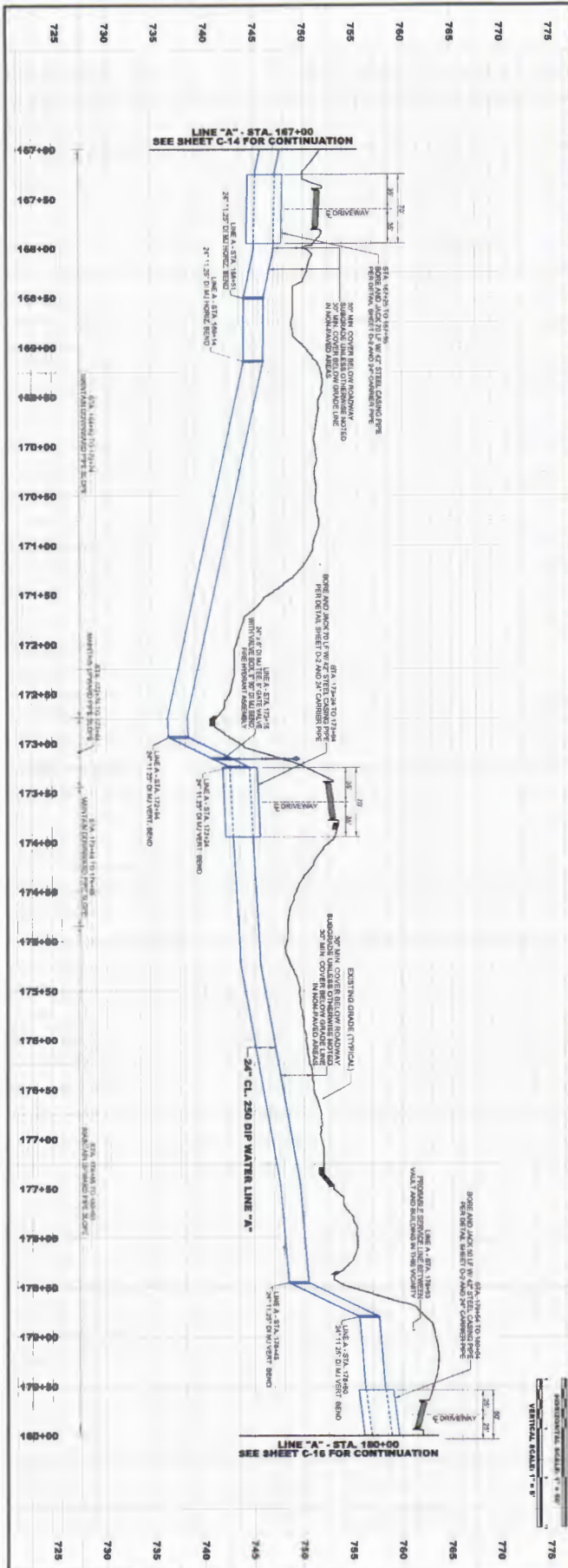
MALLORY VALLEY UTILITY DISTRICT

PRELIMINARY

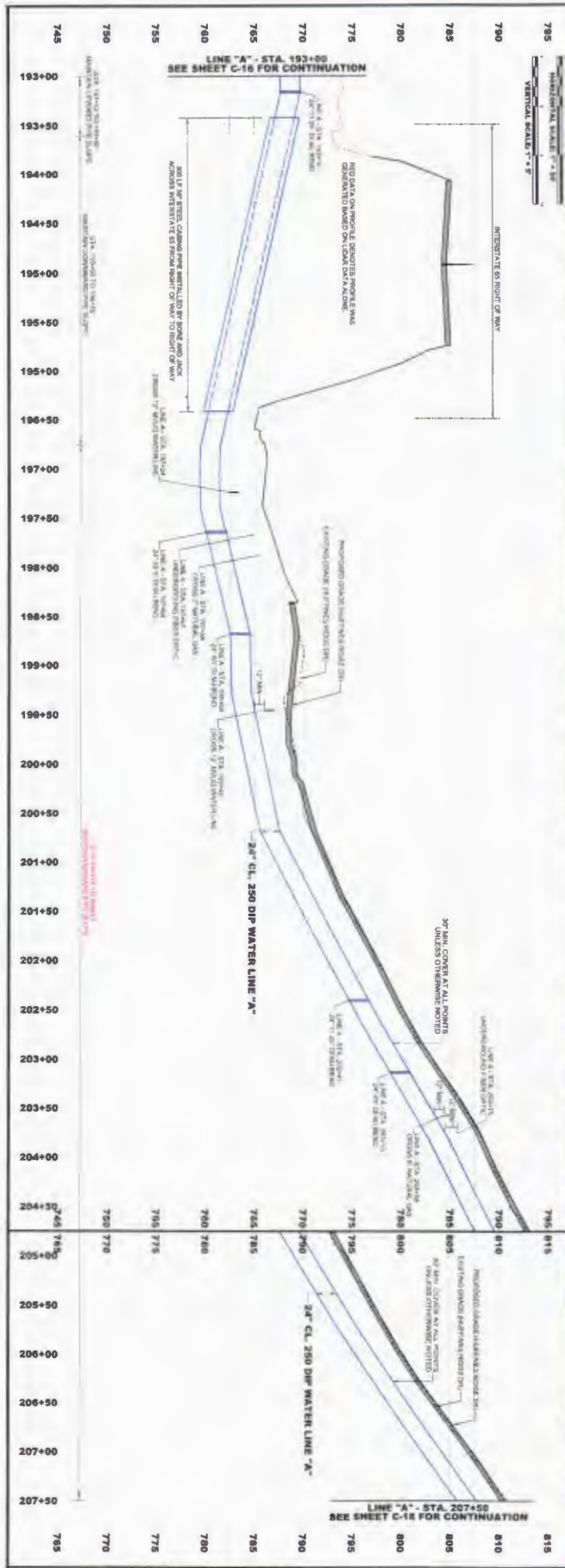
HETHCOAT & DAVIS
 ENGINEERS PLANNERS

778 FRANKLIN ROAD, SUITE 200 • BIRMINGHAM, AL 35206
 336-575-2444 • FAX 336-575-2445

C-14
 SHEET OF 7
 FILE NO. 191625



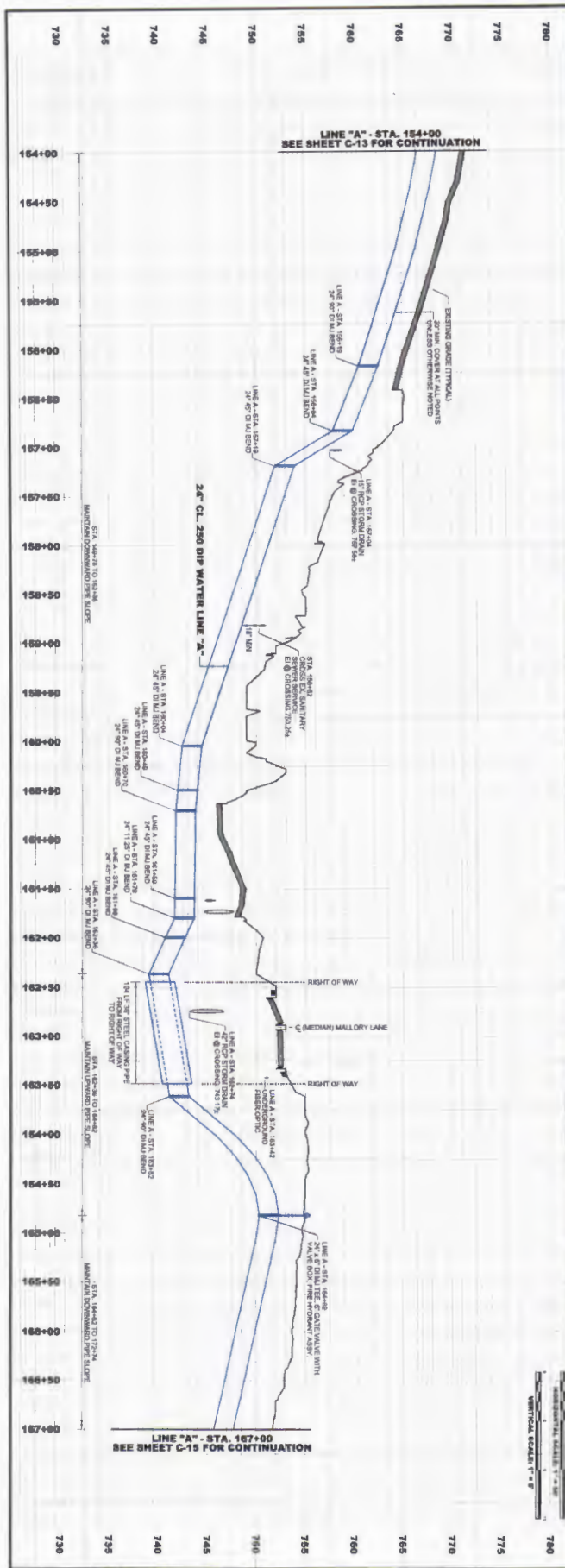
<p>C-15 SHEET 08/19</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>DR</th> <th>CHK</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	DR	CHK	DATE	DESCRIPTION					<p>WATER LINE PLAN AND PROFILE WATER LINE "A" STA. 167+00 TO 180+00 12-INCH AND 24-INCH SOUTH WATER TRANSMISSION LINES CONTRACT A</p> <p>MALLORY VALLEY UTILITY DISTRICT 301 WILSON COUNTY, TENNESSEE</p>	<p>MALLORY VALLEY UTILITY DISTRICT</p>	<p>HETHCOAT & DAVIS ENGINEERS PLANNERS</p> <p>375 FRANKLIN ROAD, SUITE 200 • BRENTWOOD, TN 37027 306 VESTAVIA PARKWAY, SUITE 2200 • BIRMINGHAM, AL 35216</p>
DR	CHK	DATE	DESCRIPTION									



<p>C-17 SHEET OF 17 FILE NO. 191455</p>	<p>WATER LINE PLAN AND PROFILE WATER LINE "A" - STA. 193+00 TO 207+50</p>	<p>PRELIMINARY</p>	<p>HETHCOAT & DAVIS ENGINEERS PLANNERS</p>
	<p>12-INCH AND 24-INCH SOUTH WATER TRANSMISSION LINES CONTRACT A</p>		

MALLORY VALLEY UTILITY DISTRICT
WILLIAMSON COUNTY, TENNESSEE

120 FRANKLIN ROAD, SUITE 500 • 1301 SCHWAB PARKWAY, SUITE 200
MEMPHIS, TN 38117 • MEMPHIS, TN 38117



NO.	DATE	DESCRIPTION

WATER LINE PLAN AND PROFILE
WATER LINE "A" - STA. 154+00 TO 167+00
 12-INCH AND 24-INCH SOUTH WATER TRANSMISSION LINES
 CONTRACT A

MALLORY VALLEY UTILITY DISTRICT
 WILLIAMSON COUNTY, TENNESSEE

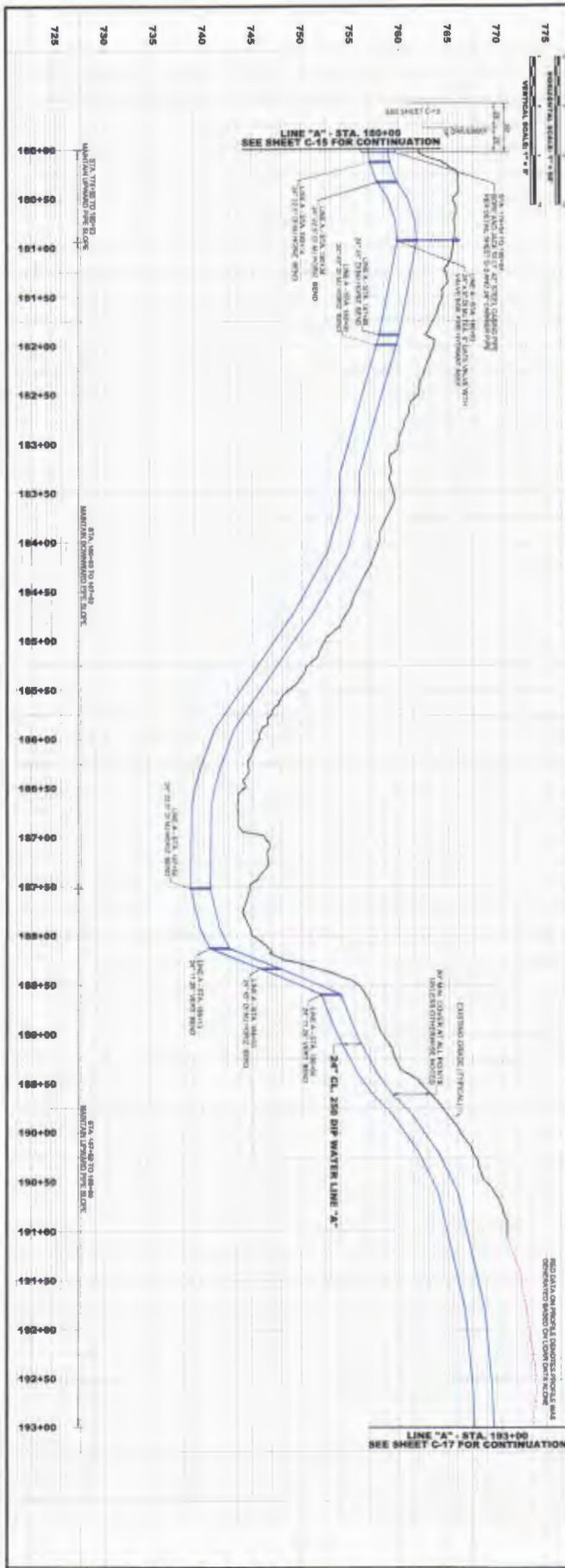
MALLORY VALLEY UTILITY DISTRICT

PRELIMINARY

HETHCOAT & DAVIS
 ENGINEERS PLANNERS

170 FRANKLIN ROAD, SUITE 200 368 WESTVALE PARKWAY, SUITE 200
 GREENWOOD, TN 37030 BRIDGEVILLE, PA 15016

C-14
 SHEET OF 7
 FILE NO. 1919-25



NO.	CHK.	DATE	DESCRIPTION

WATER LINE PLAN AND PROFILE
WATER LINE "A" - STA. 180+00 TO 193+00
 12-INCH AND 24-INCH SOUTH WATER TRANSMISSION LINES
 CONTRACT A
 MALLORY VALLEY UTILITY DISTRICT
 WILLIAMSON COUNTY, TENNESSEE

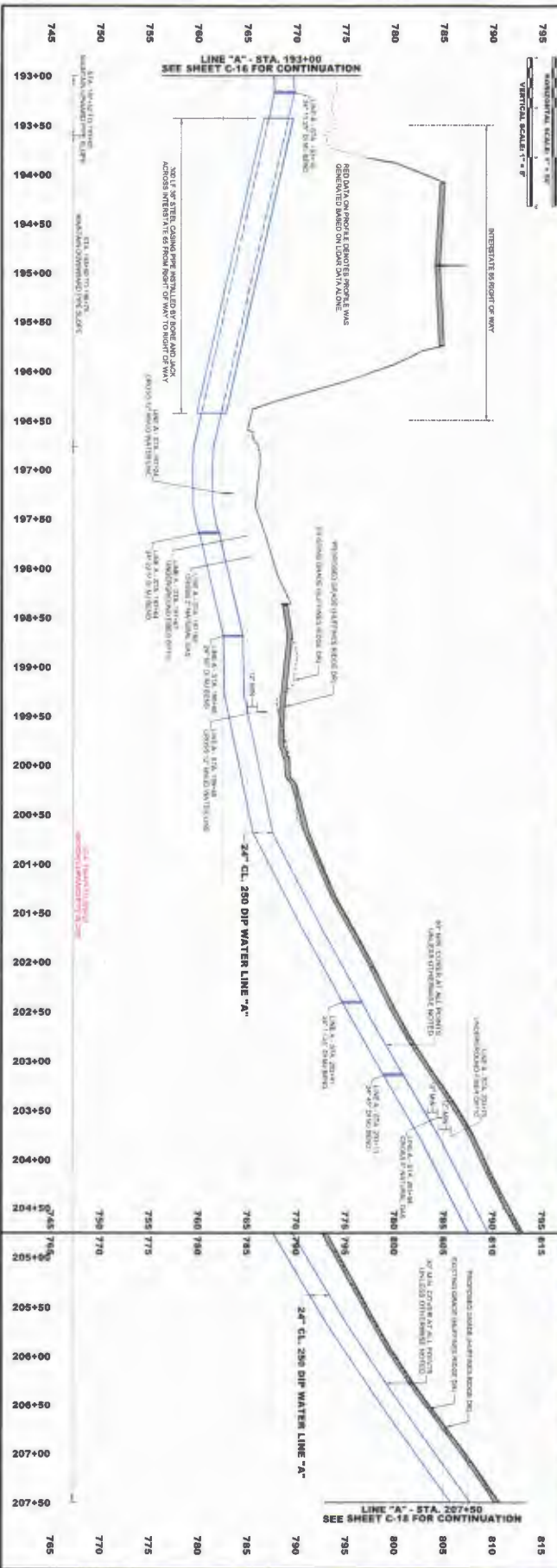
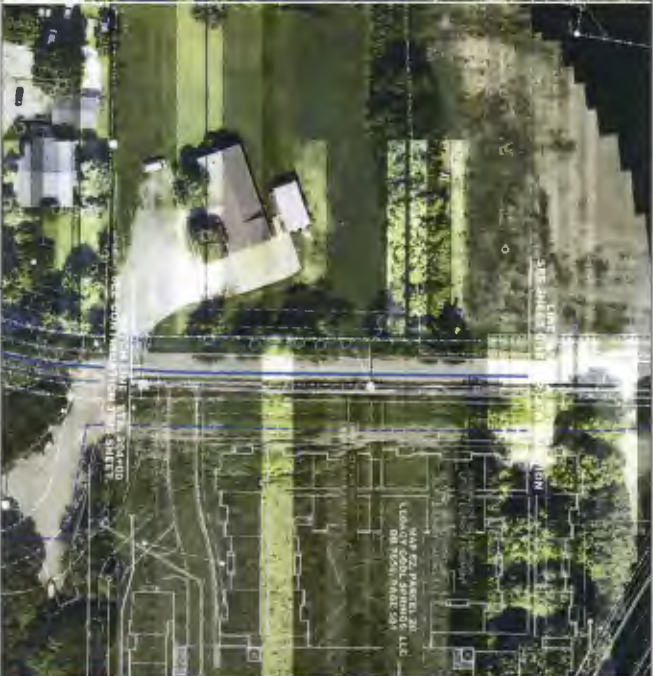


HETHCOAT & DAVIS
 ENGINEERS PLANNERS

274 FRANKLIN ROAD, SUITE 206 • 906 W. 37th Avenue, Suite 2206
 BRENTWOOD, TN 37027 • BRENTWOOD, TN 37027

PRELIMINARY

C-16
 SHEET OF 17
 FILE NO. 1916-25



WATER LINE PLAN AND PROFILE
WATER LINE "A" - STA. 193+00 TO 207+50
12-INCH AND 24-INCH SOUTH WATER TRANSMISSION LINES
CONTRACT A

MALLORY VALLEY UTILITY DISTRICT
 WILLIAMSON COUNTY, TENNESSEE

NO.	DATE	DESCRIPTION

C-17
 SHEET OF 77
 FILE NO. 191925

HETHCOAT & DAVIS
 ENGINEERS PLANNERS

MALLORY VALLEY UTILITY DISTRICT

PRELIMINARY

300 WEST AVENUE, FRANKLIN, TN 37067
 615.596.1111

MATCH LINE - SEE PAGE 2 OF 6

LINE SEGMENT TABLE		
LINE	BEARING	DISTANCE
L1	S03°46'51"E	15.00'
L2	N87°33'03"E	5.46'
L3	S03°59'36"E	21.69'
L4	S03°08'39"E	19.89'
L5	S02°17'41"E	20.20'
L6	S02°17'41"E	14.10'
L7	S05°41'53"W	20.86'
L8	S05°33'07"E	63.22'
L9	S05°43'07"W	159.26'
L31	N05°43'07"E	160.74'
L32	N05°33'07"W	63.22'
L33	N05°41'53"E	19.38'
L34	N02°17'41"W	14.58'
L35	N02°17'41"W	19.83'
L36	N03°08'39"W	20.11'
L37	N03°59'36"W	36.40'
L38	S87°33'03"W	20.41'

EASEMENT 28

MAP 079, PARCEL 035.06
WILLIAMSON BOARD OF EDUCATION
 BOOK 1069, PAGE 493
 BOOK 300, PAGE 798
 BOOK 300, 517
 R.O.W.C.T.

CURVE DATA TABLE		
	C1	C2
CENTRAL ANGLE	09°45'27"	01°45'53"
TANGENT	167.28'	24.75'
RADIUS	1966.96'	1607.50'
CURVE LENGTH	334.97'	49.51'
CHORD LENGTH	334.57'	49.51'
CHORD BEARING	S02°35'02"W	S06°34'49"W
	C17	C18
CENTRAL ANGLE	01°45'53"	09°45'27"
TANGENT	24.52'	168.56'
RADIUS	1592.50'	1981.95'
CURVE LENGTH	49.05'	337.53'
CHORD LENGTH	49.04'	337.12'
CHORD BEARING	N06°34'49"E	N02°35'02"E

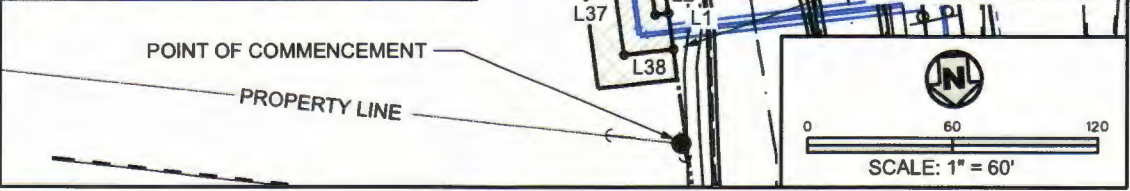
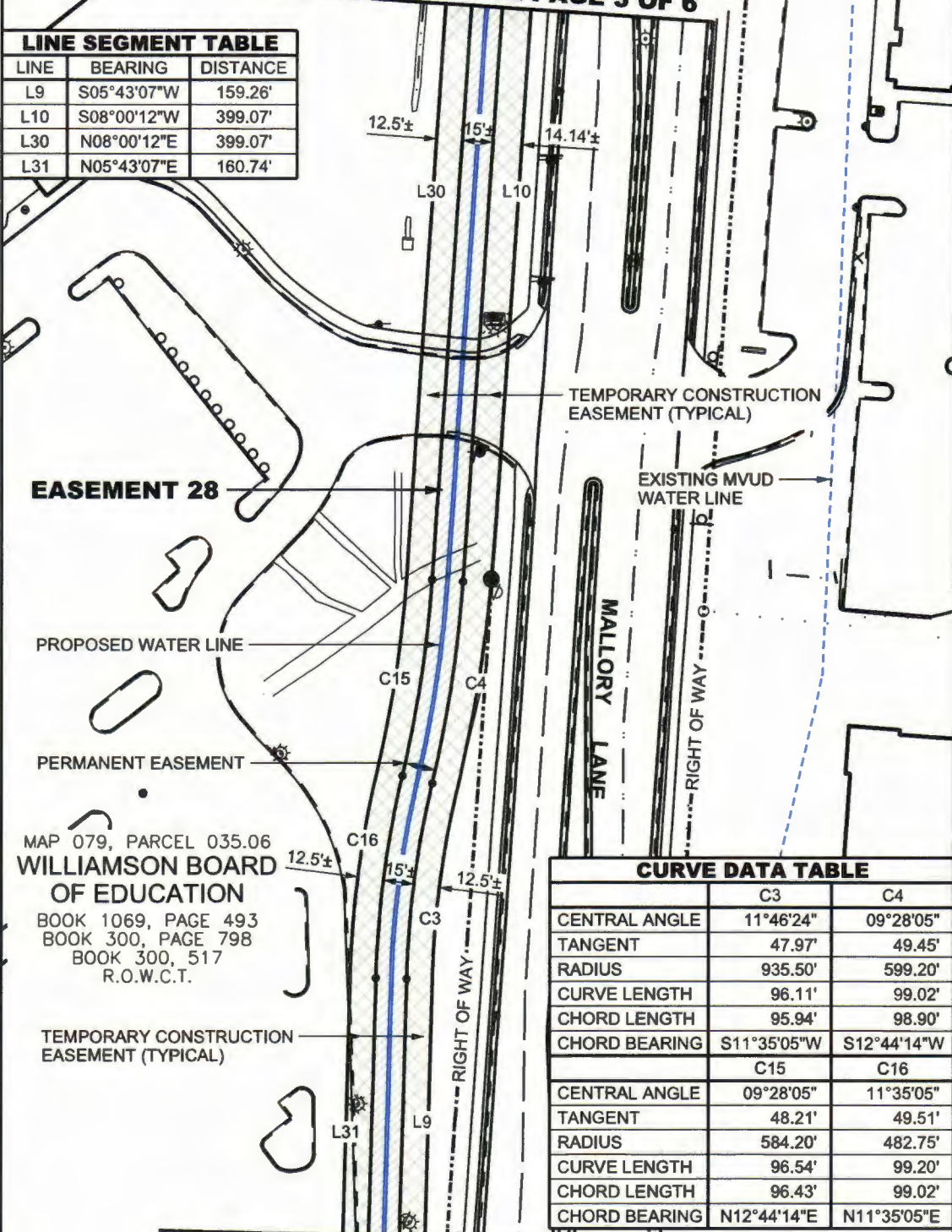


EXHIBIT 1, PAGE 1 OF 7 03/27/2019

<p>278 FRANKLIN ROAD, SUITE 200 BRENWOOD, TN 37027</p> <p>300 VESTAVIA PARKWAY, SUITE 2300 BIRMINGHAM, AL 35216</p>	<p>MAP SHOWING DEDICATION OF EASEMENT</p> <p>TO: MALLORY VALLEY UTILITY DISTRICT</p> <p>FROM: WILLIAMSON BOARD OF EDUCATION</p>	<p>EASEMENT NO. 28</p> <p>MAP NO. 79</p> <p>PARCEL NO. 35.06</p> <p>H&D PROJECT NO 1016-25</p>

MATCH LINE - SEE PAGE 3 OF 6

LINE SEGMENT TABLE		
LINE	BEARING	DISTANCE
L9	S05°43'07"W	159.26'
L10	S08°00'12"W	399.07'
L30	N08°00'12"E	399.07'
L31	N05°43'07"E	160.74'



EASEMENT 28

PROPOSED WATER LINE

PERMANENT EASEMENT

MAP 079, PARCEL 035.06
WILLIAMSON BOARD
OF EDUCATION

BOOK 1069, PAGE 493
BOOK 300, PAGE 798
BOOK 300, 517
R.O.W.C.T.

TEMPORARY CONSTRUCTION
EASEMENT (TYPICAL)

TEMPORARY CONSTRUCTION
EASEMENT (TYPICAL)

EXISTING MVUD
WATER LINE

MALLORY
LANE

RIGHT OF WAY

RIGHT OF WAY

CURVE DATA TABLE		
	C3	C4
CENTRAL ANGLE	11°46'24"	09°28'05"
TANGENT	47.97'	49.45'
RADIUS	935.50'	599.20'
CURVE LENGTH	96.11'	99.02'
CHORD LENGTH	95.94'	98.90'
CHORD BEARING	S11°35'05"W	S12°44'14"W
	C15	C16
CENTRAL ANGLE	09°28'05"	11°35'05"
TANGENT	48.21'	49.51'
RADIUS	584.20'	482.75'
CURVE LENGTH	96.54'	99.20'
CHORD LENGTH	96.43'	99.02'
CHORD BEARING	N12°44'14"E	N11°35'05"E

MATCH LINE - SEE PAGE 1 OF 6

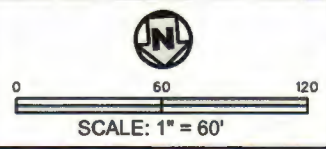


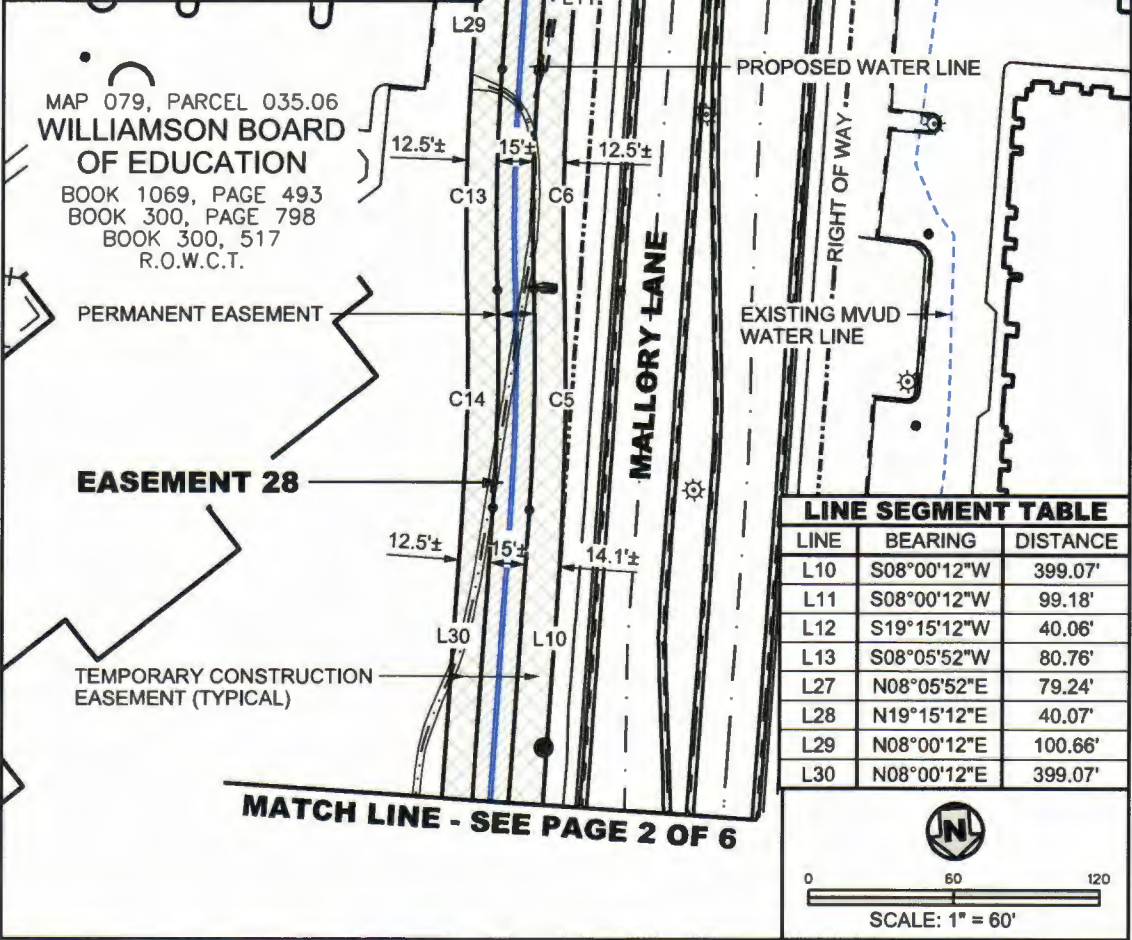
EXHIBIT 1, PAGE 2 OF 7

03/27/2019

<p>278 FRANKLIN ROAD, SUITE 200 BRENTWOOD, TN 37027</p> <p>300 VESTAVIA PARKWAY, SUITE 2300 BIRMINGHAM, AL 35218</p>	<p>MAP SHOWING DEDICATION OF EASEMENT TO: MALLORY VALLEY UTILITY DISTRICT FROM: WILLIAMSON BOARD OF EDUCATION</p>	<p>EASEMENT NO. 28</p>
		<p>MAP NO. 79 PARCEL NO. 35.06 H&D PROJECT NO 1016-25</p>

MATCH LINE - SEE PAGE 4 OF 6

CURVE DATA TABLE		
	C5	C6
CENTRAL ANGLE	05°42'46"	05°42'46"
TANGENT	45.43'	44.68'
RADIUS	911.66'	896.65'
CURVE LENGTH	90.90'	89.40'
CHORD LENGTH	90.86'	89.36'
CHORD BEARING	S05°08'49"W	S05°08'49"W
	C7	C12
CENTRAL ANGLE	04°21'34"	04°08'28"
TANGENT	61.80'	58.17'
RADIUS	1625.03'	1610.03'
CURVE LENGTH	123.64'	116.37'
CHORD LENGTH	123.61'	116.34'
CHORD BEARING	S05°42'11"W	N05°48'44"E
	C13	C14
CENTRAL ANGLE	05°42'46"	05°42'46"
TANGENT	45.43'	44.68'
RADIUS	911.65'	896.65'
CURVE LENGTH	90.90'	89.40'
CHORD LENGTH	90.86'	89.36'
CHORD BEARING	N05°08'49"E	N05°08'49"E



LINE SEGMENT TABLE		
LINE	BEARING	DISTANCE
L10	S08°00'12"W	399.07'
L11	S08°00'12"W	99.18'
L12	S19°15'12"W	40.06'
L13	S08°05'52"W	80.76'
L27	N08°05'52"E	79.24'
L28	N19°15'12"E	40.07'
L29	N08°00'12"E	100.66'
L30	N08°00'12"E	399.07'

MAP 079, PARCEL 035.06
WILLIAMSON BOARD OF EDUCATION
 BOOK 1069, PAGE 493
 BOOK 300, PAGE 798
 BOOK 300, 517
 R.O.W.C.T.

PERMANENT EASEMENT

EASEMENT 28

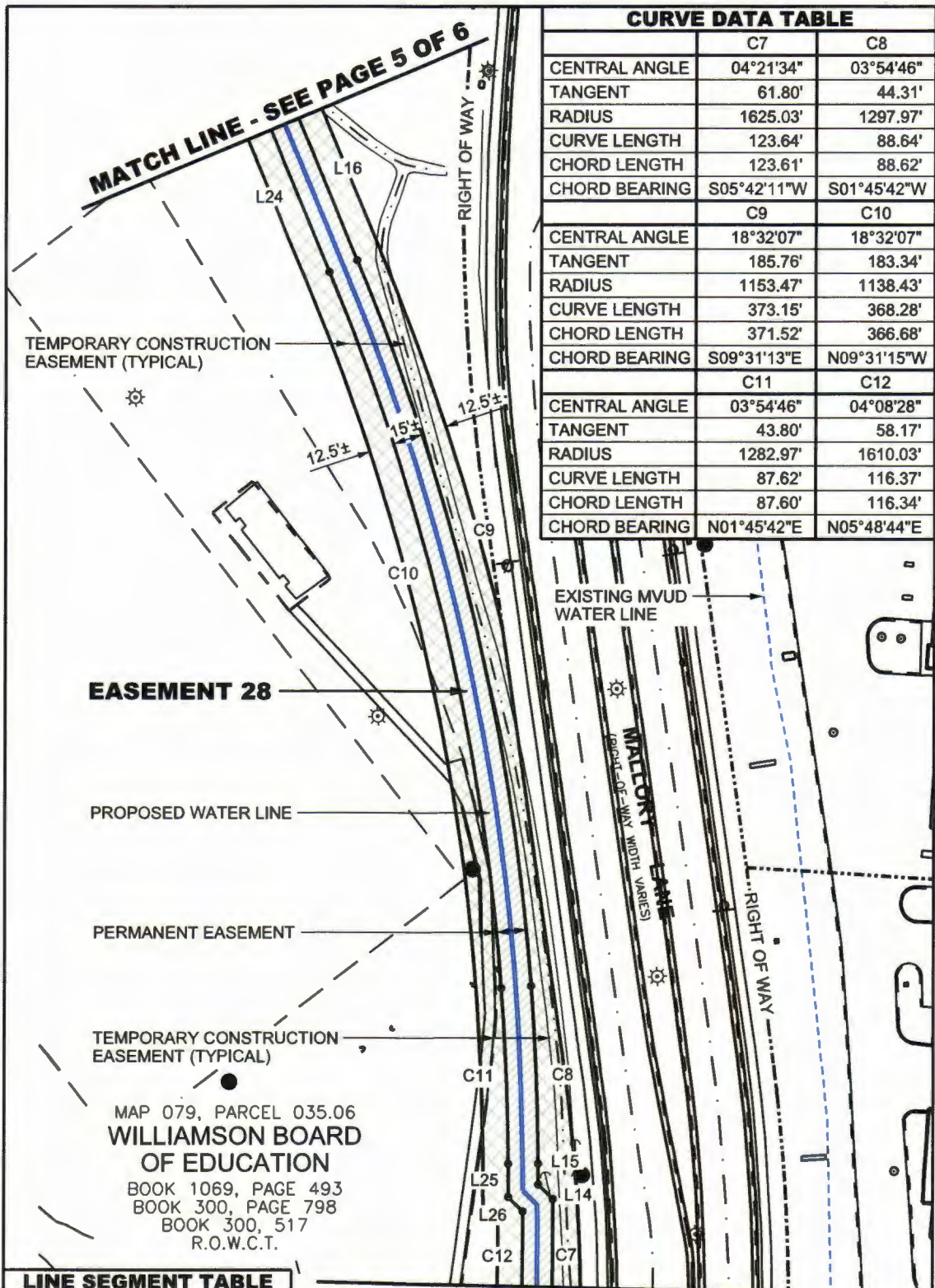
TEMPORARY CONSTRUCTION EASEMENT (TYPICAL)

MATCH LINE - SEE PAGE 2 OF 6

EXHIBIT 1, PAGE 3 OF 7

03/27/2019

<p>HETHCOAT ENGINEERS DAVIS PLANNERS</p> <p>278 FRANKLIN ROAD, SUITE 200 300 VESTAVIA PARKWAY, SUITE 2300 BRENTWOOD, TN 37027 BIRMINGHAM, AL 35218</p>	<p>MAP SHOWING DEDICATION OF EASEMENT TO: MALLORY VALLEY UTILITY DISTRICT FROM: WILLIAMSON BOARD OF EDUCATION</p>	EASEMENT NO. 28
		MAP NO. 79 PARCEL NO. 35.06 H&D PROJECT NO 1016-25



CURVE DATA TABLE		
	C7	C8
CENTRAL ANGLE	04°21'34"	03°54'46"
TANGENT	61.80'	44.31'
RADIUS	1625.03'	1297.97'
CURVE LENGTH	123.64'	88.64'
CHORD LENGTH	123.61'	88.62'
CHORD BEARING	S05°42'11"W	S01°45'42"W
	C9	C10
CENTRAL ANGLE	18°32'07"	18°32'07"
TANGENT	185.76'	183.34'
RADIUS	1153.47'	1138.43'
CURVE LENGTH	373.15'	368.28'
CHORD LENGTH	371.52'	366.68'
CHORD BEARING	S09°31'13"E	N09°31'15"W
	C11	C12
CENTRAL ANGLE	03°54'46"	04°08'28"
TANGENT	43.80'	58.17'
RADIUS	1282.97'	1610.03'
CURVE LENGTH	87.62'	116.37'
CHORD LENGTH	87.60'	116.34'
CHORD BEARING	N01°45'42"E	N05°48'44"E

EASEMENT 28

MAP 079, PARCEL 035.06
WILLIAMSON BOARD OF EDUCATION
 BOOK 1069, PAGE 493
 BOOK 300, PAGE 798
 BOOK 300, 517
 R.O.W.C.T.

LINE SEGMENT TABLE		
LINE	BEARING	DISTANCE
L14	S41°00'49"E	10.29'
L15	S03°43'05"E	10.25'
L16	S18°31'55"E	81.49'
L24	N18°31'55"W	78.51'
L25	N03°43'05"E	16.69'
L26	N41°00'49"W	10.30'

MATCH LINE - SEE PAGE 3 OF 6

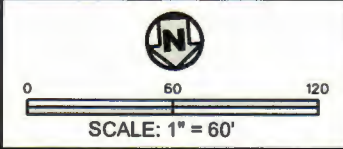


EXHIBIT 1, PAGE 4 OF 7

03/27/2019

<p>278 FRANKLIN ROAD, SUITE 200 BRENTWOOD, TN 37027</p> <p>300 VESTAVIA PARKWAY, SUITE 2300 BIRMINGHAM, AL 35216</p>	<p>MAP SHOWING DEDICATION OF EASEMENT TO: MALLORY VALLEY UTILITY DISTRICT FROM: WILLIAMSON BOARD OF EDUCATION</p>	<p>EASEMENT NO. 28</p>
		<p>MAP NO. 79 PARCEL NO. 35.06 H&D PROJECT NO 1016-25</p>

LINE SEGMENT TABLE		
LINE	BEARING	DISTANCE
L16	S18°31'55"E	81.49'
L17	S41°01'55"E	86.16'
L18	S86°01'55"E	485.19'
L19	S73°42'33"E	25.09'
L20	N16°20'30"E	15.00'
L21	N73°42'33"W	26.73'
L22	N86°01'55"W	480.59'
L23	N41°01'55"W	79.96'
L24	N18°31'55"W	78.51'

MAP 079, PARCEL 035.06
**WILLIAMSON BOARD
 OF EDUCATION**
 BOOK 1069, PAGE 493
 BOOK 300, PAGE 798
 BOOK 300, 517
 R.O.W.C.T.

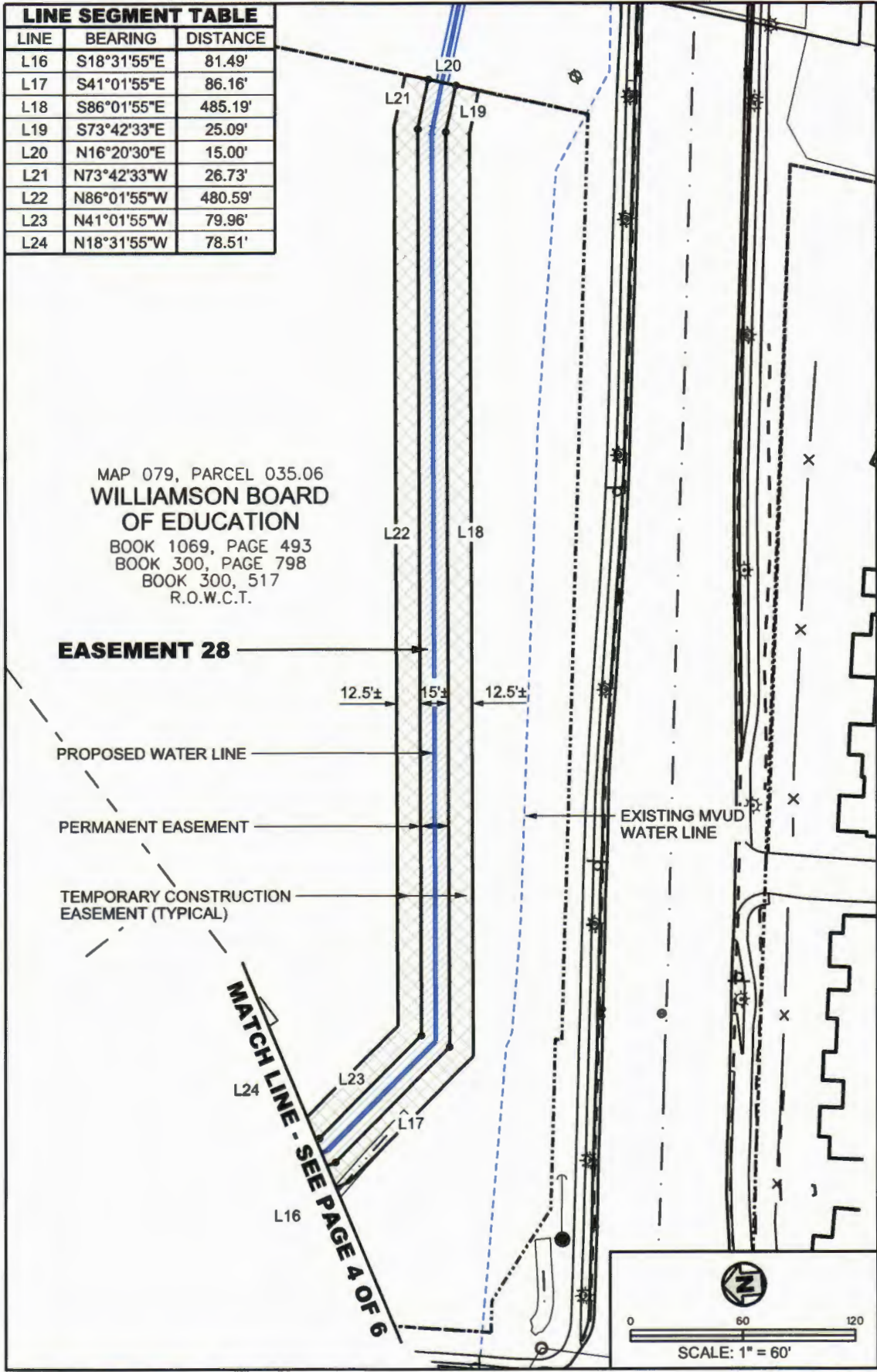


EXHIBIT 1, PAGE 5 OF 7

03/27/2019

<p>278 FRANKLIN ROAD, SUITE 200 BRENTWOOD, TN 37027</p> <p>300 VESTAVIA PARKWAY, SUITE 2300 BIRMINGHAM, AL 35218</p>	<p>MAP SHOWING DEDICATION OF EASEMENT TO: MALLORY VALLEY UTILITY DISTRICT FROM: WILLIAMSON BOARD OF EDUCATION</p>	<p>EASEMENT NO. 28 MAP NO. 79 PARCEL NO. 35.06 H&D PROJECT NO 1016-25</p>
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OWNER: WILLIAMSON BOARD OF EDUCATION			
DEED BOOK: 1069, 300, 300	PAGE: 493, 798, 517	MAP: 79	PARCEL: 35.06
AREA (PERMANENT): 44,906 SQ. FT.±	1.03 AC±	AREA (TEMPORARY): 72,199 SQ. FT.±	1.66 AC±
LENGTH ALONG CENTERLINE:		2,993 LINEAR FEET ±	

A Mallory Valley Utility District water easement and accompanying Temporary Construction Easement lying entirely within the parcel of land specified above. Said easement is as depicted on the previous page and described herein.

Bearings and distances specified herein are based on existing deed references and information provided by others and have not been field verified.

Temporary construction easements shown herein will be abandoned upon completion of construction.

The easement shown herein is not intended to represent a full boundary survey and was prepared under the authority of TCA 62-18-126.

This easement is not a general property survey as defined under rule 0820-03-07.

LEGAL DESCRIPTION

Commencing at a point on the eastern right of way of Mallory Lane, said point being the northwest corner of said parcel. Thence with the western boundary of said parcel S03°44'20"E, 39.65' to the Point of Beginning of this easement.

Thence from the Point of Beginning along six lines as follows:
 S03°46'51"E, 15.00' (L1) to a point, N87°33'03"E, 5.46' (L2) to a point, S03°59'36"E, 21.69' (L3) to a point,
 S03°08'39"E, 19.89' (L4) to a point, S02°17'41"E, 20.20' (L5) to a point, and S02°17'41"E, 14.10' (L6) to a point.

Thence continuing with a curve to the right (C1) having a central angle of 09°45'27", a radius of 1966.96', a curve length of 334.97', a chord length of 334.57', and a chord bearing of S02°35'02"W to a point.

Thence continuing with a curve to the right (C2) having a central angle of 01°45'53", a radius of 1607.50', a curve length of 49.51', a chord length of 49.51', and a chord bearing of S06°34'49"W to a point.

Thence along three lines as follows:
 S05°41'53"W, 20.86' (L7) to a point, S05°33'07"E, 63.22' (L8) to a point, and S05°43'07"W, 159.26' (L9) to a point.

Thence continuing with a curve to the right (C3) having a central angle of 11°46'24", a radius of 935.50', a curve length of 96.11', a chord length of 95.94', and a chord bearing of S11°35'05"W to a point.

Thence continuing with a curve to the left (C4) having a central angle of 09°28'05", a radius of 599.20', a curve length of 99.02', a chord length of 98.90', and a chord bearing of S12°44'14"W to a point.

Thence continuing along a line S08°00'12"W, 399.07' (L10) to a point.

Thence continuing with a curve to the left (C5) having a central angle of 05°42'46", a radius of 911.66', a curve length of 90.90', a chord length of 90.86', and a chord bearing of S05°08'49"W to a point.

Thence continuing with a curve to the left (C6) having a central angle of 05°42'46", a radius of 896.65', a curve length of 89.40', a chord length of 89.36', and a chord bearing of S05°08'49"W to a point.


Thence continuing along three lines as follows:
 S08°00'12"W, 99.18' (L11) to a point, S19°15'12"W, 40.06' (L12) to a point, and S08°05'52"W, 80.76' (L13) to a point.

Thence continuing with a curve to the left (C7) having a central angle of 04°21'34", a radius of 1625.03', a curve length of 123.64', a chord length of 123.61', and a chord bearing of S05°42'11"W to a point.

Thence continuing along two lines as follows:
 S41°00'49"E, 10.29' (L14) to a point and S03°43'05"E, 10.25' (L15) to a point.

Thence continuing with a curve to the left (C8) having a central angle of 03°54'46", a radius of 1297.97', a curve length of 88.64', a chord length of 88.62', and a chord bearing of S01°45'42"W to a point.

Thence continuing with a curve to the left (C9) having a central angle of 18°32'07", a radius of 1153.47', a curve length of 373.15', a chord length of 371.52', and a chord bearing of S09°31'13"E to a point.

	<p>MAP SHOWING DEDICATION OF EASEMENT TO: MALLORY VALLEY UTILITY DISTRICT FROM: WILLIAMSON BOARD OF EDUCATION</p>	EASEMENT NO. 28
		<p>MAP NO. 79 PARCEL NO. 35.06 H&D PROJECT NO 1016-25</p>

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LENGTH ALONG CENTERLINE:		2,993 LINEAR FEET ±	

Thence continuing along nine lines as follows:

S18°31'55"E, 81.49' (L16) to a point, S41°01'55"E, 86.16' (L17) to a point, S86°01'55"E, 485.19' (L18) to a point, S73°42'33"E, 25.09' (L19) to a point, N16°20'30"E, 15.00' (L20) to a point, N73°42'33"W, 26.73' (L21) to a point, N86°01'55"W, 480.59' (L22) to a point, N41°01'55"W, 79.96' (L23) to a point, and N18°31'55"W, 78.51' to a point.

Thence continuing with a curve to the right (C10) having a central angle of 18°32'07", a radius of 1138.43', a curve length of 368.28', a chord length of 366.68', and a chord bearing of N09°31'15"W to a point.

Thence continuing with a curve to the right (C11) having a central angle of 03°54'46", a radius of 1282.97', a curve length of 87.62', a chord length of 87.60', and a chord bearing of N01°45'42"E to a point.

Thence continuing along two lines as follows:

N03°43'05"E, 16.69' (L25) to a point and N41°00'46"W, 10.30' (L26) to a point.

Thence continuing with a curve to the right (C12) having a central angle of 04°08'28", a radius of 1610.03', a curve length of 116.37', a chord length of 116.34', and a chord bearing of N05°48'44"E to a point.

Thence continuing along three lines as follows:

N08°05'52"E, 79.24' (L27) to a point, N19°15'12"E, 40.07' (L28) to a point, and N08°00'12"E, 100.66' (L29) to a point.

Thence continuing with a curve to the left (C13) having a central angle of 05°42'46", a radius of 911.65', a curve length of 90.90', a chord length of 90.86', and a chord bearing of N05°08'49"E to a point.

Thence continuing with a curve to the right (C14) having a central angle of 05°42'46", a radius of 896.65', a curve length of 89.40', a chord length of 89.36', and a chord bearing of N05°08'49"E to a point.

Thence continuing along a line N08°00'12"E, 160.74' (L30) to a point.

Thence continuing with a curve to the right (C15) having a central angle of 09°28'05", a radius of 584.20', a curve length of 96.54', a chord length of 96.43', and a chord bearing of N12°44'14"E to a point.

Thence continuing with a curve to the left (C16) having a central angle of 11°46'24", a radius of 482.75', a curve length of 99.20', a chord length of 99.02', and a chord bearing of N11°35'05"E to a point.

Thence continuing along three lines as follows:


N05°43'07"E, 160.74' (L31) to a point, N05°33'07"W, 63.22' (L32) to a point, and N05°41'53"E, 19.38' (L33) to a point.

Thence continuing with a curve to the right (C17) having a central angle of 01°45'53", a radius of 1592.50', a curve length of 49.05', a chord length of 49.04', and a chord bearing of N06°34'49"E to a point.

Thence continuing with a curve to the left (C18) having a central angle of 09°45'27", a radius of 1981.95', a curve length of 337.53', a chord length of 337.12', and a chord bearing of N02°35'02"E to a point.

Thence continuing along five lines as follows:

N02°17'41"W, 14.58' (L34) to a point, N02°17'41"W, 19.83' (L35) to a point, N03°08'39"W, 20.11' (L36) to a point, N03°59'36"W, 36.40' (L37) to a point, and S87°33'03"W, 20.41' (L38) to the Point of Beginning.

 <p>278 FRANKLIN ROAD, SUITE 200 BREWSTER, TN 37027</p> <p>300 VESTAVIA PARKWAY, SUITE 2300 BIRMINGHAM, AL 35218</p>	<p>MAP SHOWING DEDICATION OF EASEMENT TO: MALLORY VALLEY UTILITY DISTRICT FROM: WILLIAMSON BOARD OF EDUCATION</p>	EASEMENT NO. 28
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1320 West Main Street, Suite 202
Franklin, Tennessee 37064-3700
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Website: <http://www.wcs.edu>



MEMORANDUM

DATE: 20 December 2019

TO: School Board Members

FROM: Mark Samuels, Assistant Superintendent for Operations

RE: **ADOPTION OF THE WILLIAMSON COUNTY MULTI-HAZARD MITIGATION PLAN**

1. Williamson County's Emergency Management Agency has developed a Multi-Hazard Mitigation Plan (see attachment.) This plan addresses the community's notable risks and vulnerabilities and implements over 80 mitigation projects across the jurisdictions to address areas of concerns. The risk assessments included flooding, tornadoes, severe storms, freezes, winter storms, extreme heat, drought, geologic hazards, and earthquakes.
2. The plan was developed in accordance with the Disaster Mitigation Act of 2000, as contained in 44 CFR 201.6. FEMA has recently approved an update to the plan which is a prerequisite for obtaining FEMA managed grants to help with the mitigation projects. In order to qualify to participate for these grants all local jurisdictions must formally adopt the county's plan. As a major public entity, WCS can obtain some of these grant monies if we formally adopt the plan.
3. Staff recommends adoption of the plan.

Attachment: Williamson County Emergency Management Agency 294-NH

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2
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Williamson County
Emergency Management Agency
294-NH



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9

2017

Prepared By:
Williamson County Hazard Mitigation Committee
Williamson County Emergency Management Agency
Tennessee Emergency Management Agency

Executive Summary

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Over the past two decades, hazard mitigation has gained increased national attention due to the large number of natural disasters that have occurred throughout the U.S. and the rapid rise in costs associated with those disaster recoveries. Money spent mitigating potential impacts of a disaster event can result in substantial savings of life and property. The Disaster Mitigation Act of 2000 calls for local governments to develop mitigation plans (*44 CFR 201*). In 2005, the Multihazard Mitigation Council (MMC) conducted a widely cited study, [*Natural Hazard Mitigation Saves*](#), which documented that every \$1 spent on mitigation saves society an average of \$4.

The purpose of a local hazard mitigation plan is to identify the community’s notable risks and specific vulnerabilities, and then to create/implement corresponding mitigation projects to address those areas of concern. This methodology helps reduce human, environmental and economical costs from natural and man-made hazards through the creation of long-term mitigation initiatives.

The advantages of developing a local hazard mitigation plan are numerous including improved post-disaster decision making, education on mitigation approaches, an organizational method for prioritizing mitigation projects, etc. It has been noted that communities who successfully complete and maintain a mitigation plan receive larger amounts of federal and state funding to be used on mitigation projects and receive these funds faster than communities who do not have a plan. Such funding sources that the plan caters to are Pre-Disaster Mitigation, Flood Mitigation Assistance, Severe Repetitive Loss and Hazard Mitigation Grant Programs.

The 2017 Williamson County Hazard Mitigation Plan was created to act as a comprehensive guide to be used by and for the people of Williamson County. For this plan to be successful, each jurisdiction within the county participated in the drafting and preparation of the plan. These participating jurisdictions include:

- Williamson County (unincorporated)
- City of Spring Hill
- City of Franklin
- City of Brentwood
- Town of Nolensville
- Town of Thompsons Station
- City of Fairview

In reference to federal code title *44 CFR 201*, the plan is required to be submitted to both TEMA (State) and FEMA (Federal) for review to be approved. When the plan is deemed “approval pending adoption” by FEMA (*44 CFR 201.6(c)5*), each of the participating jurisdictions will adopt the plan through a local resolution.

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96 **Section 1: Planning Process**

97 **Planning Process**

98 The previous Williamson County Hazard Mitigation Plan was approved by FEMA in 2012. Per
99 federal requirements stated in *44 CFR 201*, all local hazard mitigation plans are required to go
100 through a FEMA update review every five years to remain eligible for hazard mitigation grants.
101 To ensure risks are regularly re-evaluated and mitigation projects continue to effectively reduce
102 community vulnerabilities, Williamson County reviews the mitigation plan annually and updates
103 the plan at least every five years. Furthermore, the approved 2012 Williamson County Hazard
104 Mitigation Plan was integrated into the Basic Emergency Operations Plan (BEOP) due to the
105 differing format than what is currently being presented. The BEOP covers and is accepted by all
106 cities and towns within the County, so this was the accepted integration method. Moving
107 forward, the new format will be able to be accepted into multiple sources and plans for each
108 city and town within the county.

109 Williamson County Emergency Management Agency (EMA) continually leads the development,
110 review and update process for the Plan. Williamson County EMA planners and the regional
111 TEMA planner met on Monday, April 17, 2017 to begin coordination of the future meetings with
112 the Williamson County Hazard Mitigation Committee¹. It was important to note during this
113 initial meeting, the process and purpose of each future meeting was defined in order to create
114 an organized process for the committee members. At this meeting, it was decided that
115 stakeholders would be invited by email initially and would continue to receive email
116 notifications as the meetings continued. Also, those who were able to attend the meetings were
117 given invitations as an announcement, which reflected what was communicated in email.

118 Williamson County EMA coordinated directly with county and local officials to establish the
119 Williamson County Hazard Mitigation Committee. Throughout the process, the Mitigation
120 Committee provided guidance and input for the plan and mitigation actions and projects.
121 Williamson County EMA ensured all county jurisdictions were represented by at least one
122 person on the committee.

123 The development of the plan were broken into two stages:

- 124 1. the brainstorming and drafting stage
- 125 2. the reviewing stage

126 During the brainstorming and drafting stage, the committee identified hazards, evaluated risks,
127 calculated and located each jurisdiction's vulnerable areas, identified the county's critical
128 facilities, determined the county's mitigation goals/objectives, created and sponsored mitigation
129 projects, and prioritized those mitigation projects. During the review stage the committee

¹ Committee list found in Appendix I

130 evaluated the written drafts of the plan. Also, in this process each jurisdiction reviewed written
131 drafts that specifically addressed aspects of their jurisdiction (i.e., each jurisdiction’s individual
132 risks and vulnerabilities).

133 The regular five year review meeting took place on May 23, 2017² at the Williamson County
134 Emergency Operations Center (EOC). In this meeting with the help from the TEMA regional
135 planner, the mitigation plan process was reviewed and stages explained to committee
136 members. The Williamson County EMA planner emphasized the need for stakeholder
137 participation from each jurisdiction. Also, representatives from the TEMA mitigation department
138 spoke to the committee in regards to the specific mitigation grant funding opportunities
139 available with an active mitigation plan.

140 The second Mitigation Committee meeting was held on June 13, 2017, at the Williamson County
141 EOC. At this meeting, the committee provided updates to the risk and vulnerability information
142 for their respected jurisdiction and began to discuss potential projects. The risk and vulnerability
143 process was also explained to committee members in how it relates to the project list
144 development. Prior to this meeting, Williamson County EMA announced the date and time
145 during the monthly LEPC meeting in order to get maximum awareness and participation within
146 the community³.

147 The third Mitigation Committee meeting was held on June 22, 2017, at the Williamson County
148 EOC. At this meeting, committee members discussed the threat of sinkholes in Williamson
149 County, as well as began looking at the project list which was included in the previous FEMA
150 approved Natural Hazard Mitigation Plan. The members took a list of projects organized under
151 each hazard and were told to identify which projects were completed and which projects
152 needed to be transferred onto the new project list⁴.

153 The fourth meeting, held Tuesday, June 27, 2017, continued work on the project list and
154 resembled more of a working session. Some jurisdictions were able to research and provide the
155 projects which have been completed, as well as projects which needed to be brought over into
156 the new plan. Other jurisdictions continued work within their groups to identify the current
157 status of projects.

158 The fifth meeting was held July 6, 2017, at the Williamson County EOC. This continued to be a
159 working session for the jurisdictions within the committee. They continued identifying which
160 projects needed to be brought into the new plan, as well as which projects were completed.
161 Also, the jurisdictions were able to communicate new plans they wanted to include into the
162 project list, but several project lists remained in rough draft form. The jurisdictions were then

² Meeting information found in Appendix B

³ Meeting details found in Appendix C

⁴ Meeting details found in Appendix D

163 told to have in the completed lists with a target end date of July 28, 2017, for a completed
164 project list.

165 Through the next several weeks, the Williamson County EMA planner reminded the jurisdictions
166 to hand in their project lists by email communication, as well as answered any questions as the
167 groups worked. She was able to compile everything using one source of communication and
168 complete the project list in time to discuss with Williamson County Emergency Management
169 leadership on July 27, 2017.

170 **Public Participation**

171 To encourage public involvement, the Mitigation Committee advertised their sixth committee
172 meeting for October 16, 2017 in the Williamson Herald, a newspaper of general circulation. This
173 notice occurred on September 28, 2017, and was placed near other public notices within the
174 Williamson Herald circulation on that day. This meeting provided the opportunity for the public
175 to comment on the plan during drafting stages, to contribute in project proposals, and to
176 participate in project prioritization. The notice presents the purpose of the meeting, the time
177 and date of the meeting, the exact location of the meeting, and stated that all are invited to
178 attend⁵.

179 There were no members of the public that showed up for this meeting, however it was attended
180 by several members of the mitigation committee. If anyone from the public did attend this
181 meeting, they would have been provided the opportunity to add any details to the project list,
182 as well as make any additions to hazard descriptions. Williamson County will continue public
183 outreach and incorporation throughout all future planning processes. Upon receiving the
184 “Approval Pending Adoption” designation from FEMA, the public will be given a chance to
185 comment on the final draft of the plan prior to its adoption by each local jurisdiction. This
186 opportunity will take place at a local elected board meeting for each jurisdiction before the plan
187 adoption decision takes place. The opportunity for final public comment will therefore be
188 documented through the receipt of a signed adoption resolution.

189

190 **Review of Existing Information**

191 A preliminary review of existing plans, reports and information was conducted during the initial
192 phase of creating the Williamson County Hazard Mitigation Plan. The primary purpose of
193 reviewing this information was to identify local hazards and risks, and understanding different
194 local vulnerabilities. The following list of sources identifies some of the existing studies that
195 were reviewed:

- 196 • Williamson County Basic Emergency Operations Plan (BEOP)

⁵ See Appendix J for meeting’s attendance sheet and a copy of the public notice for the meeting.

- 197 • City of Spring Hill, City of Fairview, City of Franklin, City of Nolensville, City of
- 198 Brentwood, Town of Nolensville, Town of Thompsons Station:
- 199 ○ Building Codes and Regulations
- 200 ○ Zoning Ordinances
- 201 ○ Storm water Regulations
- 202 • U.S. Census Bureau
- 203 • USDA Census of Agriculture
- 204 • FEMA Mitigation “How to” Guides
- 205 • NOAA National Climatic Data Center (NCDC) storm reports

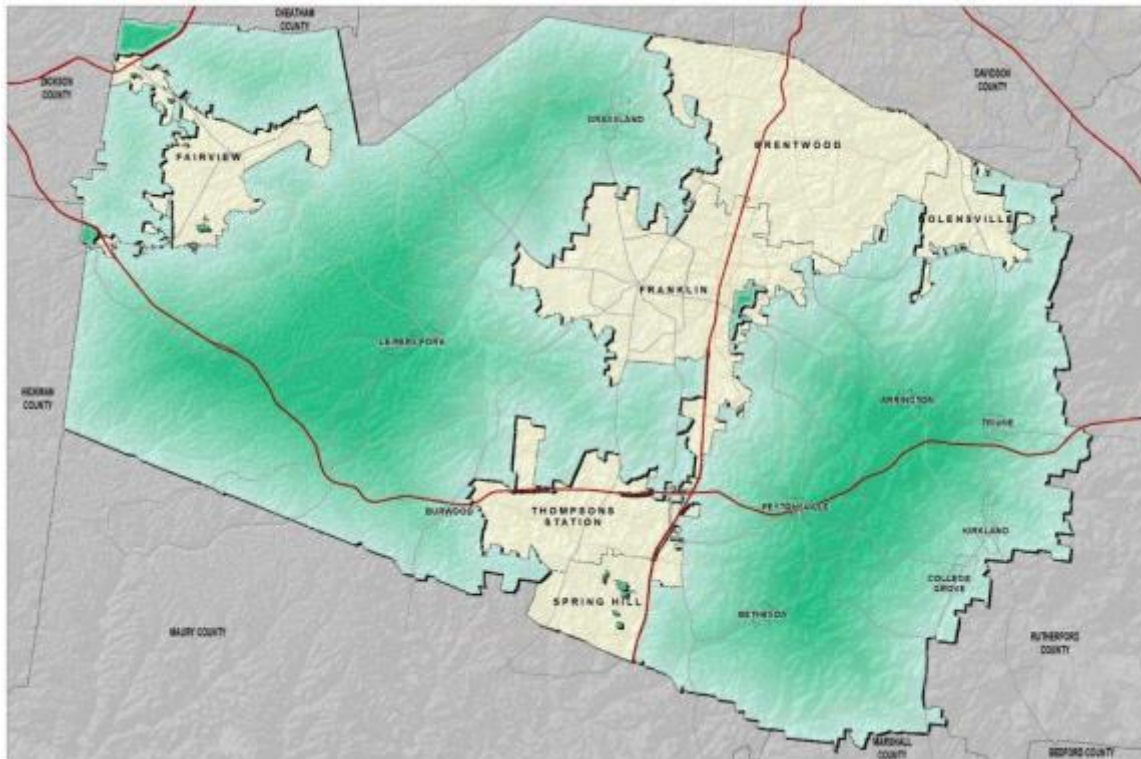
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207 All of the listed plans, studies and data sources were incorporated into the Williamson County
208 Hazard Mitigation Plan. These sources helped develop the plan’s hazard, risk, and vulnerability
209 assessment sections that in return led to the establishment of meaningful mitigation actions.

Section 2: County Profile

Development Trends

Williamson County contains six cities and towns. The City of Brentwood lies at the northern border of Williamson County near the county line of Davidson County. The City of Fairview is situated in the northwestern corner of Williamson County and is bordered by Dickson, Cheatham, and Hickman Counties. The City of Franklin is located in the center of the county, just south of the City of Brentwood. The Town of Nolensville is located at the northeastern corner of Williamson County, bordered by Davison and Rutherford Counties. The City of Spring Hill is located at the southwestern portion of Williamson County. The City of Spring Hill straddles both Williamson County and Maury county lines. The Town of Thompson Station can be found on the northern side of the City of Spring Hill in Williamson County.



Source: Williamson County Emergency Management Agency GIS Department

Williamson County's population, according to the latest official numbers (2010) by the US Census Bureau, is 183,182. This number is also located in the HAZUS report scenario.

Williamson County's top employers are large corporations such as Nissan North America, Mars, and Community Health Systems Inc. and Tractor Supply. In fact, 12 of the top 25 largest publicly traded companies in the Nashville region are located within Williamson County. Also, according to the Williamson County Chamber of Commerce (williamsonchamber.com), 21% of Williamson County residents are entrepreneurs.

Future developments in Williamson County are estimated to grow as the population and labor force also grows. Within the next five years, there are several commercial real estate projects to meet the growing need of Williamson County growth. A majority of these will be in the Franklin and Brentwood cities of Williamson County. This growth is found in industries with great earning potential (i.e. healthcare, scientific and technical services).

With this economic growth, neighboring counties will see a change as well. Rutherford County to the east will see a 99% population growth by the year 2040, according to the Williamson County Chamber of Commerce.

To counter any potential negative effects associated with future developments all jurisdictions are taking actions through instituting governmental mitigation mechanisms.

Jurisdictional Capabilities

Currently, all jurisdictions enforce building codes to ensure that structures are built in accordance to national standards. Williamson County enforces floodplain ordinances as part of adopting into the National Flood Insurance Program (NFIP). Additionally, Williamson County jurisdictions have zoning codes to lead to sensible growth and land development patterns. These instituted planning mechanisms help guide growth away from floodplains and other identified hazardous areas, thus reducing vulnerabilities to the jurisdictions.

Legal & Regulatory Capability

Regulatory Tools/Plans	Regulatory Type: Ordinance Resolution Codes Plans, Etc.	Williamson County	Franklin	Brentwood	Spring Hill	Nolensville	Fairview	Thompsons Station
Building Codes	Municipal Code	Y	Y	Y	Y	Y	Y	Y
Zoning	Ordinance	Y	Y	Y	Y	Y	Y	Y
Emergency Response Plan	Basic Emergency Operations Plan (BEOP)	Y	Y	Y	Y	Y	Y	Y
National Flood Insurance Program Participant	Mapping	Y	Y	Y	Y	Y	Y	Y
Post-Disaster Recovery Plan	BEOP	Y	Y	Y	Y	Y	Y	Y

1 **Section 3: Risk Assessment**

2 **Hazard Identification**

3 To assess Williamson County’s risk to natural hazards and identify the community’s areas of
4 highest vulnerability, the mitigation committee had to identify which hazards have or could
5 impact the county. This hazard identification process began with researching previous hazard
6 events which have occurred in Williamson County using Williamson County Emergency
7 Management records, researching news sources and recalling personal experiences. From
8 there, EMA staff analyzed hazard events which could occur in the county by reviewing scientific
9 studies and consulting the State of Tennessee Hazard Mitigation Plan. The National Fire
10 Protection Association (NFPA) 1600 code was also consulted, using this document to crosswalk
11 with the state list of hazards. Williamson County EMA leadership decided on the prime hazards
12 to include in the county’s mitigation plan.

13 The following hazards have been identified as hazards of concern by the Mitigation Committee.

14 **Flooding**

15 Flooding events occur when excess water from rivers and other bodies of water overflow onto
16 riverbanks and adjacent floodplains. In addition, lower lying regions can collect water from
17 rainfall and poorly drained land can accumulate rainfall through ponding on the surface. Floods
18 in Williamson County are usually caused by rainfall, but may also be caused by snowmelt and
19 man-made incidents. The below charts explain common ways flooding occurs and common
20 factors that contribute toward the severity of floods.

Common Ways Flooding Occurs	
Methods	Description
Overland Flow (a) Infiltration (b) Saturation	-Excess overland flow occurs when the rain is falling more rapidly than it infiltrates into the soil. -Excess overland flow occurs when soil spaces are so full of water that no more rain can be absorbed.
Throughflow	-Rainwater which has infiltrated into unsaturated soil can move horizontally to the river channel. This process is slower than overland flow but faster than baseflow.
Baseflow	-Rainwater which has percolated to the aquifer can seep into the river channel. This is the slowest process.

21

22

Source: The Field Studies Council

Common Causes of Flooding	
Factor	Effect on Flooding
Geology	Impermeable rocks are saturated more quickly than porous and pervious rocks. Saturation-excess overland flow is more common. Sandy soils have larger pore spaces than clay soils. Infiltration is most rapid in sandy soils.
Relief	Water reaches the channel more rapidly in a steeper basin as water is travelling more quickly downhill.
Vegetation	Vegetation intercepts a large proportion of rainfall. Where trees are deciduous, discharge is higher in a forested basin in winter as there is less interception.
Meteorological Factors	Where rain is falling faster than the infiltration rate there is infiltration-excess overland flow. This is common after a summer storm. Snow does not reach the channel but is stored on the ground surface. As snow melts, the meltwater will reach the channel quickly as infiltration is impeded if the ground is still frozen.
Catchment Shape	It takes less time for water to reach the channel in a circular basin as all extremities are roughly equidistant from the channel.
Land Use	Surface runoff is higher in urban areas because there are more urban surfaces (concrete & tarmac) and sewers take water rapidly to rivers. There is less interception and evapotranspiration and more surface runoff in a deforested catchment.
Catchment Size	Water reaches the channel more rapidly in a smaller basin as water has a shorter distance to travel.
Antecedent Conditions	The level of discharge before the storm is called the antecedent discharge. Even a small amount of rain can lead to flooding.

23

24

Source: The Field Studies Council

25

In Williamson County, some areas are more flood-prone than others. One of the easiest ways of identifying these flood-prone areas is through reviewing the county flood maps. These maps display the base floodplain, commonly referred to as to the 100-year floodplain, which is the national standard used by the National Flood Insurance Program (NFIP) and all Federal agencies for the purposes of requiring the purchase of flood insurance and regulating new development. On NFIP maps, areas within the base floodplain are called the Special Flood Hazard Area (SFHA). The base floodplain or SFHA describes an area with a flood risk that has a 1% chance of being equaled or exceeded in magnitude every year. NFIP flood maps are available for public viewing and use online via the FEMA Map Service Center (<https://msc.fema.gov/portal>).

34

The term "100-year flood" has caused much confusion for people not familiar with statistics. Commonly, people interpret the 100-year flood definition to mean "once every 100 years." This is wrong. You could experience a 100-year flood two times in the same year, two years in a row, or four times over the course of 100 years. You could also not experience a 100-year flood over the course of 200 or more years. To avoid confusion, the NFIP uses the term "base flood." A 100-year base flood is defined as having a 1% chance of being reached or exceeded in any single year. Thus, the 100-year flood also is called the "1% annual chance flood."

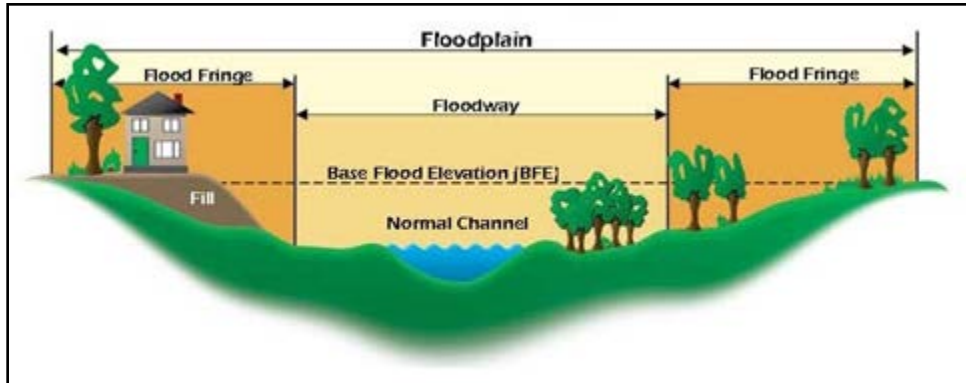
41

Another way to look at flood risk is to think of the odds that a 100-year flood will happen sometime during the life of a 30-year mortgage—a 26% chance for a structure located in the SFHA. Even these numbers do not convey the true flood risk because they focus on the larger, less frequent, floods. If a house is low enough, it may be subject to the 10- or 25-year flood event. During a 30-year mortgage, it may have a 26% chance of being hit by the 100-year flood, but the odds are 96% (nearly guaranteed) that it will be hit by a 10-year

46

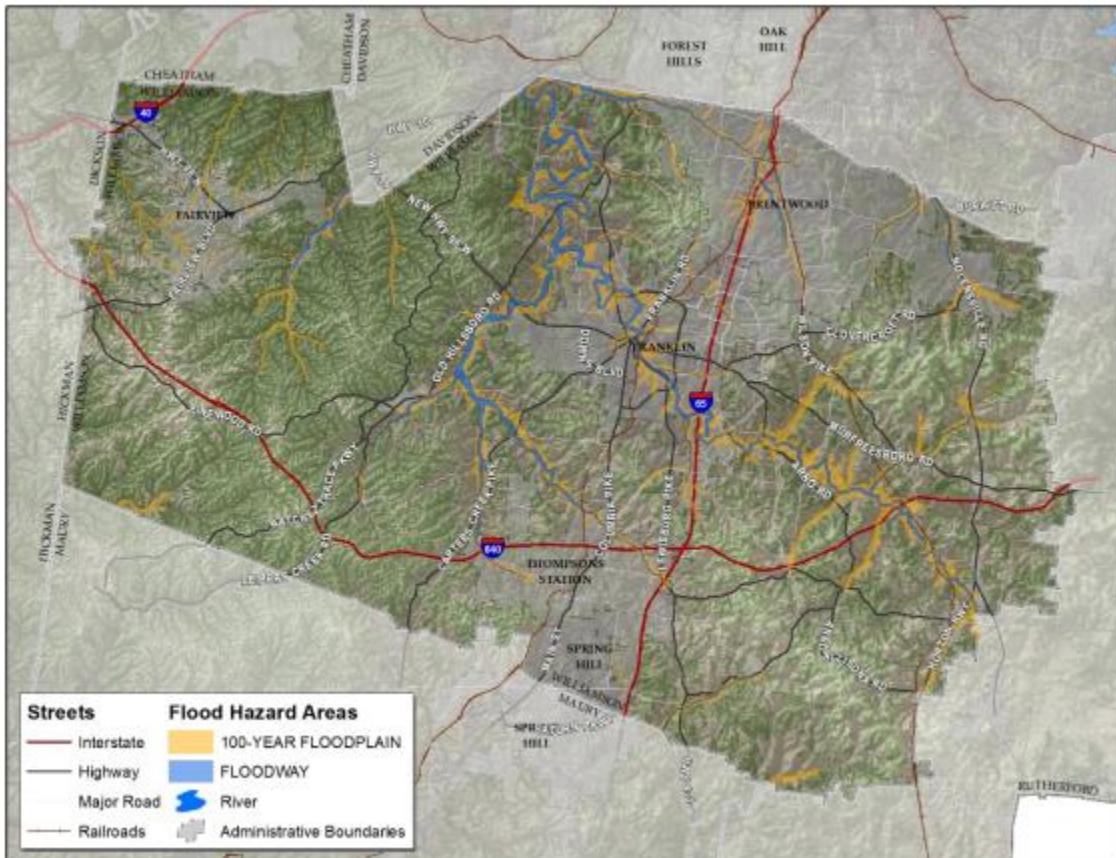
47 flood. Compare those odds to the only 1-2% chance that the house will catch fire during
48 the same 30-year mortgage.

49 **Characteristics of a Floodplain**



50

51 *Source: FEMA*



52

53 *Source: Williamson County Emergency Management GIS Department*

54 In Williamson County, all jurisdictions have 100-year floodplains located within their boundaries
55 and all jurisdictions are susceptible to smaller localized flooding outside of the 100-year
56 floodplains. Within those jurisdictions, Williamson County's building stock, worth approximately

57 \$26 million dollars in approximate replacement value, can be broken down into the following
58 percentage categories: 82.8% residential, 12.2% commercial, 2.2% industrial, 0.3% agricultural,
59 0.3% governmental, 1.3% religious, and 0.9% educational.⁶
60

61 Williamson County has had many flood events in the past. Based on NOAA NCDc data, the
62 following charts provide a list of flood events occurring in Williamson County from January 2011
63 - December 2016 and a list of floods with descriptions of their impacts imposed on the
64 community.

65 Flood Events in Williamson County

66 January 1, 2011 – December 31, 2016

Location	Date	Time	T.Z.	Type
MALLORYS	7/7/2011	13:55	CST-6	Flash Flood
LEIPERS FORK	3/15/2012	15:16	CST-6	Flash Flood
LEIPERS FORK	3/15/2012	16:08	CST-6	Flash Flood
CRAIGFIELD	3/17/2012	14:46	CST-6	Flash Flood
BERRYS CHAPEL	1/13/2013	13:52	CST-6	Flash Flood
NOLENSVILLE	4/27/2013	11:30	CST-6	Flash Flood
FOREST HOME	4/27/2013	22:00	CST-6	Flash Flood
LEIPERS FORK	4/28/2014	9:00	CST-6	Flash Flood
DUPLEX	9/2/2014	22:00	CST-6	Flash Flood
NEW HOPE	10/13/2014	20:00	CST-6	Flash Flood
MUDSINK	6/8/2015	17:00	CST-6	Flash Flood
MALLORYS	6/23/2015	23:00	CST-6	Flash Flood
MUDSINK	7/7/2016	5:58	CST-6	Flash Flood
FOREST HOME	2/4/2014	12:40	CST-6	Flood
BOSTON	2/21/2015	16:00	CST-6	Flood
FOREST HOME	5/31/2015	17:00	CST-6	Flood

67

68

69

Source: <http://www.ncdc.noaa.gov/>

⁶ source: Williamson County HAZUS Flood Study – table 1 in Appendix F

70

Flood Impacts in Williamson County

71

January 1, 2011 – December 31, 2016

Location	Date	Deaths	Injuries	Property Damage	CrD
MALLORYS	7/7/2011	0	0	50.00K	3.00K
LEIPERS FORK	3/15/2012	0	0	1.00K	1.00K
LEIPERS FORK	3/15/2012	0	0	1.00K	1.00K
CRAIGFIELD	3/17/2012	0	0	1.00K	1.00K
BERRYS CHAPEL	1/13/2013	0	0	3.00K	1.00K
NOLENSVILLE	4/27/2013	0	0	5.00K	0.00K
FOREST HOME	4/27/2013	0	0	0.00K	0.00K
LEIPERS FORK	4/28/2014	0	0	0.00K	0.00K
DUPLEX	9/2/2014	0	0	0.00K	0.00K
NEW HOPE	10/13/2014	0	0	0.00K	0.00K
MUDSINK	6/8/2015	0	0	0.00K	0.00K
MALLORYS	6/23/2015	0	0	10.00K	0.00K
MUDSINK	7/7/2016	0	0	0.00K	0.00K
FOREST HOME	2/4/2014	0	0	0.00K	0.00K
BOSTON	2/21/2015	0	0	0.00K	0.00K
FOREST HOME	5/31/2015	0	0	0.00K	0.00K

72

Source: <http://www.ncdc.noaa.gov/>

73

74

75 Small localized flood events are likely to occur several times a year in Williamson County. When
 76 2-4 inches are called for in Williamson County, the National Weather Service (NWS) is normally
 77 prompted to issue a flood watch. This is because localized flooding is often experienced
 78 throughout the county when rainfall is within this amount.

79 Flooding remains one of the biggest threats for Williamson County, due to the local Harpeth
 80 River and its branching creeks. According to the NWS Advanced Hydrologic Prediction Service,
 81 the Harpeth River near the city of Franklin reaches Flood Stage at 30 ft. The gauge for this
 82 measurement is located off Murfreesboro Road, near Pinkerton Park. In this area, even when
 83 Flood Stage is not reached, there are local impacts:

- 84 • 30 ft.: Flooding of Pinkerton Park begins, including walking trails and picnic areas.
- 85 • 28 ft.: Flooding of properties adjacent to the river begins near Hillsboro Road and Mack
 86 Hatcher Memorial Parkway.
- 87 • 24 ft.: Flooding will affect areas along the Harpeth River from Franklin to Bellevue. In
 88 Franklin, water will reach the city park, 4th Street, and portions of Highway 431.
- 89 • 23 ft.: Water begins to inundate low lying areas along the banks, including the nursery at
 90 Hillsboro Road and Fulton Greer Lane.
- 91 • 22 ft.: Flood waters reach Highway 431 (Lewisburg Pike) in Franklin.

92 According to the same source at the NWS, further rising levels above Flood Stage in this area
93 could see the following:

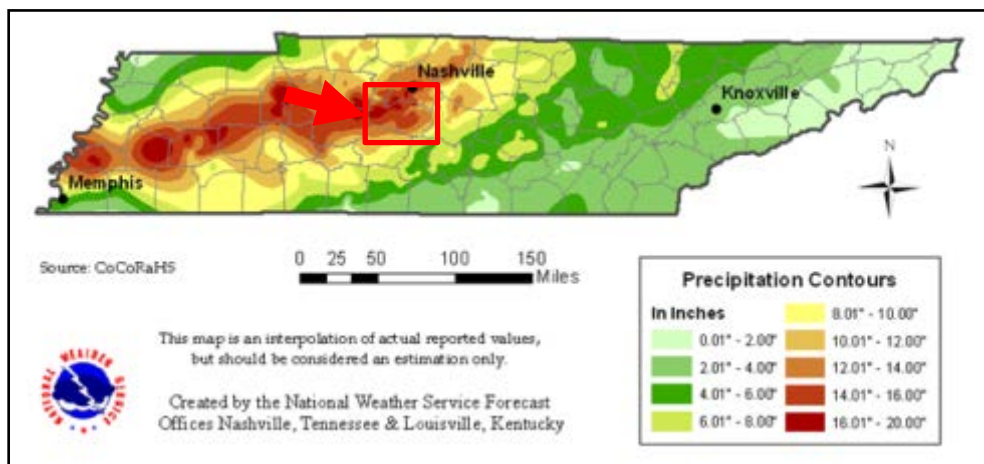
- 94 • 38 ft.: Water may approach properties and structures near the river on Third Avenue
95 South, First Avenue South, and East Main Street. These roads and others in the area may
96 be subject to closure at higher river levels.
- 97 • 35 ft.: Flooding of Hillsboro Rd and Mack Hatcher Memorial Parkway begins, and may
98 close these major roads at higher river levels.
- 99 • 34 ft.: Pinkerton Park is completely flooded.
- 100 • 32 ft.: Flooding of properties and structures adjacent to the river near Hillsboro Road
101 and Mack Hatcher Memorial Parkway intersection can be expected.

102 The Harpeth River also has impacts below the City of Franklin. The gauge location for this area is
103 located off Hillsboro Rd and Judge Fulton Greer Park. The flood stage at this location is 27 ft.
104 Below is a list of flooding above and below the Flood Stage which highlights specific areas of
105 issue:

- 106 • 33 ft.: Water approaches Hillsboro Road and Mack Hatcher Memorial Parkway, and may
107 subject these major roads to closure at higher stages.
- 108 • 30 ft.: Significant flooding of properties and structures adjacent to the river can be
109 expected, especially near Hillsboro Road and Mack Hatcher Memorial Parkway.
- 110 • 27 ft.: Flooding of properties adjacent to the river begins near Hillsboro Road and Mack
111 Hatcher Memorial Parkway.
- 112 • 22 ft.: Water begins to inundate low lying areas along the banks, including the nursery at
113 Hillsboro Road and Fulton Green Lane.

114 As seen with the May 2010 Tennessee Flood Event (*DR-1909*), it is possible for 20 inches or more
115 of rainfall to amass within two days. (see following map).

116 Tennessee May Flood- Precipitation for May 1st & 2nd 2010



117

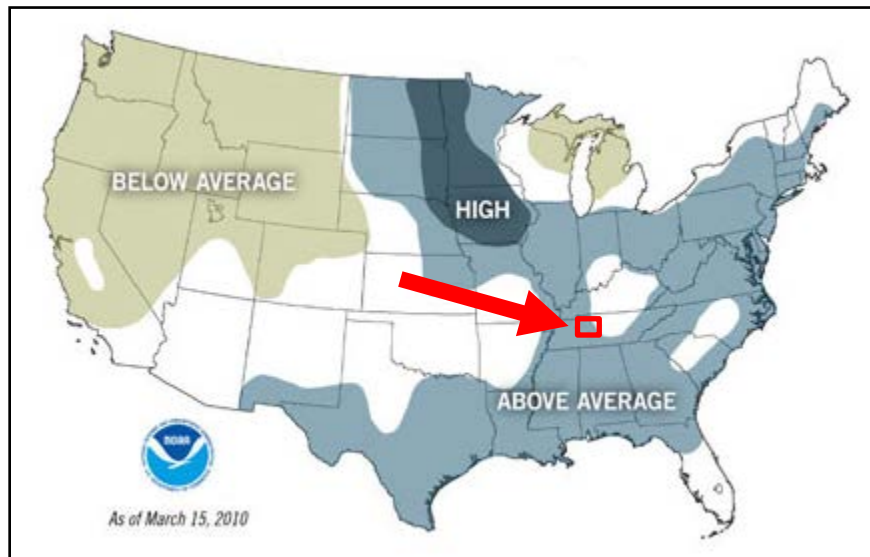
118 Source: National Weather Service <http://www.srh.noaa.gov/ohx/?n=may2010epicfloodevent>

119

120 According to a NOAA Flood Risk Map, (see map below), the majority of Tennessee was located
121 in an “above average” risk of flooding zone during spring 2010. This proposed vulnerability is
122 coupled with the fact that on average Tennessee usually receives over 50-60 inches of rainfall a
123 year (see following map).

124

Flood Risk Map



125

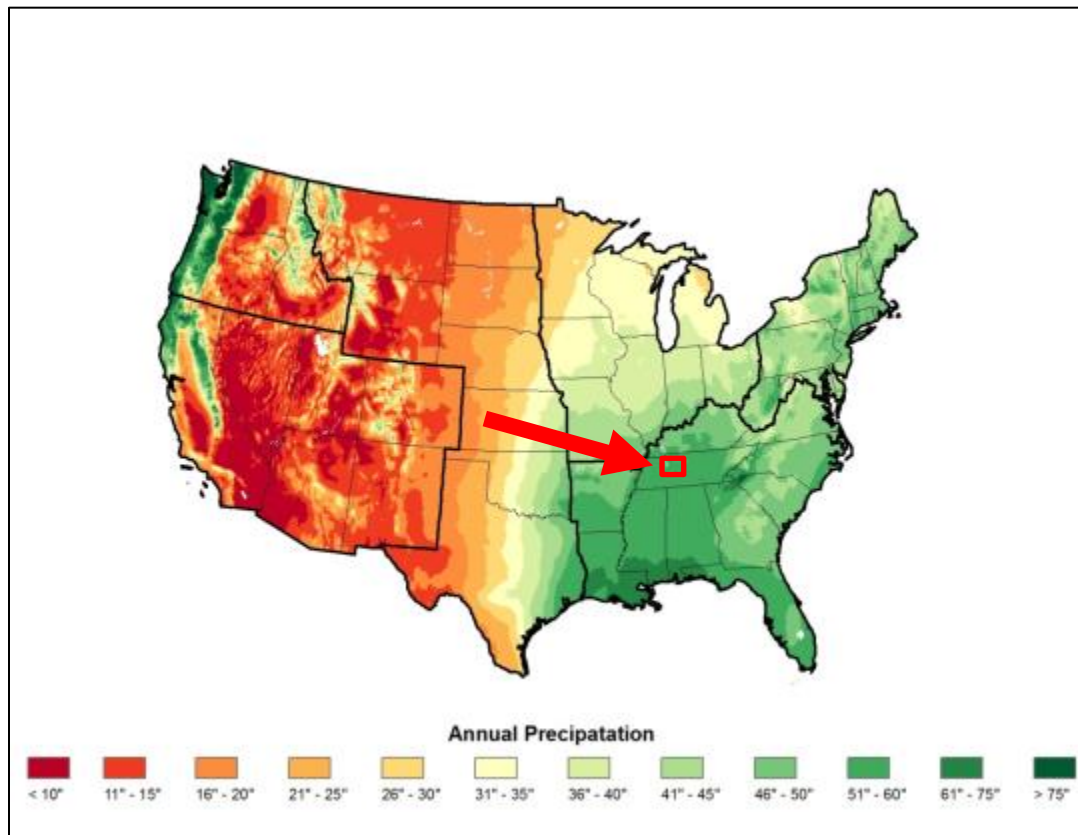
126

Source: NOAA

127

<https://www.climate.gov/news-features/featured-images/above-average-flood-risk-forecast-one-third-us>

Average Annual Precipitation (1981-2010)



129

130

Source:

131

http://scenarios.globalchange.gov/sites/default/files/b/figures/UnitedStates/US_Annual_Precipitation.jpg

132

Williamson County uses a simple system known as a [Vulnerability Calculator](#) to determine each

133

jurisdiction's vulnerability to hazard events. The Vulnerability Calculator applies simple

134

arithmetic to analyze probability and potential impacts of events to calculate a risk ranking for

135

each jurisdiction for each hazard.

136 **Source:** Calculation of Planning Committee Input using the [Vulnerability Calculator](#)

Event: Flood	Human 1-5	Property 1-5	Business 1-5	Average	Probability 1-5	Risk Score = [(H+P+B)/3] + P	35.67
City of Franklin	2	4	2	2.67	5	8	
City of Nolensville	3	3	2	2.67	4	7	
Town of Thompson Station	2	4	2	2.67	3	6	
City of Brentwood	3	5	2	3.33	2	5	
Williamson County	2	4	1	2.33	2	4	
City of Spring Hill	2	3	1	2.00	2	4	
City of Fairview	1	1	1	1.00	1	2	

137

Human		Scale
<i>Risk of injuries and deaths from the hazard</i>		
1	Death very unlikely, injuries are unlikely	Low 2-3.6
2	Death unlikely, injuries are minimal	Moderate 3.7-5.2
3	Death unlikely, injuries may be substantial	Medium 5.3-6.8
4	Death possible, injuries may be substantial	High 6.9-8.4
5	Deaths probable, injuries will likely be substantial	Severe 8.5-10
Property		
<i>Amount of residential property damage associated from the hazard</i>		
1	Less than \$500 in damages	
2	\$500-\$10,000 in damages	
3	\$10,000-\$500,000 in damages	
4	\$500,000-\$2,000,000 in damages	
5	More than \$2,000,000 in damages	
Business		
<i>Amount of business damage associated from the hazard</i>		
1	Less than 3 businesses closed for only a day	
2	More than 3 businesses closed for a week	
3	More than 3 businesses closed for a few months	
4	More than 3 businesses closed indefinitely or relocated	
5	A top-10 local employer closed indefinitely	
Probability		
<i>Likelihood of the hazard occurring within a given span of years</i>		
1	Less than once every 10 years	
2	About once every 5-10 years	
3	About once every 2-5 years	
4	About once a year	
5	More than once a year	

138

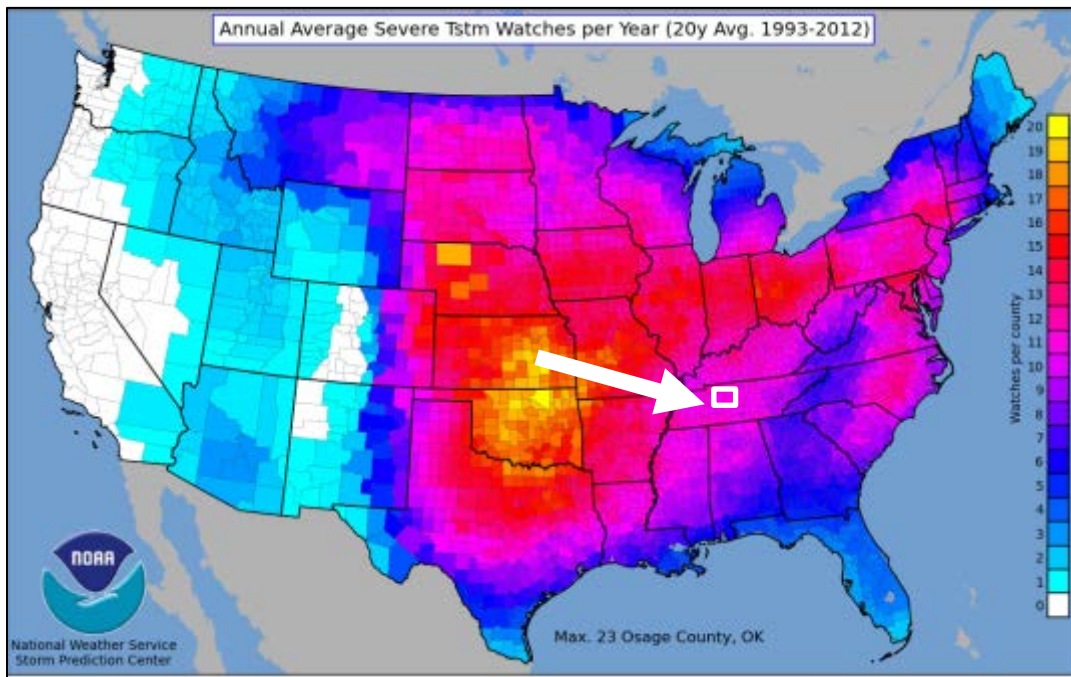
139 For further information about flooding hazards in Williamson County, see the HAZUS flood study
 140 in Appendix F.

141

142 **Tornadoes/Severe Storms**

143 According to NWS, to consider a storm severe it must encompass one of three traits: produce
144 winds greater than 58 miles per hour (50.4 knots), produce hail $\frac{3}{4}$ of an inch or greater in
145 diameter, or produce tornadoes. On average, a typical county in Tennessee has about 10 severe
146 storm watches per year (see map below).

147 **Average Severe Storm Watches Per Year (1999-2008)**

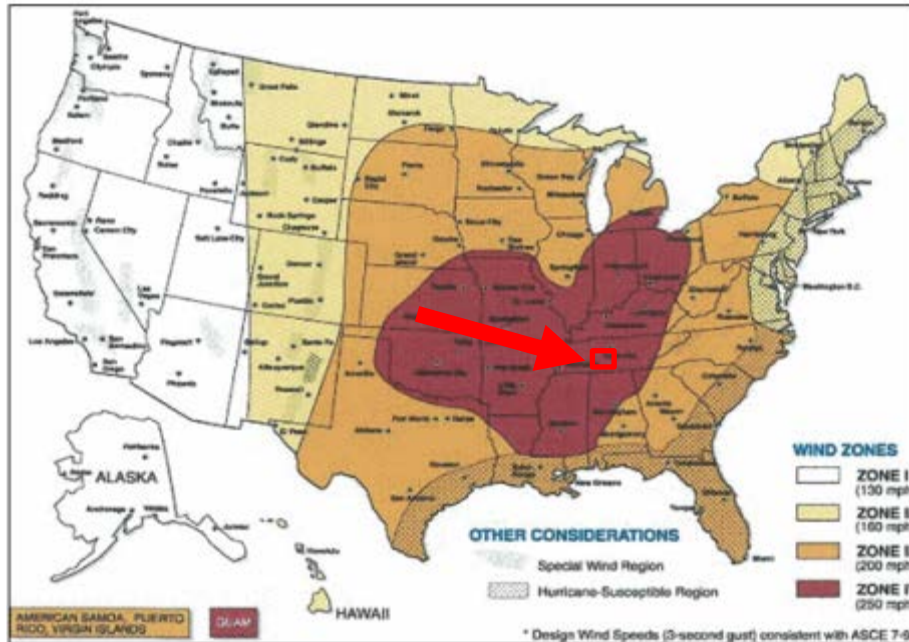


148

149 *Source: <http://www.spc.noaa.gov/wcm/20ysvra.png>*

150

Wind Zones in the United States



151

152

Source: FEMA

153

Based on NOAA NCDC data, the following charts provide a list of tornado events occurring in Williamson County from January 2011 to December 2016 and a description of each tornado's impacts within the county.

154

155

156

Tornado Events in Williamson County

157

January 1, 2011 – December 31, 2016

Location	Date	Time	T.Z.	Type
FRANKLIN	4/26/2012	18:00	CST-6	Tornado
BENDING CHESTNUT	1/30/2013	3:01	CST-6	Tornado
EWINGVILLE	1/30/2013	3:18	CST-6	Tornado
COLLEGE GROVE	1/30/2013	3:41	CST-6	Tornado
KINGFIELD	4/3/2015	16:22	CST-6	Tornado

158

159

Source: <http://www.ncdc.noaa.gov/>

160

161

Tornado Impacts in Williamson County

162

January 1, 2011 – December 31, 2016

Location	Date	Time	Type	Mag	Deaths	Injuries	Property Damage	CrD
FRANKLIN	4/26/2012	18:00	Tornado	EF0	0	6	75.00K	0.00K
BENDING CHESTNUT	1/30/2013	3:01	Tornado	EF0	0	0	60.00K	10.00K
EWINGVILLE	1/30/2013	3:18	Tornado	EF0	0	0	100.00K	10.00K
COLLEGE GROVE	1/30/2013	3:41	Tornado	EF0	0	0	80.00K	25.00K
KINGFIELD	4/3/2015	16:22	Tornado	EF0	0	0	20.00K	0.00K

163

164

Source: <http://www.ncdc.noaa.gov/>

165

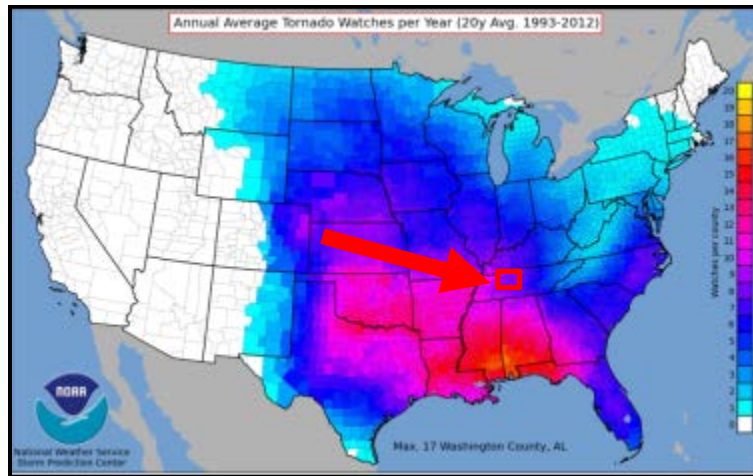
166

Based on historical records, Williamson County is at risk of tornado events several months each year.

167

168

Average Number of Tornadoes Per Year



169

170

Source: <http://www.spc.noaa.gov/wcm/20ytora.png>

171

The severity of tornadoes that may occur in the county is measured using the Enhanced Fujita Scale for tornadoes (see chart below). Based on historical events, in a worst-case scenario it is possible for the extent of a tornado to exceed an EF4 ranking. The EF4 tornado that impacted the Rebel Meadows area of Franklin to the Brenthaven area of Brentwood on December 24, 1988 is the largest tornado event ever recorded in Williamson County. The tornado traveled 6 miles with a path width of 150 yards. The destruction left \$50 million in damages and led to 1 death caused by a roof collapse.

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Fujita Scale/Enhanced Fujita Scale for Tornadoes

Fujita Scale/Enhanced Fujita Scale for Tornadoes				
F-Scale	Fastest Quarter Mile Wind Speed	Typical Impacts	Enhanced Scale: 3 Sec Wind Gust Speed	Enhanced F-Scale
F0	40-72 mph	Some damage to chimney; breaks branches off trees; pushes over shallow-rooted trees; damages sign boards.	65-85 mph	EF0
F1	73-112 mph	Peels surface off roofs; mobile homes pushed off foundations or overturned; moving autos pushed off the roads; attached garages may be destroyed.	86-110 mph	EF1
F2	113-157 mph	Considerable damage. Roofs torn off frame houses; mobile homes demolished; boxcars pushed over; large trees snapped or uprooted; light object missiles generated.	111-135 mph	EF2
F3	158-206 mph	Roof and some walls torn off well constructed houses; trains overturned; most trees in forest uprooted.	136-165 mph	EF3
F4	207-260 mph	Well-constructed houses leveled; structures with weak foundations blown off some distance; cars thrown and large missiles generated.	166-200 mph	EF4
F5	261-318 mph	Strong frame houses lifted off foundations and carried considerable distances to disintegrate; automobile sized missiles fly through the air in excess of 100 meters; trees debarked; steel reinforced concrete structures badly damaged.	Over 200 mph	EF5

183

184

Source: NOAA National Weather Service; [The Tornado Project](#)

185 Hail is the frozen form of precipitation, falling as small spheres of solid ice. Even though the risk
186 from hail is relatively low, all jurisdictions have the possibility of hail causing some window and
187 roof damage. Historically, hail events occur several times a year in Williamson County. The
188 severity of hail is measured by the diameter of the hail itself, commonly using the TORRO Hail
189 Index (see following chart). Williamson County's largest hail extent is reported at 1.75 inches
190 (H5). Most of the county's hail events reported causing minor roof damage to several homes
191 and vehicles.

192

TORRO Hail Index

TORRO Hail Index			
Scale	Max Diameter	Comparisons	Typical Impacts
H0	5-9mm	Pea	No damage.
H1	10-15mm	Mothball	Slight general damage to plants, crops.
H2	16-20mm	Marble	Significant damage to fruit, crops, vegetation.
H3	21-30mm	Walnut	Severe damage to fruit and crops, damage to glass and plastic structures, paint and wood scored.
H4	31-40mm	Pigeon's Egg	Widespread glass damage, vehicle bodywork damage.
H5	41-50mm	Golf Ball	Wholesale destruction of glass, damage to tiled roofs, significant risk of injuries.
H6	51-60mm	Hen's Egg	Bodywork of grounded aircraft dented, brick walls pitted.
H7	61-75mm	Tennis Ball	Severe roof damage, risk of serious injuries.
H8	76-90mm	Soft Ball	Severe damage to aircraft bodywork.
H9	91-100mm	Grapefruit	Extensive structural damage. Risk of severe or even fatal injuries to persons caught in the open.

193

194

Source: The Tornado & Storm Research Organization (<http://www.torro.org.uk/hscale.php>)

195 The following chart provides hail event information for Williamson County between January
196 2011 and December 2016.

197

Hail Events in Williamson County

198

January 1, 2011 – December 31, 2016

Location	Date	Time	T.Z.	Type	Mag
MALLORYS	4/15/2011	19:10	CST-6	Hail	1.00 in.
LAMPLEY STORE	3/14/2012	16:25	CST-6	Hail	1.00 in.
MUDSINK	3/14/2012	17:02	CST-6	Hail	1.50 in.
MALLORYS	3/14/2012	17:10	CST-6	Hail	0.88 in.
MALLORYS	3/14/2012	17:10	CST-6	Hail	1.25 in.
MUDSINK	3/14/2012	17:18	CST-6	Hail	1.00 in.
BOSTON	3/15/2012	13:10	CST-6	Hail	1.50 in.
KINGFIELD	3/15/2012	13:10	CST-6	Hail	1.75 in.
FAIRVIEW	3/15/2012	13:50	CST-6	Hail	1.00 in.
BERRYS CHAPEL	3/15/2012	15:35	CST-6	Hail	1.25 in.
PARRY	3/15/2012	15:58	CST-6	Hail	0.75 in.
MALLORYS	4/5/2012	14:09	CST-6	Hail	1.00 in.
MALLORYS	4/26/2012	17:59	CST-6	Hail	1.25 in.
FRANKLIN	4/26/2012	18:11	CST-6	Hail	1.00 in.
FRANKLIN	4/26/2012	18:11	CST-6	Hail	1.75 in.
BERRYS CHAPEL	5/6/2012	16:29	CST-6	Hail	0.75 in.
MALLORYS	5/6/2012	17:45	CST-6	Hail	1.00 in.
MALLORYS	5/6/2012	17:50	CST-6	Hail	1.00 in.
NOLENSVILLE	5/19/2012	17:45	CST-6	Hail	1.00 in.
THOMPSONS STATION	6/1/2013	15:15	CST-6	Hail	0.88 in.
MALLORYS	6/10/2013	13:37	CST-6	Hail	0.75 in.
TRIUNE	6/10/2013	13:55	CST-6	Hail	1.00 in.
THOMPSONS STATION	6/10/2013	14:05	CST-6	Hail	0.88 in.
REEDS STORE	6/10/2013	14:32	CST-6	Hail	0.88 in.
FRANKLIN	6/7/2014	17:10	CST-6	Hail	0.75 in.
DOUGLAS	10/6/2014	16:38	CST-6	Hail	1.00 in.
FRANKLIN	6/8/2015	15:24	CST-6	Hail	1.00 in.
FRANKLIN	6/8/2015	15:27	CST-6	Hail	1.25 in.
FOREST HOME	7/14/2015	13:18	CST-6	Hail	1.75 in.
BERRYS CHAPEL	7/14/2015	13:25	CST-6	Hail	1.75 in.
NEW HOPE	5/1/2016	16:15	CST-6	Hail	1.00 in.
TRINITY	6/3/2016	20:10	CST-6	Hail	0.88 in.
BERRYS CHAPEL	7/6/2016	15:56	CST-6	Hail	0.75 in.
LEIPERS FORK	7/6/2016	16:06	CST-6	Hail	0.75 in.

199

200

Source: <http://www.ncdc.noaa.gov/>

201

202 Severe storm winds most commonly occur as straight-line winds, a downburst of wind created
203 by an area of significantly rain-cooled air that spreads out in all directions after hitting the
204 ground. All jurisdictions are vulnerable to receiving damage from these severe storm winds.
205 Current data states severe storm wind events occur on average 22 times a year within the past
206 six years in Williamson County. The severity of severe storm winds is measured by wind speed
207 (knots or mph). The highest severe storm wind event in Williamson County between January
208 2011 and December 2016 was recorded in College Grove on January 30, 2013. This event had
209 wind speeds clocked at 70 knots and reports cite there were \$30,000 in property damage.
210 Further issues were seen as Middle Tennessee Electric dealt with 2,100 power outages in and
211 around the city of Franklin.

212 The following chart provides severe storm wind event information for Williamson County
213 between January 2011 and December 2016.

Wind Events in Williamson County

January 1, 2011 – December 31, 2016

Location	Date	Time	T.Z.	Type	Mag
WILLIAMSON (ZONE)	1/30/2013	2:26	CST-6	High Wind	55 kts. EG
WILLIAMSON (ZONE)	10/31/2013	12:00	CST-6	High Wind	52 kts. EG
WILLIAMSON (ZONE)	1/1/2011	0:30	CST-6	Strong Wind	43 kts. EG
WILLIAMSON (ZONE)	12/13/2015	22:15	CST-6	Strong Wind	39 kts. EG
FAIRVIEW	2/24/2011	21:30	CST-6	Thunderstorm Wind	55 kts. EG
MALLORYS	2/24/2011	21:55	CST-6	Thunderstorm Wind	55 kts. EG
MUDSINK	4/4/2011	13:10	CST-6	Thunderstorm Wind	55 kts. EG
BERRYS CHAPEL	4/4/2011	13:10	CST-6	Thunderstorm Wind	55 kts. EG
BERRYS CHAPEL	4/11/2011	16:15	CST-6	Thunderstorm Wind	55 kts. EG
MUDSINK	4/27/2011	4:05	CST-6	Thunderstorm Wind	55 kts. EG
DOUGLAS	7/21/2011	14:15	CST-6	Thunderstorm Wind	55 kts. EG
FAIRVIEW	1/23/2012	1:15	CST-6	Thunderstorm Wind	50 kts. EG
BERRYS CHAPEL	1/23/2012	1:30	CST-6	Thunderstorm Wind	50 kts. EG
FAIRVIEW	1/23/2012	2:02	CST-6	Thunderstorm Wind	50 kts. EG
HARPETH	1/26/2012	19:46	CST-6	Thunderstorm Wind	50 kts. EG
ASH HILL	3/15/2012	16:00	CST-6	Thunderstorm Wind	55 kts. EG
ASH HILL	3/15/2012	16:05	CST-6	Thunderstorm Wind	55 kts. EG
KIRKLAND	3/15/2012	16:05	CST-6	Thunderstorm Wind	55 kts. EG
TRINITY	7/5/2012	17:35	CST-6	Thunderstorm Wind	55 kts. EG
ARRINGTON	7/5/2012	18:45	CST-6	Thunderstorm Wind	55 kts. EG
BERRYS CHAPEL	7/6/2012	15:41	CST-6	Thunderstorm Wind	55 kts. EG
BERRYS CHAPEL	7/6/2012	15:45	CST-6	Thunderstorm Wind	55 kts. EG
BERRYS CHAPEL	7/6/2012	15:52	CST-6	Thunderstorm Wind	55 kts. EG
BERRYS CHAPEL	7/6/2012	16:02	CST-6	Thunderstorm Wind	55 kts. EG
LEIPERS FORK	7/6/2012	16:20	CST-6	Thunderstorm Wind	55 kts. EG
FAIRVIEW	7/8/2012	15:17	CST-6	Thunderstorm Wind	55 kts. EG
NEW HOPE	8/16/2012	21:30	CST-6	Thunderstorm Wind	48 kts. EG
EWINGVILLE	8/16/2012	21:36	CST-6	Thunderstorm Wind	52 kts. EG

Location	Date	Time	T.Z.	Type	Mag
WEST HARPETH	9/7/2012	23:43	CST-6	Thunderstorm Wind	55 kts. EG
FAIRVIEW	1/30/2013	3:05	CST-6	Thunderstorm Wind	55 kts. EG
EWINGVILLE	1/30/2013	3:15	CST-6	Thunderstorm Wind	61 kts. EG
FRANKLIN	1/30/2013	3:19	CST-6	Thunderstorm Wind	52 kts. EG
REEDS STORE	1/30/2013	3:34	CST-6	Thunderstorm Wind	70 kts. EG
FRANKLIN	5/21/2013	11:24	CST-6	Thunderstorm Wind	50 kts. EG
FOREST HOME	6/10/2013	13:25	CST-6	Thunderstorm Wind	52 kts. EG
BERRYS CHAPEL	6/10/2013	13:30	CST-6	Thunderstorm Wind	52 kts. EG
CLOVERCROFT	6/10/2013	13:42	CST-6	Thunderstorm Wind	56 kts. EG
TRIUNE	6/10/2013	14:00	CST-6	Thunderstorm Wind	52 kts. EG
THOMPSONS STATION	6/10/2013	14:05	CST-6	Thunderstorm Wind	56 kts. EG
HARPETH	6/10/2013	14:05	CST-6	Thunderstorm Wind	52 kts. EG
DUPLEX	6/10/2013	14:10	CST-6	Thunderstorm Wind	65 kts. EG
FOREST HOME	7/10/2013	18:05	CST-6	Thunderstorm Wind	50 kts. EG
MALLORYS	7/10/2013	18:15	CST-6	Thunderstorm Wind	50 kts. EG
MUDSINK	7/10/2013	18:20	CST-6	Thunderstorm Wind	60 kts. EG
MUDSINK	7/10/2013	18:20	CST-6	Thunderstorm Wind	60 kts. EG
MUDSINK	7/10/2013	18:25	CST-6	Thunderstorm Wind	60 kts. EG
MUDSINK	7/10/2013	18:25	CST-6	Thunderstorm Wind	60 kts. EG
MUDSINK	7/10/2013	18:25	CST-6	Thunderstorm Wind	60 kts. EG
MUDSINK	7/10/2013	18:25	CST-6	Thunderstorm Wind	60 kts. EG
MUDSINK	7/10/2013	18:25	CST-6	Thunderstorm Wind	60 kts. EG
BERRYS CHAPEL	7/10/2013	18:30	CST-6	Thunderstorm Wind	60 kts. EG
HARPETH	8/23/2013	16:12	CST-6	Thunderstorm Wind	52 kts. EG
FAIRVIEW	10/31/2013	21:00	CST-6	Thunderstorm Wind	57 kts. MC
NOLENSVILLE	10/31/2013	21:56	CST-6	Thunderstorm Wind	52 kts. EG
REEDS STORE	10/31/2013	22:15	CST-6	Thunderstorm Wind	52 kts. EG
FAIRVIEW	12/21/2013	21:02	CST-6	Thunderstorm Wind	52 kts. EG
FAIRVIEW	12/21/2013	21:03	CST-6	Thunderstorm Wind	52 kts. EG
MALLORYS	12/21/2013	21:30	CST-6	Thunderstorm Wind	56 kts. MC
EPWORTH	12/21/2013	21:40	CST-6	Thunderstorm Wind	52 kts. EG
FAIRVIEW	2/20/2014	19:33	CST-6	Thunderstorm Wind	52 kts. EG
BOSTON	2/20/2014	19:50	CST-6	Thunderstorm Wind	52 kts. EG
FRANKLIN	2/20/2014	20:00	CST-6	Thunderstorm Wind	52 kts. EG
EWINGVILLE	2/20/2014	20:00	CST-6	Thunderstorm Wind	56 kts. EG
MALLORYS	2/20/2014	20:05	CST-6	Thunderstorm Wind	56 kts. EG
NOLENSVILLE	2/20/2014	20:13	CST-6	Thunderstorm Wind	52 kts. EG
KIRKLAND	2/20/2014	20:14	CST-6	Thunderstorm Wind	52 kts. EG
COLLEGE GROVE	2/20/2014	20:15	CST-6	Thunderstorm Wind	52 kts. EG
MUDSINK	4/4/2014	4:53	CST-6	Thunderstorm Wind	52 kts. EG

Location	Date	Time	T.Z.	Type	Mag
PARRY	6/5/2014	0:30	CST-6	Thunderstorm Wind	61 kts. EG
HARPEETH	6/9/2014	21:00	CST-6	Thunderstorm Wind	52 kts. EG
EWINGVILLE	6/9/2014	21:08	CST-6	Thunderstorm Wind	52 kts. EG
FAIRVIEW	6/21/2014	13:45	CST-6	Thunderstorm Wind	52 kts. EG
BINGHAM	6/21/2014	13:48	CST-6	Thunderstorm Wind	52 kts. EG
MALLORYS	7/14/2014	15:51	CST-6	Thunderstorm Wind	50 kts. EG
MALLORYS	7/14/2014	16:00	CST-6	Thunderstorm Wind	50 kts. EG
TRINITY	7/14/2014	16:02	CST-6	Thunderstorm Wind	50 kts. EG
FAIRVIEW	8/7/2014	18:00	CST-6	Thunderstorm Wind	52 kts. EG
REEDS STORE	8/23/2014	16:28	CST-6	Thunderstorm Wind	52 kts. EG
BOSTON	10/13/2014	17:05	CST-6	Thunderstorm Wind	52 kts. EG
CALLE	10/13/2014	19:55	CST-6	Thunderstorm Wind	52 kts. EG
DOUGLAS	10/13/2014	19:57	CST-6	Thunderstorm Wind	48 kts. EG
EWINGVILLE	10/13/2014	20:00	CST-6	Thunderstorm Wind	48 kts. EG
LIBERTY HILL	4/2/2015	15:10	CST-6	Thunderstorm Wind	52 kts. EG
LAMPLEY STORE	4/3/2015	16:15	CST-6	Thunderstorm Wind	52 kts. EG
MUDSINK	4/20/2015	0:10	CST-6	Thunderstorm Wind	52 kts. EG
LEIPERS FORK	6/8/2015	15:15	CST-6	Thunderstorm Wind	52 kts. EG
TRIUNE	6/8/2015	15:48	CST-6	Thunderstorm Wind	52 kts. EG
MALLORYS	7/14/2015	13:51	CST-6	Thunderstorm Wind	52 kts. EG
MUDSINK	7/28/2015	15:25	CST-6	Thunderstorm Wind	52 kts. EG
NOLENSVILLE	7/28/2015	15:30	CST-6	Thunderstorm Wind	52 kts. EG
FRANKLIN	7/28/2015	15:35	CST-6	Thunderstorm Wind	52 kts. EG
MALLORYS	8/19/2015	14:07	CST-6	Thunderstorm Wind	48 kts. EG
FAIRVIEW	4/6/2016	15:37	CST-6	Thunderstorm Wind	52 kts. EG
FOREST HOME	4/6/2016	16:00	CST-6	Thunderstorm Wind	56 kts. EG
BERRYS CHAPEL	6/1/2016	16:40	CST-6	Thunderstorm Wind	52 kts. EG
ARRINGTON	6/3/2016	20:05	CST-6	Thunderstorm Wind	52 kts. EG
MALLORYS	6/15/2016	15:19	CST-6	Thunderstorm Wind	52 kts. EG
FRANKLIN	6/15/2016	15:21	CST-6	Thunderstorm Wind	50 kts. EG
NOLENSVILLE	6/28/2016	16:40	CST-6	Thunderstorm Wind	48 kts. EG
CRAIGFIELD	7/6/2016	15:13	CST-6	Thunderstorm Wind	48 kts. EG
LEIPERS FORK	7/6/2016	16:00	CST-6	Thunderstorm Wind	50 kts. EG
BETHESDA	7/6/2016	16:00	CST-6	Thunderstorm Wind	48 kts. EG
EWINGVILLE	7/7/2016	5:30	CST-6	Thunderstorm Wind	50 kts. EG
NEW HOPE	7/7/2016	6:05	CST-6	Thunderstorm Wind	48 kts. EG
NEW HOPE	7/8/2016	19:33	CST-6	Thunderstorm Wind	48 kts. EG
FOREST HOME	7/8/2016	19:45	CST-6	Thunderstorm Wind	50 kts. EG
FAIRVIEW	7/8/2016	19:49	CST-6	Thunderstorm Wind	50 kts. EG
FAIRVIEW	7/8/2016	19:52	CST-6	Thunderstorm Wind	56 kts. MG

Location	Date	Time	T.Z.	Type	Mag
BERRYS CHAPEL	7/8/2016	19:58	CST-6	Thunderstorm Wind	52 kts. EG
MALLORYS	7/8/2016	20:01	CST-6	Thunderstorm Wind	50 kts. EG
EWINGVILLE	7/8/2016	20:02	CST-6	Thunderstorm Wind	60 kts. EG
MALLORYS	7/8/2016	20:04	CST-6	Thunderstorm Wind	52 kts. EG
MALLORYS	7/8/2016	20:05	CST-6	Thunderstorm Wind	50 kts. EG
MALLORYS	7/8/2016	20:05	CST-6	Thunderstorm Wind	50 kts. EG
NOLENSVILLE	7/8/2016	20:06	CST-6	Thunderstorm Wind	50 kts. EG
CALLE	7/8/2016	20:10	CST-6	Thunderstorm Wind	50 kts. EG
PEYTONSVILLE	7/8/2016	20:15	CST-6	Thunderstorm Wind	50 kts. EG
MALLORYS	7/19/2016	12:54	CST-6	Thunderstorm Wind	56 kts. EG
WEST HARPETH	8/5/2016	13:30	CST-6	Thunderstorm Wind	55 kts. EG
LITTLE TEXAS	8/20/2016	14:53	CST-6	Thunderstorm Wind	48 kts. EG
FAIRVIEW	9/10/2016	15:26	CST-6	Thunderstorm Wind	52 kts. EG
FOREST HOME	9/10/2016	15:35	CST-6	Thunderstorm Wind	52 kts. EG
LEIPERS FORK	9/10/2016	15:35	CST-6	Thunderstorm Wind	48 kts. EG
FOREST HOME	9/10/2016	15:36	CST-6	Thunderstorm Wind	52 kts. EG
BERRYS CHAPEL	9/10/2016	15:40	CST-6	Thunderstorm Wind	48 kts. EG
BERRYS CHAPEL	9/10/2016	15:40	CST-6	Thunderstorm Wind	52 kts. EG
BERRYS CHAPEL	9/10/2016	15:42	CST-6	Thunderstorm Wind	52 kts. EG
FRANKLIN	9/10/2016	15:43	CST-6	Thunderstorm Wind	48 kts. EG
BERRYS CHAPEL	9/10/2016	15:43	CST-6	Thunderstorm Wind	48 kts. EG
MALLORYS	9/10/2016	15:45	CST-6	Thunderstorm Wind	48 kts. EG
EWINGVILLE	9/10/2016	15:47	CST-6	Thunderstorm Wind	52 kts. EG
CROSS KEYS	9/10/2016	16:05	CST-6	Thunderstorm Wind	48 kts. EG
MALLORYS	12/17/2016	23:25	CST-6	Thunderstorm Wind	43 kts. EG

219

220

221

Source: <http://www.ncdc.noaa.gov/>

222

Throughout the county all buildings and infrastructure are vulnerable to tornadoes and severe storm impacts, including lightning. Impacts could range from slight roof damages caused by hail to total structure flattening caused by strong tornadoes. In the county, manufactured homes, electrical lines, and older barns are some of the most vulnerable features.

226

On January 30, 2015, Middle Tennessee experienced the largest outbreak of tornadic activity in its history. In Williamson County during this outbreak, an EF0 tornado touched down near the intersection of Pinewood Road and Walker Hill Road in southwestern Williamson County where approximately 30 trees were snapped or uprooted and one outbuilding lost part of its roof. The path continued across Highway 840 into an inaccessible portion of Williamson County north of Highway 46. The tornado was reported to be 2.3 miles long and 75 yards wide.

232

Williamson County uses a simple system known as a [Vulnerability Calculator](#) to determine each jurisdiction's vulnerability to hazard events. The Vulnerability Calculator applies simple

233

234 arithmetic to analyze probability and potential impacts of events to calculate a risk ranking for
 235 each jurisdiction for each hazard.

236 **Source:** Calculation of Planning Committee Input using the [Vulnerability Calculator](#).

237

Event: Tornado	Human 1-5	Property 1-5	Business 1-5	Average	Probability 1-5	Risk Score = [(H+P+B)/3] + P	44.33
City of Franklin	4	5	3	4.00	5	9	
City of Brentwood	5	5	2	4.00	3	7	
Williamson County	4	4	2	3.33	3	6	
City of Spring Hill	4	4	2	3.33	3	6	
City of Fairview	3	3	1	2.33	3	5	
City of Nolensville	4	3	2	3.00	2	5	
Town of Thompson Station	4	4	2	3.33	2	5	

238

Event: Wind Event	Human 1-5	Property 1-5	Business 1-5	Average	Probability 1-5	Risk Score = [(H+P+B)/3] + P	50
City of Brentwood	4	4	1	3.00	5	8	
City of Franklin	2	4	2	2.67	5	8	
City of Nolensville	3	3	2	2.67	5	8	
City of Spring Hill	4	3	2	3.00	4	7	
Town of Thompson Station	2	3	2	2.33	5	7	
Williamson County	3	3	2	2.67	4	7	
City of Fairview	3	3	2	2.67	3	6	

239

Human		Scale
<i>Risk of injuries and deaths from the hazard</i>		Low 2-3.6
1	Death very unlikely, injuries are unlikely	Moderate 3.7-5.2
2	Death unlikely, injuries are minimal	Medium 5.3-6.8
3	Death unlikely, injuries may be substantial	High 6.9-8.4
4	Death possible, injuries may be substantial	Severe 8.5-10
5	Deaths probable, injuries will likely be substantial	
Property		
<i>Amount of residential property damage associated from the hazard</i>		
1	Less than \$500 in damages	
2	\$500-\$10,000 in damages	
3	\$10,000-\$500,000 in damages	
4	\$500,000-\$2,000,000 in damages	
5	More than \$2,000,000 in damages	
Business		
<i>Amount of business damage associated from the hazard</i>		
1	Less than 3 businesses closed for only a day	
2	More than 3 businesses closed for a week	
3	More than 3 businesses closed for a few months	
4	More than 3 businesses closed indefinitely or relocated	
5	A top-10 local employer closed indefinitely	
Probability		
<i>Likelihood of the hazard occurring within a given span of years</i>		
1	Less than once every 10 years	
2	About once every 5-10 years	
3	About once every 2-5 years	
4	About once a year	
5	More than once a year	

240

241 Lightning occurs in all thunderstorms and poses a serious threat to human life and property. All
242 lightning originates around 15,000 to 20,000 feet above sea level when raindrops are carried
243 upward until some will convert to ice. A cloud-to-ground lightning flash originates in this mixed
244 water/ice region. The charge then moves downward in 50 yard sections call step leaders. It
245 keeps moving toward the ground in these steps and produces a channel along which charge is
246 deposited. Eventually, it encounters something on the ground that is a good connection. At this
247 point the circuit is complete and the charge is lowered from the cloud to the ground. Most
248 cloud-to-ground lightning strikes come from the negatively charged bottom of the cloud
249 traveling to the positively charged ground below. Cloud-to-ground lightning bolts strike tall
250 objects, like trees and buildings. These lightning strikes can cause fire and property damage.

251 The return strike is a flow of charge (current), which produces luminosity much brighter than the
252 part that comes down. This entire event usually takes less than a half a second. According to the
253 NOAA, over the last 20 years, the United States averaged 51 annual lightning strike fatalities.

254

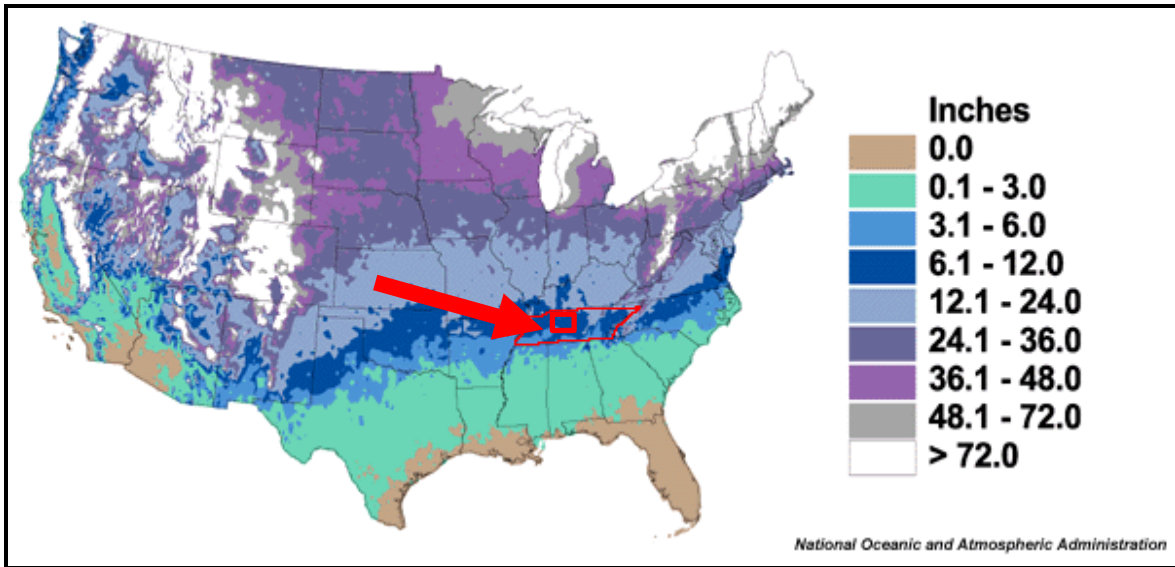
255 **Freezes/Winter Storms**

256 A freeze occurs when temperatures are below 32 degrees Fahrenheit for a period of time.
257 These temperatures can damage agricultural crops, burst water pipes, and create layers of
258 "black ice." Winter storms are events that can range from a few hours of moderate snow to
259 blizzard-like circumstances that can affect driving conditions and impact communications,
260 electricity, and other services. In Williamson County, all jurisdictions are vulnerable to freezes
261 and moderate winter storms, but not to the severity level seen in much of the northern U.S.

262 Based on previous occurrences, Williamson County usually experiences five major winter storm
263 events per year, according to the data received between January 1, 2011 and December 31,
264 2016. The severity of winter storms is commonly measured by inches of snowfall. In February
265 2016, a two-day snow event occurred which ranged from 1-inch in the Town of Nolensville and
266 3-inches of snowfall in the City of Franklin.

267

Average Mean Snowfall per Year



268

269

Source: NOAA

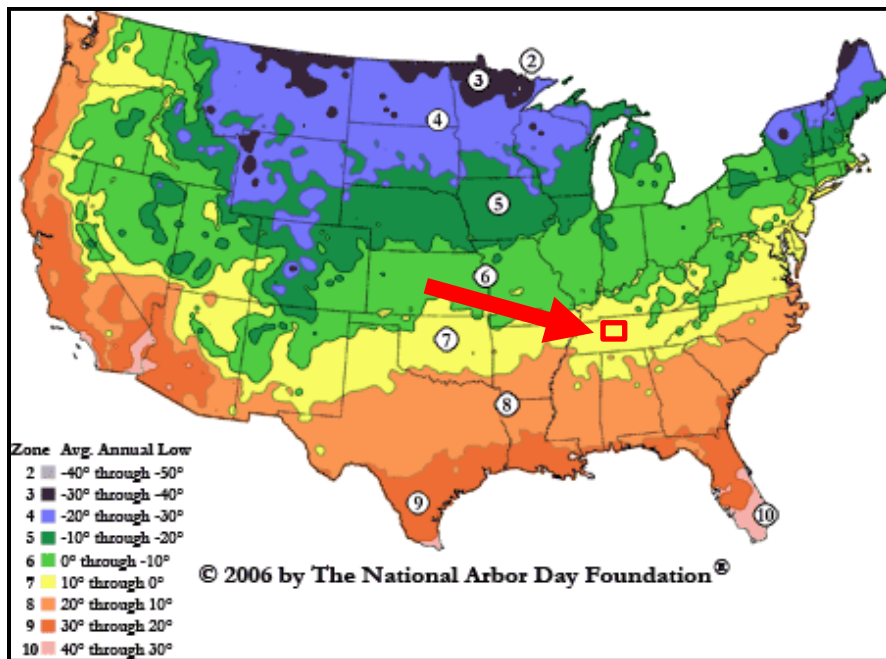
270

Williamson County can experience temperatures between 12 to 6 degrees Fahrenheit, thus causing multiple freeze conditions during the winter months (see the following map for other average lows).

272

273

Average Annual Low Temperatures



274

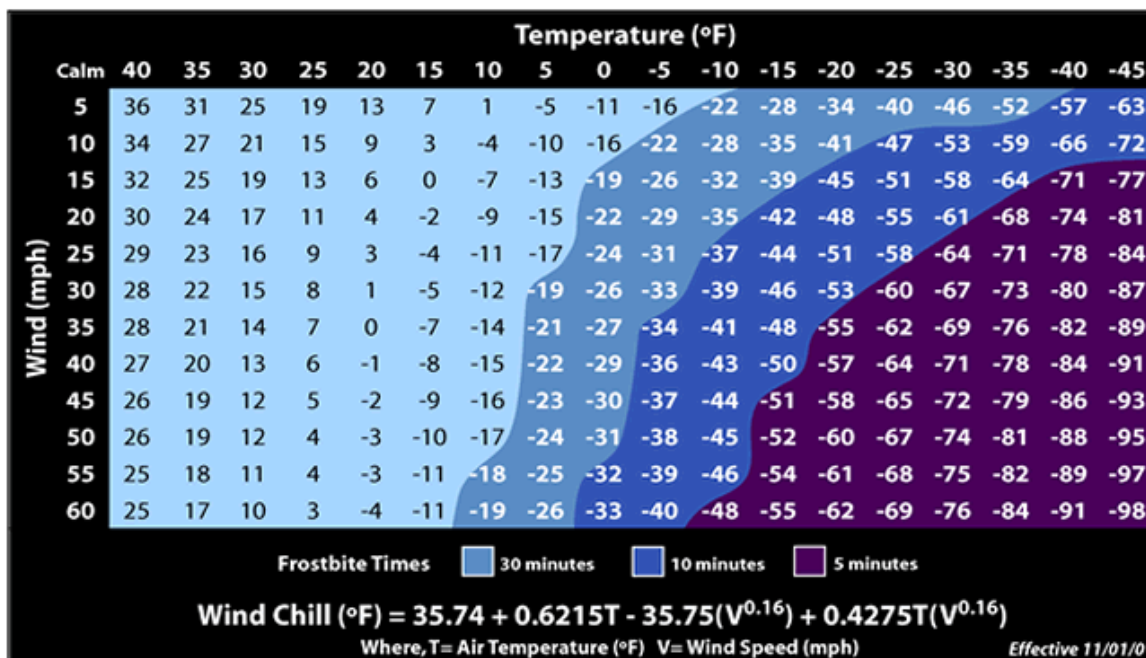
275

Source: NOAA

276 Throughout the county many buildings and the majority of infrastructure networks can be
 277 vulnerable to winter storm impacts. Many of these structures would not receive direct impacts
 278 from winter storms but they could receive indirect impacts such as downed electrical lines that cut
 279 off electricity to the structures, frozen pipelines that crack, destroyed agriculture crops and
 280 customers not being able to access travels to the structures due to ice covered roads. In the
 281 county, road traveling conditions, electrical lines and agricultural functions are some of the most
 282 vulnerable features.

283 In a freeze or winter storm, exposure to extreme cold can cause frostbite or hypothermia, which
 284 can become life threatening. However, what constitutes extreme cold varies in different parts of
 285 the country. In the South, near freezing temperatures are considered extreme cold. These
 286 temperatures can cause severe damage to certain crops and other vegetation. Pipes may freeze
 287 or burst in homes with poor insulation, causing severe home damage. Wind chill is also a factor
 288 of extreme cold. Wind chill is how the combined wind and cold feel on a person's exposed skin.
 289 As the wind increases, body heat is carried away and essentially lowers body temperature.
 290 Animals are also affected by this aspect of extreme cold, which could put livestock in danger.


Wind Chill Chart

291

292 *Source: National Weather Service*

293 In February 2015 winter storm Octavia left thousands without power for several days in
 294 Tennessee as well as other surrounding states. During winter storm Octavia temperatures
 295 dropped below 20 degrees, which ultimately made the salt used to de-ice roads ineffective. The
 296 devastation of this one storm garnered national news and coverage. The storm contributed to

297 two deaths in the City of Franklin, as a motorist and her son were struck by a tractor-trailer
 298 while they exited their vehicle to aid other stranded motorists on snowy roads.

299 The following chart provides winter storm event information for Williamson County between
 300 January 1, 2011 to December 31, 2016.

301 **Winter Events in Williamson County**
 302 **January 1, 2011 – December 31, 2016**

Location	Date	Time	T.Z.	Type	Deaths	Injuries	Property Damage
WILLIAMSON (ZONE)	1/15/2013	17:00	CST-6	Ice Storm	0	0	0.00K
WILLIAMSON (ZONE)	3/2/2014	19:00	CST-6	Winter Storm	0	0	0.00K
WILLIAMSON (ZONE)	2/16/2015	0:00	CST-6	Winter Storm	0	0	100.00K
WILLIAMSON (ZONE)	3/4/2015	15:00	CST-6	Winter Storm	0	0	0.00K
WILLIAMSON (ZONE)	1/21/2016	21:00	CST-6	Winter Storm	0	0	0.00K
WILLIAMSON (ZONE)	1/20/2011	15:30	CST-6	Winter Weather	0	0	0.00K
WILLIAMSON (ZONE)	2/7/2011	10:00	CST-6	Winter Weather	0	0	0.00K
WILLIAMSON (ZONE)	2/9/2011	15:00	CST-6	Winter Weather	0	0	0.00K
WILLIAMSON (ZONE)	1/12/2012	15:00	CST-6	Winter Weather	0	0	0.00K
WILLIAMSON (ZONE)	2/19/2012	8:00	CST-6	Winter Weather	0	0	0.00K
WILLIAMSON (ZONE)	12/29/2012	12:00	CST-6	Winter Weather	0	0	0.00K
WILLIAMSON (ZONE)	1/14/2013	15:36	CST-6	Winter Weather	0	0	2.00K
WILLIAMSON (ZONE)	1/14/2013	18:56	CST-6	Winter Weather	0	0	3.00K
WILLIAMSON (ZONE)	1/14/2013	18:58	CST-6	Winter Weather	0	0	30.00K
WILLIAMSON (ZONE)	1/15/2013	19:00	CST-6	Winter Weather	0	0	4.00K
WILLIAMSON (ZONE)	1/31/2013	21:30	CST-6	Winter Weather	0	0	0.00K
WILLIAMSON (ZONE)	1/31/2013	21:30	CST-6	Winter Weather	0	0	0.00K
WILLIAMSON (ZONE)	2/2/2013	4:00	CST-6	Winter Weather	0	0	0.00K
WILLIAMSON (ZONE)	3/1/2013	18:00	CST-6	Winter Weather	0	0	0.00K
WILLIAMSON (ZONE)	3/25/2013	8:00	CST-6	Winter Weather	0	0	0.00K
WILLIAMSON (ZONE)	12/7/2013	21:00	CST-6	Winter Weather	0	0	0.00K
WILLIAMSON (ZONE)	12/9/2013	21:00	CST-6	Winter Weather	0	0	0.00K
WILLIAMSON (ZONE)	1/5/2014	19:00	CST-6	Winter Weather	0	0	0.00K
WILLIAMSON (ZONE)	2/12/2014	6:00	CST-6	Winter Weather	0	0	0.00K
WILLIAMSON (ZONE)	1/23/2015	18:00	CST-6	Winter Weather	0	0	0.00K
WILLIAMSON (ZONE)	2/18/2015	1:00	CST-6	Winter Weather	0	0	0.00K
WILLIAMSON (ZONE)	2/20/2015	12:00	CST-6	Winter Weather	0	0	0.00K
WILLIAMSON (ZONE)	2/25/2015	12:00	CST-6	Winter Weather	0	0	0.00K
WILLIAMSON (ZONE)	1/20/2016	0:00	CST-6	Winter Weather	0	0	0.00K
WILLIAMSON (ZONE)	2/8/2016	12:00	CST-6	Winter Weather	0	0	0.00K
WILLIAMSON (ZONE)	12/18/2016	6:07	CST-6	Winter Weather	0	0	0.00K

303

304

Source: <http://www.ncdc.noaa.gov/>

305 Williamson County uses a simple system known as a [Vulnerability Calculator](#) to determine each
 306 jurisdiction's vulnerability to hazard events. The Vulnerability Calculator applies simple
 307 arithmetic to analyze probability and potential impacts of events to calculate a risk ranking for
 308 each jurisdiction for each hazard.

309 **Source:** Calculation of Planning Committee Input using the [Vulnerability Calculator](#)

Event: Winter Weather	Human 1-5	Property 1-5	Business 1-5	Average	Probability 1-5	Risk Score = [(H+P+B)/3] + P	34.67
City of Franklin	4	3	2	3.00	4	7	
Williamson County	2	3	1	2.00	4	6	
City of Spring Hill	2	2	2	2.00	3	5	
City of Brentwood	2	3	1	2.00	3	5	
City of Fairview	2	2	1	1.67	3	5	
Town of Thompson Station	2	2	1	1.67	3	5	
City of Nolensville	1	2	1	1.33	1	2	

310

Human		Scale	
<i>Risk of injuries and deaths from the hazard</i>		Low	2-3.6
1	Death very unlikely, injuries are unlikely	Moderate	3.7-5.2
2	Death unlikely, injuries are minimal	Medium	5.3-6.8
3	Death unlikely, injuries may be substantial	High	6.9-8.4
4	Death possible, injuries may be substantial	Severe	8.5-10
5	Deaths probable, injuries will likely be substantial		

Property	
<i>Amount of residential property damage associated from the hazard</i>	
1	Less than \$500 in damages
2	\$500-\$10,000 in damages
3	\$10,000-\$500,000 in damages
4	\$500,000-\$2,000,000 in damages
5	More than \$2,000,000 in damages

Business	
<i>Amount of business damage associated from the hazard</i>	
1	Less than 3 businesses closed for only a day
2	More than 3 businesses closed for a week
3	More than 3 businesses closed for a few months
4	More than 3 businesses closed indefinitely or relocated
5	A top-10 local employer closed indefinitely

Probability	
<i>Likelihood of the hazard occurring within a given span of years</i>	
1	Less than once every 10 years
2	About once every 5-10 years
3	About once every 2-5 years
4	About once a year
5	More than once a year

311

312 **Extreme Heat and Drought**

313 A significant portion of Middle Tennessee suffers from events of extreme heat and drought.
314 Williamson County is strongly agricultural and highly populated. If an incident of extreme heat
315 and/or drought were to occur, economic and life safety issues may occur.

316 Extreme summer weather is characterized by a combination of very high temperatures and
317 exceptionally humid conditions. While not as dramatic as other kinds of severe weather,
318 extreme heat can be a life threatening condition. Because extreme summer heat can affect large
319 numbers of people as well as wide geographical areas, special assistance in responding to the
320 more destructive elements associated with extreme summer weather may be necessary. Heat
321 waves occur when an area of high atmospheric pressure stalls over a region, slowly spiraling
322 down and outward for thousands of miles from a radiant, cloudless sky.

323 Prolonged periods of heat challenge the county's infrastructure, residents, commuters and
324 visitors. Higher temperatures lead to increased energy and water usage. In Williamson County,
325 electrical demand soars during periods of "peak usage", between 10 a.m. and 2 p.m. in
326 commercial areas and between 7 p.m. and 11 p.m. in residential areas. Increased demand
327 strains the county's electrical distribution systems and may result in power disruptions that can
328 last a few hours, days or weeks. The elderly, people with medical problems or those who are
329 taking certain medications are particularly at risk because they may not be able to adequately
330 keep cool using air conditioners or fans. In addition to increased electrical demand, extreme
331 heat can result in lower water pressure due to illegal operation of fire hydrants, increased
332 demand for water or pump failure due to loss of electricity. This situation can hamper the
333 county's fire and rescue suppression capabilities.

334 Droughts do not occur spontaneously. They evolve due to lower-than-normal precipitation
335 levels. Urban droughts generally affect areas dependent on reservoirs for water. Droughts
336 usually lead to restrictions on non-essential water use, such as lawn watering and car washing.
337 Because no two droughts have the same characteristics, no single probability profile can be
338 identified in advance that would generally apply to the declaration of a drought emergency.

339 During drought, the potential for wildfires can increase. This is due to the dry conditions making
340 trees, grass and brush easier to burn. A wildfire is an unplanned, unwanted fire burning in a
341 natural area, such as a forest, grassland or prairie. As building development expands into these
342 areas, homes and business may be situated in or near areas susceptible to wildfires. This is
343 called the wildland urban interface. Wildfires can damage natural resources, destroy homes and
344 threaten the safety of the public and the firefighters who protect forests and communities.
345 Whereas a majority of wildfires are caused by humans, some can begin by natural causes, such
346 as lightning. They can start in remote wilderness areas, in national parks, or even in residential
347 back yards.

348

349 Drought is being added to this plan revision to document changes in conditions statewide that
350 could potentially result in hazards requiring mitigation. Extended periods of drought contributed
351 to wildfires in East Tennessee on November 28, 2016, resulting in 14 fatalities and damage to
352 more than 2,400 structures in Sevier County.

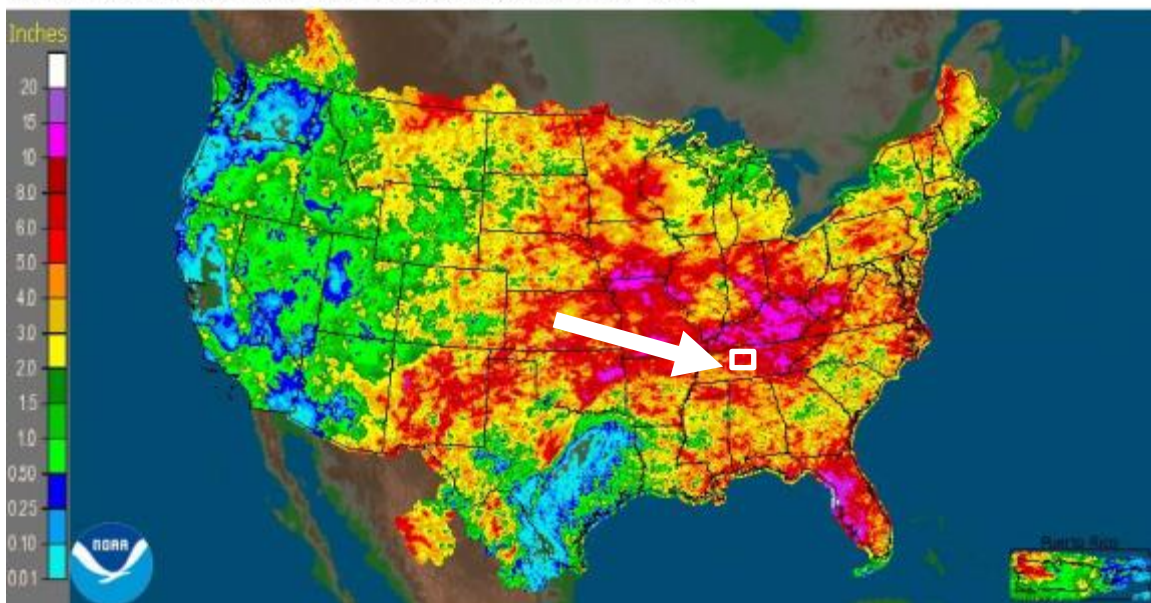
353 Although historical data in Williamson County is limited, drought is being added to this plan
354 revision since the rural nature of the county creates an economic dependence related to this
355 hazard.

356 A drought is a period of unusually constant dry weather that persists long enough to cause
357 deficiencies in water supply (surface or underground). Droughts are slow-onset hazards, but,
358 over time, they can severely affect crops, municipal water supplies, recreational resources and
359 wildlife.

360 If drought conditions extend over a number of years, the direct and indirect economic impacts
361 can be significant. High temperatures, high winds and low humidity can worsen drought
362 conditions and also make areas more susceptible to wildfire. In addition, human actions and
363 demands for water resources can accelerate drought-related impacts.

364

CONUS + Puerto Rico: Current Month to Date Observed Precipitation
Valid at 7/31/2015 1200 UTC- Created 7/31/15 18:27 UTC



Source: NOAA

365
366
367
368
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370

The following chart provides drought event information for Williamson County between January 1, 2011 – December 31 2016.

371

Drought Events in Williamson County

372

January 1, 2011 – December 31, 2016

373

Location	Date	Time	T.Z.	Type	Mag	Deaths	Injuries	Property Damage	CrD
WILLIAMSON (ZONE)	7/3/2012	0:00	CST-6	Drought		0	0	0.00K	0.00K
WILLIAMSON (ZONE)	11/1/2016	0:00	CST-6	Drought		0	0	0.00K	0.00K
WILLIAMSON (ZONE)	12/1/2016	0:00	CST-6	Drought		0	0	0.00K	0.00K

374

Source: <http://www.ncdc.noaa.gov/>

375

Williamson County uses a simple system known as a [Vulnerability Calculator](#) to determine each jurisdiction’s vulnerability to hazard events. The Vulnerability Calculator applies simple arithmetic to analyze probability and potential impacts of events to calculate a risk ranking for each jurisdiction for each hazard.

376

377

Source: Calculation of Planning Committee Input using the [Vulnerability Calculator](#)

378

Event: Drought	Human 1-5	Property 1-5	Business 1-5	Average	Probability 1-5	Risk Score = [(H+P+B)/3] + P	23.67
City of Franklin	1	2	1	1.33	3	4	
City of Brentwood	1	3	1	1.67	2	4	
Williamson County	1	2	1	1.33	2	3	
City of Fairview	1	1	2	1.33	2	3	
City of Nolensville	1	1	1	1.00	2	3	
City of Spring Hill	1	1	1	1.00	2	3	
Town of Thompson Station	1	1	1	1.00	2	3	

380

Human	
<i>Risk of injuries and deaths from the hazard</i>	
1	Death very unlikely, injuries are unlikely
2	Death unlikely, injuries are minimal
3	Death unlikely, injuries may be substantial
4	Death possible, injuries may be substantial
5	Deaths probable, injuries will likely be substantial

Scale	
Low	2-3.6
Moderate	3.7-5.2
Medium	5.3-6.8
High	6.9-8.4
Severe	8.5-10

Property	
<i>Amount of residential property damage associated from the hazard</i>	
1	Less than \$500 in damages
2	\$500-\$10,000 in damages
3	\$10,000-\$500,000 in damages
4	\$500,000-\$2,000,000 in damages
5	More than \$2,000,000 in damages

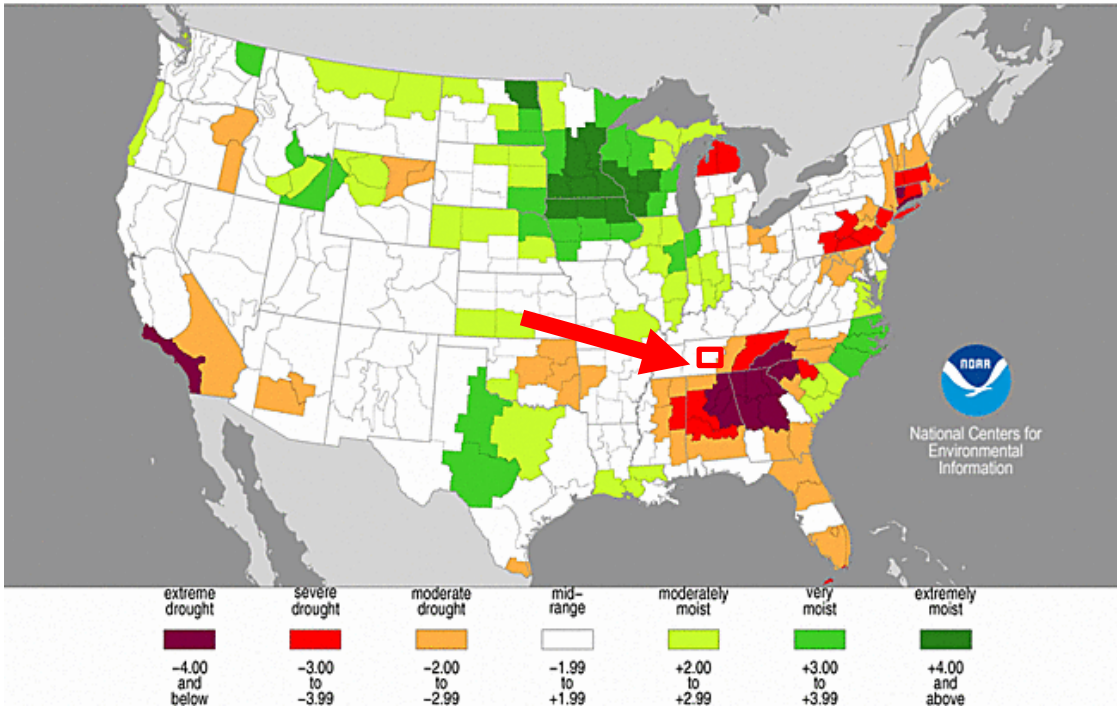
Business	
<i>Amount of business damage associated from the hazard</i>	
1	Less than 3 businesses closed for only a day
2	More than 3 businesses closed for a week
3	More than 3 businesses closed for a few months
4	More than 3 businesses closed indefinitely or relocated
5	A top-10 local employer closed indefinitely

Probability	
<i>Likelihood of the hazard occurring within a given span of years</i>	
1	Less than once every 10 years
2	About once every 5-10 years
3	About once every 2-5 years
4	About once a year
5	More than once a year

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382

Palmer Drought Severity Index
December, 2016



383

384

Source: National Centers for Environmental Information – Historical Palmer Drought Indices

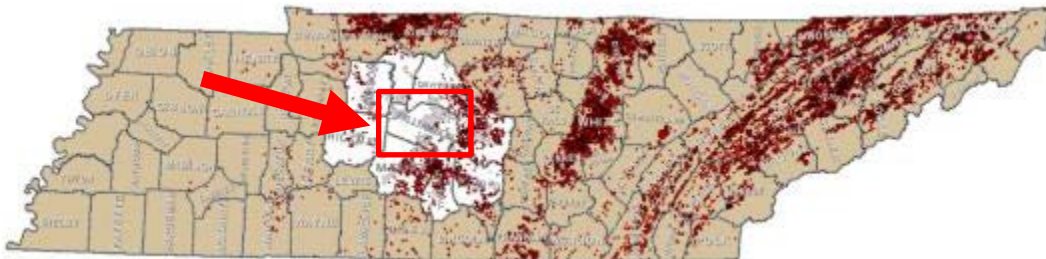
385 **Geologic**

386 A sinkhole is a hole in the ground that forms when water dissolves surface rock. Often, this
387 surface rock is limestone, which is easily eroded, or worn away, by the movement of water.

388 In a landscape where limestone sits underneath the soil, water from rainfall collects in cracks in
389 the stone. These cracks are called joints. Slowly, as the limestone dissolves and is carried away,
390 the joints widen until the ground above them becomes unstable and collapses. The collapse
391 often happens suddenly and without warning.

392

Tennessee Sinkholes

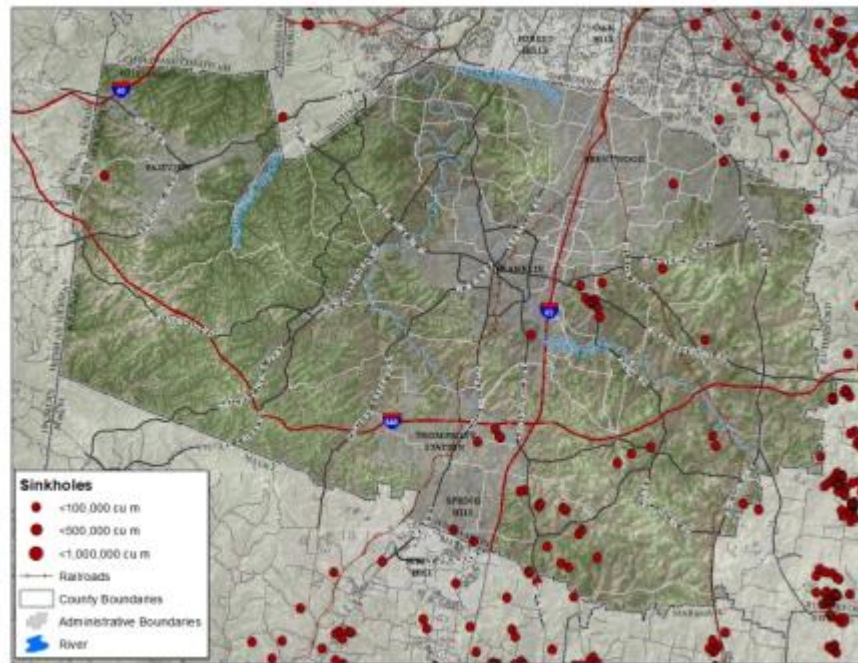


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394

Source: Williamson County Emergency Management GIS Department

Tennessee Sinkholes



396

397

Source: Williamson County Emergency Management GIS Department

398

Sinkholes also form when the roofs of caves collapse. Sinkholes are often funnel-shaped with the wide end open at the surface and the narrow end at the bottom of the pool. They vary from shallow holes about 3 feet deep to pits more than 165 feet deep. Sinkholes can occur naturally, especially where there is abundant rainfall.

399

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402

Williamson County uses a simple system known as a [Vulnerability Calculator](#) to determine each jurisdiction’s vulnerability to hazard events. The Vulnerability Calculator applies simple arithmetic to analyze probability and potential impacts of events to calculate a risk ranking for each jurisdiction for each hazard.

403

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405

406

Source: Calculation of Planning Committee Input using the [Vulnerability Calculator](#)

Event: Geologic	Human 1-5	Property 1-5	Business 1-5	Average	Probability 1-5	Risk Score = [(H+P+B)/3] + P	21
City of Franklin	4	4	3	3.67	1	5	
City of Brentwood	1	4	1	2.00	1	3	
City of Fairview	2	3	1	2.00	1	3	
City of Nolensville	2	3	1	2.00	1	3	
City of Spring Hill	1	3	1	1.67	1	3	
Town of Thompson Station	1	3	1	1.67	1	3	
Williamson County	1	1	1	1.00	1	2	

407

Human	
<i>Risk of injuries and deaths from the hazard</i>	
1	Death very unlikely, injuries are unlikely
2	Death unlikely, injuries are minimal
3	Death unlikely, injuries may be substantial
4	Death possible, injuries may be substantial
5	Deaths probable, injuries will likely be substantial

Scale	
Low	2-3.6
Moderate	3.7-5.2
Medium	5.3-6.8
High	6.9-8.4
Severe	8.5-10

Property	
<i>Amount of residential property damage associated from the hazard</i>	
1	Less than \$500 in damages
2	\$500-\$10,000 in damages
3	\$10,000-\$500,000 in damages
4	\$500,000-\$2,000,000 in damages
5	More than \$2,000,000 in damages

Business	
<i>Amount of business damage associated from the hazard</i>	
1	Less than 3 businesses closed for only a day
2	More than 3 businesses closed for a week
3	More than 3 businesses closed for a few months
4	More than 3 businesses closed indefinitely or relocated
5	A top-10 local employer closed indefinitely

Probability	
<i>Likelihood of the hazard occurring within a given span of years</i>	
1	Less than once every 10 years
2	About once every 5-10 years
3	About once every 2-5 years
4	About once a year
5	More than once a year

408

409 **Earthquakes**

410 Williamson County is in close proximity to the major intraplate (within a tectonic plate) seismic
 411 zone known as the New Madrid Seismic Zone (NMSZ). The NMSZ is an approximately 120-mile
 412 long fault system that stretches across five states including Western Tennessee.

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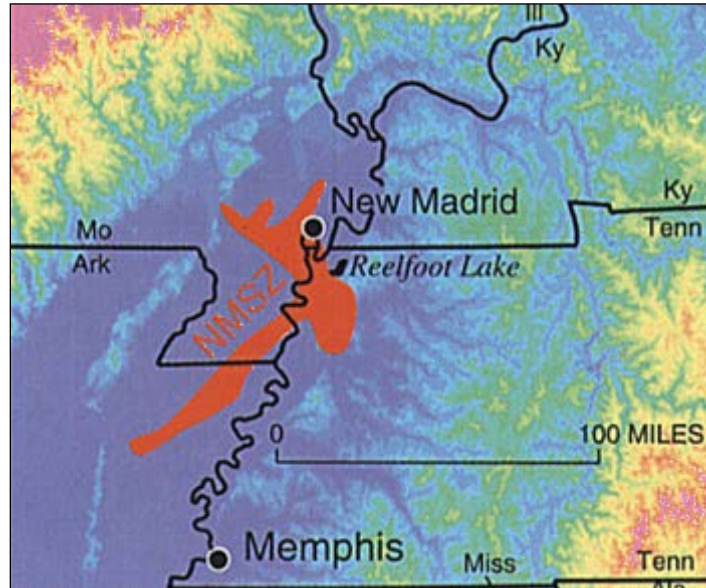
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421

New Madrid Seismic Zone



422

423 Historically the zone is known for producing four of the largest North American earthquakes in
 424 recorded history, all in which would have had been felt in Williamson County. This includes the
 425 noted three-month period between December 1811 and February 1812 that had quakes
 426 reaching Richter Scale magnitudes into the 7.0 through 8.6 ranges.

427 Source: http://earthquake.usgs.gov/learn/topics/mag_vs_int.php

Magnitude / Intensity Comparison	
Magnitude (Richter)	Typical Maximum Modified Mercalli Intensity
1.0 - 3.0	I
3.0 - 3.9	II - III
4.0 - 4.9	IV - V
5.0 - 5.9	VI - VII
6.0 - 6.9	VII - IX
7.0 and higher	VIII or higher

428

429 Source: <http://earthquake.usgs.gov/learn/topics/mercalli.php>

430

431

432

The Modified Mercalli Intensity Scale		
Intensity	Shaking	Description/Damage
I	<i>Not felt</i>	Not felt except by a very few under especially favorable conditions.
II	<i>Weak</i>	Felt only by a few persons at rest, especially on upper floors of buildings.
III	<i>Weak</i>	Felt quite noticeably by persons indoors, especially on upper floors of buildings. Many people do not recognize it as an earthquake. Standing motor cars may rock slightly. Vibrations similar to the passing of a truck. Duration estimated.
IV	<i>Light</i>	Felt indoors by many, outdoors by few during the day. At night, some awakened. Dishes, windows, doors disturbed; walls make cracking sound. Sensation like heavy truck striking building. Standing motor cars rocked noticeably.
V	<i>Moderate</i>	Felt by nearly everyone; many awakened. Some dishes, windows broken. Unstable objects overturned. Pendulum clocks may stop.
VI	<i>Strong</i>	Felt by all, many frightened. Some heavy furniture moved; a few instances of fallen plaster. Damage slight.
VII	<i>Very strong</i>	Damage negligible in buildings of good design and construction; slight to moderate in well-built ordinary structures; considerable damage in poorly built or badly designed structures; some chimneys broken.
VIII	<i>Severe</i>	Damage slight in specially designed structures; considerable damage in ordinary substantial buildings with partial collapse. Damage great in poorly built structures. Fall of chimneys, factory stacks, columns, monuments, walls. Heavy furniture overturned.
IX	<i>Violent</i>	Damage considerable in specially designed structures; well-designed frame structures thrown out of plumb. Damage great in substantial buildings, with partial collapse. Buildings shifted off foundations.
X	<i>Extreme</i>	Some well-built wooden structures destroyed; most masonry and frame structures destroyed with foundations. Rails bent.

433

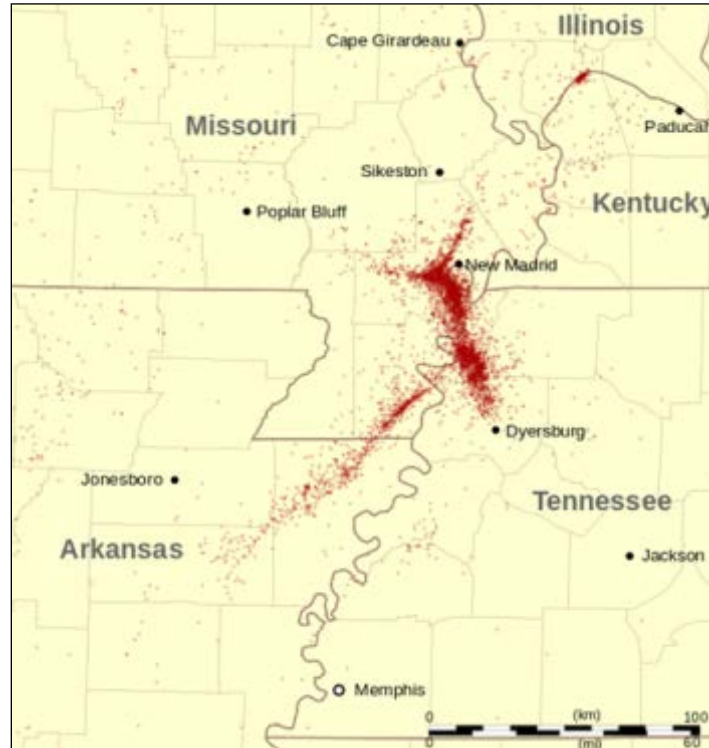
434 Since the 1812 earthquakes, the largest recorded quakes from this zone were the October 1895
 435 6.6 magnitude quake (epicenter Charleston, MO) and the November 1968 5.5 magnitude quake
 436 (epicenter in Dale, IL). From the time when seismic measurement instruments were installed in
 437 and around the zone in the 1970s, more than 4,000 small earthquakes have been recorded, with
 438 the vast majority being too small to be felt.

439

440

441

NMSZ Earthquakes Recorded Since 1974



442

443 According to a FEMA report filed in 2008, a serious earthquake in the NMSZ could result in the
444 highest economic loss due to a natural disaster in U.S. history, causing widespread and
445 catastrophic damage across a seven-state radius with most of the worst impacts taking place in
446 Western Tennessee (includes Williamson County). Based on this report, a 7.7 magnitude quake
447 in the NMSZ would result in thousands of fatalities, tens of thousands of damages to structures,
448 and total disruption of vital infrastructure in Western Tennessee.

449 Williamson County is not part of the 20-county impact zone expected if there is a large
450 earthquake along the New Madrid Seismic Zone. However, Williamson County has the potential
451 for large damage. Furthermore, Williamson County would most likely provide shelter and
452 assistance to those who have had damage and loss due to the earthquake.

453 Throughout the county many buildings and the majority of infrastructure networks could be
454 vulnerable to earthquake impacts. As mentioned previously, Williamson County's building stock,
455 worth approximately \$26 million in approximate replacement value, can be broken down into
456 the following percentage categories⁷:

⁷ source: Williamson County Hazus Flood Study – table 1 in [Appendix E](#).

457

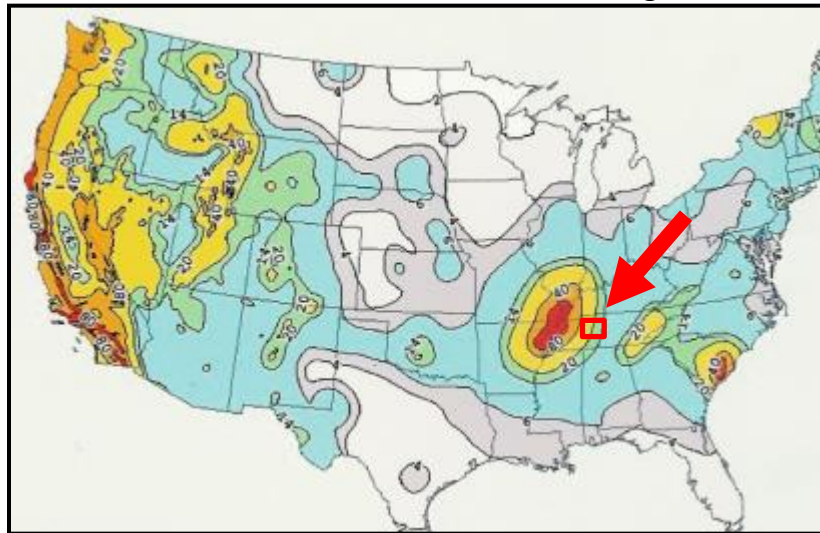
- 458 • 82.8% residential
- 459 • 12.2% commercial
- 460 • 2.2% industrial
- 461 • 0.3% agricultural
- 462 • 0.3% governmental
- 463 • 1.3% religious
- 464 • 0.9% educational

465

466

467

**National Seismic Hazard Map
Ground Motions with a 2% Chance of Occurring in 50 Years**



468

469

Source: <http://earthquake.usgs.gov/hazards/products/>

470

The current lack of apparent land movement along the NMSZ has long puzzled scientists.

471

Currently GPS measurements show that the NMSZ faults are moving no more than 0.0079

472

inches a year. In contrast the San Andreas Fault in California moves up to 1.5 inches a year. This

473

has led some researchers to believe that the fault may be “shutting down” while others say it is

474

a “sleeping giant.” These differing views have made it difficult for public policy makers to decide

475

on if and how much to prepare for and spend on mitigating a potential large scale earthquake.

476

Williamson County uses a simple system known as a [Vulnerability Calculator](#) to determine each

477

jurisdiction’s vulnerability to hazard events. The Vulnerability Calculator applies simple

478

arithmetic to analyze probability and potential impacts of events to calculate a risk ranking for

479

each jurisdiction for each hazard.

480 **Source:** Calculation of Planning Committee Input using the [Vulnerability Calculator](#)

481

Event: Earthquake	Human 1-5	Property 1-5	Business 1-5	Average	Probability 1-5	Risk Score = [(H+P+B)/3] + P	29.67
City of Franklin	4	5	3	4.00	1	5	
City of Spring Hill	4	4	3	3.67	1	5	
Williamson County	4	4	2	3.33	1	4	
City of Fairview	3	4	3	3.33	1	4	
Town of Thompson Station	3	4	2	3.00	1	4	
City of Brentwood	2	4	2	2.67	1	4	
City of Nolensville	2	4	2	2.67	1	4	

482

483

Human		Scale	
<i>Risk of injuries and deaths from the hazard</i>		Low	2-3.6
1	Death very unlikely, injuries are unlikely	Moderate	3.7-5.2
2	Death unlikely, injuries are minimal	Medium	5.3-6.8
3	Death unlikely, injuries may be substantial	High	6.9-8.4
4	Death possible, injuries may be substantial	Severe	8.5-10
5	Deaths probable, injuries will likely be substantial		
Property			
<i>Amount of residential property damage associated from the hazard</i>			
1	Less than \$500 in damages		
2	\$500-\$10,000 in damages		
3	\$10,000-\$500,000 in damages		
4	\$500,000-\$2,000,000 in damages		
5	More than \$2,000,000 in damages		
Business			
<i>Amount of business damage associated from the hazard</i>			
1	Less than 3 businesses closed for only a day		
2	More than 3 businesses closed for a week		
3	More than 3 businesses closed for a few months		
4	More than 3 businesses closed indefinitely or relocated		
5	A top-10 local employer closed indefinitely		
Probability			
<i>Likelihood of the hazard occurring within a given span of years</i>			
1	Less than once every 10 years		
2	About once every 5-10 years		
3	About once every 2-5 years		
4	About once a year		
5	More than once a year		

484

485

486

Williamson County Presidential Declared Disaster

487

Chart:

488

489

<https://www.fema.gov/disasters/grid/state-tribal-government/53>

2000	DR-1331; Public Assistance	2007	
2001		2008	
2002		2009	DR-1821; Public Assistance
2003	DR-1464; Individual & PA	2010	DR-1909; Individual & PA
2004		2011	DR-1974 & DR-1979; PA
2005		2011	
2006		2012	
2007		2013	
2008		2014	DR-4171; Public Assistance
2015		2016	DR-4293; Individual & PA

490

491 Section 4: Mitigation Strategy

492 **Mitigation Goals**

493 The purpose for developing a set of goals is to clearly state the community’s overall vision for
494 hazard mitigation and to provide a path towards building a safer, more resilient community.

495 The Mitigation Committee identified the following goals to be the forefront in the overall
496 development of this plan. All actions and projects recommended as mitigation efforts for the
497 Hazard Mitigation Plan must first meet or further at least one of these goals. The goals are
498 provided in a ranked order where the first goal is paramount.

499 **Goal 1:** Protect the lives and health of citizens from the effects of natural hazards.

500 **Goal 2:** Emphasize mitigation planning to decrease vulnerability of existing and new structures.

501 **Goal 3:** Encourage public support and commitment to hazard mitigation by communicating risks
502 and mitigation benefits.

503 **Identification and Prioritization of Mitigation Projects**

504 Williamson County has developed a comprehensive range of mitigation projects. These projects
505 were solicited and identified by the different entities that make up the Mitigation Committee.

506 Once the proposed projects attained a sponsoring agency and the details of the projects were
507 discussed by the committee, the committee then proceeded to prioritize the mitigation
508 projects.

509 The prioritization process was important since most mitigation projects represent a large
510 investment of financial and personal resources. By evaluating each project’s degree of feasibility
511 and the level of costs versus benefits, Williamson County was able to determine when and
512 which projects should be implemented based on available funding and time.

513 The Mitigation Committee used the SAFE-T method to prioritize these projects. This approach
514 was adopted from the successful methodology used by other counties in FEMA Region 4. This
515 rating system uses five variables to evaluate the overall feasibility and appropriateness:

- 516 • **S**ocietal
- 517 • **A**dministrative
- 518 • **F**inancial
- 519 • **E**nvironmental
- 520 • **T**echnical

521 A focus on this methodology emphasizes the use of a cost-benefit review to maximize benefits.

522 Committee members ranked the projects as a group by determining the value for each variable
523 and then by adding the variables rates up for a project sum value. All the project rankings can
524 be seen on the Williamson County Hazard Mitigation Project List.

Project Prioritization Method: SAFE-T			
Variable		Rank	Description
S	Societal: The public must support the overall implementation strategy and specified mitigation actions. The projects will be evaluated in terms of community acceptance and societal benefits.	1	Low community support or few societal benefits
		2	Moderate community support or some societal benefits
		3	High community support or many societal benefits
A	Administrative: The projects will be evaluated for anticipated staffing and maintenance requirements to determine if the jurisdiction has the personnel and administrative capabilities necessary to implement the project or whether outside help will be needed.	1	High staff requirements - outside staffing required
		2	Some outside staffing may be needed
		3	Low staffing requirements – no outside staffing required
F	Financial: The projects will be evaluated on general cost-effectiveness and whether additional outside funding will be required.	1	Low cost-effectiveness <i>or</i> mostly outside funding required
		2	Moderate cost-effectiveness <i>or</i> some outside funding required
		3	High cost-effectiveness <i>or</i> no outside funding required
E	Environmental: The projects will be evaluated for any immediate or long-term negative environmental impacts caused by their construction or operation.	1	Many negative environmental impacts, some long-term
		2	Some negative environmental impacts, possibly long-term
		3	Few negative environmental impacts, none long-term
T	Technical: The projects will be evaluated on their ability to reduce losses in the long-term, whether there are secondary impacts, and whether the proposed project solves the associated problem or if additional components are necessary.	1	Additional actions will be needed or short-term fix
		2	Additional actions may be needed
		3	Long-term fix or no other actions needed

527 The following Project List provides an overview of all the Mitigation Committee projects. This
528 includes potential funding sources, implementation timeframes, the project's responsible
529 agency and other information. The Project List will remain active and may be updated
530 throughout the five-year life-cycle of the plan. Please note that sinkholes and earthquakes were
531 discussed, but due to priority the funding was discussed to be used elsewhere in each city and
532 town participating in the committee. There are currently no proposed projects directly
533 addressing sinkholes or earthquakes due to the low probability of these events impacting
534 Williamson County. However, should this change, the changes will be reflected during the five-
535 year life-cycle of the plan.

536 Updating the Project List to add or remove a project may be necessary after a disaster or other
537 event. Updates could include adding or modifying projects to address unforeseen issues or
538 removing projects that are no longer feasible or relevant. The Mitigation Committee will notify
539 TEMA of additions or changes to the Project List. TEMA will notify FEMA to ensure that official
540 copies of the Williamson County Hazard Mitigation Plan on file with TEMA and FEMA are
541 updated appropriately.

542 Williamson County Project List

Mitigation Projects											
Project Number	Numerical Priority	Priority Rank (High, Moderate, Low)	Action/Project	Hazard Mitigated	Jurisdictions Benefitted & Represented	Addresses New or Existing Buildings/ Infrastructure	Estimated Cost	Responsible Agency	Possible Funding Source(s)	Population Affected	Estimated Timeframe
1	1	HIGH	Purchase 5 properties located in the floodway/floodplain	Flooding	City of Franklin	New	\$1,720,900	City of Franklin	Fed/State/City	15	5 yr
2	2	HIGH	Purchase of snow chains for patrol cars for the purpose of increase mobility on snow and ice covered roads	Winter Weather	City of Spring Hill	New	\$1,500	City of Spring Hill, Police Dept.	General Funds	City Wide	1 yr
3	3	HIGH	Participation in the NFIP and CRS with initial FIRMS dated November 1981; updates in	Flooding	Williamson County Unincorporated	Both	Variable	Williamson County Government	Operational Budget	7,500	continuous

			1989, 1993, 2003, 2006, and 2016								
4	4	HIGH	Need for a truck with dump capabilities, spreader capabilities, and a backhoe with a front end loader	Winter Weather	Town of Nolensville	New	\$200,000	Town of Nolensville Public Works Department	Operational Budget	7,580	2 yr
5	5	HIGH	Replace aging/damaged snow removal equipment	Winter Weather	City of Brentwood	Existing	\$50,000	City of Brentwood, Public Works Department	General Funds	42,500	2 yr
6	6	HIGH	Convert three manual stream gauges to automated / monitored	Flooding	City of Brentwood	New	\$30,000 total	City of Brentwood	Operational Budget	42,500	2 yr
7	7	HIGH	Designate Community Shelter Location	Tornados	Town of Thompsons Station	New	\$0	Town of Thompson's Station	General Funds	5,000	1 yr

8	8	HIGH	Enforcement of updated Floodplain Regulation	Flooding	Town of Thompsons Station	Existing	\$-	Town of Thompson's Station Planning & Zoning	General Funds	5,000	continuous
9	9	HIGH	Purchase New Snow Removal Equipment (Truck, Plow, Salt Spreader)	Winter Weather	Town of Thompsons Station	New	\$75,000	Thompson's Station Maintenance Dept.	Operational Budget	5,000	2 yr
10	10	HIGH	Institute a ban on all fireworks within the City	Drought and Extreme Heat	City of Spring Hill	New	\$10,000	City of Spring Hill	General Funds	37,000	2 yr
11	11	HIGH	Institute a social media awareness program via twitter, facebook, etc informing residents what actions to take to minimize health concerns	Drought and Extreme Heat	City of Spring Hill	New	\$10,000	City of Spring Hill	General Funds	37,000	continuous

12	12	HIGH	Continuous cleaning of drainage ditches and drainage way to help alleviate flooding	Flooding	City of Spring Hill	New	Approximately \$100,000 per year	City of Spring Hill	M54 Funds	City Wide	continuous
13	13	HIGH	Develop and Adopt a Snow and Ice Control Plan	Winter Weather	City of Spring Hill	New	\$1,000	City of Spring Hill	General Funds	City Wide	2 yr
14	14	HIGH	Voluntary acquisition and removal of qualified properties as disaster declarations make grant funding available. Current repetitive loss properties do not meet benefit cost requirements.	Flooding	Williamson County Unincorporated	Existing	Unknown	Williamson County, State of Tennessee, and FEMA	General Funds	7,500	2 yr

15	15	HIGH	Impose water restrictions based on Brentwood's Drought Mitigation Plan	Drought and Extreme Heat	City of Brentwood	Existing	Unknown	City of Brentwood	General Funds	42,500	continuous
16	16	HIGH	Maintain/Update Snow Removal Routes	Winter Weather	City of Brentwood	New	\$-	City of Brentwood, Public Works Department	Operational Budget	42,500	continuous
17	17	HIGH	Re-establish riparian buffer zones at all applicable water resources owned by the City of Franklin	Flooding	City of Franklin	New	\$2,000.00 Yearly costs	City of Franklin, Parks Department	Unknown	75,000	continuous
18	18	HIGH	Adopt new storm water regulations sizing storm water detention ponds to 100 year.	Flooding	City of Spring Hill	New	\$1000 per year	City of Spring Hill	M54 Funds	City Wide	2 yr

19	19	HIGH	Participation in NFIP	Flooding	City of Spring Hill	New	Approx. \$1,000 per year	City of Spring Hill	M54 Funds	City Wide	continuous
20	20	HIGH	Fund and Construct Tornado Shelters at High Use Parks	Tornados	City of Spring Hill	New	\$500,000	City of Spring Hill	CIP Program	37,000	5 yr
21	21	HIGH	Establish Salt Inventory and Storage Area	Winter Weather	Town of Thompsons Station	New	\$5,000	Thompson's Station Maintenance Dept.	Operational Budget	5,000	3 yr
22	22	HIGH	Reinforce critical infrastructure at Water Treatment Plant	Tornados	City of Franklin	New	Unknown	City of Franklin, Water	Unknown	75,000	2 yr
23	23	HIGH	Install pumps at lift stations bypass pumping during power outages	Tornados	City of Franklin	New	Unknown	City of Franklin, Water	Unknown	75,000	2 yr
24	24	HIGH	Tornado shelters at all staffed City facilities	Tornados	All Jurisdictions	New	Unknown	All Cities, Towns	Unknown	5,000	5 yr

25	25	HIGH	Recoupment of funds due to drought/fire damage	Drought and Extreme Heat	Town of Nolensville	New	\$100,000	Town of Nolensville Public Works Department	Operational Budget	7,580	5 yr
26	26	HIGH	Purchase dump truck for clearing of underbrush and dead trees along the Harpeth River, Spencer Creek and future park properties along existing tributaries	Flooding	City of Franklin	New	\$116,000 for equipment purchase	City of Franklin Parks Department	Unknown	5,000	2 yr
27	27	HIGH	Distribute brochures to trail heads, park offices, and park properties on protecting residents near the river from tornados and flooding. Educating	Tornados	City of Franklin	New	\$40,000	City of Franklin, Parks Department	Unknown	25,000	1 yr

			citizens regarding steps to take to reduce hazard vulnerability, minimize future tornado and flooding damage								
28	28	HIGH	Clearing of ice and snow for emergency vehicles and citizens	Winter Weather	City of Franklin	Existing	Currently Budgeted	City of Franklin, Street Department	Unknown	75,000	continuous
29	29	HIGH	SW16002, Parkview Drainage Project.	Flooding	City of Franklin	New	\$2,020,000	City of Franklin, Stormwater	Stormwater	5,000	2 yr
30	30	HIGH	SW16003, 100 Block of Battle Avenue Drainage Improvement	Flooding	City of Franklin	New	\$1,200,000	City of Franklin, Stormwater	Stormwater	5,000	3 yr
31	31	HIGH	Hardening of Fleet Facility	Tornados	City of Franklin	New	Unknown	City of Franklin, Streets	Unknown	5,000	3 yr

32	32	HIGH	Maintain Dedicated Emergency Access Ways	Flooding	City of Brentwood	New	\$10,000	City of Brentwood	General Funds	42,500	continuous
33	33	HIGH	Stockpile 2,300 – 2,500 tons of salt at two weather protected strategic locations	Winter Weather	City of Brentwood	Existing	\$100,000	City of Brentwood, Public Works Department	Operational Budget	42,500	3 yr
34	34	HIGH	Fortify/harden existing school structures in order to withstand high winds/tornado impacts	Tornados	Williamson County School District, Franklin Special School District	New	Unknown	Williamson County School District, Franklin Special School District	General Funds	46,000	4 yr
35	35	HIGH	Annual service agreement for weather monitoring system and tornado sirens	Tornados	City of Brentwood	Existing	\$4,000 annually	City of Brentwood/ City of Franklin	Operational Budget	42,500	1 yr

36	1	MEDIUM	Harpeth River Bank Stabilization at WRF FY17-18	Flooding	City of Franklin	New	\$980,000	City of Franklin, Stormwater	Stormwater	10,000	1 yr
37	2	MEDIUM	Stockpile salt for roadways @ 1,500 tons annually	Winter Weather	Town of Nolensville	New	\$150,000	Williamson County Highway Department	Operational Budget	7,580	3 yr
38	3	MEDIUM	Construct new City Hall that includes tornado sheltering for 200+ employees and visitors during the day and provides for some sheltering during downtown special events.	Tornados	City of Franklin	New	Unknown	City of Franklin	Unknown	300	5 yr
39	4	MEDIUM	Annually, prior to winter, check/prepare all snow removal equipment	Winter Weather	City of Brentwood	Existing	\$25,000	City of Brentwood, Public Works Department	Operational Budget	42,500	continuous

40	5	MEDIUM	Continued application and enforcement of the Zoning ordinance (floodplain management) and Storm Water Management Regulations	Flooding	Williamson County Unincorporated	Both	Variable	Williamson County Government	Operational Budget	75,000	continuous
41	6	MEDIUM	Use GIS/FIRM mapping in engineering department to identify floodplain and floodway	Flooding	City of Spring Hill	New	\$10,000 per year	City of Spring Hill, City Engineer and Public Works	M54 Funds	City Wide	continuous
42	7	MEDIUM	Installation of fiber optic cable connecting City of Franklin, City of Brentwood, Williamson County, and Metro Nashville	Tornados	City of Franklin	New	TBD	City of Franklin MIT, City of Brentwood, Williamson County, and Metro Nashville	Unknown	75,000	3 yr

43	8	MEDIUM	Enforce maximum lot coverage requirement/Encourage Green Space	Flooding	City of Brentwood	Existing	Variable	City of Brentwood	General Funds	42,500	continuous
44	9	MEDIUM	Regular maintenance on ditches and culverts	Flooding	Town of Thompsons Station	Existing	\$ 10,000.00 per year	Town of Thompson's Station Maintenance Dept.	Operational Budget	5,000	continuous
45	10	MEDIUM	Evaluate structure vulnerability to wildfire events at parks, work with Franklin Fire Department. Protection of buildings in natural settings from wild fires with good landscaping practices	Drought and Extreme Heat	City of Franklin	New	\$-	City of Franklin, Parks Department in coordination with City of Franklin Fire Department.	Unknown	75,000	continuous

46	11	MEDIUM	Construct Fire Station 7 that includes tornado sheltering for its occupants	Tornados	City of Franklin	New	\$4,000,000	City of Franklin, Fire	Facilities Tax Fund	20	
47	12	MEDIUM	Procure a 4000+ fuel truck	Tornados	City of Franklin	New	\$100,000	City of Franklin, Streets	Unknown	15	2 yr
48	13	MEDIUM	Establish and Maintain Riparian Buffers per Tennessee Department of Environment and Conservation (TDEC)	Flooding	Town of Thompsons Station	Existing	\$0	Town of Thompson's Station Planning & Zoning	General Funds	5,000	continuous
49	14	MEDIUM	Promote the use of Social Media, Text Messaging, Twitter, etc for public announcement of tornado warning and watches similar	Tornados	City of Spring Hill	New	\$5,000	City of Spring Hill	General Funds	37,000	continuous

			to Amber Alerts / Nixle								
50	15	MEDIUM	Specify and adopt native plants, shrubbery and trees for incorporation into the City's new Uniform Development Code.	Drought and Extreme Heat	City of Spring Hill	New	N/A	City of Spring Hill, Planning Dept	General Funds	City Wide	1 yr
51	16	MEDIUM	Enforcement of the State of Tennessee Forestry Department Burn Permitting and Burn Banning Program	Drought and Extreme Heat	City of Brentwood	Existing	Unknown	City of Brentwood	General Funds	42,500	continuous
52	17	MEDIUM	Fortify new jail structure to withstand weather impacts	Tornados	Williamson County Sherriff's Office	New	Unknown	Williamson County Sherriff's Office	Operational Budget	500	5 yr

			from high winds/tornados								
53	18	MEDIUM	Clean and improve drainage ditches and retention areas within the park system, as well as protection of property from flood events	Flooding	City of Franklin	Existing	\$3,000	City of Franklin, Parks Department	Unknown	15,000	continuous
54	19	MEDIUM	Hardening of sheds for heavy equipment storage or underground storage of key vehicle assets	Tornados	City of Franklin	New	Unknown	City of Franklin, Streets/Solidwaste/Water	Unknown	500	3 yr
55	20	MEDIUM	A study of how to and/or mitigation of flooding along Lewisburg Pike and Heath Place at Carnton	Flooding	City of Franklin	New	Unknown	City of Franklin, Stormwater	Stormwater	30,000	3 yr

56	21	MEDIUM	Procure AVL capabilities for all city vehicles enabling real time vehicle asset tracking for more accurate deployment of resources	Flooding	City of Franklin	New	Unknown	City of Franklin	Unknown	500	2 yr
57	22	MEDIUM	Stage Trucks Pre-loaded with salt prior to expected winter weather events	Winter Weather	City of Brentwood	Existing	\$5,000	City of Brentwood, Public Works Department	Operational Budget	42,500	when needed
58	23	MEDIUM	Elevate Waste Water lift station control panels to prevent loss from flooding	Flooding	City of Franklin	New	Unknown	City of Franklin, Water	Unknown	75,000	3 yr
59	24	MEDIUM	A study of how to and/or mitigation of flooding of the Cool Springs Mall and nearby stream	Flooding	City of Franklin	New	Unknown	City of Franklin, Stormwater	Stormwater	5,000	3 yr

60	25	MEDIUM	Removal of dead trees, shrubbery, and stumps and evaluation, treatment and trimming of trees in area parks and other park properties	Winter Weather	City of Franklin	New	\$4,000 Yearly costs	City of Franklin, Parks Department	Unknown	15,000	continuous
61	26	MEDIUM	Conduct inspections on stormwater detention ponds to ensure they are maintained and function properly	Flooding	City of Spring Hill	New	\$10,000 per year	City of Spring Hill	M54 Funds	City Wide	continuous
62	27	MEDIUM	Enforcement of the State of Tennessee Forestry Department Burn Permitting and Burn Banning Program	Drought and Extreme Heat	Town of Thompsons Station	Existing	\$0	Town of Thompson's Station, Building and Planning	Operational Budget	5,000	continuous

63	28	MEDIUM	Imposed water restrictions in drought conditions in accordance with the city's Emergency Response Plan and Drought Management Plan.	Drought and Extreme Heat	City of Spring Hill	Existing	N/A	City of Spring Hill, Water Department	Water Dept	37,000	5 yr
64	1	LOW	Upgrade 800MHz Radio System to latest software release for better communications with other agencies	Tornados	City of Franklin	Existing	\$1,500,000	City of Franklin MIT	Unknown	1,000	1 yr
65	2	LOW	Undertake a new Development Drainage Study	Flooding	City of Franklin	New	Unknown	City of Franklin, Stormwater	Unknown	75,000	2 yr
66	3	LOW	Continuous cleaning of drainage ditches	Flooding	Town of Nolensville	Existing	Approx. \$5,000 per year	Town of Nolensville Public Works Department	Operational Budget	7,580	continuous

			to help alleviate flooding								
67	4	LOW	Expansion of current storage shed for salt stockpile to double current size (current size - 65 tons)	Winter Weather	City of Fairview	Existing	\$20,000	City of Fairview, Street Dept	General Funds	8,200	2 yr
68	5	LOW	In brown-out situations, provide fans to social service agencies for distribution to homeless shelters and locations designated by Spring Hill Social Services.	Drought and Extreme Heat	City of Spring Hill	New	\$15,000	City of Spring Hill and Spring Hill Social Services	General Funds	1,000	5 yr
69	6	LOW	Milcrofton Long Lane water line	Flooding	City of Franklin	New	\$200,000	City of Franklin, Water	Unknown	35,000	3 yr

			connection project								
70	7	LOW	Jordan Branch (Cool Springs E) Stream Restoration FY17	Flooding	City of Franklin	New	\$780,000	City of Franklin, Stormwater	Stormwater	15,000	1 yr
71	8	LOW	Complete remaining fiber to connect critical infrastructure	Tornados	City of Franklin	New	Unknown	City of Franklin, IT	Unknown	45,000	5 yr
72	9	LOW	Complete fiber and WiFi installation to alleviate dependencies on outside vendors in case of major events. Complete fiber to radio tower sites, camera system to monitor all sites	Tornados	City of Franklin	New	\$1,000,000	City of Franklin MIT	Unknown	75,000	3 yr

73	10	LOW	Ralston Creek at Liberty Hills Stream Restoration	Flooding	City of Franklin	New	Unknown	City of Franklin, Stormwater	Stormwater	5,000	3 yr
74	11	LOW	Figuers Drive Area Drainage Improvements FY 17-19	Flooding	City of Franklin	New	\$1,250,000	City of Franklin, Stormwater	Stormwater	10,000	2 yr
75	12	LOW	Establish an open space prioritization and acquisition program to endure maximum success with limited funds	Flooding	City of Franklin	New	\$50,000	City of Franklin, Parks Department	Unknown	75,000	continuous
76	13	LOW	Purchase a Wildland Fire Truck with a CAF system	Drought and Extreme Heat	City of Franklin	New	\$416,000	City of Franklin, Fire	General Fund	75,000	3 yr
77	14	LOW	Clearing of underbrush and dead trees along the Harpeth	Drought and Extreme Heat	City of Franklin	Existing	\$50,000	City of Franklin, Parks and	Unknown	75,000	continuous

			River of city owned properties					Recreation Department			
78	15	LOW	Utilize GIS Mapping to better determine floodplain & floodway	Flooding	City of Brentwood	Existing	Unknown	City of Brentwood	Operational Budget	42,500	2 yr
79	16	LOW	Enforce strict detention requirements	Flooding	City of Brentwood	Existing	Variable	City of Brentwood and downstream communities	General Funds	42,500	continuous
80	17	LOW	Enforcement of the State of Tennessee Forestry Department Burn Permitting and Burn Banning Program	Drought and Extreme Heat	Town of Nolensville	Existing	\$-	State Forestry Department with the Nolensville Volunteer Fire Department and Williamson County Emergency Communications	Operational Budget	7,580	continuous

								cooperation and enforcement at the local level			
81	18	LOW	Trimming of trees along roadway to protect Middle Tennessee Electric Membership Cooperation power lines	Winter Weather	Town of Thompsons Station	Existing	\$10,000 Annually	Thompson's Station and Middle Tennessee Electric Membership Cooperation	Operational Budget	5,000	when needed

543

544 *Note: Cost estimate and population affected information satisfies the requirement that the plan have basic cost benefit review of projects. 44 CFR*
545 *201.6 (c)(3)(iii). Also, all timeframe estimates are based on amount of time to complete the project if funding were secured*

546

547 **Project List Update**

548

549 After reviewing the original list of mitigation projects seen in the 2012 Williamson County
550 Hazard Mitigation Plan, the mitigation committee has determined that some of the listed
551 “mitigation” projects were actually “preparedness” projects. Preparedness projects assist
552 people to react or respond more efficiently to threats (*example: putting a fire extinguisher in a*
553 *room so someone could use it to react to a fire threat*) **whereas** mitigation projects are meant to
554 be long-term projects that utilities the built environment in a way that does not necessarily
555 require people to react because the project itself does the reacting (*example: putting fire*
556 *retardant material in the walls of a room*). The Mitigation Committee has chosen to remove
557 those projects in the updated mitigation action list in order for the plan to focus on mitigation
558 opportunities in our growing community.

559

- 560 • Williamson County has transferred 58 projects from the original plan to the updated
561 plan. These projects have remained deferred for several reasons, such as funding issues
562 and changing priorities within the jurisdictions.

563

564 The Mitigation Committee has decided to cancel the original 2012 list due to older methodology
565 which did not reflect the heavy changes in our County which have occurred within the past 5
566 years. However, in the course of the 5 years, Williamson County at this time has **completed** 16
567 projects listed in the previous plan. Please note some of these projects were listed within each
568 jurisdiction, so whereas it may be listed once below, it was completed within all six jurisdictions.

- 569 • Enforcement of burn permitting and burn banning program during drought and extreme
570 heat

- 571 • Winter weather purchases, such as snow blades for trucks and road salt, as well as salt
572 storage facilities

- 573 • Establishment and communication of available shelter areas

- 574 • Creation of continuous routine for washing/cleaning of draining basins

- 575 • Bridge replacement from flood damage

- 576 • Storm water flow capacity

- 577 • Drainage improvements

- 578 • Clearing of underbrush and dead trees along the Harpeth River of city owned properties

- 579 • Evaluate structure vulnerability to wildfire events at parks

- 580 • Protection of buildings in natural settings from wild fires with good landscaping
581 practices

- 582 • Use of GIS mapping to identify floodplain

- 583 • Identify problem areas and monitor flood levels to modify response guidelines

- 584 • Purchase of swift water boat and swift water rescue response and training equipment

- 585 • Training, Policy and continued monitoring of flood levels through communications and

- 586 mapping

- 587 • Install auto chains on all large fire apparatus
- 588 • Distributed brochures to trail heads, park offices, and park properties on protecting
- 589 residents near the river from tornados and flooding

590 Williamson County has also added a number of new projects to the listing as seen on the project
 591 list.

592 **National Flood Insurance Program Compliance**

593 The National Flood Insurance Program (NFIP) is a pre-disaster flood hazard mitigation and
 594 insurance protection program which has reduced the increasing cost of disasters. The intent of
 595 the program is to require new and substantially improved structures be designed and
 596 constructed to minimize or eliminate future flood damage; provide floodplain residents and
 597 business owners with financial insurance assistance in the form of insurance after floods; and it
 598 transfers most of the cost of private property flood losses from the taxpayers to floodplain
 599 property owners through flood insurance premiums. Participation in the NFIP is based on an
 600 agreement between communities and FEMA.

601 Currently, all of Williamson County are NFIP participants. FEMA has listed these jurisdictions to
 602 have current effective map dates, which are listed below along with each jurisdiction’s NFIP
 603 identification number. Also, below is an overview of NFIP policy and loss data for Williamson
 604 County.
 605

City/Town	CID#	Effective Map Date
Williamson County Unincorporated	470204C	12/22/2016
City of Franklin	470206C	12/22/2016
City of Brentwood	470205C	12/22/2016
City of Fairview	470242C	12/22/2016
Town of Thompsons Station	470424	9/29/2006
Town of Nolensville	470425	9/29/2006
City of Spring Hill	470278	4/16/2007

606 *Source: Federal Emergency Management Agency Community Status Book Report*

- 607
- 608 Policies In-force: 1,527
- 609 Insurance In-force whole: \$426,958,100
- 610 Written Premium In-force: \$1,699,855
- 611 Total Losses: 831
- 612 Closed Losses: 701
- 613 Open Losses: 0
- 614 CWOP Losses: 130
- 615 Total Payments: \$21,417,328.62
- 616

617 According to the NFIP, repetitive flood loss is defined as a facility or structure that has
 618 experienced **two or more** insurance claims of at least \$1,000 in any given 10 year period since

619 1978. Within the NFIP, repetitive flood loss properties are usually considered the most vital
 620 structures to mitigate. In Williamson County, the total amount paid out for repetitive flood loss
 621 is approximately \$8.8 million. The chart below provides a summary of repetitive losses for
 622 Williamson County.

Williamson County Repetitive Loss Properties						
Jurisdiction	Structure Type	Flood Zone	Number of Losses	Total Building Payment	Total Contents Payment	Total Paid
City of Brentwood	Single Family	AE	10	\$ 98,904.37	\$ 39,809.39	\$ 138,713.76
City of Brentwood	Single Family	AE	7	\$ 176,413.27	\$ 43,142.58	\$ 219,555.85
City of Franklin	Single Family	AE	4	\$ 116,651.16	\$ 24,111.97	\$ 140,763.13
City of Brentwood	Single Family	AE	4	\$ 99,555.15	\$ -	\$ 99,555.15
City of Brentwood	Single Family	AE	5	\$ 181,757.47	\$ 31,500.00	\$ 213,257.47
City of Brentwood	Single Family	AE	5	\$ 39,973.89	\$ -	\$ 39,973.89
City of Franklin	Single Family	AE	4	\$ 31,789.21	\$ 22,795.60	\$ 54,584.81
City of Franklin	Single Family	X	4	\$ 39,358.04	\$ 17,293.88	\$ 56,651.92
City of Franklin	Single Family	AE	12	\$ 157,929.65	\$ 58,409.46	\$ 216,339.11
City of Brentwood	Single Family	AE	10	\$ 98,904.37	\$ 39,809.39	\$ 138,713.76
City of Franklin	Other-Nonres	A10	2	\$ 10,894.73	\$ 6,751.87	\$ 17,646.60
Town of Nolensville	Single Family	A	2	\$ 8,475.43	\$ 35.08	\$ 8,510.51
City of Franklin	Single Family	EMG	2	\$ 4,669.97	\$ 4,201.97	\$ 8,871.94
City of Franklin	Single Family	A10	2	\$ 3,578.25	\$ 949.61	\$ 4,527.86
City of Brentwood	Single Family	A07	2	\$ 15,547.49	\$ 5,000.00	\$ 20,547.49
City of Franklin	Single Family	AE	6	\$ 153,426.52	\$ 8,591.78	\$ 162,018.30
City of Brentwood	Single Family	EMG	2	\$ 18,125.62	\$ -	\$ 18,125.62
Town of Nolensville	Single Family	A	2	\$ 6,841.03	\$ 5,795.02	\$ 12,636.05
City of Franklin	Single Family	A10	5	\$ 108,842.12	\$ 43,858.21	\$ 152,700.33
City of Franklin	Single Family	B	5	\$ 212,056.92	\$ 46,000.83	\$ 258,057.75
City of Franklin	Other-Nonres	AE	3	\$ 55,268.20	\$ 327,134.00	\$ 382,402.20
City of Brentwood	Single Family	AE	7	\$ 176,413.27	\$ 43,142.58	\$ 219,555.85
City of Franklin	Assmd Condo	A	5	\$ 536,626.99	\$ 280,366.56	\$ 816,993.55
City of Franklin	Assmd Condo	A	3	\$ 41,584.05	\$ -	\$ 41,584.05
City of Franklin	Single Family	A10	4	\$ 234,199.40	\$ 8,179.46	\$ 242,378.86
City of Franklin	Single Family	X	7	\$ 37,318.33	\$ 15,871.76	\$ 53,190.09
City of Franklin	Single Family	AE	4	\$ 116,651.16	\$ 24,111.97	\$ 140,763.13
City of Brentwood	Single Family	A	4	\$ 147,951.29	\$ -	\$ 147,951.29
City of Brentwood	Single Family	AE	4	\$ 99,555.15	\$ -	\$ 99,555.15
City of Brentwood	Single Family	A05	4	\$ 14,490.66	\$ 281.00	\$ 14,771.66
City of Franklin	Single Family	AE	3	\$ 55,819.53	\$ -	\$ 55,819.53
City of Brentwood	Single Family	AE	5	\$ 181,757.47	\$ 31,500.00	\$ 213,257.47

623

624

City of Brentwood	Single Family	AE	5	\$ 39,973.89	\$ -	\$ 39,973.89
City of Brentwood	Single Family	AE	4	\$ 247,444.04	\$ 16,624.27	\$ 264,068.31
City of Brentwood	Single Family	A	3	\$ 61,889.58	\$ -	\$ 61,889.58
City of Brentwood	Single Family	A05	3	\$ 84,871.05	\$ 17,646.89	\$ 102,517.94
City of Franklin	Single Family	AE	3	\$ 49,953.35	\$ -	\$ 49,953.35
City of Brentwood	Single Family	A05	3	\$ 175,148.42	\$ -	\$ 175,148.42
City of Franklin	Single Family	AE	4	\$ 31,789.21	\$ 22,795.60	\$ 54,584.81
City of Franklin	Single Family	AE	3	\$ 36,919.59	\$ 8,022.75	\$ 44,942.34
City of Brentwood	Single Family	AE	4	\$ 166,364.60	\$ 3,300.00	\$ 169,664.60
City of Brentwood	Single Family	A	2	\$ 15,261.05	\$ 1,600.68	\$ 16,861.73
City of Franklin	Single Family	AE	3	\$ 29,473.25	\$ -	\$ 29,473.25
City of Brentwood	Single Family	A05	3	\$ 138,363.67	\$ 42,693.88	\$ 181,057.55
City of Brentwood	Single Family	AE	2	\$ 18,208.86	\$ -	\$ 18,208.86
City of Brentwood	Single Family	A	3	\$ 141,529.05	\$ 39,559.64	\$ 181,088.69
City of Franklin	Other-Nonres	X	2	\$ 6,290.75	\$ -	\$ 6,290.75
City of Franklin	Single Family	X	4	\$ 39,358.04	\$ 17,293.88	\$ 56,651.92
City of Franklin	Single Family	AE	3	\$ 36,169.51	\$ -	\$ 36,169.51
City of Franklin	Single Family	AE	2	\$ 20,133.86	\$ 4,813.81	\$ 24,947.67
City of Brentwood	Single Family	AE	2	\$ 281,402.22	\$ 9,494.43	\$ 290,896.65
Town of Nolensville	Other-Nonres	AE	3	\$ 68,928.30	\$ -	\$ 68,928.30
City of Franklin	Single Family	A	2	\$ 630,009.49	\$ -	\$ 630,009.49
City of Franklin	Single Family	X	2	\$ 91,766.88	\$ 20,932.11	\$ 112,698.99
City of Franklin	Single Family	AE	4	\$ 49,385.15	\$ 18,079.56	\$ 67,464.71
City of Brentwood	Single Family	AE	3	\$ 158,057.64	\$ -	\$ 158,057.64
City of Franklin	Assmd Condo	X	2	\$ 41,325.07	\$ 9,853.67	\$ 51,178.74
City of Brentwood	Single Family	B	2	\$ 42,291.69	\$ -	\$ 42,291.69
City of Franklin	Single Family	A	2	\$ 16,238.02	\$ -	\$ 16,238.02
City of Franklin	Single Family	X	2	\$ 76,105.00	\$ 7,198.52	\$ 83,303.52
City of Franklin	Single Family	X	2	\$ 53,642.87	\$ 2,588.82	\$ 56,231.69
City of Franklin	Single Family	AE	2	\$ 26,264.34	\$ -	\$ 26,264.34
City of Franklin	Single Family	A	3	\$ 33,863.37	\$ 5,868.55	\$ 39,731.92
City of Brentwood	Single Family	AE	2	\$ 9,439.35	\$ -	\$ 9,439.35
City of Brentwood	Single Family	AE	2	\$ 106,807.55	\$ 187.97	\$ 106,995.52
City of Brentwood	Single Family	AE	2	\$ 52,699.85	\$ -	\$ 52,699.85
City of Franklin	Single Family	A	3	\$ 56,541.42	\$ 2,037.19	\$ 58,578.61
City of Brentwood	Single Family	A	2	\$ 106,431.72	\$ 7,433.92	\$ 113,865.64
City of Brentwood	Single Family	X	2	\$ 90,612.57	\$ 109,343.66	\$ 199,956.23
City of Franklin	Single Family	AE	2	\$ 40,087.66	\$ -	\$ 40,087.66
City of Franklin	Single Family	X	2	\$ 34,522.99	\$ 21,372.24	\$ 55,895.23
City of Franklin	Single Family	AE	2	\$ 25,993.29	\$ -	\$ 25,993.29
City of Brentwood	Single Family	X	2	\$ 79,775.49	\$ 98,669.15	\$ 178,444.64
City of Brentwood	Single Family	AE	2	\$ 165,367.05	\$ -	\$ 165,367.05
City of Brentwood	Single Family	A04	2	\$ 89,264.09	\$ -	\$ 89,264.09
City of Brentwood	Single Family	X	2	\$ 31,310.91	\$ -	\$ 31,310.91
Town of Nolensville	Single Family	AE	2	\$ 22,487.09	\$ 1,843.98	\$ 24,331.07
Town of Nolensville	Single Family	AE	2	\$ 27,145.63	\$ 992.24	\$ 28,137.87
City of Franklin	Single Family	X	2	\$ 71,795.43	\$ 6,824.54	\$ 78,619.97
625 Town of Nolensville	Single Family	A04	2	\$ 12,839.26	\$ 1,146.63	\$ 13,985.89

626

627 To continue compliance with the NFIP, the jurisdictions have identified, analyzed and prioritized
628 three mitigation strategies to stay active with the program:

- 629 1.) Continue to evaluate improved standards that are proven to reduce flood damage.
630 2.) Maintaining supplies of FEMA/NFIP materials to help homeowners evaluate measures
631 to reduce damage.
632 3.) Maintaining a map of areas that flood frequently and prioritizing those areas for
633 inspection immediately following heavy rains or flooding event.

634 **Section 5: Plan Maintenance**

635 **Monitoring, Evaluating, and Updating**

636 The Mitigation Committee is designated to monitor and evaluate the mitigation plan. This
637 committee is chaired by Williamson County Emergency Management Agency (EMA) who leads
638 the monitoring, evaluating, and updating process.

639 Monitoring activities will involve Williamson County EMA setting up a committee meeting to be
640 held on an annual basis. Williamson County EMA will prepare a brief annual report of the
641 meeting's findings by addressing mitigation progress and shortfalls within the county.

642 The plan will be evaluated annually and after any significant disaster causing human,
643 infrastructure and property losses. Following each annual informal evaluation EMA, any
644 proposed revisions or recommendations will be brought before the Mitigation Committee to be
645 incorporated into the plan. Potential updates to the plan will address changes to the hazard
646 assessment, the critical facilities list, the repetitive loss list, the committee membership list and
647 the project priority list.

648 The plan will be formally updated every five years in accordance to 44 CFR 201.6(d)3, which
649 states that the plan shall be reviewed, revised, and resubmitted for approval within five years to
650 continue eligibility for HMGP grant funding. For the five year update, Williamson County EMA
651 will notify the jurisdictional governments and the Mitigation Committee approximately one year
652 prior to the plan's expiration date. The review of the plan will include updating the planning
653 process, the hazard profiles, the risk assessment, the vulnerability assessment, the mitigation
654 strategies and the plan maintenance descriptions.

655 The five year plan update will also include soliciting other interested persons and/or agencies to
656 join the Mitigation Committee and a review of what has been accomplished in the past five
657 years. The Mitigation Committee's goal is to have at least five meetings within this time span.
658 Dates, public notices and objectives for these meetings will be determined by Williamson
659 County EMA.

660 Five months prior to the plan's expiration date, Williamson County EMA will submit the revised
661 plan to the TEMA for preliminary review. Upon approval by the state, TEMA will submit the
662 updated plan to FEMA for review.

663 Once Williamson County has attained the designation of the plan's approval pending adoption,
664 each jurisdiction will adopt the plan through a resolution within a year.

665 **Incorporation into Planning Mechanisms**

666 By incorporating the Williamson County Hazard Mitigation Plan into other planning documents
667 and mechanisms, information contained in the mitigation plan can help fill missing gaps in
668 existing documents, can contribute to already existing mitigation-based projects and can create

669 a strengthen stance of mitigation implementation and awareness within the county and its
670 jurisdictions.

671 Some of the mechanisms into which the Williamson County Hazard Mitigation Plan could be
672 incorporated include Williamson County Basic Emergency Operations Plan (BEOP), city and town
673 zoning and floodplain ordinances, and Williamson County Schools and Franklin Special School
674 District Safety plans.

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676 The process of incorporating the hazard mitigation plan into other plans will begin during the
677 other plan's update cycles. Williamson County EMA will first review the plans side-by-side, and
678 where deemed necessary, EMA will make notes on how mitigation concepts and actions can be
679 incorporated into the other plans. These recommendations will be submitted to the lead
680 agencies of the other planning mechanisms for them to place relevant information within the
681 documents.

682 **Continued Public Participation**

683 The Mitigation Committee will strive to involve the public in future mitigation activities. This will
684 be accomplished by continuing to post Mitigation Committee Meeting dates in local newspapers
685 of general circulation, by providing public access to copies of the Williamson County Hazard
686 Mitigation Plan in the local emergency management office and by soliciting other interested
687 persons to participate in the mitigation planning process. By implementing these methods, the
688 public will have an opportunity to comment on the plan during the update drafting stage and
689 prior to plan approval.

APPENDICES

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691

692

A. Planning Meeting 0 information

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i. Sign-In Sheet

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B. Planning Meeting 1 information

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i. Sign-In Sheet

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C. Planning Meeting 2 information

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i. Sign-In Sheet

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ii. Pictures

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D. Planning Meeting 3

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i. Sign-In Sheet

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E. Planning Meeting 4

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i. Sign-In Sheet

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F. Planning Meeting 5

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i. Sign-In Sheet

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G. Flood Elevation Map – Williamson County

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H. HAZUS Flood Model – Williamson County

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I. Williamson County Hazard Mitigation Committee List

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J. Public and Committee Meeting

709

i. Sign-In Sheet

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ii. Public Notice

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Appendix B:

716 **B: Planning Meeting 1: Sign-In Sheet**

717 i. **Sign-in Sheet - Meeting 1**



**Williamson County Emergency Management Agency
Sign-In**

Event: HazMit Plan Date: May 22, 2017



NAME	TITLE	MUNICIPALITY (if applicable)	PHONE	EMAIL
Elyse Helin	County Engineer	County	615-533-2574	Helin@williamson.gov
Amy Bohl	Hwy Dept	Franklin City	615-591-8501	gryke@williamson.gov
Amy Heron	Research Planning	Franklin City	615-794-2103	amy.heron@franklin.gov
Decky Caldwale	Director of Sanitation	City of Franklin	615-794-1516	becke@franklin.gov
Todd Petruski	City Planner	City of Brentwood	615-371-2232	Todd.Petruski@brentwood.gov
Steve Denny	EMA Planner	Williamson County	615-305-7765	Steve@williamson.gov

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Williamson County Emergency Management Agency



Sign-In

Event: HazMit Plan Date: May 22, 2017

NAME	TITLE	MUNICIPALITY (if applicable)	PHONE	EMAIL
Chris Johnson	TEMA Middle Region		(615) 969-6692	chrisjohnson@tema.org
Doug Warden	TEMA SMMO		(615) 241-1345	dwarden@tema.org dw@tema.org
Brett Morse	District Coord	State	615 887-0600	b.morse@tema.org b.morse@tema.org
Russell Peterson	EM Coordinator	Brentwood Fire	615-371-0170	russell.peterson@brentwood.tn.gov

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Appendix C:

723 **C: Planning Meeting 2 Information**

724 **i. Sign-in Sheet - Meeting**



Williamson County Emergency Management Agency

Sign-In

Event: Mitigation Meeting 2 Date: June 13, 2017



NAME	TITLE	MUNICIPALITY (if applicable)	PHONE	EMAIL
Duane Wittingham	Planning/Ops Chief	Mauzy County OEM	931-375-6804	dwwittingham@maurycounty-tn.gov
Scott Quinn	Franklin Police off	Franklin Police	615-794-2513	Scott.Quinn@FranklinTN.gov
John Aluman	IT Director	City of Brentwood	615 371 7000	JohnAluman@BrentwoodTN.gov
Mike Harris	Director of Eng & R	City of Brentwood	615-371-0080	Mike.Harris@BrentwoodTN.gov
Jeff Donagan	Director of Public Works	City of Brentwood	615-371-0080	Jeff.Donagan@BrentwoodTN.gov
Chris Milton	Director Water Serv.	" "	" "	chris.milton@BrentwoodTN.gov
Dave Burt	Director of Parks	City of Brentwood	615-371-2208	dave.burt@BrentwoodTN.gov
Todd Petrowski	City Planner	City of Brentwood	615-371-2232	todd.petrowski@BrentwoodTN.gov
John Penzitt	City Director	City of	931 486-2252	John.Penzitt@BrentwoodTN.gov
Floyd Hartley	County Engineer	SPRING HILL County	615 790 5731	Floyd.Hartley@williamsoncounty.org
Karen York	Asst. General Mgr	Mallory Valley Utility	615-628-0237	KYork@mvud.org
Eddie Hartley	Field Supervisor	Mallory Valley Utility	615-628-0237	EHartley@mvud.org
Alicia Sipe	Planner	WCEMA	615 716 1014	Alicia.Sipe@williamsoncounty.org
Steve Deiny	Planner	WCEMA	(615) 305-7765	stede@williamsoncounty.org



Williamson County Emergency Management Agency Sign-In

Event: Mitigation Meeting 2 Date: June 13, 2017

NAME	TITLE	MUNICIPALITY (if applicable)	PHONE	EMAIL
Jim Svoboda	Principle Planner	Franklin	(615) 550-6734	jim.svoboda@franklin.tn.gov
Todd Horton	Peputy fire chief	Franklin	615-642-1772	toddt@franklin.tn.gov
Allen Lewis	BUILDING OFFICIAL	FRANKLIN	615-550-6639	allen@franklin.tn.gov
Nate Ridley	Collections Manager	Franklin	(615) 390-0984	nate.ridley@franklin.tn.gov
FRED BANNER	IT DIRECTOR	FRANKLIN	615-289-7808	fred@franklin.tn.gov
Joseph Yoziz	Street Director	Franklin	615-550-6884	joseph@franklin.tn.gov
Kris Phillips	ADMIN ASST	FRANKLIN	615-550-6896	Kris.Phillips@Franklin.TN.GOV
Greg Ball	WCHD		615-790-5596	greg@williamson-ty.org
Glenn Johnson	Deputy Fire Chief	Franklin	615-238-5755	glennj@franklin.tn.gov
LANCE BOWIE II	Williamson County GIS Manager	WCS GIS I.T.	615-790-6656	lance.bowie@tn-oes

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731 *Williamson County Hazard Mitigation Committee meeting in the Emergency Operations Center*
732 *(EOC).*



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734 *City of Brentwood and City of Spring Hill representatives discuss issues during the hazard ranking*
735 *exercise using the Vulnerability Calculator.*



736

737 *Members discuss issues within their jurisdiction and how they relate to the Vulnerability*
738 *Calculator rankings.*

Appendix D:

740 **D: Planning Meeting 3 Information**

741 **i. Sign-in Sheet - Meeting**



**Williamson County Emergency Management Agency
Sign-In**

Event: Mitigation Meeting 3 Date: June 22, 2017



NAME	TITLE	MUNICIPALITY (if applicable)	PHONE	EMAIL
Rich McRae	Assistant Director	CoF Water Mgmt	615.794.4554	RichMcRae@franklin.tn.gov
Doug Pratt	Stormwater Insp.	K. Streets Dept	615.780.3254	dougpratt@franklin.tn.gov
Karee Phillip	Admin Asst	Franklin	615.550.3846	karee.phillip@franklin.tn.gov
LET HARKS	TRAINING OFFICER	FRANKLIN	615.799.3477	LET.HARKS@franklin.tn.gov
Steve Denny	Planner EMA	Mico	615.305.7765	sdenny@williamson.tn.gov
Arnon Sog	Planner EMA	Mico	615.716.4224	arnon.sog@williamson.tn.gov



Williamson County Emergency Management Agency Sign-In



Event: Mitigation Meeting 3 Date: June 22, 2017

NAME	TITLE	MUNICIPALITY (if applicable)	PHONE	EMAIL
JOHN PENNITT	CLY/T DIRECTOR	SPRING HILL	571 486-2252 x 485	J.PENNITT@SPRINGHILLGA.GOV
Todd Petrowski	city Planner	City of Brentwood	615-371-2232	Todd.Petrowski@brentwoodtn.gov
Mike Harris	Director of Engineering	City of Brentwood	615-371-0080	Mike.Harris@brentwoodtn.gov
Floyd Helton	County Engineer	County	615-533-2544	FHelton@...

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Appendix E:

750 **E: Planning Meeting 4 Information**

751 **i. Sign-in Sheet - Meeting 4**



Williamson County Emergency Management Agency Sign-In



Event: Mitigation Meeting 4 Date: June 27, 2017

NAME	TITLE	MUNICIPALITY (if applicable)	PHONE	EMAIL
Todd Horton	Deo Chief	Co Franklin	615-642-1772	thorton@franklin.tn.gov
Gene Johnson	Dep Chief	Franklin	615-238-3755	gjohn@franklin.tn.gov
Doug Pratt	Stenographer Insp	COF	615-417-5880	doug.pratt@franklin.tn.gov
Karis Phillips	Admin Assist	COF - Streets	615-550-6896	Karis.Phillips@franklin.tn.gov
Kevin R. Benson	PM DIRECTOR	Williamson County	615-487-0250	Kevin.R.Benson@williamson-tn.com
Floyd Heflin	Engineer	County	615-533-2511	Floyd.Heflin@williamson-tn.com
JOHN PEO ITT	CAJIT DIRECTOR	SPRING HILL	931-486-2252 & 485	JOHN.PEO@SPRINGHILL.TN.GOV



Williamson County Emergency Management Agency
Sign-In

Event: Mitigation Meeting 4 Date: June 27, 2017



NAME	TITLE	MUNICIPALITY (if applicable)	PHONE	EMAIL
S. H. H. S.	PLANNING DIRECTOR	BELLEVILLE	615-779-3773	sharris@wcoema.com
Tracey Davis	Planner	TEMA	615-418-0791	tdavis@tema.com
Olivia Denton	Intern	WESLEY	615-336-1215	olivia.denton@wcoema.com
Alicia Sney	PLANNER	WESLEY	615-76-4024	asney@wcoema.com

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Appendix F:

761 **F: Planning Meeting 5 Information**

762 **i. Sign-in Sheet - Meeting 5**



Williamson County Emergency Management Agency Sign-In

Event: Mitigation Meeting 5 Date: July 6, 2017



NAME	TITLE	MUNICIPALITY (if applicable)	PHONE	EMAIL
Fred Barner	DIRECTOR	FRANKLIN	615-289-2808	fredbarner@franklin.gov
Robert Huerd	BOUNDO OFFICER	FRANKLIN	615-550-6639	ahue@franklin.gov
Kevin R. Benson	PH DIRECTOR	Williamson County	615-487-8250	KBENSEN@wco.tn.gov
Ricky McPeak	Asst. Director	COF	615-794-4554	RickM@Franklin.gov
Wynne Sullivan	Supervisor	COF	615-794-1516	bobby.sullivan@Franklin.gov
M. K. F. '09	Supervisor	COF	615-794-1514	Wynne.Sullivan@Franklin.gov
Karen Phillips	ADMIN ASSISTANT	COF	615-550-6896	KPhillips@Franklin.gov
Russell Peterson	EM Coordinator	COB	615-371-0170	Russell.peterson@Franklin.gov
Gern Johnson	Dep Chief	City of Franklin	615-238-5755	gjohn@Franklin.gov
John Reuter	GIS/T DIRECTOR	CITY OF SPENT KILL	615-486-2252-485	reuter@Franklin.gov
Todd Petrowski	City Planner	COB	615-371-2232	tpetrowski@Franklin.gov
Floyd Helton	Chief Engineer	County	615-533-2544	Floyd.Helton@Franklin.gov
Todd Horton	Deputy Chief	Franklin, fire	615-642-1172	thorton@Franklin.gov
Jim Suckadee	Principal Planner	Franklin	615-550-6734	jsuckadee@Franklin.gov

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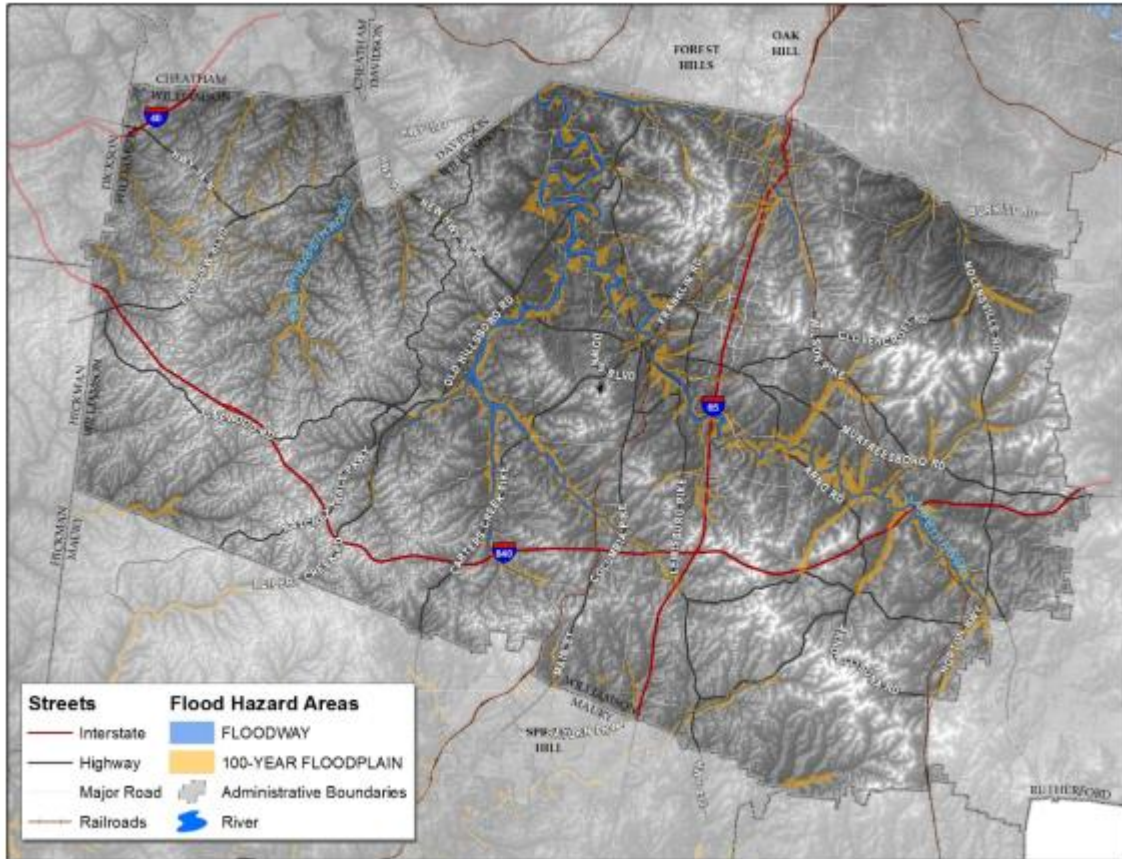
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Appendix G:

766 G: Flood Elevation Map – Williamson County

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Note: Elevated areas are in white. Provided by Williamson County Emergency Management Agency.

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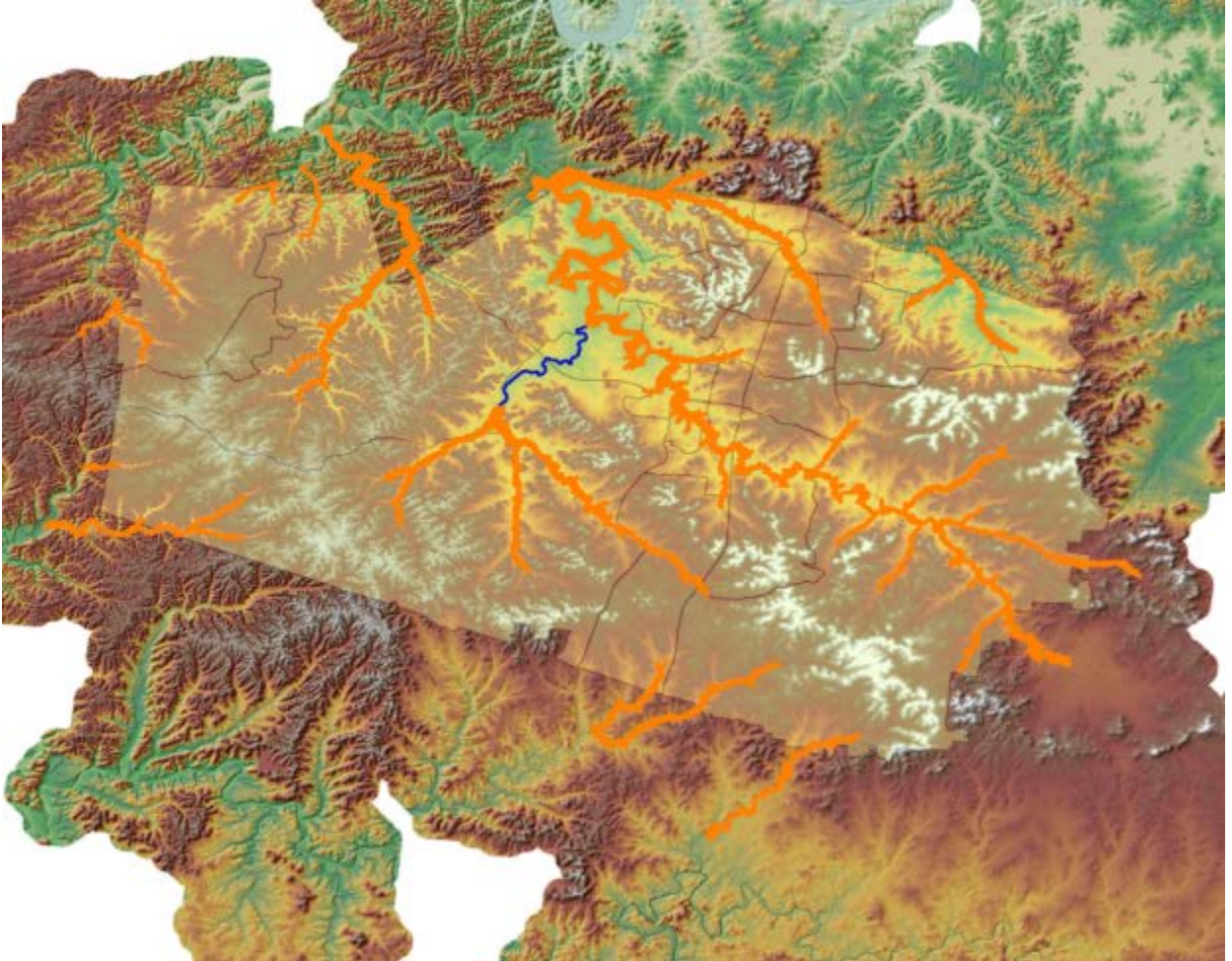
Appendix H:

777 **H: HAZUS Flood Model - Williamson County**

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HAZUS Thematic Map of Depth



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Hazus-MH: Flood Event Report

Region Name: WilliamsonCoTN
Flood Scenario: 100-year flood study
Print Date: Friday, April 28, 2017

Disclaimer:

*This version of Hazus utilizes 2010 Census Data.
Totals only reflect data for those census tracts/blocks included in the user's study region.*

The estimates of social and economic impacts contained in this report were produced using Hazus loss estimation methodology software which is based on current scientific and engineering knowledge. There are uncertainties inherent in any loss estimation technique. Therefore, there may be significant differences between the modeled results contained in this report and the actual social and economic losses following a specific Flood. These results can be improved by using enhanced inventory data and flood hazard information.

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General Description of the Region

Hazus is a regional multi-hazard loss estimation model that was developed by the Federal Emergency Management Agency (FEMA) and the National Institute of Building Sciences (NIBS). The primary purpose of Hazus is to provide a methodology and software application to develop multi-hazard losses at a regional scale. These loss estimates would be used primarily by local, state and regional officials to plan and stimulate efforts to reduce risks from multi-hazards and to prepare for emergency response and recovery.

The flood loss estimates provided in this report were based on a region that included 1 county(ies) from the following state(s):

- Tennessee

Note:

Appendix A contains a complete listing of the counties contained in the region.

The geographical size of the region is 584 square miles and contains 4,535 census blocks. The region contains over 65 thousand households and has a total population of 183,182 people (2010 Census Bureau data). The distribution of population by State and County for the study region is provided in Appendix B.

There are an estimated 67,085 buildings in the region with a total building replacement value (excluding contents) of 26,399 million dollars (2010 dollars). Approximately 91.80% of the buildings (and 82.83% of the building value) are associated with residential housing.

Building Inventory

General Building Stock

Hazus estimates that there are 67,085 buildings in the region which have an aggregate total replacement value of 26,399 million (2010 dollars). Table 1 and Table 2 present the relative distribution of the value with respect to the general occupancies by Study Region and Scenario respectively. Appendix B provides a general distribution of the building value by State and County.

Table 1
Building Exposure by Occupancy Type for the Study Region

Occupancy	Exposure (\$1000)	Percent of Total
Residential	21,866,616	82.8%
Commercial	3,221,023	12.2%
Industrial	582,998	2.2%
Agricultural	86,448	0.3%
Religion	336,036	1.3%
Government	79,158	0.3%
Education	226,420	0.9%
Total	26,398,699	100.00%

Table 2
Building Exposure by Occupancy Type for the Scenario

Occupancy	Exposure (\$1000)	Percent of Total
Residential	4,001,119	83.0%
Commercial	522,705	10.8%
Industrial	117,076	2.4%
Agricultural	24,256	0.5%
Religion	75,007	1.6%
Government	2,520	0.1%
Education	79,193	1.6%
Total	4,821,876	100.00%

Essential Facility Inventory

For essential facilities, there are 1 hospitals in the region with a total bed capacity of 126 beds. There are 57 schools, 14 fire stations, 7 police stations and no emergency operation centers.

Flood Scenario Parameters

Hazus used the following set of information to define the flood parameters for the flood loss estimate provided in this report.

Study Region Name:	WilliamsonCoTN
Scenario Name:	100-year flood study
Return Period Analyzed:	100
Analysis Options Analyzed:	No What-ifs

Building Damage

General Building Stock Damage

Hazus estimates that about 568 buildings will be at least moderately damaged. This is over 46% of the total number of buildings in the scenario. There are an estimated 144 buildings that will be completely destroyed. The definition of the 'damage states' is provided in Volume 1: Chapter 5 of the Hazus Flood Technical Manual. Table 3 below summarizes the expected damage by general occupancy for the buildings in the region. Table 4 summarizes the expected damage by general building type.

Table 3: Expected Building Damage by Occupancy

Occupancy	1-10		11-20		21-30		31-40		41-50		Substantially	
	Count	(%)	Count	(%)	Count	(%)	Count	(%)	Count	(%)	Count	(%)
Agriculture	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Commercial	3	75.00	1	25.00	0	0.00	0	0.00	0	0.00	0	0.00
Education	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Government	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Industrial	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Religion	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Residential	71	11.13	159	24.92	102	15.99	94	14.73	68	10.66	144	22.57
Total	74		160		102		94		68		144	

Table 4: Expected Building Damage by Building Type

Building Type	1-10		11-20		21-30		31-40		41-50		Substantially	
	Count	(%)	Count	(%)	Count	(%)	Count	(%)	Count	(%)	Count	(%)
Concrete	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
ManufHousing	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Masonry	2	10.00	7	35.00	2	10.00	3	15.00	2	10.00	4	20.00
Steel	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Wood	70	11.18	154	24.60	100	15.97	92	14.70	68	10.66	142	22.68

Essential Facility Damage

Before the flood analyzed in this scenario, the region had 126 hospital beds available for use. On the day of the scenario flood event, the model estimates that 126 hospital beds are available in the region.

Table 5: Expected Damage to Essential Facilities

Classification	Total	# Facilities		
		At Least Moderate	At Least Substantial	Loss of Use
Fire Stations	14	0	0	0
Hospitals	1	0	0	0
Police Stations	7	0	0	0
Schools	57	2	0	2

If this report displays all zeros or is blank, two possibilities can explain this.

- (1) None of your facilities were flooded. This can be checked by mapping the inventory data on the depth grid.
- (2) The analysis was not run. This can be tested by checking the run box on the Analysis Menu and seeing if a message box asks you to replace the existing results.

Induced Flood Damage

Debris Generation

Hazus estimates the amount of debris that will be generated by the flood. The model breaks debris into three general categories: 1) Finishes (dry wall, insulation, etc.), 2) Structural (wood, brick, etc.) and 3) Foundations (concrete slab, concrete block, rebar, etc.). This distinction is made because of the different types of material handling equipment required to handle the debris.

The model estimates that a total of 8,834 tons of debris will be generated. Of the total amount, Finishes comprises 45% of the total, Structure comprises 30% of the total. If the debris tonnage is converted into an estimated number of truckloads, it will require 353 truckloads (@25 tons/truck) to remove the debris generated by the flood.

Social Impact

Shelter Requirements

Hazus estimates the number of households that are expected to be displaced from their homes due to the flood and the associated potential evacuation. Hazus also estimates those displaced people that will require accommodations in temporary public shelters. The model estimates 1,667 households will be displaced due to the flood. Displacement includes households evacuated from within or very near to the inundated area. Of these, 3,728 people (out of a total population of 183,182) will seek temporary shelter in public shelters.

Economic Loss

The total economic loss estimated for the flood is 368.96 million dollars, which represents 7.65 % of the total replacement value of the scenario buildings.

Building-Related Losses

The building losses are broken into two categories: direct building losses and business interruption losses. The direct building losses are the estimated costs to repair or replace the damage caused to the building and its contents. The business interruption losses are the losses associated with inability to operate a business because of the damage sustained during the flood. Business interruption losses also include the temporary living expenses for those people displaced from their homes because of the flood.

The total building-related losses were 367.94 million dollars. 0% of the estimated losses were related to the business interruption of the region. The residential occupancies made up 73.11% of the total loss. Table 6 below provides a summary of the losses associated with the building damage.

Table 6: Building-Related Economic Loss Estimates
(Millions of dollars)

Category	Area	Residential	Commercial	Industrial	Others	Total
<u>Building Loss</u>						
	Building	178.45	17.65	4.40	3.24	203.74
	Content	90.99	46.89	10.86	13.27	161.61
	Inventory	0.00	0.90	1.46	0.23	2.59
	Subtotal	269.44	65.25	16.51	16.74	367.94
<u>Business Interruption</u>						
	Income	0.00	0.25	0.00	0.03	0.28
	Relocation	0.25	0.03	0.00	0.01	0.29
	Rental Income	0.06	0.02	0.00	0.00	0.08
	Wage	0.01	0.25	0.00	0.12	0.38
	Subtotal	0.31	0.54	0.00	0.17	1.02
<u>ALL</u>	Total	269.76	65.79	16.51	16.90	368.96

Appendix A: County Listing for the Region

- Tennessee
- Williamson

Appendix B: Regional Population and Building Value Data

	Building Value (thousands of dollars)			Total
	Population	Residential	Non-Residential	
Tennessee				
Williamson	183,182	21,866,616	4,532,083	26,398,699
Total	183,182	21,866,616	4,532,083	26,398,699
Total Study Region	183,182	21,866,616	4,532,083	26,398,699

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Appendix I:

I: Williamson County Hazard Mitigation Committee

Member	Representation	Title/Role
Floyd Heflin	Williamson County Engineer	Flood Plain Administrator
Greg Boll	Highway Dept	Accountant
Amy Herron	Williamson County Parks and Recreation	Research and Planning
Becky Caldwell	City of Franklin Sanitation Dept	Director of Sanitation
Todd Petrowski	Brentwood Planning Dept	City Planning
Steve Denny	Williamson County Emergency Management Agency	Planner
Russell Peterson	Brentwood Fire Dept	Emergency Management Coordinator
Tracey Davis	Tennessee Emergency Management Agency	Regional Planner
Mark Elrod	Williamson County Sherriff's Office	Lieutenant, Special Operations Division
Michael Fletcher	Williamson County Schools	Director, School Safety and Security
Celby Glass	Franklin Special School District	Supervisor of Attendance and Safety
John Pewitt	City of Spring Hill	GIS/IT Director
John Allman	City of Brentwood	IT Director
Mike Harris	City of Brentwood	Director of Engineering
Jeff Donegan	City of Brentwood	Director of Public Works
Chris Milton	City of Brentwood	Director of Water Service
Dave Bunt	City of Brentwood	Director of Parks
Karen York	Mallory Valley Utility	Asst. General Mgr
Eddie Hartley	Mallory Valley Utility	Field Supervisor
Jim Svoboda	City of Franklin	Principal Planner
Todd Horton	City of Franklin	Deputy Fire Chief
Allen Lewis	City of Franklin	Building Official
Nate Ridley	City of Franklin	Collections Manager
Jordan Shaw	City of Franklin	IT Director
Joseph York	City of Franklin	Street Director
Kris Phillips	City of Franklin	Administrative Assistance
Glenn Johnson	City of Franklin	Deputy Fire Chief
Lance Bowie II	Williamson County	GIS/IT Director

Ricky McPeak	City of Franklin	Assistant Director, Water Management
Doug Pratt	Franklin Streets Dept.	Stormwater Inspector
Scot Hughes	City of Fairview	Training Officer
Joe Cosentini	Town of Thompsons Station	Town Administrator
Kevin Benson	City of Franklin	Property Manager


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Appendix J:

800 **J: Public Information Meeting**


801 **i. Sign-in Sheet**



Williamson County Emergency Management Agency

Sign-In

Event: Mitigation Meeting/Public Date: October 16, 2017



NAME	TITLE	MUNICIPALITY (if applicable)	PHONE	EMAIL
Wendy Deats	Town Planner	Town of Thompsons Station	615-794-4323	wdeats@townofthompsonstation.com
Ricky McPeak	Assist Director	City of Franklin - Water	615-794-4854	RickMcPeak@franklin.gov
Tracey Davis	Regional Planner	State of TN	615-418-0791	tracey.davis@tn.gov
Marlene Siro	Ops. Officer	WEMA	615-854-9200	admarlene@williamscounty.org
Floyd Helms	County Engineer	County	615-790-5731	floyd@williamscounty.org

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803 ii. Public Notice Copy

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PUBLIC NOTICE

806 Notice is hereby given pursuant to the "Open Meeting Law of Tennessee", TCA Section
807 8-4-101, et seq., that the Williamson County Emergency Management Agency Hazard
808 Mitigation Committee will meet on October 4, 2017 at 2:00 P.M. in room 112 of the
809 Williamson County Public Safety Center at 304 Beasley Drive, Franklin, TN. Anyone
810 requesting an accommodation due to a disability should contact Risk Management at
811 615-790-5466. This request, if possible, should be made three working days prior to
812 the meeting.

813

CLASSIFIEDS
INTERNET CLASSIFIEDS SERVICE - GIVING YOUR LOCAL CLASSIFIED AD A WORLD WIDE REACH!

EMPLOYMENT	EMPLOYMENT	FOR SALE	GARAGE SALE	FOR SALE	FOR SALE	
<p>CITY OF FRANKLIN, TENNESSEE INVITES APPLICATIONS FOR THE POSITION OF: ATHLETIC WORKER - SEASONAL - PARKS</p> <p>The City of Franklin, Parks Department has a vacancy for a ATHLETIC WORKER-SEASONAL. Please see the full job announcement and submit an online application at www.franklin-tn.gov/jobs.</p> <p>DEADLINE TO APPLY: 8/2/2017 SALARY: \$14.95 EOE/DFW-free Workplace</p>	<p>All American Remodeling Plus Paint</p> <p>From Painting to Complete Remodels</p> <p>931-619-7308 615-987-5123</p>	<p>LIVE FISH FOR STOCKING PONDS</p> <p>We provide hauling containers. We will be at: Williamson Farmers COOP 290 Eddy Lane, Franklin October 7, 10-11AM Call 615-790-6100 or KEN JACOBS Bowling Green, KY 278-842-2555</p>	<p>LEGALS</p> <p>PUBLIC NOTICE</p> <p>The Tennessee Department of Environment and Conservation gives notice that a Corrective Action Plan has been submitted for MAPCO #3212 site located at 8009 Moores Lane, Brentwood, TN, in compliance with the Code of Federal Regulations Title 40, Part 280.66(a) and Rule 1200-1-15-06(1)(a) of the State of Tennessee. Pursuant to Title 40, Part 280.67(b) and the Rule 1200-1-15-06(1)(a), the Corrective Action Plan is available for public inspection during normal business hours, with the exception of legal holidays, for a period of 30 days after the date of this publication at the State of Tennessee, Environmental Field Office located at 711 R.S. Gass Boulevard, Nashville, TN 37243</p>	<p>LEGALS</p> <p>PUBLIC NOTICE</p> <p>Notice is hereby given pursuant to the "Open Meeting Law of Tennessee", TCA Section 8-4-101, et seq., that the Williamson County Emergency Management Agency Hazard Mitigation Committee will meet on October 4, 2017 at 2:00 P.M. in room 112 of the Williamson County Public Safety Center at 304 Beasley Drive, Franklin, TN. Anyone requesting an accommodation due to a disability should contact Risk Management at 615-790-5466. This request, if possible, should be made three working days prior to the meeting.</p>	<p>FOR SALE</p> <p>TIMS FORD LAKE GETAWAY HOUSE</p> <p>In private woods, 2 party decks, 2 fireplaces, 3 beds, 3 baths, 2400 sq ft, full lake frontage, floating dock \$449k. off 4/4 near Bull Springs 937-607-7649 By owner.</p>	<p>FOR SALE</p> <p>FOR SALE</p> <p>Old site bars in Hickman Co, good condition. Also old house to be demolished. Make offer on either or both. 931-729-9933</p> <p>JOHN DEERE 755</p> <p>from 9523 HR Diesel Hydraulic Transmission loader and Backhoe ONLY 775 hrs. 62770 Call 620-880-5480</p>
<p>Exp. Landscapers Needed</p> <p>Exp. Lead man; DL Required Full time; Know plants; \$14.00 & up contingent on exp. Nashville (615) 331-6289</p>	<p>LEGALS</p> <p>NOTICE OF SUBSTITUTE TRUSTEE'S SALE</p> <p>WHEREAS, default has occurred in the performance of the covenants, terms and conditions of a Deed of Trust dated May 31, 2006, executed by CHRISTIAN S. HERRING, ROBERTLY N. MORRISSEY, conveying certain real property therein described to ARNOLD H. WEISS, as Trustee, as same appears of record in the Register's Office of Williamson County, Tennessee;</p>	<p>LEGALS</p> <p>NOTICE OF SUBSTITUTE CO-TRUSTEE'S SALE</p> <p>Custom Play Pit Franklin, Williamson County, Tennessee</p> <p>Default having been made in the terms, conditions, and payments, including without limitation the failure to make principal and interest payments, provided for in that certain Deed of Trust dated May 1, 2015, as recorded in Book 6461, Page 164, in the Register's Office of Williamson County, Tennessee, from Thomas Ouston, LLC, a Georgia limited liability company ("Borrower"), to K. Kirkland Moser, Trustee, securing the indebtedness therein described (as amended, the "Deed of Trust"), which indebtedness is now due and unpaid, and has been declared in default by the lawful owner and holder thereof;</p> <p>The undersigned, Scott H. McLeod, Substitute Co-Trustee, having been appointed Substitute Co-Trustee on April 13, 2017 to serve in the place and stead of K. Kirkland Moser, Trustee, said appointment being recorded at Book Number 7063, Page 680 in the Register's Office for Williamson County, Tennessee;</p> <p>NOTE: THEREFORE, I, SCOTT H. McLEOD, Substitute Co-Trustee, pursuant to said Deed of Trust, having been requested by Ouston Loan Group, LLC, a Delaware limited liability company, the owner and holder of said indebtedness, to do so, and by virtue of the authority and power vested in me by said Deed of Trust will, on November 2, 2017 at 12:00 o'clock noon at the south front door of the Williamson County Judicial Center 135 4th Avenue South, Franklin, Williamson County, Tennessee, proceed to sell of public outcry to the highest bidder for cash or credit upon the indebtedness secured by the lawful owner and holder named in the successful purchase, here from the equity of redemption, the statutory right of redemption, hereinafter, elective share, and all other exemptions of Borrower of every kind, all of which have been expressly waived by Borrower in said Deed of Trust, the property in Williamson County, Tennessee described as follows:</p>				

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Facilities & Construction
1320 West Main Street, Suite 202
Franklin, TN 37064
Tel. (615)-472-4041
Fax (615)-472-5622



M E M O R A N D U M

DATE: January 8, 2020

TO: School Board Members

FROM: Kevin Fortney 
Director of Facilities and Construction

RE: **Five Year Capital Plan**

Attached is the 5-Year Capital Plan for your review. The anticipated cost remains the same but the Total Capital Needs for Facilities for the years 2023-24 & 2024-25 have been corrected. The correction resulted in a change to the Grand Total Capital Plan.

**WILLIAMSON COUNTY SCHOOLS
FIVE (5) YEAR CAPITAL PLAN
(2019-2025)**

Project	ITF Needed 2019-20	ITF Needed 2020-21	ITF Needed 2021-22	ITF Needed 2022-23	ITF Needed 2023-24	ITF Needed 2024-25	Tot Amount Intent to Fund	Projected Completion Date
REAL ESTATE ACQUISITIONS FOR FUTURE SCHOOLS								
Land Purchase Elementary / Middle / High		\$ 18,000,000	18,000,000				36,000,000	
Land Central Office /Support Complex (Approx. 30 Acres)		2,250,000					2,250,000	
NEW BUILDINGS								
Elementary School East	18,000,000	10,000,000					28,000,000	Fall 2021
Middle School (Jordan Property)		28,000,000	15,000,000				43,000,000	Fall 2022
Elementary School South		18,000,000	10,000,000				28,000,000	Fall 2022
Middle School (Brentwood Middle Replacement)		2,000,000	28,000,000	14,400,000			44,400,000	Fall 2023
Middle School East			2,000,000	28,000,000	14,400,000		44,400,000	Fall 2023
Elementary School Central			2,000,000	16,000,000	11,000,000		29,000,000	Fall 2024
Elementary School North				2,000,000	18,000,000	9,000,000	29,000,000	Fall 2024
High School West/Northwest				3,000,000	32,000,000	27,000,000	62,000,000	Fall 2025
Elementary School South					2,000,000	27,000,000	29,000,000	Fall 2025
SUBTOTAL NEW SCHOOL BUILDING CONSTRUCTION	\$ 18,000,000	\$ 78,250,000	\$ 75,000,000	\$ 63,400,000	\$ 77,400,000	\$ 63,000,000	\$ 375,050,000	
ADDITIONS/MAJOR RENOVATIONS								
ESCO Third Phase		2,000,000					2,000,000	Fall 2022
Summit High School Addition (22-Classroom Addition & Cafeteria Expansion)		9,000,000					9,000,000	Fall 2022
Ravenwood High School Addition (22-Classroom Addition & Cafeteria Expansion)		9,000,000					9,000,000	Fall 2022
Ravenwood High School Football Field Synthetic Turf		1,200,000					1,200,000	Fall 2021
Centennial High School Football Field Synthetic Turf		1,200,000					1,200,000	Fall 2021
Fairview High School Football Field Synthetic Turf		1,200,000					1,200,000	Fall 2021
Summit High School Football Field Synthetic Turf			1,200,000				1,200,000	Fall 2022
Independence High School Football Field Synthetic Turf			1,200,000				1,200,000	Fall 2022
Transportation Building Addition			900,000				900,000	Fall 2023
Page High School Interior Renovations/Additions Phase 3			19,500,000				19,500,000	Fall 2024
Early Childhood Development Building South			5,000,000				5,000,000	Fall 2023
Hillsboro K8 Renovation				3,600,000			3,600,000	Fall 2025
Grassland Middle School Renovation					3,600,000		3,600,000	Fall 2026
Bethesda Elementary Renovation						3,400,000	3,400,000	Fall 2027
SUBTOTAL ADDITIONS/MAJOR RENOVATIONS	-	23,600,000	27,800,000	3,600,000	3,600,000	3,400,000	\$ 62,000,000	
Maintenance Yearly Requests for Major Projects								
Projected Major Capital Projects (Asphalt Parking Lots/Roadways/Tennis Courts)	\$ 2,080,455	\$ 1,522,655	\$ 1,504,400	\$ 1,300,000	\$ 1,101,000	\$ 1,100,000	8,608,510	TBD
Projected Major Capital Projects (Roofs)	2,023,000	3,350,000	4,083,200	1,930,000	3,050,000	4,500,000	18,936,200	TBD
WWTP Upgrades CGES, OVES (Close) BES	1,970,000	1,600,000					3,570,000	TBD
SUBTOTAL MAINTENANCE YEARLY REQUESTS FOR MAJOR PROJECTS	\$ 6,073,455	\$ 6,472,655	\$ 5,587,600	\$ 3,230,000	\$ 4,151,000	\$ 5,600,000	\$ 31,114,710	
TOTAL CAPITAL NEEDS FOR FACILITIES	\$ 24,073,455	\$ 108,322,655	\$ 108,387,600	\$ 70,230,000	\$ 85,151,000	\$ 72,000,000	\$ 468,164,710	
	14 GenEd / 1 SPED	14 GenEd/0 SPED	17 GenEd/0 SPED	16 GenEd / 4 SPED	20 GenEd / 3 SPED	14 GenEd / 8 SPED	-	
*** PROJECTED ANNUAL CAPITAL REQUESTS FOR TRANSPORTATION (REPLACEMENTS ONLY)	\$ 1,450,800	\$ 1,353,800	\$ 1,643,900	\$ 1,935,200	\$ 2,225,000	\$ 2,129,800	\$ 10,738,500	Yearly
Replacement Cost per Bus (GenEd \$96,700 / SPED \$97,000)								
GRAND TOTAL CAPITAL PLAN	\$ 25,524,255	\$ 109,676,455	\$ 110,031,500	\$ 72,165,200	\$ 87,376,000	\$ 74,129,800	\$ 478,903,210	

Individual Project Cost Does Not Include Cost of Land.

Estimates Are Based on Construction Cost of \$194 Sq. Ft. & Total Build Out Cost of \$235 Sq. Ft.

Buildout Cost Includes Design, Engineering, Environmental Studies, Tap Fees, Utility Grades, Permitting, Infrastructure Improvements, Site Work, Building Construction, Furniture, Fixtures, Technology, Textbooks & Security Measures.



**Statement of Interests
State and Local Office Holders, Candidates and Appointees to such Positions,
Non-General Assembly Members**

****This form must be filed with the Tennessee Ethics Commission****

Please see the attached instructions before completing this form. The failure to timely and properly submit the required disclosure statement can, under T.C.A. §3-6-205, result in the imposition of civil penalties in amounts up to \$10,000. Attached additional pages as necessary. **Note that this disclosure statement must be signed and the signature attested to by a witness in item 13.** In addition, please be aware that the information listed on this statement will be transferred to an electronic format for posting on the Commission's website, pursuant to T.C.A. §8-50-501(d)(3).

Please Print or Type

1. Name of Official or Candidate _____	2. Email (optional): 3. Phone Number Work: _____ Home: _____														
4. Home Address Mailing Address (check here if same as home address <input type="checkbox"/>)															
5. Check one: <input type="checkbox"/> Office Holder OR <input type="checkbox"/> New Candidate County: _____ Title of Office held or sought: _____ District Number, Municipality, or County where office located: _____															
6. Sources of Income List major source(s) of private (non-governmental) income of more than \$1,000 for yourself, your spouse or minor child residing with you. "Major sources of private income" include, but are not limited to: offices, directorships and salaried employments. No dollar amounts need to be stated. Select as many recipients as necessary. <input type="checkbox"/> NONE															
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7. Investments – List any investment by you, your spouse or minor child residing with you in any corporation or other business organization in excess of ten thousand dollars (\$10,000) or five percent (5%) of the total capital. The name of the corporation or organization must be listed but no dollar amounts or percentages of the investment need be stated. <input type="checkbox"/> NONE															
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8. Lobbying – List any person, firm or organization for whom compensated lobbying is done by any associate, your spouse or minor child residing with you. Also, list any firm in which you, your spouse or minor child residing with you hold any interest for whom compensated lobbying is done. Explain the terms of any such employment, the subject matters lobbied and/or the measures to be supported or opposed.

NONE

Name of Lobbyist	Terms of Employment	Subject Matter or Measures	Lobbyist Relation to Filer	
_____	_____	_____	<input type="checkbox"/> Filer	<input type="checkbox"/> Associate of Filer
_____	_____	_____	<input type="checkbox"/> Spouse	<input type="checkbox"/> Minor Child
_____	_____	_____	<input type="checkbox"/> Filer	<input type="checkbox"/> Associate of Filer
_____	_____	_____	<input type="checkbox"/> Spouse	<input type="checkbox"/> Minor Child

9. Professional Services – List in general terms (by areas of the client's interests) the entities to which professional services, such as those of an attorney, accountant or architect, are furnished by you or your spouse.

NONE

Licensed Profession	Client Interest	Furnished by	
_____	_____	<input type="checkbox"/> Filer	<input type="checkbox"/> Spouse
_____	_____	<input type="checkbox"/> Filer	<input type="checkbox"/> Spouse

10. Retainer Fees – List any retainer fee you receive from any person, firm or organization who is in the practice of promoting or opposing, influencing or attempting to influence directly or indirectly, the passage or defeat of any legislation before the Tennessee General Assembly, the legislative committees or the members thereof.

NONE

11. Bankruptcy – List any adjudication of bankruptcy or discharge received in any United States district court within five (5) years of the date of this report.

NONE

12. Loans – List any loan or combination of loans for more than one thousand dollars (\$1,000) from the same source made in the previous calendar year to you, your spouse or minor child residing with you. **See the attached instructions for the list of loans that should not be disclosed on this report.**

NONE

Lender Name	Loan Recipient		
_____	<input type="checkbox"/> Filer	<input type="checkbox"/> Spouse	<input type="checkbox"/> Minor Child
_____	<input type="checkbox"/> Filer	<input type="checkbox"/> Spouse	<input type="checkbox"/> Minor Child

13. Signature – Must be attested to by a witness

I certify that the information contained in this disclosure statement is true and that it is a complete and accurate report in accordance with the Conflict of Interest Disclosure Act.

Signature of Official or Candidate

Date

To be completed by witness:

I, _____, the undersigned, do hereby witness the above signature, which was
(Print Name of Witness) signed in my presence:

Signature of Witness

Date

Instructions to Statement of Interests (SS-8005)

The positions listed below are required by the Ethics Reform Act of 2006 to file a Statement of Interests (SS-8005) with the Tennessee Ethics Commission.

- Each member of the general assembly;
- The secretary of state, comptroller of the treasury, state treasurer and each member of the state election commission;
- Each director of the Tennessee regulatory authority;
- The governor;
- Each officer of the governor's cabinet;
- Each supreme court justice, each judge of the court of criminal appeals and each judge of the court of appeals;
- Each delegate to a constitutional convention called to consider a new constitution or amendments to the Constitution of Tennessee;
- The attorney general and reporter;
- The district attorneys general and the public defenders for each judicial district;
- The administrative director of the courts;
- The executive director of the district attorneys general conference;
- The state election coordinator;
- Members of the board of probation and parole;
- Members and executive director of the alcoholic beverage commission;
- The chancellor of the board of regents and the president of each college or university governed by the board of regents;
- The president of the University of Tennessee, and the chancellor of each separate branch or campus of the University of Tennessee;
- Members of the registry of election finance;
- Members of the Tennessee ethics commission;
- Each candidate or appointee to a local public office as defined in § 2-10-102;
- Members of any local planning commission; and
- Members of any regional planning commission.

When Must the Statement Be Filed?:

- Candidates must file within 30 days of the last day to qualify as a candidate.
- Current officeholders must file by January 31st of each year.
- Newly-appointed officeholders must file within 30 days of appointment to office. The appointing authority must send notice to the Commission within 3 days of appointment.

Where Should the Statement Be Filed?:

Electronic filing: To file electronically for the first time, go to <https://apps.tn.gov/conflict/>, click on "Sign Up," and follow directions to set up a TN.GOV account with your unique authorization code. After setting up your TN.GOV account, go to <https://apps.tn.gov/conflict/> and log in as a returning user to file your Statement of Interests. If you have previously filed electronically, go to <https://apps.tn.gov/conflict/> and log in to file your report. If you do not remember your Username and Password, call (629) 888-5870 for technical support, to retrieve that information.

Paper Filing: To file on paper, go to <https://www.tn.gov/content/dam/tn/ethicscommission/documents/officials/ss-8005.pdf> to print the form and instructions. Complete your Statement in its entirety. Mail the completed form to the Tennessee Ethics Commission, 404 James Robertson Parkway, Suite 104, Nashville, TN 37243. Your Statement of Interests is not considered filed until received by the Commission. If you have questions, please feel free to contact the Commission's office at: (615) 741-7959 or e-mail us at ethics.counsel@tn.gov.

An amended Statement of Interests must be filed whenever reported conditions change due to a termination or an acquisition of any of those interests that you are required to report. This report is a public document and will be posted on the internet. Social security numbers, dates of birth, and account numbers are not required and should not be included on your Statement.

SUPPLEMENTAL INSTRUCTIONS

Question 6: Sources of Income

1. "Private income" refers to any income you, your spouse or minor child residing with you receive in excess of \$1,000 per annum from a non-governmental source.
2. "Private Income includes, but is not limited to:
 - Bank and Bond Interest
 - Business Income
 - Capital Gains
 - Clinical Practice Income
 - Income from Employment
 - Income from Contractual Relationships
 - Directorships
 - Dividends from CDs, stocks and securities
 - Compensated Fiduciary Positions (trusteeships, conservatorships, etc.)
 - Honoraria
 - Lecture Fees
 - Payments from Annuities, Settlements...etc.
 - Rental income
 - Research Grants
 - Research Foundation Income
 - Trust Income (The principal is reported in the investment question.)

This list is not exhaustive, but merely exemplary. If you, your spouse or minor child residing with you have other income that is not listed here but meets the requirements of this section, you are required to list them.

3. "Private income" does not include monies received directly by inheritance or gift. The term does include the income produced by an investment which has been received by inheritance or gift.

As a general rule, if the receipts are reportable to the IRS as private income, then they must be listed on the form.

Question 7: Investments

1. Do not report holdings that are ten thousand dollars (\$10,000) or less in value or five percent (5%) of the total capital. If, however, the holding is ten thousand dollars (\$10,000) or less in value, but is five percent (5%) or more of the total capital, the holding must be reported.

If the investment is managed by entities other than yourself, spouse or minor child residing with you (such as mutual funds or 401Ks), list the entity managing the account and the type of investment, but not the corporations to which the money has been distributed.

2. Examples of investments that must be listed if held by you, your spouse or minor child residing with you:
 - 401K, 403(b) and 457 plans
 - Annuities
 - Bonds
 - Certificates of Deposit
 - College Savings Programs

- State Deferred Compensation Plans
- Estates
- Stocks and securities
- IRAs
- Keogh Plans
- Limited Liability Corporations (LLCs)
- Mutual Funds in IRAs
- Mutual Funds not in IRAs
- Notes (investments)
- Pensions
- Real Estate (but not your primary or secondary residence)
- Real Estate Investment Trusts (REITs)
- Retirement Plans for States other than Tennessee
- TIAA-CREF Supplemental Retirement Plans
- Treasury Notes
- Blind Trusts
- Warrants
- Zero Coupon Bonds

Question 8: Lobbying Interests

1. If you, your spouse, or minor child residing with you are associated with a compensated lobbyist, you must provide the name(s) of the entities for which the associate lobbies.
2. If you, your spouse or minor child have any interest in any lobbying firm, you must list the name of the entity. Do not report interests in employers of lobbyists, e.g., do not report interests in public corporations or other entities that may engage a lobbyist.

Question 9: Professional Services

For the purpose of this question, you must list the general areas of interests of your (or your spouse's) clients if you (or your spouse) engage in any profession licensed by the State of Tennessee. You are not, however, required to list your clients or to otherwise furnish personal information about your clients. These professions include, but are not limited to:

Chiropractic	Massage Therapy	Optometry
Dentistry	Medicine	Audiology
Physical Therapy	Midwifery	Nursing
Pharmacology	Podiatry	Architecture
Public Accounting	Veterinary Medicine	Law

This list is not exclusive. If you or your spouse practice a profession that is not listed but that requires a license to practice in the State of Tennessee, you are required to list the general areas of your clients' interests.

Question 12: Loans

Loans need not be disclosed on this report if they are:

1. From your immediate family (spouse, parent, sibling or child);
2. From a federally insured financial institution or made in accordance with existing law in the ordinary course of doing business of making loans. The loan must bear the usual and customary rate of interest, be made on a basis which assures repayment, evidenced by a written instrument and subject to a due date or amortization schedule;
3. Secured by a recorded security interest in collateral, bearing the usual and customary interest rate of the lender made on a basis which assures repayment; evidenced by a written instrument and subject to a due date or amortization schedule;
4. From a partnership in which you have at least ten percent (10%) partnership interest;
5. From a corporation in which more than fifty percent (50%) of the outstanding voting shares are owned by you or by your immediate family (spouse, parent, sibling or child).



To: Board of Education
From: Leslie C. Holman, Assistant Superintendent/CFO
RE: Budget Amendments and Resolutions for 2019-2020
Date: January 8, 2020

**Amendment
General Purpose School Fund
The following budget amendment requires your permission only.**

1.20.State Grants

The state has awarded the Board 2 grants in the amount of \$50,000. One is for 5 of our elementary schools to start up STEM (30,000). The other grant is for two high schools for early post-secondary expansion (20,000).

The following budget resolutions will need your approval and commission approval as well.

02.20.SPED Teachers

Due to enrollment standards at three schools, we need 3 additional special education teachers. This was unexpected and we will use fund balance to fund this request.

02.20.Copy Paper

For the last few years we have budgeted copy paper at 1 case per 2.8 students. We have always had an inventory at year end that extended our paper to the schools without the need to increase this ratio. We are using more paper and had no inventory at the beginning of the year to help with our current requests. This was unexpected and we will use fund balance for this request. We will adjust our ratio accordingly during the budget process.

Staff recommends approval of the above noted amendment and budget resolutions.

Amendment:

APPROPRIATING \$50,000 IN STATE GRANT FUNDS IN THE GENERAL PURPOSE SCHOOL FUND 2019-2020 BUDGET FOR STEM START UP AND EARLY POSTSECONDARY EXPANSION

WHEREAS, the Board of Education applied for and has received two grants that will benefit our schools; and

WHEREAS, the first grant (\$30,000) is to give five elementary schools \$6,000 each to offer advanced STEM programs in their buildings for equipment, materials, and supplies; and

WHEREAS, the second grant (\$20,000) is to give two high schools \$10,000 each to supplement, expand, and diversify the Teaching as a Profession (TAP) program.

WHEREAS, no local funds will be necessary;

NOW, THEREFORE BE IT RESOLVED that the Williamson County Board of Education meeting in regular session on January 21, 2020 approve and amend the 2019-2020 General Purpose School Fund budget as follows:

Revenue			
141.46590.G5602	Other State Funds -STEM Grant	\$30,000	
141.46590.G5603	Other State Funds- Post Secondary	20,000	
Expenditure			
141.71300.549900.G5602	Other materials and Supplies		30,000
141.71300.549900.G5603	Other materials and Supplies		20,000
	Total	50,000	50,000

School Board Vote

Yes _____

No _____

RESOLUTION NO. _____

Requested by: Board of Education

**RESOLUTION AMENDING THE 2019-2020 GENERAL PURPOSE SCHOOL BUDGET
\$103,465 FOR ADDITIONAL SPECIAL EDUCATION TEACHERS**

WHEREAS, there is a need to add additional Special Education teachers due to enrollment numbers at 3 schools exceeding staffing standards; and

WHEREAS, this was unexpected and fund balance can be used to fund this need;

NOW, THEREFORE BE IT RESOLVED, that the Williamson County Board of County Commissioners meeting in regular session on February 10, 2020 approve and amend the 2019-2020 General Purpose School Fund budget in the following manner:

Revenue		
141.39000	Fund Balance	\$103,465
Expenditure		
141.71200.511600	Teachers (3)	\$75,000
141.71200.520100	FICA	4,650
141.71200.520400	Pension	6,750
141.71200.520600	Life	77
141.71200.520700	Medical	15,150
141.71200.520800	Dental	750
141.71200.521200	Medicare	1,088
	Total	\$103,465

Commissioner Tom Tunnicliffe

Committees Referred to & Action Taken

- 1. School Board For ___ Against ___
 - 2. Education For ___ Against ___
 - 3. Budget For ___ Against ___
- COMMISSION ACTION TAKEN: For ___ Against ___ ABS ___ Out ___

Elaine Anderson - County Clerk

Jack Walton - Commission Chairman

Date

Rogers Anderson - County Mayor

RESOLUTION NO. _____
Requested by: Board of Education

**RESOLUTION AMENDING THE 2019-20 GENERAL PURPOSE SCHOOL FUND BUDGET
\$55,000 FROM FUND BALANCE FOR COPY PAPER**

WHEREAS, there is a need for additional copy paper to finish the year for the schools, due to having no inventory at the beginning of the year as we have had the past few years; and

WHEREAS, this was unexpected and therefore we can use fund balance for this expense; and

NOW, THEREFORE BE IT RESOLVED, that the Williamson County Board of County Commissioners meeting in regular session on February 10, 2020 approve and amend the 2019-2020 General Purpose School fund budget in the following manner:

Revenue 141.39000	Fund Balance	\$55,000	
Expenditure 141.71100.542982.510	Copy Paper		\$55,000

Commissioner Tunncliffe

COMMITTEES REFERRED TO & ACTION TAKEN:

<u>School Board</u>	For _____	Against _____
<u>Education Committee</u>	For _____	Against _____
<u>Budget Committee</u>	For _____	Against _____

COMMISSION ACTION TAKEN: For ___ Against ___ Abs ___ Out ___

Elaine Anderson-County Clerk

Tommy Little – Commission Chairman

Rogers C. Anderson – County Mayor

Date

OPEN-ZONED SCHOOLS FOR 2020-21 SCHOOL YEAR

Proposed for Board Approval January 21, 2020

All Requests are submitted using the Online Out of Zone Request Portal found on the School Zones page of the District Website

Deadline to apply is May 15, 2020

ELEMENTARY SCHOOLS

Bethesda Elementary up to 25 (total) students from Chapmans Retreat Elementary or Thompson's Station Elementary

Fairview Elementary up to 25 (total) students from any WCS school

Grassland Elementary up to 25 (total) students from any WCS school

Heritage Elementary up to 25 (total) students from Longview Elementary or Thompson's Station Elementary

Hunters Bend Elementary up to 25 (total) students from any WCS school

Jordan Elementary up to 25 (total) students from any WCS school

Oak View Elementary up to 25 (total) students from any WCS school

Sunset Elementary up to 25 (total) students from Nolensville Elementary or Mill Creek Elementary

Walnut Grove Elementary up to 25 (total) students from any WCS school

Westwood Elementary up to 25 (total) students from any WCS school

Winstead Elementary up to 25 (total) students from any WCS school

MIDDLE SCHOOLS

Fairview Middle up to 25 (total) students from any WCS school

Grassland Middle up to 25 (total) students from any WCS school

New Central East Middle up to 25 (total) students from any WCS school

Sunset Middle up to 25 (total) students from any WCS school

HIGH SCHOOLS

Centennial High up to 25 (total) students from any WCS school

Fairview High up to 25 (total) students from any WCS school

Nolensville High up to 25 (total) students from any WCS school

1320 West Main Street Suite 202
Franklin, Tennessee 37064-3700
Phone (615) 472-4000
Fax (615) 472-4190
Website: <http://www.wcs.edu>



MEMORANDUM

TO: Williamson County School Board

FROM: Leigh Webb, Assistant Superintendent of Secondary Schools

DATE: January 9, 2020

RE: School Naming Committee Recommendations

The School Naming Committee for the middle school property on Hen Peck Lane met on December 18th and January 8th to review the history of the school property, view community input, and reach consensus on three recommended school names. Schools feeding to the new middle school in the first year are Heritage Middle, Thompsons Station Middle, Oak View Elementary, and Winstead Elementary. In accordance with WCS School Board Policy 3.210, Naming Facilities, the committee submits to you three names of consideration listed below in alphabetical order.

Legacy Middle School- Legacy Middle School is a name created to encompass courage and strength and is a nod to the “big idea” concepts of the two feeder high schools with strong meanings in their names, Centennial and Independence. The name Legacy reflects the school’s goal to build and leave a strong legacy for the future of the school, community, and district. The name reflects an opportunity to establish a new, unified legacy for students who come from all over the community. This is a non-location school name with a strong meaning.

Oakstead Middle School- Oakstead Middle School is a combination of the two current elementary feeder school names, Oak View Elementary School and Winstead Elementary School. This name would be inclusive of both school communities as they come together in one middle school. There is strength symbolized in the word “oak” and the word “stead” means home. The location of the school is easily identifiable with the proposed name. The committee also noted that Winstead was created with students from Oak View Elementary.

Oak View Middle School- Oak View Middle is a school name that keeps the namesake of the nearby elementary school. Oak View Elementary School is in close proximity to the new middle school property and is also located on Henpeck Lane. The location of the middle school campus is easily identifiable with this school name and the community built around the school. Oak View was a name given to the elementary school based on the natural landscape and view from the original property.

Williamson County Board of Education

Monitoring: Review: Annually, in October	Descriptor Term: Service Animals in District Facilities	Descriptor Code: 3.3002	Issued Date: 11/18/19
		Rescinds: 3.3002	Issued: 05/27/14

1 In accordance with the provisions of the Americans with Disabilities Act, service dogs and trained
 2 miniature horses (hereinafter referred to as service animals) are permitted for use by individuals with
 3 disabilities on district property and in district facilities provided the individuals and their animals meet
 4 the requirements and responsibilities covered in this policy.

5 ~~An individual with a disability may be accompanied by a service animal at any WCS school site, school~~
 6 ~~activity, or other WCS activity consistent with the provisions of this policy, related procedures, the~~
 7 ~~Americans with Disabilities Act, and any other applicable state and federal laws. The definition of~~
 8 ~~“service animal” shall be that found in the Americans with Disabilities Act.~~

9 ~~Service animals shall be allowed in all areas where the individual would otherwise be allowed to travel.~~
 10 ~~However, an administrator may restrict the use of service animals in an area due to health and safety~~
 11 ~~restrictions, danger to the animal, or where the use of the animal may compromise the integrity of the~~
 12 ~~activity occurring in the area.~~

13 Any service animal brought into a district facility by an individual with a disability must have been
 14 trained to do work or perform tasks for the individual. The work or tasks performed by the service
 15 animal must be directly related to the handler’s disability. Examples of work or tasks include, but are
 16 not limited to, assisting individuals who are blind or have low vision with navigation and other tasks,
 17 alerting individuals who are deaf or hard of hearing to the presence of people or sounds, providing non-
 18 violent protection, pulling a wheelchair, assisting an individual during a seizure, retrieving items, and
 19 providing physical support and assistance with balance and stability to individuals with mobility
 20 disabilities.

21 The crime deterrent effects of an animal’s presence and the provision of emotional support, well-being,
 22 comfort, or companionship do not constitute work or tasks for the purposes of this policy.

23 WCS students and employees who are present where a service animal is in use shall not:

- 24 1. Touch or pet the animal unless invited to do so by the handler;
- 25 2. Feed the animal;
- 26 3. Deliberately startle or otherwise interfere with the work being performed by the animal;
- 27 4. Distract the animal from its work;
- 28
- 29
- 30
- 31

- 1 5. Separate or attempt to separate the animal's handler from the animal; or
- 2
- 3 6. Inquire about the nature of the individual's disabilities.

4 WCS shall not be liable for any harm or injury caused to a service animal, nor shall WCS be liable for
5 any harm or injury caused by a service animal to students, staff, visitors, or to any property

6 **CARE AND SUPERVISION OF A SERVICE ANIMAL**

7 A service animal shall be under the control of its handler. A service animal shall have a leash, harness,
8 or other tether unless the handler is unable, because of a disability, to use a harness, leash, or other tether,
9 or the use of a harness, leash, or other tether would interfere with the service animal's safe, effective
10 performance of work or tasks, in which case the service animal must be otherwise under the handler's
11 control by means of voice control, signals, or other effective means.

12 ~~Students and employees with service animals are expected to care for and supervise their animal. WCS~~
13 ~~is not responsible for the care or supervision of a service animal, including, but not limited to, walking~~
14 ~~the animal or responding to the animal's need to relieve itself. WCS is not responsible for providing a~~
15 ~~staff member to walk the service animal or to provide any other care or assistance to the animal.~~

16 ~~In the case of a student who is unable to care for or supervise the service animal, the parent is~~
17 ~~responsible for providing care and supervision. In such case, the parent should contact the school~~
18 ~~administration to make arrangements for the care and supervision of the animal. All issues related to~~
19 ~~the care and supervision of service animals will be addressed on a case-by-case basis at the discretion~~
20 ~~of the building administrator or the Superintendent of Schools.~~

21 **SPECIAL PROVISIONS / MINIATURE HORSES**

22 ~~Requests to permit a miniature horse to accompany a student or employee with a disability in school~~
23 ~~buildings, in a classroom, or at school functions, will be handled on a case-by-case basis.~~
24 ~~Consideration will be given to the following factors:~~

25 The following factors will be considered when there is a request to permit a miniature horse to
26 accompany a student or employee with a disability:

- 27 1. The type, size, and weight of the miniature horse and whether the facility can accommodate
28 these features;
- 29 2. Whether the handler has sufficient control of the miniature horse;
- 30 3. Whether the miniature horse is housebroken; and
- 31 4. Whether the miniature horse's presence in a specific facility compromises legitimate safety
32 requirements that are necessary for safe operation.

1 WCS students and employees making use of a service miniature horse must provide annual proof of
2 the following vaccinations: Equine Infectious Anemia (Coggins Test), Rabies, Tetanus,
3 Encephelomyelitis, Rhinoneumonities, Influenza, and Strangles

4 **REMOVAL OF A SERVICE ANIMAL**

5 District staff may ask an individual with a disability to remove a service animal from the premises if:

- 6 1. The animal is out of control and the animal's handler does not take effective action to control it;
- 7 2. The animal is not housebroken; or
- 8 3. The animal's presence would fundamentally alter the nature of the service, program, or activity.

9 **REQUESTS FOR USE OF SERVICE ANIMALS**

10 The Superintendent of Schools, or the Superintendent's designee, shall establish procedures to be
11 followed for **requesting** the use of service animals by WCS students and employees. ~~Failure to abide by~~
12 ~~any of the requirements of this policy may result in the use of the service animal being restricted.~~

13 ~~All~~ Requests for the use of a service animal by a WCS student or employee shall be made in writing to
14 the Superintendent of Schools, or the Superintendent's designee, on a form created by the district. The
15 form shall be available upon request from the administrator of each school in the case of a student, or
16 from the Human Resources department in the case of an employee. The request must be delivered to the
17 Superintendent of Schools or the Superintendent's designee at least 10 business days prior to bringing
18 the service animal to school or work, and the completed request must include any required
19 documentation.

20 ~~Individuals who are not WCS students or employees who are visiting a WCS facility or event and require~~
21 ~~an accommodation for their disability should contact the ADA Coordinator for Williamson County at~~
22 ~~(615) 790-5466, or (615) 472-4000.~~

23 **GENERAL REQUIREMENTS**

24 All service animals must be housebroken.

25 ~~The animal must be a dog or, in specific circumstances, a miniature horse. No other species of animal,~~
26 ~~whether wild or domestic, will be permitted as a service animal.~~

27 ~~The animal must be required for the individual with a disability, and it must be individually trained to~~
28 ~~perform work or complete a task(s) related to the disability of the individual.~~

29 WCS students and employees making use of a service animal of any kind must provide a health
30 certificate from a licensed veterinarian prior to making use of the **service** animal at school or at work.
31 The health certificate must be provided on a semi-annual basis thereafter.

1 WCS students and employees making use of a service dog must provide annually proof of a negative
2 result from a fecal test for intestinal parasites, and annual proof of the following vaccinations: DHLPPC
3 (Distemper, Hepatitis, Leptospirosis, Parinfluenza, Coronavirus, Bordetella, and Rabies.

4 All service animals must be:

- 5 1. Spayed or neutered (dogs only);
- 6
- 7 2. Treated for, and kept free of, fleas, ticks, and other parasites; and
- 8
- 9 3. Kept clean and groomed to avoid shedding and dander.

Legal References

1. 28 CFR Part 35

Williamson County Board of Education

Monitoring: Review: Annually, in October	Descriptor Term: Special Transportation for Students with Disabilities	Descriptor Code: 3.4001	Issued Date: 11/18/19
		Rescinds: 3.4001	Issued: 08/21/06

1 When an IEP team determines that a student with a disability requires special transportation to receive
2 a free, appropriate public education, The Board shall provide ~~free special transportation services as a~~
3 ~~related service, at no cost, as required under the state and federal law to any student with disabilities~~
4 ~~unable to ride the regular school bus to which he/she has been assigned.~~

5 ~~Any student with a disability unable to ride a regular school bus will be entitled to ride a bus for~~
6 ~~children with disabilities subject to the following conditions:~~

7 1. ~~The Special Education Director coordinates the determination of eligibility for this service.~~

8

9 2. ~~The Special Education Director is authorized to require that the family physician certify in~~
10 ~~writing the disability and that special transportation services are required.~~

11

12 3. ~~The Special Education Director is authorized to require that the Williamson County Health~~
13 ~~Department certify the need for special transportation services.~~

14 Pursuant to state and federal law, students with disabilities are to be placed in their school of zone
15 unless an IEP team determines the school of zone is not an appropriate placement based upon the
16 student's individual needs.

17 ~~Any student riding a bus must be ready to board the bus when it arrives. It is the parents' duty to have~~
18 ~~someone meet the bus and call for the student on delivery.~~

19 Students receiving special transportation shall be at the bus stop designated by the district and ready to
20 board at the time designated by the district. A parent/guardian must be present at the designated bus
21 stop during pick up and/or drop off.

22 ~~In cases where the child must be lifted, parents are responsible for lifting the child on or off the bus at~~
23 ~~home. At school this task is assigned by the school principal.~~

24 A parent/guardian will be responsible for providing any physical assistance the student needs in order
25 to board or deboard a bus.

26 ~~The student will be picked up at and delivered to his/her permanent home address or designated stop.~~

27 ~~Students are expected to attend their school of zone. Beginning school year 2002-03, the Board shall~~
28 ~~provide free transportation, regardless of disability, to and from a student's zoned elementary, middle~~
29 ~~school and high school.~~

- 1 ~~1. Parents who wish for their child to attend an out-of-zone school must follow the guidelines in~~
 2 ~~Board policy 1.703.~~

3
 4 ~~As required by state and federal law, IEP Teams are expected to place students in the school of~~
 5 ~~zone they would attend if not disabled.~~

- 6
 7 ~~a. Placement in an out-of-zone or out-of-county school shall only be made if the IEP Team~~
 8 ~~can show that the school of zone cannot provide the services and supports in the~~
 9 ~~student's IEP.~~
 10 ~~b. The IEP Team is required to shall notify the Special Education Coordinator/Director~~
 11 ~~Executive Director of Student Support Services in writing when if placement to an out-~~
 12 ~~of-zone or out-of-county school is made required for a student with a disability as~~
 13 ~~quickly as possible. If the IEP Team suspects ahead of time that such a placement~~
 14 ~~recommendation is likely, the Team should invite the Special Education~~
 15 ~~Coordinator/Director to attend the IEP meeting for that student. The Executive Director~~
 16 ~~of Student Support Services shall attend these meetings as necessary in order to address~~
 17 ~~issues and concerns related to the school's (of zone) inability to meet the student's~~
 18 ~~individual needs.~~
 19 ~~c. The Special Education Department shall determine the reason the school of zone is~~
 20 ~~unable to meet the student's needs and make recommendations for correcting those~~
 21 ~~problems.~~

- 22
 23 ~~2. Students who are in an out-of-zone school in school year 2001-02 may continue to attend that~~
 24 ~~school until they would naturally transition to the next school (i.e., elementary to middle school~~
 25 ~~or middle school to high school) if the IEP Team feels the current school is the best placement~~
 26 ~~for this student.~~

- 27 ~~a. If the IEP Team determines that changing schools would be harmful to students age 19~~
 28 ~~and older who are currently in an out-of-zone school, those students may remain at that~~
 29 ~~school until they exit school at age 22. The law requires IEP Teams to consider if a~~
 30 ~~placement would have harmful effects on a student. Harmful effects can include loss of~~
 31 ~~familiar surroundings, teachers and/or routine and loss of friends.~~

- 32
 33 ~~3. The Williamson County School System shall be responsible to transport students with~~
 34 ~~disabilities to the educational and/or vocational destination as required by their IEP unless the~~
 35 ~~parents/legal guardians of said student choose to provide the student with transportation.~~

36
 37 ~~The WCS Transportation Director will endeavor to shall ensure that the vehicles used to~~
 38 ~~transport our students provide special transportation to students with disabilities are well~~
 39 ~~maintained per manufacturer's recommendation, meet applicable state and federal guidelines~~
 40 ~~set forth by the Federal Government, and are properly equipped to handle the needs of students~~
 41 ~~with disabilities. All drivers of special transportation buses shall be employees of WCS unless~~
 42 ~~specifically approved by the WCS Transportation Director and the Executive Director for~~
 43 ~~Student Support Services. The Transportation Director will use only experienced drivers who~~
 44 ~~have had satisfactory results been screened for drugs on drug screens, criminal background~~
 45 ~~screening, and driving record screening. and hold CPR certification. All drivers of special~~
 46 ~~transportation buses shall maintain a current and valid certification in CPR. These drivers must~~

1 ~~be employees of Williamson County Schools. If the IEP of the student with disabilities requires~~
2 ~~an aide to accompany the driver, the Transportation Manager will assign a Williamson County~~
3 ~~School employee to this task. The Williamson County School System is prohibited from~~
4 ~~contracting the transportation of students with disabilities with any 3rd party carrier unless~~
5 ~~approved for an individual instance by the Transportation Manager and the Director of Special~~
6 ~~Education.~~

Williamson County Board of Education

Monitoring: Review: Annually, in January	Descriptor Term: Evaluation	Descriptor Code: 5.109	Issued Date: Click here to enter a date.
		Rescinds: 5.109	Issued: 11/26/12

1 All employees are to be evaluated annually. Educators in Williamson County will be evaluated using a
2 state approved and Board approved model for local evaluation.

3 An evaluator team may be involved for educator evaluations at the Principal's discretion. Evaluation
4 shall be for the purpose of improving instruction and ensuring competent and effective performance. A
5 portion of the evaluation will include specific student performance objective data.

6 ~~APPRENTICE/TRANSITIONAL LICENSED TEACHERS~~

7 ~~Apprentice/Transitional~~ Licensed teachers shall be evaluated each year according to the Tennessee State
8 Board of Education evaluation policy with the annual evaluation to be completed by ~~May 15 the last~~
9 ~~teacher workday. At least one formal observation must be performed by the Principal. The remainder~~
10 ~~may be performed by the Principal or a designee who has passed the TEAM certification test.~~
11 ~~Observations shall only be conducted by state certified observers for the school year in which the~~
12 ~~evaluation is taking place.~~

13 If any observer who is a Principal's designee notes a deficiency during any observation, they shall
14 immediately provide a copy of the observation to the Principal. The Principal shall take appropriate
15 action, depending on the nature of the deficiency noted, up to and including issuing a Notice of
16 Deficiency and Improvement Plan.

17 ~~PROFESSIONAL LICENSED TEACHERS~~

18 ~~Professional licensed teachers shall be evaluated each year with the annual evaluation to be completed~~
19 ~~by May 15. At least one formal observation must be performed by the Principal. The remainder may be~~
20 ~~performed by the Principal or a designee who has passed the TEAM certification test.~~

21 ~~If any observer who is a Principal's designee notes a deficiency during any observation, they shall~~
22 ~~immediately provide a copy of the observation to the Principal. The Principal shall take appropriate~~
23 ~~action, depending on the nature of the deficiency noted, up to and including issuing a Notice of~~
24 ~~Deficiency and Improvement Plan.~~

Legal References

1. TCA 49-5-5202, 5203, 5204, 5205
2. TCA 49-5-5206(b), and 5206(c)

Cross References

Evaluations of Instructional Programs 4.702

- 3. TRR/MS 0520-02-.01-02
- 4. SBE 5.201

- Job Descriptions 5.103
- Orientation and Probation 5.107

1320 West Main Street, Suite 202
 Franklin, TN 37064-3700
 (615) 472-4000
 fax (615) 472-4190



To: Leslie Holman *LCH*
 From: Kirk Elliott
 Date: December 19, 2019
 RE: Purchasing Report

Contains bid projects for the months of November and December 2019

The following is a summary of pertinent bid data for inclusion with the Board Materials to be reviewed at the next meeting. The summary is in order of ascending bid sequence numbers and not necessarily by date. Pursuant to Board Policy this summary reports recent RFB's (Request for Bids) and RFP's (Request for Proposals) that were administered by the WCS Purchasing Department. As always any purchasing - bid project that may require Board action should appear on the Board Agenda. The projects listed below do not require Board action at the present time and are listed here for your information. If further details are needed please contact the Purchasing Department to review any of the related bid - project files. In addition to the projects listed in this monthly report the WCS Purchasing Department continues to review, approve and process numerous daily purchase orders that encompass day to day operations as well as negotiate renewals of previously bid contracts.

RFB #1190	Asphalt - Paving Unit Price Maintenance & Repairs	
Project	This project solicited bids for a Unit Price Maintenance and Repairs Contract.	
Department/Asst Director	Maintenance, Phil Devine	
Advertised	Tuesday, October 15, 2019 in the Tennessean	
Bid Opening	Friday, November 8, 2019 at 10:30 a.m.	
Bidders Solicited for this Project	Name of Company	Bid Amount
	Eutaw Constructor	
	Flow Construction	
	Four Star Paving	
	Gibbs Brothers	\$744,915.00
	Jarrett Builders	\$1,007,162.00
	Jones Brothers	
	Oakley Construction	
	Pave Coat Wieland	
	Pride Concrete & Construction	
	Rogers Group	
	Sessions Paving	\$1,072,741.00
	Tennessee Valley Paving	
Awarded	Gibbs Brothers	

RFB #1191	Construction of Vestibules at Independence and Ravenwood High Schools.	
Project	This project solicited bids for construction of vestibules at Independence and Ravenwood High Schools. The project consists of Security updates and new construction in the school vestibules.	
Department/Asst Director	Maintenance, Phil Devine	
Advertised	Wednesday, October 30, 2019 in the Tennessean	
Bid Opening	Tuesday, November 19, 2019 at 2:30 p.m.	
Bidders Solicited for this Project	Name of Company	Bid Amount
	Baron Construction	
	Cumberland Valley Constructors	
	Deangelis Diamond Construction	
	Doster Construction	
	Dowdle Construction	
	Fellowship Construction	
	Hardaway Construction	
	Hardcastle Construction	
	Holt Construction Group	
	Pride Concrete	
	R. C. Matthews	
	R. G. Anderson	
	Rock City Construction	
	Romach, Inc.	\$57,215.00
Sain Construction		
Southeast Construction		
Southland Construction		
Awarded	Romach, Inc.	

RFB #1193	Soccer Field Seating at Summit High School & Brentwood High School	
Project	This project solicited bids for construction of soccer field seating at SHS and BHS.	
Department/Asst Director	Maintenance, Phil Devine	
Advertised	Friday, November 15, 2019 in the Tennessean	
Bid Opening	Tuesday, December 17, 2019 at 10:30 a.m.	
Bidders Solicited for this Project	Name of Company	Bid Amount
	Baron Construction	
	Biscan Construction	
	Dowdle Construction	
	Fellowship Construction	
	R. G. Anderson	
	Rock City Construction	
	Romach, Inc.	\$171,616.00
	Sain Construction	
	Southeast Construction	
	Southland Construction	
Stubbs Construction Services, LLC	\$287,410.00	
Possible Pending Award	Romach, Inc.	

RFB #1194	New General Ed and Special Ed School Buses	
Project	This project was to solicit bids for the purchase of various types of new school buses. Buses are for both growth and replacement.	
Department/Director	Transportation, Jeff Fuller	
Advertised	Friday, November 22, 2019 in the Tennessean	
Bid Opening	Monday, December 16, 2019 at 2:30 p.m.	
Bidders Solicited for this Project	Name of Company	Bid Amount
	Central States Bus Sales Inc.	84 pass=\$103,689 78 pass=\$97,769 Spec Ed=NO BID
	Cumberland International	84 pass=NO BID 78 pass=\$89,847.28 Spec Ed=\$110,344.23
	Mid South Bus Center	84 pass=\$99,200 78 pass=\$93,700 Spec Ed=\$102,775.00
Possible Pending Award	Mid South Bus Center and possibly Cumberland International if some 78 passenger units are selected.	

To: Williamson County Board of Education
From: Leslie C. Holman, Asst. Superintendent/CF0
Subject: End of Month Financials
Date: 01/08/2020

LCH



Please find attached the activity statements for all of our funds for **December 2019**. These statements are pre reconciliation with trustee and do not reflect most current property tax information.

If you have any further questions, please call me at 472-4022

01/08/2020 14:37
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Williamson County Schools
YTD - DECEMBER PRIOR TO TRUSTEE REPORT

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FOR 2020 06

ACCOUNTS FOR: 141	GENERAL PURPOSE SCHOOL	ORIGINAL APPROP	REVISED BUDGET	YTD ACTUAL	MTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
40000	REVENUES	-362,038,026	-363,762,034	-114,226,079.35	-19,456,602.11	.00	-249,535,955.08	31.4%
71100	REGULAR INSTRUCTION	183,591,584	189,500,023	72,888,364.53	14,621,339.01	187,373.70	116,424,284.77	38.6%
71150	ALTERNATIVE INSTRUCTION	682,052	682,052	242,557.13	48,498.71	6,065.55	433,429.32	36.5%
71200	SPECIAL EDUCATION INSTRUCTION	52,561,802	55,194,362	22,227,866.72	4,461,619.91	1,036,398.43	31,930,096.85	42.1%
71300	CAREER AND TECHNICAL EDUCATIO	7,434,885	7,584,015	3,094,819.70	563,822.32	139,719.74	4,349,475.56	42.6%
71400	STUDENT BODY EDUC PRGM	1,850,000	1,850,000	851,439.30	150,297.76	213,047.13	785,513.57	57.5%
72110	ATTENDANCE	508,299	526,399	247,224.16	41,150.73	.00	279,174.84	47.0%
72120	HEALTH SERVICES	5,615,854	6,162,155	2,528,549.38	526,242.31	8,587.13	3,625,018.49	41.2%
72130	OTHER STUDENT SUPPORT	11,387,189	12,763,925	4,809,491.39	989,142.43	949,615.84	7,004,817.77	45.1%
72210	INSTRUCTION SUPPORT	12,157,740	12,547,385	5,470,297.07	988,991.07	59,937.51	7,017,149.95	44.1%
72215	ALTERNATIVE SUPPORT	207,080	207,580	102,620.33	17,104.56	.00	104,959.67	49.4%
72220	SPECIAL EDUCATION SUPPORT	6,216,644	6,766,515	2,890,264.02	652,636.87	404,839.61	3,471,411.37	48.7%
72230	CAREER/TECH EDUC SUPPORT	281,480	327,722	151,818.82	27,204.99	3,090.75	172,812.82	47.3%
72250	TECHNOLOGY	8,118,056	8,148,056	3,983,051.87	574,184.92	682,589.69	3,482,414.44	57.3%
72310	BOARD OF EDUCATION	16,695,037	6,435,115	1,895,865.56	30,412.08	113,707.75	4,425,541.69	31.2%
72320	OFFICE OF SUPERINTENDENT	1,596,660	1,658,375	700,910.30	125,183.29	6,065.34	951,399.28	42.6%
72410	OFFICE OF PRINCIPAL	24,396,215	24,788,515	11,393,806.24	2,044,596.54	.00	13,394,708.76	46.0%
72510	FISCAL SERVICES	1,663,518	1,743,498	909,582.34	131,427.73	9,606.68	824,308.98	52.7%
72520	HUMAN SERVICES/PERSONNEL	1,515,316	1,605,046	693,397.93	119,889.34	182,758.67	728,889.40	54.6%
72610	OPERATION OF PLANT	18,541,832	18,566,832	8,915,131.38	939,811.34	4,052,784.55	5,598,916.07	69.8%
72620	MAINTENANCE OF PLANT	9,602,764	10,325,502	4,223,884.62	603,570.74	1,527,459.24	4,574,158.57	55.7%
72710	TRANSPORTATION	19,842,348	19,856,611	8,419,593.65	1,418,955.42	404,559.27	11,032,458.08	44.4%
73300	COMMUNITY SERVICES	973,220	1,043,470	491,219.55	149,516.49	65,415.70	486,834.75	53.3%
73400	EARLY CHILDHOOD/PRE K	808,756	898,297	353,760.39	70,745.86	3,682.72	540,853.89	39.8%
TOTAL GENERAL PURPOSE SCHOOL		24,210,305	25,419,416	43,259,437.03	9,839,742.31	10,057,305.00	-27,897,326.19	209.7%
TOTAL REVENUES		-362,038,026	-363,762,034	-114,226,079.35	-19,456,602.11	.00	-249,535,955.08	
TOTAL EXPENSES		386,248,331	389,181,450	157,485,516.38	29,296,344.42	10,057,305.00	221,638,628.89	

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Williamson County Schools
YTD - DECEMBER PRIOR TO TRUSTEE REPORT

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FOR 2020 06

ACCOUNTS FOR: 142 SCHOOL FEDERAL PROJECTS	ORIGINAL APPROP	REVISED BUDGET	YTD ACTUAL	MTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
40000 REVENUES	-8,557,973	-10,426,111	-3,803,754.71	-753,746.52	.00	-6,622,356.65	36.5%
71100 REGULAR INSTRUCTION	676,173	896,059	284,020.99	56,626.87	11,731.22	600,306.66	33.0%
71200 SPECIAL EDUCATION INSTRUCTION	4,586,954	5,625,286	2,308,908.24	458,185.52	141,866.99	3,174,510.43	43.6%
71300 CAREER AND TECHNICAL EDUCATIO	195,858	196,796	66,099.31	1,766.33	59,670.96	71,025.30	63.9%
72120 HEALTH SERVICES	672,874	819,989	337,445.47	65,824.13	.00	482,543.53	41.2%
72130 OTHER STUDENT SUPPORT	1,244,619	208,379	42,315.15	5,975.09	2,513.50	163,550.13	21.5%
72210 INSTRUCTION SUPPORT	471,672	757,126	177,052.43	34,963.37	1,932.00	578,141.37	23.6%
72220 SPECIAL EDUCATION SUPPORT	433,807	604,348	261,627.83	46,959.08	29,185.98	313,534.19	48.1%
72230 CAREER/TECH EDUC SUPPORT	14,461	14,461	4,177.28	588.78	.00	10,283.72	28.9%
72710 TRANSPORTATION	1,000	1,600	182.96	108.36	.00	1,417.04	11.4%
99100 TRANSFERS OUT	260,555	1,302,069	342,771.96	81,687.63	.00	959,296.72	26.3%
TOTAL SCHOOL FEDERAL PROJECTS	0	0	20,846.91	-1,061.36	246,900.65	-267,747.56	100.0%
TOTAL REVENUES	-8,557,973	-10,426,111	-3,803,754.71	-753,746.52	.00	-6,622,356.65	
TOTAL EXPENSES	8,557,973	10,426,111	3,824,601.62	752,685.16	246,900.65	6,354,609.09	

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Williamson County Schools
YTD - DECEMBER PRIOR TO TRUSTEE REPORT

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FOR 2020 06

ACCOUNTS FOR: 143 CENTRAL CAFETERIA	ORIGINAL APPROP	REVISED BUDGET	YTD ACTUAL	MTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
40000 REVENUES	-13,480,000	-13,480,000	-6,311,642.86	-241,923.70	.00	-7,168,357.14	46.8%
73100 FOOD SERVICE	13,883,216	13,883,216	6,428,846.61	1,108,457.76	2,968,990.25	4,485,379.14	67.7%
TOTAL CENTRAL CAFETERIA	403,216	403,216	117,203.75	866,534.06	2,968,990.25	-2,682,978.00	765.4%
TOTAL REVENUES	-13,480,000	-13,480,000	-6,311,642.86	-241,923.70	.00	-7,168,357.14	
TOTAL EXPENSES	13,883,216	13,883,216	6,428,846.61	1,108,457.76	2,968,990.25	4,485,379.14	

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Williamson County Schools
YTD - DECEMBER PRIOR TO TRUSTEE REPORT

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ACCOUNTS FOR: 146	EXTENDED SCHOOL PROGRAM	ORIGINAL APPROP	REVISED BUDGET	YTD ACTUAL	MTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
40000	REVENUES	-6,595,000	-6,595,000	-3,079,659.37	-3,666.73	.00	-3,515,340.63	46.7%
73300	COMMUNITY SERVICES	6,901,113	6,901,113	3,348,776.94	469,706.63	199,113.42	3,353,222.64	51.4%
99100	TRANSFERS OUT	165,145	165,145	.00	.00	.00	165,145.00	.0%
TOTAL EXTENDED SCHOOL PROGRAM		471,258	471,258	269,117.57	466,039.90	199,113.42	3,027.01	99.4%
TOTAL REVENUES		-6,595,000	-6,595,000	-3,079,659.37	-3,666.73	.00	-3,515,340.63	
TOTAL EXPENSES		7,066,258	7,066,258	3,348,776.94	469,706.63	199,113.42	3,518,367.64	

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Williamson County Schools
YTD - DECEMBER PRIOR TO TRUSTEE REPORT

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FOR 2020 06

ACCOUNTS FOR: 177	EDUCATION CAPITAL PROJECTS	ORIGINAL APPROP	REVISED BUDGET	YTD ACTUAL	MTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
40000	REVENUES	-343,792,720	-742,250,616	-749,902,131.89	-107,187.36	.00	7,651,516.18	101.0%
82330	OTHER DEBT SERVICE	0	2,400,000	2,400,000.00	.00	.00	.00	100.0%
91300	EDUCATION CAPITAL OUTLAY	548,426,658	766,999,720	644,665,373.51	10,502,319.39	76,830,176.68	45,504,169.53	94.1%
	TOTAL EDUCATION CAPITAL PROJECTS	204,633,938	27,149,104	-102,836,758.38	10,395,132.03	76,830,176.68	53,155,685.71	-95.8%
	TOTAL REVENUES	-343,792,720	-742,250,616	-749,902,131.89	-107,187.36	.00	7,651,516.18	
	TOTAL EXPENSES	548,426,658	769,399,720	647,065,373.51	10,502,319.39	76,830,176.68	45,504,169.53	

School Board Overnight Field Trip Report

Trip ID	Trip Date	Return Date	Approved	Origin	Trip Name	Trip Type	Activity Type	#	Destination
26458	11/25/2019	11/29/2019	11/11/2019	Brentwood High	Band Chicago	Band Trip	Parades	98	Chicago, IL
	Notes/Fees <i>Optional Field trip. No Driver Needed</i>								
25382	11/29/2019	11/30/2019	11/7/2019	Brentwood High	Basketball game	Athletic Trip	9th - 12th grade	20	Cane Ridge High School
	Notes/Fees <i>No Costno bus needed</i>								
26590	12/6/2019	12/7/2019	11/25/2019	Brentwood High	BHS Wrestling @Huntsville	Athletic Trip	Varsity Wrestling	0	Huntsville High School
	Notes/Fees <i>No Cost, No driver needed 2 day over night tournament</i>								
26591	12/13/2019	12/14/2019	12/3/2019	Brentwood High	BHS @ Cleveland Duals	Athletic Trip	Varsity Wrestling	20	Cleveland High School
	Notes/Fees <i>No Cost. Request Driver JamesTournament is on Saturday in Cleveland, with an early start. We will leave Friday. Please send bus as soon as possible</i>								
25389	1/4/2020	1/5/2020	11/7/2019	Brentwood High	Basketball game	Athletic Trip	9th - 12th grade	20	McEachern High School
	Notes/Fees <i>No Costno bus needed</i>								
26599	2/20/2020	2/22/2020	11/25/2019	Brentwood High	BHS Wrestling @ State	Athletic Trip	Varsity Wrestling	0	Williamson Co Agricultural Center
	Notes/Fees <i>No Cost for AthletesState Tournament 3 days</i>								
21616	12/26/2019	12/29/2019	12/4/2019	Centennial High	Centralia Holiday Tournament	Athletic Trip	Varsity Boys Basketb	20	Fort Walton Beach High
	Notes/Fees <i>No Cost. No Driver or bus needed</i>								
25341	1/9/2020	1/11/2020	12/3/2019	Centennial High	HMS MIDSTATE BAND	Band Trip		4	Embassy Suites Murfreesboro
	Notes/Fees <i>No Cost - Transportation by charter bus</i>								
26569	1/17/2020	1/18/2020	12/6/2019	Centennial High	ThesCon 2020	Academic Field Trip	9th - 12th grade	40	MTSU
	Notes/Fees <i>over100 - \$150 total cost per child.</i>								
26477	1/30/2020	2/3/2020	12/6/2019	Centennial High	National Dance Competition	Athletic Trip	Dance Team	16	Disney World
	Notes/Fees <i>No Cost. No Bus Needed.</i>								
26626	1/17/2020	1/18/2020	12/8/2019	Fairview High	WRESTLING	Athletic Trip	Varsity Wrestling	14	GREENVILLE HIGH SCHOOL
	Notes/Fees <i>No Cost. No bus needed. Will leave FVHS 5:00 pm, stay overnight, return 1/18/20 11:30 pm.</i>								
25255	12/20/2019	12/21/2019	12/2/2019	Franklin High	Bradley wrestling tournament	Athletic Trip	Varsity Wrestling	20	Bradley Central High School
	Notes/Fees <i>No Cost to students</i>								
26429	1/3/2020	1/4/2020	12/20/2019	Franklin High	Father Ryan Tournament	Athletic Trip	Varsity Wrestling	14	Father Ryan High School
	Notes/Fees <i>No cost</i>								
26738	1/16/2020	1/18/2020	12/18/2019	Franklin High	FHS Orchestra Mid State	Band Trip	Strings	9	Blackman HS
	Notes/Fees <i>over100 - \$110 Students will be meeting at RHS with all WCS Orchestra students participating in MTSBOA Mid State Weekend. No school bus needed.</i>								
26745	1/9/2020	1/11/2020	1/8/2020	Grassland Middle	MTSBOA Mid-State Band	Band Trip	7th grade	5	MTSU
	Notes/Fees <i>\$35.00 per student. WCS Band Director Group reserves charter buses and have already put a deposit down for all MS and HS kids participating in the event. We will not need county transportation. This submission is just for approval to go. GMS had 6 students earn a spot in the event and will be traveling to MTSU for the event. We will be staying in the Embassy Suites (WCS has a room block) and transporting students back and forth from hotel to rehearsal locations at Oakland MS & HS. Students perform at MTSU Saturday morning. I can submit an itinerary for the weekend if need be. Please just let me know if you need that. Thank you!</i>								
26557	12/6/2019	12/7/2019	12/3/2019	Independence High	Wrestling	Academic Field Trip	Varsity Wrestling	30	Huntsville High School
	Notes/Fees <i>No Cost</i>								
26558	12/13/2019	12/14/2019	12/3/2019	Independence High	Wrestling	Academic Field Trip	Varsity Wrestling	30	Tullahoma High School
	Notes/Fees <i>No Cost</i>								
26494	12/20/2019	12/21/2019	11/13/2019	Independence High	Wrestling	Academic Field Trip	Varsity Wrestling	30	Berkmar High School
	Notes/Fees <i>No Cost</i>								
26560	1/10/2020	1/11/2020	12/6/2019	Independence High	Wrestling	Academic Field Trip	Varsity Wrestling	30	SCIENCE HILL HIGH SCHOOL
	Notes/Fees <i>No CostNO BUS</i>								
26517	1/17/2020	1/20/2020	12/6/2019	Independence High	Thespian Conference	Academic Field Trip	Drama	60	Hampton Inn & Suites Murfreesboro
	Notes/Fees <i>No Cost - We've done this trip the last few years. This year will be similar (and the other WCS high schools are also attending). Students will be picked up from the school on Friday, taken to MTSU, picked up from MTSU and taken to hotel. Be picked up from hotel Saturday morning and taken to MTSU. In the evening, students will be picked up, taken to dinner and then back to hotel. On Sunday, students will be picked up from</i>								

School Board Overnight Field Trip Report

Trip ID	Trip Date	Return Date	Approved	Origin	Trip Name	Trip Type	Activity Type	#	Destination
26517	1/17/2020	1/20/2020	12/6/2019	Independence High	Thespian Conference	Academic Field Trip	Drama	60	MTSU
<i>hotel and taken back to IHS.</i>									
Notes/Fees <i>No Cost - We've done this trip the last few years. This year will be similar (and the other WCS high schools are also attending). Students will be picked up from the school on Friday, taken to MTSU, picked up from MTSU and taken to hotel. Be picked up from hotel Saturday morning and taken to MTSU. In the evening, students will be picked up, taken to dinner and then back to hotel. On Sunday, students will be picked up from hotel and taken back to IHS.</i>									
26451	3/11/2020	3/14/2020	11/18/2019	Independence High	ACDA Convention	Academic Field Trip	Chorus/Choir	1	MOBILE CONVENTION CENTER
Notes/Fees <i>No Cost - Student was selected for the American Choral Director's Association (ACDA) Southern Division Honor Choir after a successful audition. Student will have parent chaperone who will be providing transportation and accommodations.</i>									
25124	11/14/2019	11/15/2019	11/14/2019	Mill Creek Middle	WCS MS HONOR ORCHESTRA	Band Trip	Strings	5	Centennial High
Notes/Fees <i>No Cost. NO TRANSPORTATION NEEDED.</i>									
26694	1/9/2020	1/11/2020	1/6/2020	Mill Creek Middle	Mid-State Honor Band	Band Trip	Concert	2	Embassy Suites
Notes/Fees <i>NO COST TO STUDENT</i>									
26694	1/9/2020	1/11/2020	1/6/2020	Mill Creek Middle	Mid-State Honor Band	Band Trip	Concert	2	Middle Tennessee State University
Notes/Fees <i>NO COST TO STUDENT</i>									
24917	2/14/2020	2/15/2020	12/6/2019	Nolensville High School	NHSwr22	Athletic Trip	Varsity Wrestling	30	East Ridge High School
Notes/Fees <i>No Cost. no details on weigh ins yet. But I would assume we will need to leave around Noon on Friday, TSSAA Regional tournament.</i>									
26824	2/26/2020	2/29/2020	1/7/2020	Nolensville High School	NHS THEATRE - SETC	Academic Field Trip	Drama	36	Kentucky International Convention Ce
Notes/Fees <i>No Cost. I will provide a detailed itinerary for our trip with our principal. I was unable to put in all the details as the system kept closing out during the process of data entry.</i>									
26824	2/26/2020	2/29/2020	1/7/2020	Nolensville High School	NHS THEATRE - SETC	Academic Field Trip	Drama	36	The Galt House Hotel
Notes/Fees <i>No Cost. I will provide a detailed itinerary for our trip with our principal. I was unable to put in all the details as the system kept closing out during the process of data entry.</i>									
26831	1/4/2020	1/5/2020	1/7/2020	Page High	band trip	Band Trip	9th - 12th grade	30	Six Flags Over Georgia
Notes/Fees <i>No Cost.</i>									
26692	2/27/2020	3/1/2020	12/16/2019	Page High	Youth in Government	Academic Field Trip	Youth in Government	15	TN Capital Bldg
Notes/Fees <i>over100 \$350 per student which covers their registration fees and hotel rooms</i>									
25426	1/6/2020	1/24/2020	11/8/2019	Pearre Creek Elementary	Skate Time	Academic Field Trip	School Wide	650	Pearre Creek Elementary School
Notes/Fees <i>\$9.00 per student. The skating will be offered for all students in grades K-5 in our gym- No transportation needed.</i>									
25073	11/15/2019	11/16/2019	11/11/2019	Ravenwood High	Farragut Wrestling Tournament	Athletic Trip	9th - 12th grade	40	Country Inn & Suites
Notes/Fees <i>My Cell is 360-607-9291</i>									
25073	11/15/2019	11/16/2019	11/11/2019	Ravenwood High	Farragut Wrestling Tournament	Athletic Trip	9th - 12th grade	40	Farragut High School
Notes/Fees <i>My Cell is 360-607-9291</i>									
25073	11/15/2019	11/16/2019	11/11/2019	Ravenwood High	Farragut Wrestling Tournament	Athletic Trip	9th - 12th grade	40	Ravenwood High
Notes/Fees <i>My Cell is 360-607-9291</i>									
26688	1/17/2020	1/18/2020	12/8/2019	Renaissance High School	ThesCon Trip	Band Trip	Drama	4	Middle Tennessee State University
Notes/Fees <i>over100 - \$110 per student. Students paid \$75 for the registration for the conference. Additional \$35 will cover the cost of the one night in a hotel.</i>									
26621	1/30/2020	1/31/2020	12/6/2019	Summit High	U of M Honor Choir	Academic Field Trip	Chorus/Choir	8	University of Memphis
Notes/Fees <i>No Cost. No driver needed.</i>									
25070	11/14/2019	11/15/2019	11/13/2019	Sunset Middle	Honors SMS	Band Trip	8th grade	14	Centennial High
Notes/Fees <i>No Cost We do not need WC school buses</i>									

Operations/Facilities & Construction
1320 West Main Street, Suite 202
Franklin, TN 37064-3700
Tel. (615)-472-4040
Fax (615) 472-5621



To: Kevin Fortney, Director of Facilities & Construction
CC: Mark Samuels, Asst. Supt. of Operations
From: Garri Hall, Project Manager of Facilities & Construction
Date: January 6, 2020
RE: Facilities and Construction Project Status Updates

Central East Middle School

Notice to Proceed: July 30, 2019

Substantial Completion: June 28, 2020

- Contractor is in the process of completing the following site work:
 - Grading for the widening work on Henpeck Lane is ongoing
 - Pavement for road widening has started in front of school
- Building area work:
 - Exterior brick is being set in Areas A, B, F
 - Concrete slabs on first are complete, second floor is 60% complete
 - Contractor has set all precast planks on second floor
 - Trusses for areas A&G have begun
 - All MEP under slab work has been completed
 - In wall rough of MEP continues on first and second floor
 - Interior walls on first and second floor continues
 - Above ceiling MEP first floor is ongoing
 - Geothermal wells in the east parking lot location are complete, north field continues
 - Exterior CMU block continues in areas D&E



Roof decking on A has begun



Roof trusses in A continue

Operations/Facilities & Construction
1320 West Main Street, Suite 202
Franklin, TN 37064-3700
Tel. (615)-472-4040
Fax (615) 472-5621



Roof trusses over the gym have begun



Plumbing rough-in on second floor cont.

Independence High School Addition

Notice to Proceed: April 8, 2019

Substantial Completion: February 6, 2020

- MEP is approximately 98%
- Ceiling grid is complete on first and second floor
- VCT is complete throughout building, waxing has begun in classrooms
- Lockers have been installed
- All casework has been installed
- Stonehard flooring installed in restrooms
- ADA ramp at NE end of building is complete
- Exterior handrails have been installed and painted
- Landscaping and sod around the building is 90% complete
- Adverse weather has affected the overall schedule



New entrance facing front parking lot



Typical classroom

Operations/Facilities & Construction
1320 West Main Street, Suite 202
Franklin, TN 37064-3700
Tel. (615)-472-4040
Fax (615) 472-5621



Typical Lab



First floor hallway

Creekside Elementary School

Notice to Proceed: January 9, 2019

Completion January 15, 2020

- Rainy and cold weather has negatively affected the progress on the project
- The building has permanent power
- Roadway widening is complete
- Parking lots have been paved, stripping has begun on north end
- Wastewater treatment plant is complete and commissioned
- Casework installed in all classrooms
- All interior doors and hardware have been installed
- Playground equipment has been installed
- First floor furniture has been placed in classrooms and offices, second floor has started and expected to be completed by January 5, 2020
- VCT flooring is complete, waxing of floors continues on second floor
- SFM inspection is scheduled for January 7, 2020
- Teachers on first floor scheduled to setup classrooms starting Thursday January 9, 2020, second floor teachers are schedule Monday January 13, 2020. This schedule is contingent on SFM inspection
- Landscaping is complete

Operations/Facilities & Construction
1320 West Main Street, Suite 202
Franklin, TN 37064-3700
Tel. (615)-472-4040
Fax (615) 472-5621



Playground equipment is installed



Second floor hallway ready for wax



Gymnasium



Library



Front of Building



Page Middle School Phase 1

Notice to Proceed: August 2, 2018

Completion Date: December 20, 2019

- Project is complete
- The building has been turned over to staff and they have started occupying the building
- There is still some site work that need to be addressed in the front parking lot
- Building will be occupied by students and staff on January 6, 2020

Page Middle School Phase 2

Notice to Proceed: January 13, 2020

Substantial Completion: March 8, 2021

- Contractor has mobilized on the site
- Existing building to be demolished has been cleared of all WCS equipment, furniture and materials
- Teachers and students have been moved to new building
- Contractor has materials on site to build temporary walls between active building and construction zone
- A Demo meeting was held 12/23/2019
- Notice to Proceed will be issued January 13, 2020

Page High School Phase 2

Notice to Proceed: January 6, 2020

Substantial Completion: April 30, 2021

- Contractor has begun placement of fence around construction zone
- Contractor has begun marking the geothermal wells
- Temporary construction area has been established
- Bus traffic loading and drop-off has been established
- Contractor has removed concrete medians in the parking lot to accommodate revised parking plan

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Franklin, TN 37064-3700
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Fence poles and gate being installed



Construction area



Brentwood High School Phase 3 – Administration & Guidance Building Addition

Current Status: Final Design

Bid Date: TBD

Completion Date: TBD

Designer GMC Architects

- Meet with GMC to review final design on January 7, 2020
- Provided all is satisfactory the project will be advertised for bid in February 2020
- Tentative completion date to be June 2021

Franklin High School Athletic Building Renovation and New Concession/Restroom

Notice to Proceed: December 2, 2019

Substantial Completion: September 30, 2020

- Exterior demolition of existing structures is 100% complete
- Interior demo is 90% complete
- Building pad for athletic building has started
- Underground plumbing has begun
- Demolition of concession and restroom buildings is complete



Building pad for athletic expansion



Interior demo of athletic building

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Underground plumbing



Location of new concession building

Sunset Middle School Auditorium

Bid Date: To be determined

Completion: To be determined

- Design has been approved by SFM office
- Submitted drawings to the Town of Nolensville for review and building permit.
- Goal is to bid the project the first week of February 2020

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Land Search

The district continues to search for new school sites. Sites have been identified for the proposed east and south elementary schools. Appraisals have been ordered and when completed our consultants will follow up with the required surveys, soil testing, and other due diligence studies.

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MEMORANDUM

TO: Williamson County School Board

FROM: Dr. David Allen, Assistant Superintendent of Teaching, Learning and Assessment

DATE: January 2020

RE: Strategic Plan Update
Strategic Commitment: I
Goal: 2
Action Step: 8 Select subgroup of Aps for Aspiring Principals Academy and 9 Implement inaugural Aspiring Principals Academy.

Status Report:

Target Date of January 2020

This action step is no longer relevant or needed to serve the purpose of the goal. The intention of these two steps was to create a small group of Assistant Principals who showed the greatest potential to move into a Principal role and provide them with targeted professional development and mentoring to prepare them for that step. Our Assistant Superintendents for Secondary and Elementary are doing this in a different way to build capacity among all our Assistant Principals, so there isn't a need for a formal academy model to meet this goal.

Both our Secondary and Elementary Departments have implemented sustained, job-embedded professional development targeted for all WCS Assistant Principals from October through February. As the Assistant Superintendents and their Executive Directors provide the training, they build relationships and support individuals by meeting the learning needs specific to preparation for principal roles.

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MEMORANDUM

TO: Williamson County School Board

FROM: Jeremy Qualls, College, Career and Technical Education Director

DATE: December 20, 2019

RE: Strategic Plan Update
Strategic Commitment III: Preparing Students for the Future
Goal/Action 8, 2: By the end of the 2018-2019 school year WCS CTE will align the business/industry advisory council with Williamson County cluster lead teachers to establish a comprehensive menu of industry-embedded learning experiences for students in all CTE clusters

WCS CTE teachers currently hold quarterly cluster meetings involving teachers from all high schools. Within these meetings business leaders visit to discuss future workforce, employment, and opportunities for the teachers, classes, and students to be involved in Williamson County's workforce and industries.

As a part of this work, cluster leaders produce a menu of industry-embedded learning experiences, work-based learning, and other events that promote student-career awareness within our county and region. This menu continues to grow and evolve as more partnerships are formed.

