

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
EQUIPMENT AND PROCUREMENT DIVISION
BID INVITATION**

Bid Number: M-13-057P

BID OPENING LOCATION:
AHTD Equipment and
Procurement Division
11302 W. Baseline Road
Little Rock, AR 72209

MAIL TO:
AHTD Equipment and
Procurement Division
P.O. Box 2261
Little Rock, AR 72203

DELIVER TO:
AHTD Equipment and
Procurement Division
11302 W. Baseline Road
Little Rock, AR 72209

Bid Opening Date: April 16, 2013 Time: 11:00 a.m.

Sealed bids for furnishing the commodities and/or services described below, subject to the Conditions on Page 2 of this Bid Invitation will be received at the above-noted mail and delivery locations until the above-noted bid opening date and time, and then publicly opened at the above-noted bid opening location. **Bids must be submitted on this form, with attachments when appropriate, or bids will be rejected. Late bids and unsigned bids will not be considered.**

In compliance with this Bid Invitation and subject to all the Conditions thereof, the undersigned offers and agrees to furnish any and all items upon which prices are quoted, at the price set opposite each item.

Company Name: _____

Name (Type or Print): _____

Address: _____

Title: _____

Phone: _____ Fax: _____

City: _____ State: _____ Zip: _____

E-mail Address: _____

Federal Tax ID or Social Security No.: _____

Signature: _____

Signature must be legible, original (not photocopied) and in ink.
Unsigned bids will be rejected.

1. Asbestos Abatement and Demolition located at Avoca-North Garfield (U.S. Hwy. 62), Route 01 Section 02, Benton County; as per attached work list for Tracts 1XED, 2XED, 3XED, 4XED, 5XED, 7XED, 9XED, 10XED, 16XED, 17XED, 21XED, 51R, 6XR, 8X, 12X, 13X, 14X, 14XR, 15X - Job 090065.

To meet the requirements of Arkansas State Highway and Transportation Department Specifications and Drawings attached to and made a part of this bid.

LUMP SUM _____

Tracts **must** be priced individually as listed on the Work List but bid will be awarded by the Lump Sum.

Additional tracts and/or structures may be added to this contract from this job.

Pricing for Additional Pay Items is requested on Page 4.

(Additional pay item pricing will be on an as needed basis and does not obligate the Department to award any additional tracts.)

Contacts for Technical Information: Joel Clark, Property Manager (501-569-2317)

Contacts for Bidding Information: Danny Keene (501-569-2674) or Chicita Pate (501-569-2675)

Bid price shall include all labor, materials, and equipment necessary to perform the work as specified, and shall further include all licenses, fees, permits, royalties, and all taxes. Bid price shall represent full compensation for completion of the work. This provision supersedes Condition 4 on page 2 of Bid Invitation. Payment will be made in accordance with Arkansas Highway & Transportation Department Standard Specifications and Applicable Special Provisions.

Bid Bond in the amount of 5% of total bid price required of all bidders at time of bid opening or bid will be rejected. **Personal and company checks are not acceptable as Bid Bonds.** See Condition 3 on page 2 of Bid Invitation.

Performance Bond only (no checks of any kind allowed) in the amount of 100% of total bid price will be required of successful bidder prior to providing goods/services. See Condition 3 on page 2 of Bid Invitation.

The successful bidder will be required to submit Notice of Intent (NOI) to ADEQ within 3 days after receipt of Purchase Order and to complete all work within ninety (90) days from the starting date on the NOI. Work not completed within this time frame shall result in the successful bidder being charged \$120.00 per day until work is completed.

Name, Address, Phone No. of Disposal Site: _____

Bids and Specifications are available on-line by going to the AHTD Web Site – www.arkansashighways.com and clicking on “Commodities and Services Bids/Contracts Information”. Tabulations will also be available at this site within 72 hours after bid opening. If you have any questions, call this office at 501-569-2667.

(12-0152) 32-00

STANDARD BID CONDITIONS

M-13-057P

1. **ACCEPTANCE AND REJECTION:** The Arkansas State Highway and Transportation Department (AHTD) reserves the right to reject any or all bids, to accept bids in whole or in part (unless otherwise indicated by bidder), to waive any informalities in bids received, to accept bids on materials or equipment with variations from specifications where efficiency of operation will not be impaired, and to award bids to best serve the interest of the State.
2. **PRICES:** Unless otherwise stated in the Bid Invitation, the following will apply: (1) unit prices shall be bid, (2) prices should be stated in units of quantity specified (feet, each, lbs., etc.), (3) prices must be F.O.B. destination specified in bid, (4) prices must be firm and not subject to escalation, (5) bid must be firm for acceptance for 30 days from bid opening date. In case of errors in extension, unit prices shall govern. Discounts from bid price will not be considered in making awards.
3. **BID BONDS AND PERFORMANCE BONDS:** If required, a **Bid Bond** in the form of a cashier's check, certified check, or surety bond issued by a surety company, in an amount stated in the Bid Invitation, must accompany bid. **Personal and company checks are not acceptable as Bid Bonds.** Failure to submit a Bid Bond as required will cause a bid to be rejected. The Bid Bond will be forfeited as liquidated damages if the successful bidder fails to provide a required Performance Bond within the period stipulated by AHTD or fails to honor their bid. Cashier's checks and certified checks submitted as Bid Bonds will be returned to unsuccessful bidders; surety bonds will be retained. The successful bidder will be required to furnish a **Performance Bond** in an amount stated in the Bid Invitation and in the form of a cashier's check, certified check, or surety bond issued by a surety company, unless otherwise stated in the Bid Invitation, as a guarantee of delivery of goods/services in accordance with the specifications and within the time established in the bid. **Personal and company checks are not acceptable as Performance Bonds.** In some cases, a cashier's check or certified check submitted as a Bid Bond will be held as the Performance Bond of the successful bidder. Cashier's checks or certified checks submitted as Performance Bonds will be refunded shortly after payment has been made to the successful bidder for completion of all terms of the bid; surety bonds will be retained. Surety bonds must be issued by a surety company authorized to do business in Arkansas, and must be signed by a Resident Local Agent licensed by the Arkansas State Insurance Commissioner to represent that surety company. Resident Agent's Power-of-Attorney must accompany the surety bond. Certain bids involving labor will require Performance Bonds in the form of surety bonds only (no checks of any kind allowed). In such cases, the company issuing the surety bond must comply with all stipulations herein and must be named in the U. S. Treasury listing of companies holding Certificates of Authority as acceptable sureties on Federal Bonds and as acceptable reinsuring companies. Any excess between the face amount of the bond and the underwriting limitation of the bonding company shall be protected by reinsurance provided by an acceptable reinsuring company. Annual Bid and Performance Bonds on file with E & P Division must have sufficient unencumbered funds to meet current bonding requirements, or the bid will be rejected, unless the balance is submitted as set forth above, prior to bid opening.
4. **TAXES:** The AHTD is not exempt from Arkansas State Sales and Use Taxes, or local option city/county sales taxes, when applicable, and bidders are responsible to the State Revenue Department for such taxes. These taxes should not be included in bid prices, but where required by law, will be paid by the AHTD as an addition thereto, and should be added to the billing to the AHTD. The AHTD is exempt from Federal Excise Taxes on all commodities except motor fuels; and excise taxes should not be included in bid prices except for motor fuels. Where applicable, tax exemption certificates will be furnished by the AHTD.
5. **"ALL OR NONE" BIDS:** Bidders who wish to bid "All or None" on two or more items shall so stipulate on the face of bid sheet; otherwise, bid may be awarded on an individual item basis.
6. **SPECIFICATIONS:** Complete specifications should be attached for any substitution or alternate offered, or where amplification is necessary. Bidder's name must be placed on all attachments to the bid.
7. **EXCEPTIONS TO SPECIFICATIONS:** Any exceptions to the bid specifications must be stated in the bid. Any exceptions to manufacturer's published literature must be stated in the bid, or it will be assumed that bidder is bidding exactly as stated in the literature.
8. **BRAND NAME REFERENCES:** All brand name references in bid specifications refer to that commodity or its equivalent, unless otherwise stated in Bid Invitation. Bidder should state brand or trade name of item being bid, if such name exists.
9. **FREIGHT:** All freight charges should be included in bid price. Any change in common carrier rates authorized by the Interstate Commerce Commission will be adjusted if such change occurs after the bid opening date. Receipted common carrier bills that reflect ICC authorized rate changes must be furnished.
10. **SAMPLES, LITERATURE, DEMONSTRATIONS:** Samples and technical literature must be provided free of any charge within 14 days of AHTD request, and free demonstrations within 30 days, unless AHTD extends time. Failure to provide as requested within this period may cause bid to be rejected. Samples, literature and demonstrations must be substantially the same as the item(s) being bid, unless otherwise agreed to by AHTD. Samples that are not destroyed will be returned upon request at bidders expense. Samples from successful bidders may be retained for comparison with items actually furnished.
11. **GUARANTY:** Unless otherwise indicated in Bid Invitation, it is understood and agreed that any item offered or shipped on this bid shall be newly manufactured, latest model and design, and in first class condition; and that all containers shall be new, suitable for storage or shipment and in compliance with all applicable laws relating to construction, packaging, labeling and registration.
12. **BACKORDERS OR DELAY IN DELIVERY:** Backorders or failure to deliver within the time required may constitute default. Vendor must give written notice to the AHTD, as soon as possible, of the reason for any delay and the expected delivery date. The AHTD has the right to extend delivery if reasons appear valid. If reason or delivery date is not acceptable, vendor is in default.
13. **DEFAULT:** All commodities furnished will be subject to inspection and acceptance by AHTD after delivery. Default in promised delivery or failure to meet specifications authorizes the AHTD to cancel award or any portion of same, to reasonably purchase commodities or services elsewhere and to charge full increase, if any, in cost and handling to defaulting vendor. Applicable bonds may be forfeited.
14. **ETHICS:** *"It shall be a breach of ethical standards for a person to be retained, or to retain a person, to solicit or secure a State contract upon an agreement of understanding for a commission, percentage, brokerage, or contingent fee, except for retention of bona fide employees or bona fide established commercial selling agencies maintained by the contractor for the purpose of securing business."* (Arkansas Code, Annotated, Section 19-11-708).

**ARKANSAS STATE HIGHWAY
AND TRANSPORTATION DEPARTMENT**

NOTICE OF NONDISCRIMINATION

The Arkansas State Highway and Transportation (Department) complies with all civil rights provisions of federal statutes and related authorities that prohibit discrimination in programs and activities receiving federal financial assistance. Therefore the Department does not discriminate on the basis of race, sex, color, age, national origin, religion or disability, in the admission, access to and treatment in the Department's programs and activities, as well as the Department's hiring or employment practices. Complaints of alleged discrimination and inquiries regarding the Department's nondiscrimination policies may be directed to Joanna P. Nelson, Section Head - EEO/DBE (ADA/504/Title VI Coordinator), P. O. Box 2261, Little Rock, AR 72203, (501) 569-2298, (Voice/TTY 711), or the following email address: joanna.nelson@arkansashighways.com.

This notice is available from the ADA/504/Title VI Coordinator in large print, on audiotape and in Braille.

ARKANSAS STATE HIGHWAY & TRANSPORTATION DEPARTMENT
LITTLE ROCK, ARKANSAS
EQUIPMENT & PROCUREMENT DIVISION

Bid No. M-13-057P

Page 4

BIDDER: _____

ITEM NO.	DESCRIPTION	AMOUNT
1.	Asbestos Abatement	\$ _____ Square Foot
2.	Demolition	\$ _____ Square Foot
3.	Foundation	\$ _____ Linear Foot
4.	Foundation Slab	\$ _____ Square Foot
5.	Well Closure	\$ _____ Each
6.	Septic System Closure	\$ _____ Each

**PROPERTY MANAGEMENT
ASBESTOS ABATEMENT & DEMOLITION CONTRACT**

Job 090065
Avoca-North Garfield
(U.S. Hwy. 62)
Route 01 Section 02
Benton County
Tracts 1XED, 2XED, 3XED, 4XED, 5XED,
7XED, 9XED, 10XED, 16XED, 17XED, 21XED,
51R, 6XR, 8X, 12X, 13X, 14X, 14XR, 15X

Work Site Directions

Tract 1X at 14176 Sugar Creek Road, Rogers, AR 72756: Traveling northeast on I-540 to Rogers, Ar. Turn right at exit 86 onto Hwy. 62 East. Stay on Hwy. 62 East heading towards Avoca. The highway goes from a four lane with a center turn lane back to a two lane highway. As you are coming down a hill with a curve to the right you will cross a creek. Sugar Creek Road or County Road 44 on your left at centerline station 164+25 Lt. The 1-S-Concrete Block Garage is on a concrete slab is sitting at the top of the bank. Note: Extra precautions must be taken to not let the large pine tree fall that sits just north of the garage.

Tract 2X at 14214 Hwy. 62 East. The drive for this tract is approximately 400 ft. east of Tract 1X on Hwy. 62 East. At this location you should find only a concrete slab at centerline station 174+50 Lt.

All remaining tracts for this abatement/demolition job sites are on the right hand side of Hwy. 62 East.

Tract 3X at 14725 Hwy. 62 East. At this site sitting on the right hand side of Hwy. 62 is the 1-S-Metal blue and white garage building with a mechanics pit in the floor. This site is located at centerline station 215+00 Rt.

Tract 51R is at 14801 Hwy. 62 East at centerline station 231+00 Rt. This site is just east of the intersection of Hwy. 62 and Latricia Lane. A 1-S-Brick dwelling with an outbuilding, privacy fence patio and a large concrete drive pad.

Tract 4X at 14929 Hwy. 62 East. Is a 1-S-F Building with a security chain link fence along the front. Located at the centerline station 235+80 Rt.

Tract 5X at 15067 Hwy. 62 East. Here is a 1-S-F & Concrete Block Fruit Stand and greenhouse. Located at the centerline station 241+00 Rt.

Tract 6 XR at 13992 Battlefield Road at centerline station 251+00 Rt. This site is at the corner of Hwy. 62 & Battlefield Road. A 1.5+S-F Dwelling, a framed storage building and satellite dish.

Tract 7X at 15211 Hwy. 62 East. 7X sits about 250 ft east of Battlefield Road (Tract 6X) on the right side of Hwy. 62 at the centerline station 254+00 Rt.

Tract 8X is on Old Wire Road (Hwy. 62 East). Located at centerline station 262+50 Rt. Access to this 2-S-F Dwelling is best from Old Wire Road which is just west of Tract 8XR.

Tract 8XR at 15359 Hwy. 62 East. This tract is just east of (Tract 8X) and has a driveway off of Hwy. 62 at centerline station 264+00 Rt.

Travel Instructions

Tract 9X at 15467 Boundary Line Road or County Road 856. Boundary Line Road also intersects with Old Wire Road at the edge of Hwy. 62. This is a 1-S-B Dwelling with a large concrete pad in front is located at centerline station 289+00 Rt.

Tract 10X at 15813 Boundary Line Road (Old Wire Road). This site is located at centerline station 292+40 Rt. The only thing at this site should be a concrete slab next to the road.

Tract 12X is across the road just north and east of tract 10X. A 1-S-F (ruins) and has four outbuildings. It is located at centerline station 294+90 Lt. just off of the centerline.

Go back out to Hwy. 62 East and turn right. At approximately centerline station 339+00 to 341+00 Rt. sits **Tract 13X, located at 16239 Hwy. 62.** This property has (2) 1-S-F Dwellings and (1) Mobile Home and (5) outbuildings.

Tract 14X at 14454 Old Liberty Road. This is at centerline station 356+50 Rt. on the right of way plans.

Tract 15X at centerline station 387+55 Rt. on the right of way plans. The only thing at this site is a 1-S-Metal barn/shop with a concrete slab. The mobile home has been moved from the right of way. There is a concrete slab and curb at centerline station 388+35 Rt.

Tract 21X is on Alvin Seamster Road. A 1-S-F Shop Building is at right of way plan centerline station 418+00 Rt.

Tract 16X at 17781 Hwy. 62 East. The concrete slab left from the garage/shop building should be the only thing in the right of way at centerline station 429+40 Rt. The mobile home at this site has been cut-off and is not in the right of way.

Tract 18X is at 17799 Hwy. 62 East. Here you find a ridged frame metal building/garage on a concrete slab. This site is located at centerline station 435+00 Rt.

Job 090065
Avoca-North Garfield
(U.S. Hwy. 62)
Route 01 Section 02
Benton County
Tracts 1XED, 2XED, 3XED, 4XED, 5XED,
7XED, 9XED, 10XED, 16XED, 17XED, 21XED,
51 R, 6XR, 8X, 12X, 13X, 14X, 14XR, 15X

Bid Requirements

Bid price shall include all insurance, taxes, permits, ADEQ notifications, license, labor, equipment, and material necessary to complete the work. Actual quantity of material to be removed may differ slightly from the estimated amount shown above. Bid price shall reflect actual quantity of material to be removed and bidders are strongly encouraged to inspect the premises prior to bidding to verify the quantity. All asbestos abatement/demolition work must be done according to the method and requirements contained in the "SPECIAL PROVISIONS" and work list which will be attached and made a part of the bid and contract.

Contractor shall comply with all state, local and federal laws associated with this work. All structures must be completely removed, including slabs, footings, foundations, private walkways, decks, basements, posts, poles, fences within Proposed Right of Way along with all debris. Determination of the extent of work necessary for complete removal of the structures is strictly the responsibility of the bidder. Basements (pits, storm shelters, pools) **(if applicable)** will be removed, backfilled with suitable material and left level with the surrounding area. Water wells **(if applicable)** shall have equipment removed and casing securely covered for safety. Septic tanks **(if applicable)**, shall be pumped empty, removed, and void backfilled with suitable material. Contractor will be required to comply with the provisions of "Appendix A" (Required Contract Provisions Federal-Aid Construction Contracts) that will be attached and made a part of the bid and contract.

It is understood that all combustible materials, construction material and all other rubbish, including shrubbery and trees which are cut or uprooted to facilitate operations, will be cleared from the premises by the contractor and **the premises will be left in a generally level, safe, and sanitary condition, a condition in which it can be mowed and maintained safely.** The contractor shall endeavor to avoid unnecessary damage or destruction of trees, shrubs, and plants on the premises.

NOTE: CONTRACTOR MUST FILE TEN (10) DAY NOTICE WITH ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY (ADEQ); HOWEVER, BIDS SHOULD INCLUDE REGISTRATION FEE ON EACH PROJECT. Dumping of demolition waste materials shall be at a landfill permitted by the Arkansas Department of Environmental Quality (ADEQ) or at an un-permitted site approved by ADEQ. Contractor must call ONE CALL for location of other utilities at this job site.

In the event that utility service lines, meters, etc., are disconnected, destroyed or otherwise impaired in any way by reason of performance of this operation by the contractor, the contractor shall, at his own expense, be responsible for all replacement utility service in lieu of those affected. **Contractor must call ONE CALL for location of other utilities at this job site**

Contractor shall be required to hold a current license issued by the Arkansas Department of Environmental Quality for the removal of asbestos. For demolition, State law requires a contractor's license for jobs over \$20,000.00. Changes in the scope of work must have prior approval by the Departments Property Manager in order to be eligible for payment.

PROPERTY MANAGEMENT
ASBESTOS ABATEMENT & DEMOLITION CONTRACT BIDS

Job 090065
 Avoca-North Garfield
 (U.S. Hwy. 62)
 Route01 Section 02
 Benton County
 Tracts 1XED, 2XED, 3XED, 4XED, 5XED,
 7XED, 9XED, 10XED, 16XED, 17XED, 21XED,
 51 R, 6XR, 8X, 12X, 13X, 14X, 14XR, 15X

Work List of Project

<u>Tract 1XED, 14176 Sugar Creek Rd.</u>	<u>Unit Price</u>	<u>Extended Price</u>
NO ABATEMENT NECESSARY:		
Demolition:		
336 SF 1-S-Concrete Block Garage Building	\$ _____ /SF	\$ _____
Total Demolition Tract 1X		\$ _____

<u>Tract 2XED, 14214 Hwy. 62 East</u>	<u>Unit Price</u>	<u>Extended Price</u>
NO ABATEMENT NECESSARY:		
Demolition:		
800 SF Concrete Slab	\$ _____ /SF	\$ _____
Total Demolition Tract 2X		\$ _____

<u>Tract 3XED</u>	<u>Unit Price</u>	<u>Extended Price</u>
NO ABATEMENT NECESSARY		
Demolition:		
1,290 SF 1-S-RFMB Garage	\$ _____ /SF	\$ _____
Close & Remove Septic System	\$ _____ /EA	\$ _____
Total Demolition Tract X		\$ _____

<u>Tract 4XED,</u>	<u>Unit Price</u>	<u>Extended Price</u>
Abate Approximately:		
29.5 SF of Floor Tiles & Mastic in (R)	\$ _____ /SF	\$ _____
Total Abatement		\$ _____
Demolition:		
960 SF 1-S- Concrete Block Building	\$ _____ /SF	\$ _____
Close & Remove Septic System	\$ _____ /EA	\$ _____
Total Demolition		\$ _____
Total Abatement and Demolition Tract 4X		\$ _____

Tract 5XED, 15067 Hwy. 62 East

NO ABATEMENT NECESSARY:

Demolition:

2,572 SF 1-S-Concrete Block & Frame (Fruit Stand)

960 SF Greenhouse

Close & Remove Septic System

Total Demolition Tract 5XED

Unit Price

Extended Price

\$	_____ /SF	\$	_____
\$	_____ /SF	\$	_____
\$	_____ /EA	\$	_____
		\$	_____

Tract 6X, 13992 N. Old Wire Road

Abate Approximately:

All Ceiling Sheet Rock 1,396 SF

Total Abatement

Demolition:

1,536 SF 1.5-S-F Dwelling

12X18 = 216 SF Shed

Close & Remove Septic System

Satelite Dish

40 LF of Fencing

Total Demolition

Total Abatement & Demolition Tract X

Unit Price

Extended Price

\$	_____ /SF	\$	_____
		\$	_____
\$	_____ /SF	\$	_____
\$	_____ /EA	\$	_____
\$	_____ /EA	\$	_____
\$	_____ /LF	\$	_____
		\$	_____
		\$	_____

Tract 7XED, 15211 Hwy. 62

Abate Approximately:

1,277.6 SF All Ceiling Sheet Rock

3,712.64 SF Sheet Rock Walls

Total Abatement Tr. 7 XED

Demolition:

1,440 SF 1-S-F Dwelling & Wooden Deck

280 SF Shed

Close & Remove Septic System

Total Demolition Tract 7 XED

Total Abatement & Demolition 7 XED

Unit Price

Extended Price

\$	_____ /SF	\$	_____
\$	_____ /SF	\$	_____
		\$	_____
\$	_____ /SF	\$	_____
\$	_____ /EA	\$	_____
		\$	_____
		\$	_____

Tract 8 X, 15359 Hwy. 62 E.

No Abatement Necessary:

Demolition:

2,860 SF 2-S-F Dwelling

Close & Remove Septic System

Total Demolition Tract 8 X

Unit Price

Extended Price

\$	_____ /SF	\$	_____
\$	_____ /EA	\$	_____
		\$	_____

Tract 8 XR, 15359 Hwy. 62 E.

Abate Approximately:

All Ceiling Sheet Rock 733.47 SF

1,643.6 SF Sheet Rock Walls (C-H)

Total Abatement Tr. 8 XR

Demolition:

1,440 SF 1-S-B Dwelling

572 SF Concrete Patio

100 SF Concrete Block Wellhouse

450 SF Garage w/ Storm Shelter

Close & Remove Septic System

Cap Well

Total Demolition Tr. 8 XR

Total Abatement & Demolition Tr. 8 XR

	<u>Unit Price</u>	<u>Extended Price</u>
\$	/SF	\$
	/SF	\$
		\$
\$	/SF	\$
\$	/SF	\$
\$	/SF	\$
\$	/SF	\$
\$	/EA	\$
\$	/EA	\$
		\$
		\$

Tract 9 X, 15467 Boundary Line Road

Abate Approximately:

All Ceiling Sheet Rock 956.97 SF

2,691.36 SF Sheet Rock Walls (All)

Total Abatement Tr. 9 X

Demolition:

1,305 SF 1-S-B Dwelling

756 SF Concrete Patio

100 SF Well House

Close & Remove Septic System

Total Demolition Tr. 9X

Total Abatement & Demolition Tr. 9 X

	<u>Unit Price</u>	<u>Extended Price</u>
\$	/SF	\$
	/SF	\$
		\$
\$	/SF	\$
\$	/SF	\$
\$	/EA	\$
\$	/EA	\$
		\$
		\$

Tract 10XED, 15813 Boundary Line Road

No Abatement Necessary:

Demolition:

645 SF Concrete Slab

Total Abatement & Demolition Tr. 10 XED

	<u>Unit Price</u>	<u>Extended Price</u>
\$	/SF	\$
		\$

Tract 12X, Boundary Line Road (County Rd. 856)

No Abatement Necessary:

Demolition:

1,093.5 SF 1-S-F Dwelling

600 SF Metal Barn/Shed

390.4 SF 1-S-M Outbuilding

261 SF 1-S-M Outbuilding

100 SF Framed Well House

48 SF Out House

Fill in Pit of Out House

Cap Well

	<u>Unit Price</u>	<u>Extended Price</u>
\$	/SF	\$
\$	/SF	\$
\$	/SF	\$
\$	/SF	\$
\$	/SF	\$
\$	/SF	\$
\$	/EA	\$
\$	/LF	\$

Total Demolition Tract 12 X

\$ _____

Tract 13X, 13992 N. Old Wire Road

Abate Approximately: Dwelling #1

All Ceiling Sheet Rock 524 SF

720 SF Sheet Rock Walls (ABCDE)

Total Abatement 13 X #1

No Abatement Necessary: Dwelling #2

No Abatement Necessary: Mobile Home

Demolition:

1,338 SF 1-S-F Dwelling #1

25' X 30' 750 1-S-F Dwelling #2

1,624 SF Mobile Home

Close & Remove 3 Septic Systems

Satelite Dish

Total Demolition 13 X

Total Abatement & Demolition Tract 13 X

	<u>Unit Price</u>	<u>Extended Price</u>
		\$ _____
\$ _____ /SF		\$ _____
\$ _____ /SF		\$ _____
\$ _____		\$ _____
\$ _____ /SF		\$ _____
\$ _____ /SF		\$ _____
\$ _____ /EA		\$ _____
\$ _____ /EA		\$ _____
		\$ _____
		\$ _____

Tract 14 X, 17522 Alvin Seamster Road

No Abatement Necessary:

Demolition:

1,664 SF 1-S-B Dwelling

1,440 SF 1-S RFMB

Close & Remove Septic System

Total Abatement & Demoliton

	<u>Unit Price</u>	<u>Extended Price</u>
\$ _____ /SF		\$ _____
\$ _____ /SF		\$ _____
\$ _____ /EA		\$ _____
		\$ _____

Tract 15 X, Station 385+40 Rt. on Hwy. 62 E.

No Abatement Necessary:

Demolition:

640 SF 1-S-Metal Barn/Shop with Lean to

Close & Remove Septic System

5'X8' 40 SF Concrete Slab

8X12 96 SF Concrete Slab

Total Abatement & Demolition

	<u>Unit Price</u>	<u>Extended Price</u>
\$ _____ /SF		\$ _____
\$ _____ /EA		\$ _____
\$ _____ /SF		\$ _____
\$ _____ /SF		\$ _____
		\$ _____

Tract 16 XED, 17781 Hwy. 62 E.

No Abatement Necessary:

Demolition:

1,456 SF Concrete Slab & Debris

Total Demolition Tr. 16 XD

	<u>Unit Price</u>	<u>Extended Price</u>
\$ _____ /SF		\$ _____
		\$ _____

Tract 18 X, 17799 Hwy. 62 E.

No Abatement Necessary:

Demolition:

3,036 SF 1-S-RFMB

Close & Remove Septic System

Total Demolition Tr. 18 XED

	<u>Unit Price</u>	<u>Extended Price</u>
\$ _____ /SF		\$ _____
\$ _____ /EA		\$ _____
		\$ _____

Tract 21 XED, Alvin Seamster Road

No Abatement Necessary:

Demolition:

615 SF 1-S-Framed Building

Total Demolition Tr. 21 XED

<u>Unit Price</u>	<u>Extended Price</u>
\$ _____ /SF	\$ _____
	\$ _____

Tract 51 R, 14801 Hwy. 62 E.

No Abatement Necessary:

Demolition:

1,687 SF 1-S-F Dwelling

100 SF Framed Outbuilding

250 LF of Wood Privacy Fence

Close & Remove Septic System

Total Demolition Tr. 51 R

<u>Unit Price</u>	<u>Extended Price</u>
\$ _____ /SF	\$ _____
\$ _____ /SF	\$ _____
\$ _____ /LF	\$ _____
\$ _____ /EA	\$ _____
	\$ _____

Total Lump Sum Price of Abatement & Demolition

\$ _____

Note: This document is to be returned with bid and becomes part of the contract.

Disclaimer:

Samples were collected from materials identified as Homogeneous Materials based upon visual inspection of the site. AHTD is not responsible for assumptions on homogeneity, which prove to be incorrect. In addition, samples collected represent only that portion of the entire homogeneous material. AHTD is not responsible for materials not identified and sampled due to the restraints on accessibility of the material due to the type of construction and finish materials of the building. This report refers to the Site and Facility as it appeared on the day of the inspection. No warranties, expressed or implied, relate to the previous and /or future conditions at the Site.

Analysis was performed by Crisp Analytical Labs, LLC, Carrollton, Texas. Crisp Analytical Labs, LLC is solely responsible for all analytical results contained in and referred to in this report.

**NOTICE TO CONTRACTORS
COMPLIANCE WITH TITLE VI OF THE CIVIL RIGHTS ACT OF 1964
FOR
FEDERAL AID CONTRACTS
APPENDIX "A"**

During the performance of this contract, the contractor, for itself, its assignees and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

(1) Compliance with Regulations: The contractor shall comply with the Regulations relative to nondiscrimination in Federally-assisted programs of the Department of Transportation, Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.

(2) Nondiscrimination: The Contractor, with regard to the work performed by it during the contract, shall not discriminate on the grounds of race, color or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor shall not participate either directly or indirectly in the discrimination prohibited by section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix B of the Regulations.

(3) Solicitations for Subcontracts, Including Procurements of Materials and Equipment: In all solicitations either by competitive bidding or negotiation made by the contractor or work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the contractor of the contractor's obligations under this contract and the Regulations relative to nondiscrimination on the grounds of race, color, or national origin.

(4) Information and Reports: The contractor shall provide all information and reports required by the Regulations, or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Arkansas State Highway & Transportation Department or the Federal Highway Administration to be pertinent to ascertain compliance with such Regulations or directives. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish this information, the contractor shall so certify to the Arkansas State Highway & Transportation Department, or the Federal Highway Administration as appropriate, and shall set forth what efforts it has made to obtain the information.

(5) Sanctions for Noncompliance: In the event of the contractor's non-compliance with the nondiscrimination provisions of this contract, the Arkansas State Highway & Transportation Department shall impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to:

(a) Withholding of payments to the contractor under the contract until the contractor complies, and/or

(b) Cancellation, termination or suspension of the contract, in whole or in part.

(6) Incorporation of Provisions: The contractor shall include the provisions of paragraphs (1) through (6) in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto. The contractor shall take such action with respect to any subcontract or procurement as the Arkansas State Highway & Transportation Department or the Federal Highway Administration may direct as a means of enforcing such provisions including sanctions for non-compliance: Provided, however, that, in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or supplier as a result of such direction, the contractor may request the Arkansas State Highway & Transportation Department to enter into such litigation to protect the interests of the State, and, litigation to protect the interests of the United States.

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
SPECIAL PROVISION**

**REMOVAL OF SHEET ROCK, WHICH CONTAINS ASBESTOS
FROM BUILDINGS TO BE DEMOLISHED**

GENERAL

The material which contains asbestos (ACM) has been identified in this building. This building must be demolished as part of the right-of-way clearing for the construction of the above-captioned job. Prior to demolition of these buildings, the ACM must be removed and disposed of in compliance with this special provision and the asbestos regulations promulgated by Arkansas Department of Environmental Quality (ADEQ) and the Environmental Protection Agency.

DESCRIPTION OF WORK:

All work performed under this special provision shall be in compliance with the Arkansas Asbestos Abatement Regulations promulgated by the Arkansas Department of Environmental Quality (ADEQ), as adopted pursuant to Part Two of the Arkansas Water and Air Pollution Act. (Date of Regulations: November 29, 1990)

Except as specified in this special provision, the contractor shall comply with all notification, record keeping, work procedure, containerization, storage, transportation, disposal and licensing requirements of the Arkansas Asbestos Abatement Regulations for the removal of ACM and applicable OSHA worker protection requirements (29 CFR, 1910 - Respiratory protection). Disposal and record keeping requirements of NESHAP - National Emission Standards for Hazardous Air Pollutants (40 CFR 61 Subpart M) shall also be incorporated into the project's work procedures and designated in the work plan of the asbestos abatement contractor.

The general work procedure shall include the removal of the ACM and any associated from the designated area in the identified buildings. Estimated quantities of material to be removed and disposed of are provided in the contract. The removal of the ACM must be conducted in a containment area, which includes polyethylene containment barrier walls. This containment area must also include the use of a negative air filtration system (HEPA filters) to create negative pressure as required by ADEQ regulations. The material shall be removed as required by ADEQ regulations with containerization, storage, transportation and disposal of the ACM accomplished according to ADEQ Asbestos regulations. Wet cleaning and HEPA filter vacuuming shall be repeated until no visible residuals are observed in the work area or until any remaining can be safely encapsulated. All records of the work performed and the disposal at an approved landfill (including the disposal receipt) shall be provided to the Arkansas Highway and Transportation Department within three working days of the completion of the contracted work.

All work shall be performed by a licensed asbestos contractor and by trained asbestos abatement workers as required by ADEQ. All appropriate worker protection rules for this removal of asbestos containing materials shall apply as per OSHA and ADEQ regulations.

A work plan and worker protection plan shall be provided to AHTD prior to the commencement of work for review and approval.

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
SPECIAL PROVISION**

**REMOVAL OF FLOORING WHICH CONTAINS ASBESTOS
FROM BUILDINGS TO BE DEMOLISHED**

GENERAL

Floor covering which contains asbestos (ACM) has been identified in buildings to be demolished as part of the right-of-way clearing for the construction of the above captioned job. Prior to demolition of these buildings, the ACM must be removed and disposed of in compliance with this special provision and the asbestos regulations promulgated by Arkansas Department of Environmental Quality (ADEQ) and the Environmental Protection Agency.

DESCRIPTION OF WORK:

All work performed under this special provision shall be in compliance with the Arkansas Asbestos Abatement Regulations promulgated by the Arkansas Department of Environmental Quality (ADEQ), as adopted pursuant to Part Two of the Arkansas Water and Air Pollution Act. (Date of Regulations: November 29, 1990)

Except as specified in this special provision, the contractor shall comply with all notification, record keeping, work procedure, containerization, storage, transportation, disposal and licensing requirements of the Arkansas Asbestos Abatement Regulations for the removal of ACM and applicable OSHA worker protection requirements (29 CFR, 1910 - Respiratory protection). Disposal and record keeping requirements of National Emission Standards for Hazardous Air Pollutants (NESHAP) (40 CFR 61 Subpart M) shall also be incorporated into the project's work procedures and designated in the work plan of the asbestos abatement contractor.

The general work procedure shall include the removal of the ACM and any associated mastic material from the designated area in the identified buildings. Estimated quantities of material to be removed and disposed of are provided in the contract. The removal of the ACM flooring must be conducted in a containment area, which includes polyethylene containment barrier walls. This containment area must also include the use of a negative air filtration system (HEPA filters) to create negative pressure as required by ADEQ regulations. The material shall be removed as required by ADEQ regulations with containerization, storage, transportation and disposal of the ACM accomplished according to ADEQ Asbestos regulations. Wet cleaning and HEPA filter vacuuming shall be repeated until no visible residuals are observed in the work area or until any remaining mastic can be safely encapsulated. All records of the work performed and the disposal at an approved landfill (including the disposal receipt) shall be provided to the Arkansas Highway and Transportation Department within three working days of the completion of the contracted work.

All work shall be performed by a licensed asbestos contractor and by trained asbestos abatement workers as required by ADEQ. All appropriate worker protection rules for this removal of asbestos containing flooring shall apply as per OSHA and ADEQ regulations.

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

SPECIAL PROVISION

REMOVAL OF FLOOR COVERING MASTIC WHICH CONTAINS ASBESTOS
FROM BUILDINGS TO BE DEMOLISHED

GENERAL:

Floor covering mastic which contains asbestos has been identified in a building to be demolished as part of the right-of-way clearing for the construction of the above captioned job. Prior to demolition of this building, the floor covering and associated mastic which contains asbestos must be removed and disposed of in compliance with this special provision and the asbestos regulations promulgated by Arkansas Department of Environmental Quality(ADEQ).

DESCRIPTION OF WORK:

All work performed under this special provision shall be in compliance with the Arkansas Asbestos Abatement Regulations promulgated by the Arkansas Department of Environmental Quality, as adopted pursuant to Part Two of the Arkansas Water and Air Pollution Act. (Date of Regulations: November 29, 1990)

Except as specified in this special provision, the contractor shall comply with all notification, record keeping, work procedure, containerization, storage, transportation, disposal and licensing requirements of the Arkansas Asbestos Abatement Regulations 21 for the removal of floor covering which contains asbestos and applicable OSHA worker protection requirements (29 CFR, 1910 - Respiratory protection). Disposal and record keeping requirements of NESHAP - National Emission Standards for Hazardous Air Pollutants (40 CFR 61 Subpart M) shall also be incorporated into the project's work procedures and designated in the work plan of the asbestos abatement contractor.

The general work procedure shall include the removal of the floor covering and all associated mastic material from the designated area in the identified building. The removal of the ACM mastic and flooring must be conducted in a containment area, which includes polyethylene containment barrier walls. This containment area must also include the use of a negative air filtration system (HEPA filters) to create negative pressure as required by ADEQ regulations. The material shall be removed as required by ADEQ regulations with containerization, storage, transportation and disposal of the ACM accomplished according to ADEQ Asbestos Regulations 21. Wet cleaning and HEPA vacuuming shall be repeated until no visible residuals are observed in the work area or until any remaining mastic can be safely encapsulated. All records of the work performed and the disposal at an approved landfill (including the disposal receipt) shall be provided to the Arkansas Highway and Transportation Department within two working days of the completion of the contracted work.

All work shall be performed by a licensed asbestos contractor and by trained asbestos abatement workers as required by ADEQ. All appropriate worker protection rules for this removal of asbestos containing flooring shall apply as per OSHA and ADEQ Regulations 21.

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
SPECIAL PROVISION**

**REMOVAL OF HARD ASBESTOS-CONTAINING BUILDING MATERIAL
IN EXTERIOR SETTING**

General:

Siding which contains hard asbestos has been identified on the exterior of a building scheduled for demolition as part of the above referenced job. Prior to demolition of this building, the asbestos-containing building material (ACBM) must be removed and disposed of in compliance with all the Arkansas Department of Environmental Quality (ADEQ) and the Environmental Protection Agency asbestos regulations and these specifications.

Description of Work:

All work performed under this contract shall be in compliance with the Arkansas Asbestos Abatement Regulations promulgated by the Arkansas Department of Environmental Quality's adopted pursuant to Part Two of the Arkansas Water and Air Pollution Act. (Date of Regulations: November 29, 1990)

In addition, the contractor shall comply with all notification, record keeping, work procedure, containerization, storage, transportation, disposal and licensing requirements of the Arkansas Asbestos Abatement Regulations for the removal of hard ACBM in an outdoor setting and applicable OSHA worker protection requirements (29, 1910 - Respiratory Protection). Disposal and record keeping requirements of NESHAP -National Emission Standards for Hazardous Air Pollutants (40 CFR 61 Subpart M) shall also be incorporated into the work plan of the asbestos abatement contractor.

The general work procedure shall include the removal of the ACBM with minimal breakage, sanding or sawing. Wetting procedures shall be utilized as warranted by ADPC&E regulations. ACBM shall be placed in sealable metal drums with proper labeling then stored, transported and disposed of in accordance with ADEQ Asbestos Regulations (November, 1990). All records of the work performed and the disposal at an approved landfill (including the disposal receipt) shall be provided to the Arkansas Highway and Transportation Department within three working days of the completion of contracted work.

All work shall be performed by a licensed asbestos contractor and by trained asbestos abatement workers as required by ADEQ. All appropriate worker protection rules for this outdoor removal activity shall apply as per OSHA and ADEQ regulations.



1x5p

01.22.2013



1XED

01.22.2013

JOB: 090065
TRACT: 1 X
DATE: 1/22/2013

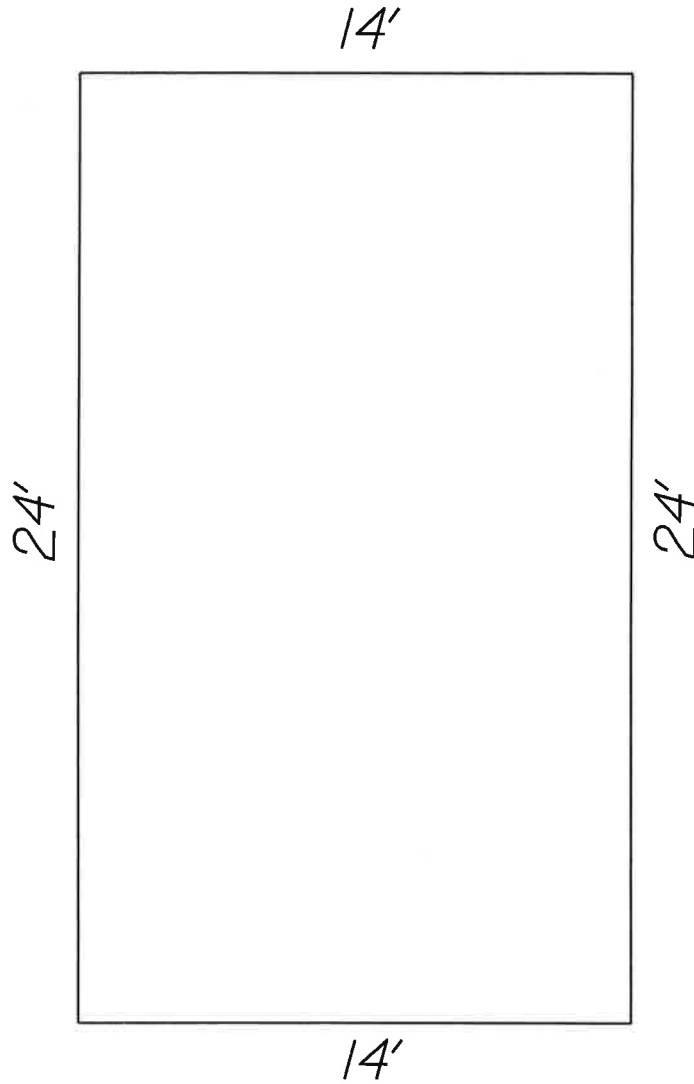
PROPERTY LOCATION
1-S-Concrete Block Garage
14176 Sugar Creek Road
Rogers, AR 72756

INSPECTED BY
Joel Clark (011518)

Sample Number	Description/Location	Sample Number	Description/Location
#1		#11	
#2		#12	
#3		#13	
#4		#14	
#5		#15	
#6		#16	
#7		#17	
#8		#18	
#9		#19	
#10		#20	

Homogenous Areas:	
Roofing	Composition Shingle
Siding	Concrete Block
Ceilings	Open Joist
Walls	Concrete Block
Floors	Concrete Slab

NO ACM Suspected



090065 Tract 1 X

1-S-Conc. Block

14176 Sugar Creek Rd.

Rogers, AR

Approx. 336 SF



01-22-2013

2X

JOB: 090065
TRACT: 2 X
DATE: 1/22/2013

PROPERTY LOCATION
1-S-Frame Barn/Shop
14214 Hwy. 62 East
Avoca, AR 72711-0037

INSPECTED BY
Joel Clark (011518)

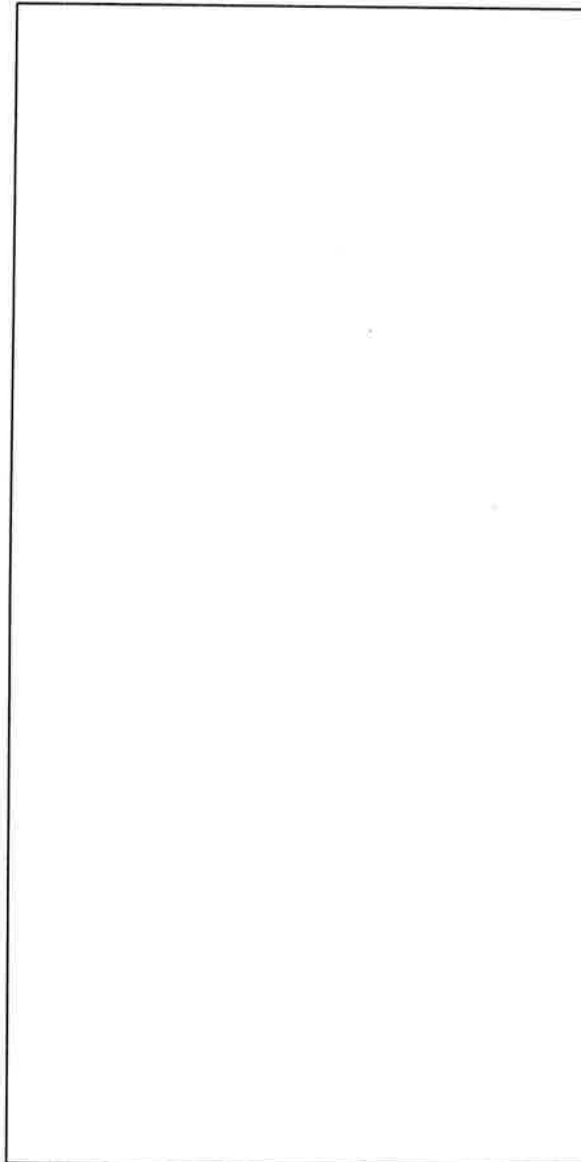
Sample Number	Description/ Locaton	Sample Number	Description/ Location
#1		#11	
#2		#12	
#3		#13	
#4		#14	
#5		#15	
#6		#16	
#7		#17	
#8		#18	
#9		#19	
#10		#20	

Homogenous Areas:	
Roofing	Open rafters
Siding	Open Studs
Ceilings	Open Joist
Walls	Open Studs
Floors	Concrete Slab

NO ACM Suspected

20'

40'



090065 Tract 2 X

Conc. Slab

14214 Hwy.62 East

Avoca, AR 72711-0037

Approx. 800 SF



01.22.2013

3XED

3XED

01.22.2013





Crisp Analytical Laboratories, L.L.C.
 1929 Old Denton Rd.
 Carrollton, TX 75006

Phone: 972-272-2754
 Fax: 972-272-2798
 Mobile: 214-564-8366

Chain of Custody

Client Name:	AHTD	CA Labs job	CAL# 1301874
Client Address:	P.O. Box 2261 Room #705 Little Rock, AR 72203-2261	Billing Address: (if different)	
phone number:	501-569-2317 or 2318	P.O. # :	090065
fax number:		Project Name:	Tract 3X 14725 Hwy. 62 East
Send Reports to:	Joel.Clark@arkansashighways.com	Project Number:	090065 Garfield, AR 72732

Total # Samples Submitted: 4	Total # Samples to be Analyzed: 4	Material Matrix: Air / <u>Bulk</u> / Water
-------------------------------------	--	--

Asbestos: *please call ahead for availability of all rush and/or after hours samples.*

TEM	TA Time	PLM	TA Time	Optical / IAQ	TA Time
<i>Circle analysis and TA time</i>		<i>Circle analysis and TA time</i>			
AHERA	4 hour	Improved	4 hour	PCM: NIOSH 7400	Note TAT
EPA Level II	8 hour	Interim	8 hour	Allergen Particle:	24 hour
Drinking Water	16 hour		16 hour	tape/bulk/swab	2 days
Wipe	24 hour	AHERA	24 hour	Cyclex-d cassettes	3 days
Micro-vac	2 days		2 days	Air-o-cell cassettes	5-10 days
NIOSH 7402	3 days	Point Count -	3 days	Anderson cultures	Specify
Chatfield Bulk	5 days	(NESHAPS)	5 days	Bulk/swab cultures	Mold or
				Bacteria cultures	bacteria

Please indicate appropriate turn around time. (minimum turnaround - 3 Days for Lead TCLP and water)
 Lead: *Circle analysis and TA time*

Sample Information:

Sample #:	Sample Location:	Sample Date/Time:	Sample Volume (L)
090065Tr3X #1	Area (A) Wall	1/22/2013	
090065Tr3X #2	Area (A) Wall	1/22/2013	
090065Tr3X #3	Area (B) Wall	1/22/2013	
090065Tr3X #4	Area (B) Wall	1/22/2013	

Custody Information:

Samples relinquished: Joel Clark 1/29/13
 Signature / Date / Time

Samples received: Matthew Romero 1/30/13
 Signature / Date / Time
 3:30PM

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Dedicated to
Quality

Crisp Analytical, L.L.C.
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Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798



CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Arkansas State Highway & Transportation Dept.

10324 I-30, Room 705
Little Rock, AR 72209

Attn: Robert Pooler

Customer Project: Tract 3X 14725 Hwy 62 East

Reference #: CAL1301674CP

Date: 02/04/13

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved)). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found by PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as ≤1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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 Fax 972-242-2798

CA Labs, L.L.C.
 12232 Industriplex, Suite 32
 Baton Rouge, LA 70809
 Phone 225-751-5632
 Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project:		Tract 3X 14725 Hwy 62 East		CA Labs Project #: CAL1301674CP	
Sample #	Layer #	Analysts	Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types

No Asbestos Detected.

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastonite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

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Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Customer Project:
Tract 3X 14725 Hwy 62 East
Turnaround Time:
3 Days

CA Labs Project #:
CAL1301674CP
Date: 02/04/13
Samples Received: 1/30/13 3:30PM
Date Of Sampling: 01/22/13
Purchase Order #: 090065

Phone # 501-569-2317
Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
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090065Tr3 X 1		1-1	Area (A) Wall/ tan surfaced white compound	n	None Detected		100% mi,bi,ca
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		1-2	white compound (beneath tape)	y	None Detected		100% mi,ca
--	--	-----	-------------------------------	---	----------------------	--	------------

		1-3	white drywall with brown paper	n	None Detected	19% ce 1% fg	80% qu,gy
--	--	-----	--------------------------------	---	----------------------	-----------------	-----------

090065Tr3 X 2		2-1	Area (A) Wall/ white compound	y	None Detected		100% mi,ca
------------------	--	-----	---	---	----------------------	--	------------

		2-2	white compound (beneath tape)	y	None Detected		100% mi,ca
--	--	-----	-------------------------------	---	----------------------	--	------------

		2-3	white drywall with brown paper	n	None Detected	18% ce 2% fg	80% qu,gy
--	--	-----	--------------------------------	---	----------------------	-----------------	-----------

090065Tr3 X 3		3-1	Area (B) Wall/ purple surfaced white compound	n	None Detected		100% mi,bi,ca
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Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Julio Robles
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Customer Project:
Tract 3X 14725 Hwy 62 East
Turnaround Time:
3 Days

CA Labs Project #:
CAL1301674CP
Date: 02/04/13
Samples Received: 1/30/13 3:30PM
Date Of Sampling: 01/22/13
Purchase Order #: 090065

Phone # 501-569-2317
Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		3-2	white compound (beneath tape)	y	None Detected		100% mi,ca
		3-3	white drywall with brown paper	n	None Detected	18% ce 1% fg	81% qu,gy
090065Tr3 X 4			Area (B) Wall/ white surfaced				
		4-1	white compound	n	None Detected		100% mi,bi,ca
		4-2	white compound (beneath tape)	y	None Detected		100% mi,ca
		4-3	white drywall with brown paper	n	None Detected	18% ce 2% fg	80% qu,gy
090065Tr3 X 5		5-1	green self-adhesive floor tile	y	None Detected		100% qu,gy,ma
		5-2	tan mastic	y	None Detected		100% gy,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Julio Robles
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
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 Fax 972-242-2798

CA Labs, L.L.C.
 12232 Industriplex, Suite 32
 Baton Rouge, LA 70809
 Phone 225-751-5632
 Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Pooler
Arkansas State Highway & Transportation Dept.
 10324 I-30, Room 705
 Little Rock, AR 72209

Customer Project:
 Tract 3X 14725 Hwy 62 East
Turnaround Time:
 3 Days

CA Labs Project #:
 CAL1301674CP
Date: 02/04/13
Samples Received: 1/30/13 3:30PM
Date Of Sampling: 01/22/13
Purchase Order #: 090065

Phone # 501-569-2317
 Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
090065Tr3 X 6		6-1		green self-adhesive floor tile	y	None Detected		100% qu,gy,ma
		6-2		tan mastic	y	None Detected		100% gy,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
 Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Julio Robles
 Analyst



QAC
 Leslie Crisp, P.G.

Technical Manager
 Chad Lytle

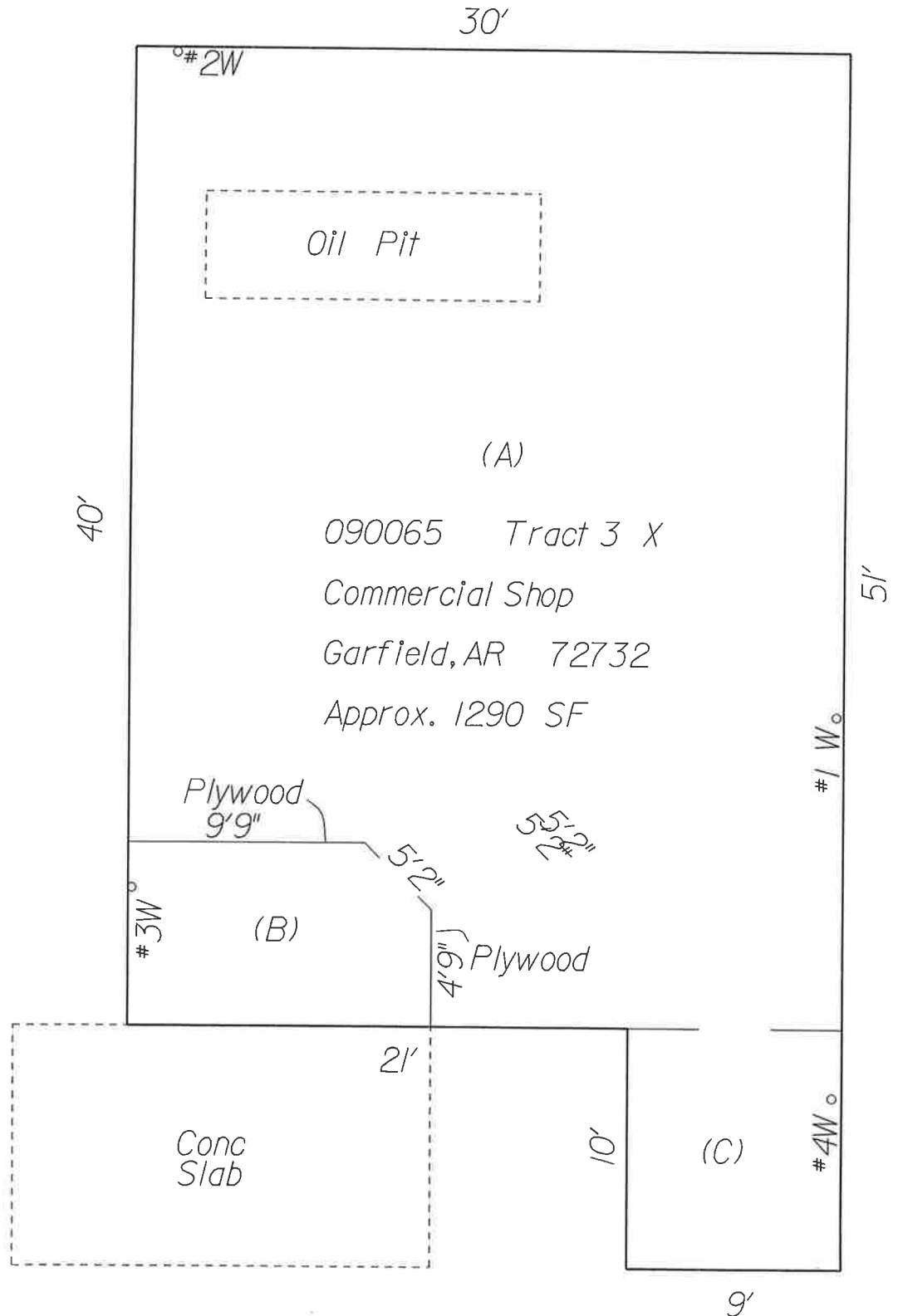
1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
 2. Fire Damage no significant fiber damages effecting fibrous percentages
 3. Actinolite in association with Vermiculite
 4. Layer not analyzed - attached to previous positive layer and contamination is suspected
 5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
 7. Contamination suspected from other building materials
 8. Favorable scenario for water separation on vermiculite for possible analysis by another method
 9. < 1% Result point counted positive
 10. TEM analysis suggested

INSPECTION FLOOR PLAN

JOB:	090065	PROPERTY LOCATION	INSPECTED BY
TRACT:	3 X	1-S-Metal Garage	Joel Clark (011518)
DATE:	1/22/2013	14725 Hwy. 62 East	
		Garfield, AR 72732	

Sample Number	Description/ Locaton	Sample Number	Description/ Location	Homogenous Areas:	
#1	A) Wall	#11		Roofing	Metal
#2	A) Wall	#12		Siding	Metal
#3	B) Wall	#13		Ceilings	Open Joist, 2X4 Tiles
#4	B) Wall	#14		Walls	Sheet Rock; Open Studs; Plywood Siding
#5		#15		Floors	Concrete Slab
#6		#16			
#7		#17			
#8		#18			
#9		#19			
#10		#20			





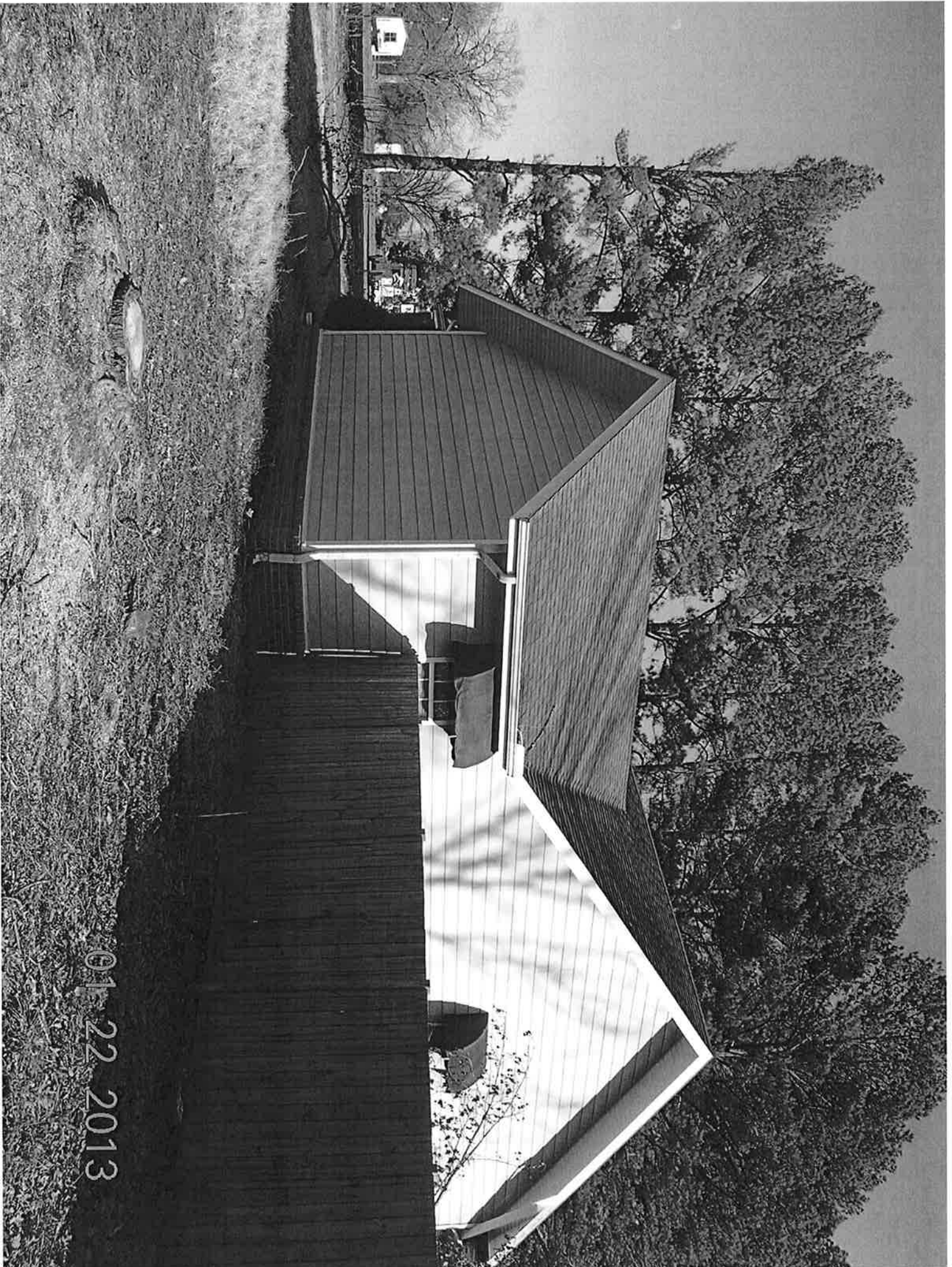
SIR

01 22 2013



SIR

01 22 2013



01 22 2013

518

CA Labs

Crisp Analytical Laboratories, L.L.C
 1929 Old Denton Rd.
 Carrollton, TX 75006

Phone: 972-272-2754
 Fax: 972-272-2798
 Mobile: 214-564-8366

Chain of Custody

Client Name:	AHTD	CA Labs job	CAL# 1301681
Client Address:	P.O. Box 2261 Room #705 Little Rock, AR 72203-2261	Billing Address:	(if different)
phone number:	501-569-2317 or 2318	P.O. # :	090065
fax number:		Project Name:	Tract 51R 14801 Hwy. 62 East
Send Reports to:	<u>Joeld.Clark@arkansashighways.com</u>	Project Number:	090065 Garfield, AR 72732

Total # Samples Submitted: 6	Total # Samples to be Analyzed: 6	Material Matrix: Air / <u>Bulk</u> / Water
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Asbestos: *please call ahead for availability of all rush and/or after hours samples.*

TEM	TA Time	PLM	TA Time	Optical / IAQ	TA Time
<i>Circle analysis and TA time</i>		<i>Circle analysis and TA time</i>			
AHERA	4 hour	Improved	4 hour	PCM: NIOSH 7400	Note TAT
EPA Level II	8 hour	Interim	8 hour	Allergen Particle:	24 hour
Drinking Water	16 hour		16 hour	tape/bulk/swab	2 days
Wipe	24 hour	AHERA	24 hour	Cyclex-d cassettes	3 days
Micro-vac	2 days		2 days	Air-o-cell cassettes	5-10 days
NIOSH 7402	3 days	Point Count -	3 days	Anderson cultures	Specify
Chatfield Bulk	5 days	(NESHAPS)	5 days	Bulk/swab cultures	Mold or
				Bacteria cultures	bacteria

Please indicate appropriate turn around time. (minimum turnaround - 3 Days for Lead TCLP and water)

Lead: *Circle analysis and TA time*

Sample Information:

Sample #:	Sample Location:	Sample Date/Time:	Sample Volume (L)
090065Tr51X #1	Area (B) Ceiling	1/25/2013	
090065Tr51X #2	Area (I) Ceiling	1/25/2013	
090065Tr51X #3	Area (H) Ceiling	1/25/2013	
090065Tr51X #4	Area (D) Wall	1/25/2013	
090065Tr51X #5	Area (F) Wall	1/25/2013	
090065Tr51X #6	Area (M) Wall	1/25/2013	

Custody Information:

Samples relinquished:

Joel Clark 1/24/13
 Signature / Date / Time

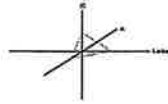
Samples received:

Matthew Romer
 Signature / Date / Time

1/30/13
3:30 PM

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Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Arkansas State Highway & Transportation Dept.

10324 I-30, Room 705
Little Rock, AR 72209

Attn: Robert Pooler

Customer Project: Tract 51R 14801 Hwy 62 East

Reference #: CAL1301681CP

Date: 02/04/13

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved)). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found by PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as ≤1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one of these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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 Baton Rouge, LA 70809
 Phone 225-751-5632
 Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project:	Tract 51R 14801 Hwy 62 East		CA Labs Project #:	CAL1301681CP
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types

No Asbestos Detected.

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Customer Project:
Tract 51R 14801 Hwy 62 East
Turnaround Time:
3 Days

CA Labs Project #:
CAL1301681CP
Date: 02/04/13
Samples Received: 1/30/13 3:30PM
Date Of Sampling: 01/25/13
Purchase Order #: 090065

Phone # 501-569-2317
Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
----------	-------------	------------	--	-------------------------------	--	--------------------------------------	-------------------------------

090065Tr51 X 1		1-1	Area (B) Ceiling/ tan surfaced white compound	n	None Detected		100% mi,bi,ca
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		1-2	white compound (beneath tape)	y	None Detected		100% mi,ca
--	--	-----	-------------------------------	---	----------------------	--	------------

		1-3	white drywall with brown paper	n	None Detected	18% ce 2% fg	80% qu,gy
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090065Tr51 X 2		2-1	Area (I) Ceiling/ tan surfaced white compound	n	None Detected		100% mi,bi,ca
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		2-2	white compound (beneath tape)	y	None Detected		100% mi,ca
--	--	-----	-------------------------------	---	----------------------	--	------------

		2-3	white drywall with brown paper	n	None Detected	19% ce 1% fg	80% qu,gy
--	--	-----	--------------------------------	---	----------------------	-----------------	-----------

090065Tr51 X 3		3-1	Area (H) Ceiling/ tan surfaced white compound	n	None Detected		100% mi,bi,ca
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Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

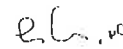
Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Julio Robles
Analyst



QC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages affecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Customer Project:
Tract 51R 14801 Hwy 62 East
Turnaround Time:
3 Days

CA Labs Project #:
CAL1301681CP
Date: 02/04/13
Samples Received: 1/30/13 3:30PM
Date Of Sampling: 01/25/13
Purchase Order #: 090065

Phone # 501-569-2317
Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
----------	-------------	------------	--	-------------------------------	--	--------------------------------------	-------------------------------

3-2	white compound (beneath tape)			y	None Detected		100% mi,ca
-----	-------------------------------	--	--	---	---------------	--	------------

3-3	white drywall with brown paper			n	None Detected	18% ce 1% fg	81% qu,gy
-----	--------------------------------	--	--	---	---------------	-----------------	-----------

090065Tr51 X 4	Area (D) Wall/ tan surfaced						
	4-1	white compound		n	None Detected		100% mi,bi,ca

4-2	white compound (beneath tape)			y	None Detected		100% mi,ca
-----	-------------------------------	--	--	---	---------------	--	------------

4-3	white drywall with brown paper			n	None Detected	18% ce 1% fg	81% qu,gy
-----	--------------------------------	--	--	---	---------------	-----------------	-----------

090065Tr51 X 5	Area (F) Wall/ gray surfaced						
	5-1	white compound		n	None Detected		100% mi,bi,ca

5-2	white compound (beneath tape)			y	None Detected		100% mi,ca
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Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

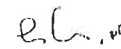
Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Julio Robles
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Customer Project:
Tract 51R 14801 Hwy 62 East
Turnaround Time:
3 Days

CA Labs Project #:
CAL1301681CP
Date: 02/04/13
Samples Received: 1/30/13 3:30PM
Date Of Sampling: 01/25/13
Purchase Order #: 090065

Phone # 501-569-2317
Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		5-3	white drywall with brown paper	n	None Detected	19% ce 2% fg	79% qu,gy
090065Tr51 X 6			Area (M) Wall/ gray surfaced				
		6-1	white compound	n	None Detected		100% mi,bi,ca
		6-2	white compound (beneath tape)	y	None Detected		100% mi,ca
		6-3	white drywall with brown paper	n	None Detected	19% ce 1% fg	80% qu,gy

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

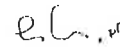
Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for
identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Julio Robles
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

JOB: 090065
 TRACT: 51 R
 DATE: 1/24/13

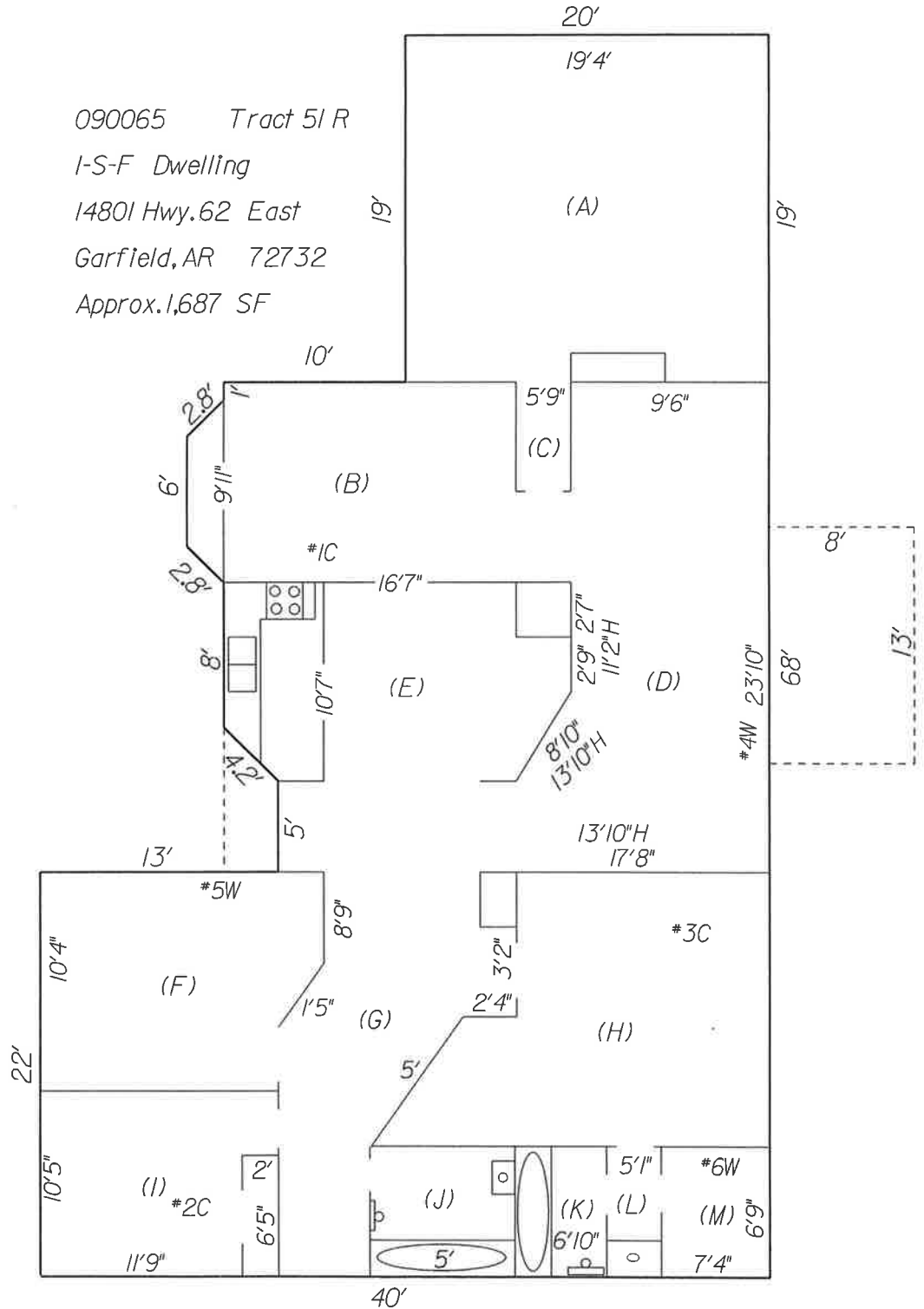
PROPERTY LOCATION
 1-S-F Dwelling
 14801 Hwy. 62 East
 Garfield, AR 72732

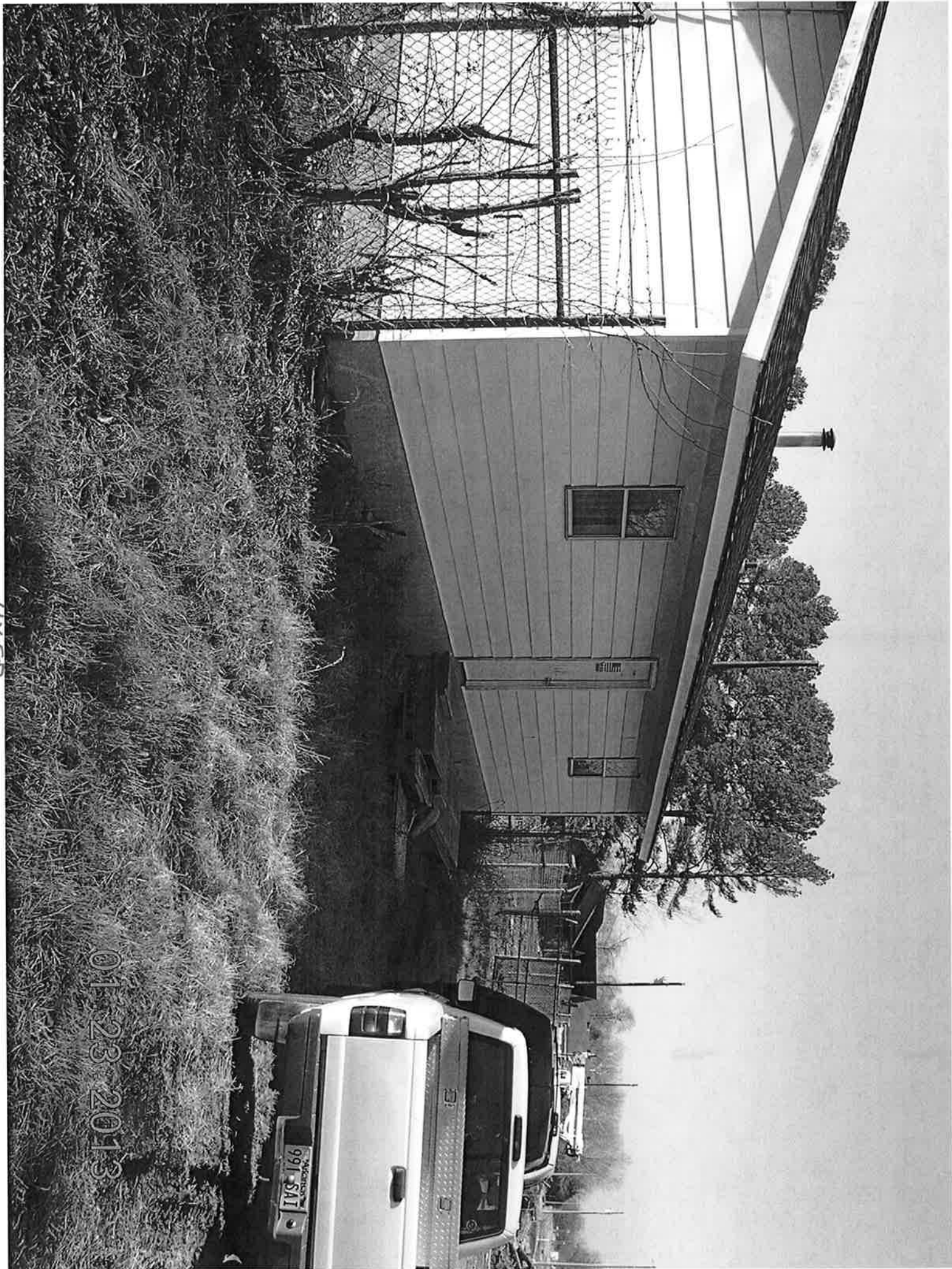
INSPECTED BY
 Joel Clark (011518)

Sample Number	Description/Location	Sample Number	Description/Location
#1	B) Ceiling	#11	
#2	I) Ceiling	#12	
#3	H) Ceiling	#13	
#4	D) Wall	#14	
#5	F) Wall	#15	
#6	M) Wall	#16	
#7		#17	
#8		#18	
#9		#19	
#10		#20	

Homogenous Areas:	
Roofing	Composition Shingle
Siding	Wood
Ceilings	Sheet Rock (All)
Walls	Sheet Rock (All)
Floors	BEJK) Ceramic Tile DFGHLM) Carpet/Concrete Slab

090065 Tract 51 R
 1-S-F Dwelling
 14801 Hwy.62 East
 Garfield, AR 72732
 Approx. 1,687 SF





01-23-2013

4XED



4XED

01 23 2013



Crisp Analytical Laboratories, L.L.C.
1929 Old Denton Rd.
Carrollton, TX 75006

Phone: 972-272-2754
Fax: 972-272-2798
Mobile: 214-564-8366

Chain of Custody

Client Name:	AHTD	CA Labs job	CAL# 1301675
Client Address:	P.O. Box 2261 Room #705 Little Rock, AR 72203-2261	Billing Address: (if different)	
phone number:	501-569-2317 or 2318	P.O. # :	090065
fax number:		Project Name:	Tract 4X 14929 Hwy. 62 East
Send Reports to:	Joel.Clark@arkansashighways.com	Project Number:	090065 Garfield, AR 72732

Total # Samples Submitted: 6	Total # Samples to be Analyzed: 6	Material Matrix: Air / Bulk / Water
-------------------------------------	--	---

Asbestos:
samples:

please call ahead for availability of all rush and/or after hours

TEM	TA Time	PLM	TA Time	Optical / IAQ	TA Time
<i>Circle analysis and TA time</i>		<i>Circle analysis and TA time</i>			
AHERA	4 hour	Improved	4 hour	PCM: NIOSH 7400	Note TAT
EPA Level II	8 hour	Interim	8 hour	Allergen Particle:	24 hour
Drinking Water	16 hour		16 hour	tape/bulk/swab	2 days
Wipe	24 hour	AHERA	24 hour	Cyclex-d cassettes	3 days
Micro-vac	2 days		2 days	Air-o-cell cassettes	5-10 days
NIOSH 7402	3 days	Point Count -	3 days	Anderson cultures	Specify
Chatfield Bulk	5 days	(NESHAPS)	5 days	Bulk/swab cultures	Mold or
				Bacteria cultures	bacteria

Please indicate appropriate turn around time. (minimum turnaround - 3 Days for Lead TCLP and water)

Lead: *Circle analysis and TA time*

Sample Information:

Sample #:	Sample Location:	Sample Date/Time:	Sample Volume (L)
090065Tr4X #1	Area (A) Ceiling	1/23/2013	
090065Tr4X #2	Area (A) Ceiling	1/23/2013	
090065Tr4X #3	Area (A) Wall	1/23/2013	
090065Tr4X #4	Area (A) Wall	1/23/2013	
090065Tr4X #5	Area (B) Floor	1/23/2013	
090065Tr4X #6	Area(B) Floor	1/23/2013	

Custody Information:

Samples relinquished

Joel Clark 1-29-13
Signature / Date / Time

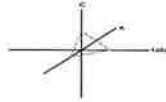
Samples received

Matthew Pomeroy 1/30/13
Signature / Date / Time

3:30PM

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Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798



CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Arkansas State Highway & Transportation Dept.

10324 I-30, Room 705
Little Rock, AR 72209

Attn: Robert Pooler

Customer Project: Tract 4X 14929 Hwy 62 East

Reference #: CAL1301675CP

Date: 02/04/13

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved)). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found by PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

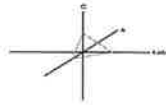
Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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Crisp Analytical, L.L.C.
 1929 Old Denton Road
 Carrollton, TX 75006
 Phone 972-242-2754
 Fax 972-242-2798



CA Labs, L.L.C.
 12232 Industriplex, Suite 32
 Baton Rouge, LA 70809
 Phone 225-751-5632
 Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project:		Tract 4X 14929 Hwy 62 East		CA Labs Project #: CAL1301675CP	
Sample #	Layer #	Analysts	Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
090065Tr4 X 5			Area (B) Floor/ tan thin floor tile	2% Chrysotile	tan thin floor tile
090065Tr4 X 6			Area (B) Floor/ tan thin floor tile	2% Chrysotile	

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

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CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Customer Project:
Tract 4X 14929 Hwy 62 East
Turnaround Time:
3 Days

CA Labs Project #:
CAL1301675CP
Date: 02/04/13
Samples Received: 1/30/13 3:30PM
Date Of Sampling: 01/23/13
Purchase Order #: 090065

Phone # 501-569-2317
Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
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090065Tr4 X 1		1-1	Area (A) Ceiling/ white surfaced white compound	n	None Detected		100% mi,bi,ca
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		1-2	white drywall with brown paper	n	None Detected	19% ce 1% fg	80% qu,gy
--	--	-----	--------------------------------	---	----------------------	-----------------	-----------

090065Tr4 X 2		2-1	Area (A) Ceiling/ white surfaced white compound	n	None Detected		100% mi,bi,ca
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		2-2	white compound (beneath tape)	y	None Detected		100% mi,ca
--	--	-----	-------------------------------	---	----------------------	--	------------

		2-3	white drywall with brown paper	n	None Detected	18% ce 1% fg	81% qu,gy
--	--	-----	--------------------------------	---	----------------------	-----------------	-----------

090065Tr4 X 3		3-1	Area (A) Wall/ white surfaced white compound	n	None Detected		100% mi,bi,ca
------------------	--	-----	---	---	----------------------	--	---------------

		3-2	white compound (beneath tape)	y	None Detected		100% mi,ca
--	--	-----	-------------------------------	---	----------------------	--	------------

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bj - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

C.T. Rasmussen

Tanner Rasmussen
Analyst

Leslie Crisp

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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Crisp Analytical, L.L.C.
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Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Customer Project:
Tract 4X 14929 Hwy 62 East
Turnaround Time:
3 Days

CA Labs Project #:
CAL1301675CP
Date: 02/04/13
Samples Received: 1/30/13 3:30PM
Date Of Sampling: 01/23/13
Purchase Order #: 090065

Phone # 501-569-2317
Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		3-3	white drywall with brown paper	n	None Detected	19% ce 1% fg	80% qu,gy
090065Tr4 X 4			Area (A) Wall/ gray surfaced				
		4-1	white compound	n	None Detected		100% mi,bi,ca
		4-2	white drywall with brown paper	n	None Detected	18% ce 1% fg	81% qu,gy
090065Tr4 X 5			Area (B) Floor/ tan thin floor				
		5-1	tile	y	2% Chrysotile		98% qu,ca
		5-2	brown mastic	y	None Detected		100% gy,bi
090065Tr4 X 6			Area (B) Floor/ tan thin floor				
		6-1	tile	y	2% Chrysotile		98% qu,ca
		6-2	brown mastic	y	None Detected		100% gy,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Tanner Rasmussen
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages affecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

SECTION FLOOR PLAN

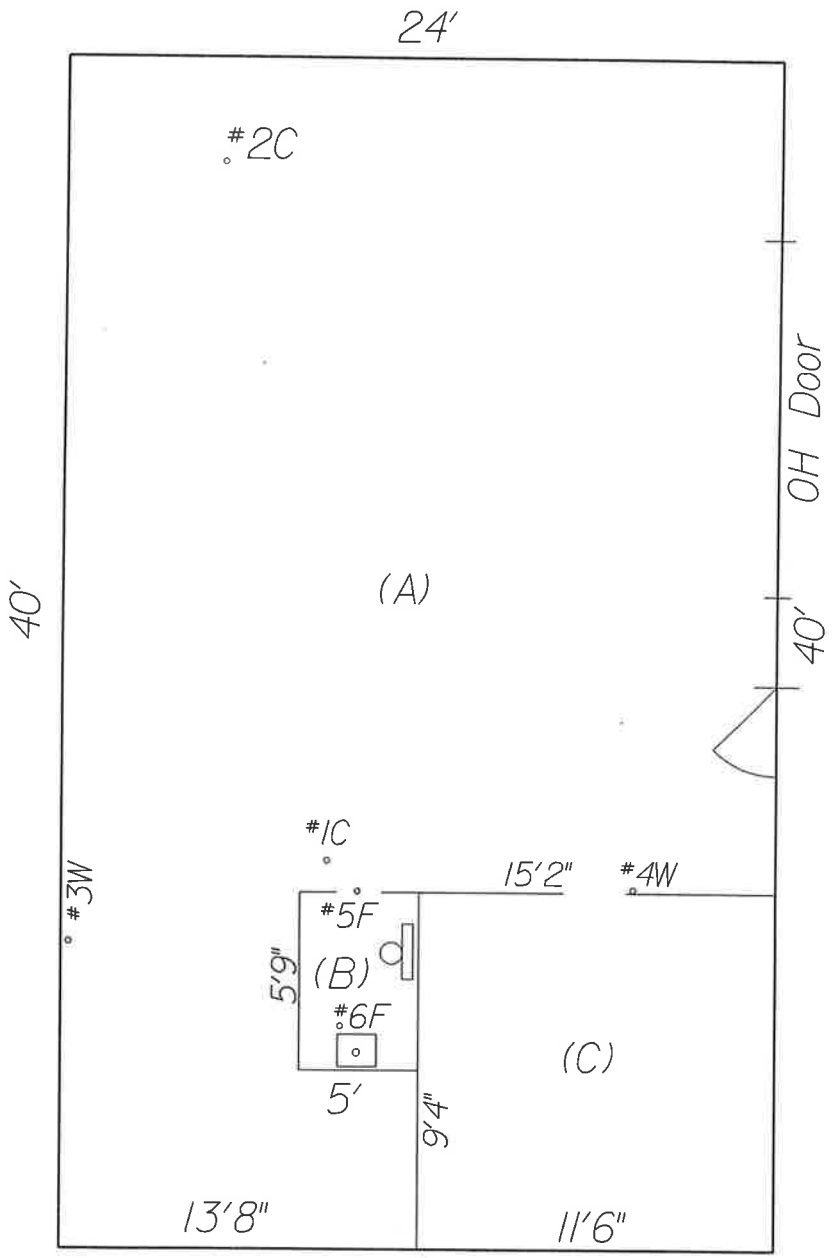
JOB: 090065
 TRACT: 4 X
 DATE: 1/23/2013

PROPERTY LOCATION
 1-S-Frame Building
 14929 Hwy. 62 East
 Garfield, AR 72732

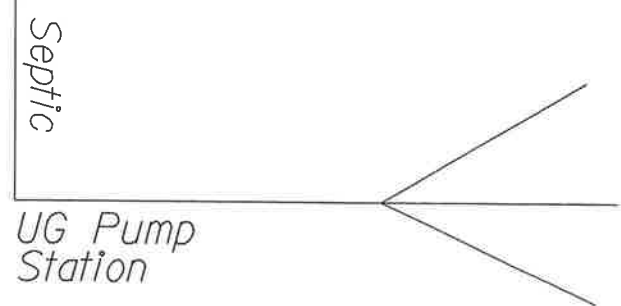
INSPECTED BY
 Joel Clark (011518)

Sample Number	Description/Location	Sample Number	Description/Location
#1	A) Ceiling	#11	
#2	A) Ceiling	#12	
#3	A) Wall	#13	
#4	A) Wall	#14	
#5	B) Floor	#15	
#6	B) Floor	#16	
#7		#17	
#8		#18	
#9		#19	
#10		#20	

Homogenous Areas:	
Roofing	Composition Shingle
Siding	Aluminium/Wood
Ceilings	Sheet Rock
Walls	Sheet Rock
Floors	(ABC) Concrete Slab (R) Tiles/Concrete



090065 Tract 4X
 14929 E. Hwy. 62
 Garfield, AR 72732
 960 SF





01 23 2013

5XED



01.23.2013

5x&D



Crisp Analytical Laboratories, L.L.C
 1929 Old Denton Rd.
 Carrollton, TX 75006

Phone: 972-272-2754
 Fax: 972-272-2798
 Mobile: 214-564-8366

Chain of Custody

Client Name:	AHTD	CA Labs job	CAL# '1301676
Client Address:	P.O. Box 2261 Room #705 Little Rock, AR 72203-2261	Billing Address: (if different)	
phone number:	501-569-2317 or 2318	P.O. # :	090065
fax number:		Project Name:	Tract 5X 15067 Hwy. 62 East
Send Reports to:	<u>joeld.Clark@arkansashighways.com</u>	Project Number:	090065 Garfield, AR 72732

Total # Samples Submitted: 5	Total # Samples to be Analyzed: 5	Material Matrix: Air / Bulk / Water
-------------------------------------	--	---

Asbestos: please call ahead for availability of all rush and/or after hours samples.

TEM	TA Time	PLM	TA Time	Optical / IAQ	TA Time
<i>Circle analysis and TA time</i>		<i>Circle analysis and TA time</i>			
AHERA	4 hour	Improved	4 hour	PCM: NIOSH 7400	Note TAT
EPA Level II	8 hour	Interim	8 hour	Allergen Particle:	24 hour
Drinking Water	16 hour		16 hour	tape/bulk/swab	2 days
Wipe	24 hour	AHERA	24 hour	Cyclex-d cassettes	3 days
Micro-vac	2 days		2 days	Air-o-cell cassettes	5-10 days
NIOSH 7402	3 days	Point Count -	3 days	Anderson cultures	Specify
Chatfield Bulk	5 days	(NESHAPS)	5 days	Bulk/swab cultures	Mold or
				Bacteria cultures	bacteria

Please indicate appropriate turn around time. (minimum turnaround - 3 Days for Lead TCLP and water)

Lead: *Circle analysis and TA time*

Sample Information:

Sample #:	Sample Location:	Sample Date/Time:	Sample Volume (L)
090065Tr5X #1	Area (A) Ceiling	1/22/2013	
090065Tr5X #2	Area (A) Ceiling	1/22/2013	
090065Tr5X #3	Area (B) Wall	1/22/2013	
090065Tr5X #4	Area (B) Wall	1/22/2013	
090065Tr5X #5	Roofing	1/22/2013	

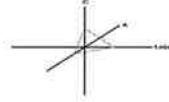
Custody Information:

Samples relinquished: Joel Clark 1/29/13
 Signature / Date / Time

Samples received: Matthew Pomer 1/30/13
 Signature / Date / Time
 3:30PM

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Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
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Fax 972-242-2798



CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Arkansas State Highway & Transportation Dept.

10324 I-30, Room 705
Little Rock, AR 72209

Attn: Robert Pooler

Customer Project: Tract 5X 15067 Hwy 62 East

Reference #: CAL1301676CP

Date: 02/04/13

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved)). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated of asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found by PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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 Phone 972-242-2754
 Fax 972-242-2798



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 12232 Industriplex, Suite 32
 Baton Rouge, LA 70809
 Phone 225-751-5632
 Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: Tract 5X 15067 Hwy 62 East **CA Labs Project #:** CAL1301676CP

Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
----------	---------	--	--	--

No Asbestos Detected.

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Pooler
Arkansas State Highway & Transportation Dept.
 10324 I-30, Room 705
 Little Rock, AR 72209

Customer Project:
 Tract 5X 15067 Hwy 62 East
Turnaround Time:
 3 Days

CA Labs Project #:
 CAL1301676CP

Date: 02/04/13
Samples Received: 1/30/13 3:30PM
Date Of Sampling: 01/22/13
Purchase Order #: 090065

Phone # 501-569-2317
 Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
----------	----------	---------	--	---------------------	--	-----------------------------------	----------------------------

090065Tr5 X 1		1-1	Area (A) Ceiling/ white surfaced white compound	n	None Detected		100% mi,bi,ca
------------------	--	-----	--	---	----------------------	--	---------------

		1-2	white compound (beneath tape)	y	None Detected		100% mi,ca
--	--	-----	--------------------------------------	---	----------------------	--	------------

		1-3	white drywall with brown paper	n	None Detected	19% ce 1% fg	80% qu,gy
--	--	-----	---------------------------------------	---	----------------------	-----------------	-----------

090065Tr5 X 2		2-1	Area (A) Ceiling/ white surfaced white compound	n	None Detected		100% mi,bi,ca
------------------	--	-----	--	---	----------------------	--	---------------

		2-2	white compound (beneath tape)	y	None Detected		100% mi,ca
--	--	-----	--------------------------------------	---	----------------------	--	------------

		2-3	white drywall with brown paper	n	None Detected	18% ce 1% fg	81% qu,gy
--	--	-----	---------------------------------------	---	----------------------	-----------------	-----------

090065Tr5 X 3		3-1	Area (B) Wall/ white surfaced white compound	n	None Detected		100% mi,bi,ca
------------------	--	-----	---	---	----------------------	--	---------------

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
 Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

C.T. Rasmussen

Tanner Rasmussen
 Analyst

Leslie Crisp

QAC
 Leslie Crisp, P.G.

Technical Manager
 Chad Lytle

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 3. Actinolite in association with Vermiculite
 4. Layer not analyzed - attached to previous positive layer and contamination is suspected
 5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
 7. Contamination suspected from other building materials
 8. Favorable scenario for water separation on vermiculite for possible analysis by another method
 9. < 1% Result point counted positive
 10. TEM analysis suggested

CA Labs
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Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Customer Project:
Tract 5X 15067 Hwy 62 East
Turnaround Time:
3 Days

CA Labs Project #:
CAL1301676CP
Date: 02/04/13
Samples Received: 1/30/13 3:30PM
Date Of Sampling: 01/22/13
Purchase Order #: 090065

Phone # 501-569-2317
Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		3-2	white compound (beneath tape)	y	None Detected		100% mi,ca
		3-3	white drywall with brown paper	n	None Detected	19% ce 1% fg	80% qu,gy
090065Tr5 X 4			Area (B) Wall/ white surfaced				
		4-1	white compound	n	None Detected		100% mi,bi,ca
		4-2	white compound (beneath tape)	y	None Detected		100% mi,ca
		4-3	white drywall with brown paper	n	None Detected	19% ce 1% fg	80% qu,gy
090065Tr5 X 5			Roofing/ black roofing shingle				
		5-1	with gray gravel	n	None Detected	11% fg	89% qu,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

C.T. Rasmussen

Tanner Rasmussen
Analyst

Leslie Crisp

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

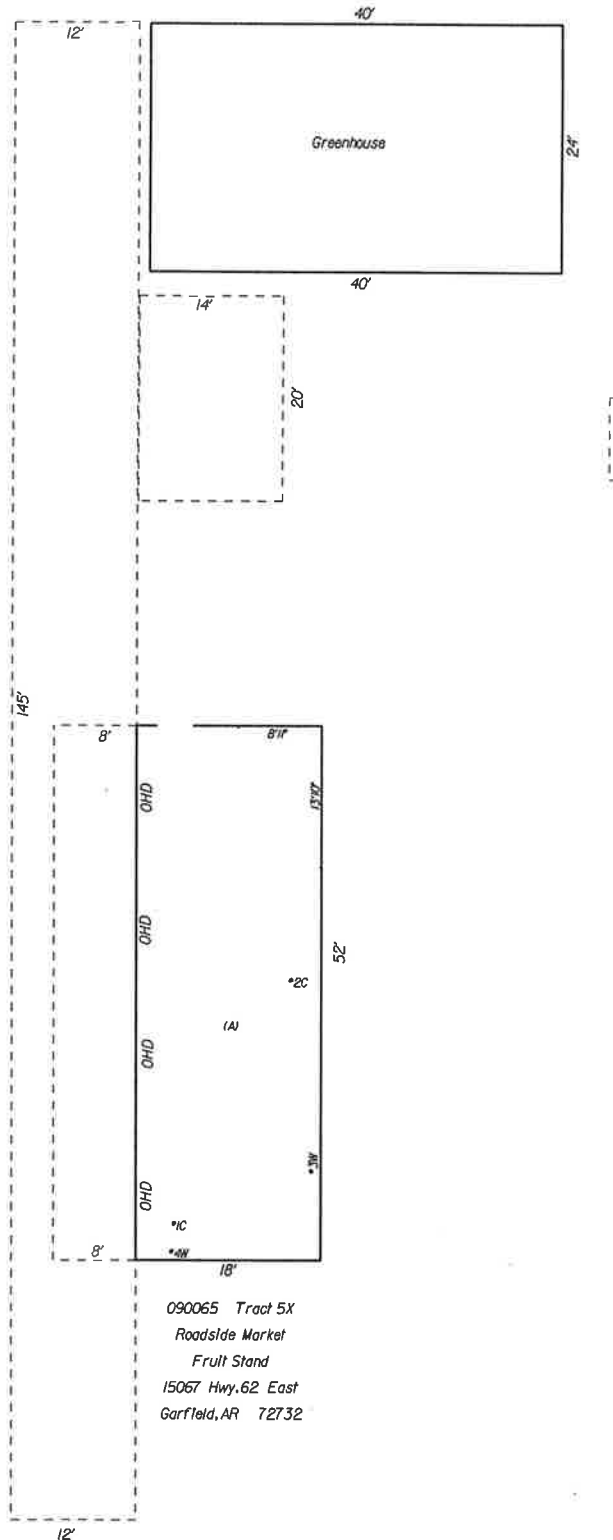
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

INSPECTION FLOOR PLAN

JOB:	090065	PROPERTY LOCATION	INSPECTED BY
TRACT:	5 X	Fruit Stand	Joel Clark (011518)
DATE:	1/23/13	15067 Hwy. 62 East	
		Garfield, AR 72732	

Sample Number	Description/ Location	Sample Number	Description/ Location
#1	A) Ceiling	#11	
#2	A) Ceiling	#12	
#3	A) Wall	#13	
#4	A) Wall	#14	
#5	Roll Roofing	#15	
#6		#16	
#7		#17	
#8		#18	
#9		#19	
#10		#20	

Homogenous Areas:	
Roofing	Metal; Roll Roofing
Siding	Plywood; Roll Roofing
Ceilings	Sheet Rock
Walls	Sheet Rock; Blandex
Floors	Concrete Slab



090065 Tract 5X
 Roadside Market
 Fruit Stand
 15067 Hwy. 62 East
 Garfield, AR 72732



01123-2013



01:23.2013

6X

CA Labs

Crisp Analytical Laboratories, L.L.C.
1929 Old Denton Rd.
Carrollton, TX 75006

Phone: 972-272-2754
Fax: 972-272-2798
Mobile: 214-564-8366

Chain of Custody

Client Name:	AHTD	CA Labs job	CAL# 130/678
Client Address:	P.O. Box 2261 Room #705 Little Rock, AR 72203-2261	Billing Address:	(if different)
phone number:	501-569-2317 or 2318	P.O. # :	090065
fax number:		Project Name:	Tract 6X 13992 N. Old Wire Rd.
Send Reports to:	Joeld.Clark@arkansashighways.com	Project Number:	090065 Garfield, AR 72732

Total # Samples Submitted: 10	Total # Samples to be Analyzed: 10	Material Matrix: Air / Bulk / Water
--------------------------------------	---	---

Asbestos:
samples.

please call ahead for availability of all rush and/or after hours

TEM	TA Time	PLM	TA Time	Optical / IAQ	TA Time
<i>Circle analysis and TA time</i>		<i>Circle analysis and TA time</i>			
AHERA	4 hour	Improved	4 hour	PCM: NIOSH 7400	Note TAT
EPA Level II	8 hour	Interim	8 hour	Allergen Particle:	24 hour
Drinking Water	16 hour		16 hour	tape/bulk/swab	2 days
Wipe	24 hour	AHERA	24 hour	Cyclex-d cassettes	3 days
Micro-vac	2 days		2 days	Air-o-cell cassettes	5-10 days
NIOSH 7402	3 days	Point Count -	3 days	Anderson cultures	Specify
Chatfield Bulk	5 days	(NESHAPS)	5 days	Bulk/swab cultures	Mold or
				Bacteria cultures	bacteria

Please indicate appropriate turn around time. (minimum turnaround - 3 Days for Lead TCLP and water)

Lead: *Circle analysis and TA time*

Sample Information:

Sample #:	Sample Location:	Sample Date/Time:	Sample Volume (L)
090065Tr6X #1	Area (J) Wall	1/23/2013	
090065Tr6X #2	Area (J) Wall	1/23/2013	
090065Tr6X #3	Area (E) Ceiling	1/23/2013	
090065Tr6X #4	Area (A) Ceiling	1/23/2013	
090065Tr6X #5	Area (B) Ceiling	1/23/2013	
090065Tr6X #6	Area (B) Ceiling	1/23/2013	
090065Tr6X #7	Area (B) Floor	1/23/2013	

Custody Information:

Samples relinquished

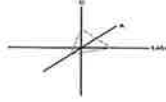
Joel Clark 1/29/13
Signature / Date / Time

Samples received

Matthew Pomeroy 1/30/13
Signature / Date / Time
3:30 PM

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Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Arkansas State Highway & Transportation Dept.

10324 I-30, Room 705
Little Rock, AR 72209

Attn: Robert Pooler

Customer Project: Tract 6X 13992 N Old Wire Rd

Reference #: CAL1301678CP

Date: 02/04/13

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved)). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found by PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

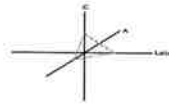
Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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Baton Rouge, LA 70809
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Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project:	Tract 6X 13992 N Old Wire Rd			CA Labs Project #:	CAL1301678CP
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types	
090065Tr6 X 3	3-1	Area (E) Ceiling/ white surfaced white compound	2% Chrysotile	white surfaced white compound white compound (beneath tape) tan surfaced white compound	
	3-2	white compound (beneath tape)	2% Chrysotile		
090065Tr6 X 4	4-1	Area (A) Ceiling/ tan surfaced white compound	2% Chrysotile		
	4-2	white compound (beneath tape)	2% Chrysotile		
090065Tr6 X 5	5-1	Area (B) Ceiling/ white surfaced white compound	2% Chrysotile		
	5-2	white compound (beneath tape)	2% Chrysotile		
090065Tr6 X 6	6-1	Area (B) Ceiling/ white surfaced white compound	2% Chrysotile		
	6-2	white compound (beneath tape)	2% Chrysotile		

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Customer Project:
Tract 6X 13992 N Old Wire Rd
Turnaround Time:
3 Day

CA Labs Project #:
CAL1301678CP
Date: 02/04/13
Samples Received: 1/30/13 3:30PM
Date Of Sampling: 1/23/13
Purchase Order #: 090065

Phone # 501-569-2317
Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
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090065Tr6 X 1		1-1	Area (J) Wall/ white surfaced white compound	n	None Detected		100% mi,bi,ca
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		1-2	white compound (beneath tape)	y	None Detected		100% mi,ca
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		1-3	white drywall with brown paper	n	None Detected	19% ce 1% fg	80% qu,gy
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090065Tr6 X 2		2-1	Area (J) Wall/ white surfaced white compound	n	None Detected		100% mi,bi,ca
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		2-2	white compound (beneath tape)	y	None Detected		100% mi,ca
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		2-3	white drywall with brown paper	n	None Detected	19% ce 1% fg	80% qu,gy
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090065Tr6 X 3		3-1	Area (E) Ceiling/ white surfaced white compound	n	2% Chrysotile		98% qu,mi,ca
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Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method,

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Tanner Rasmussen
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
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Polarized Light Asbestiform Materials Characterization

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Little Rock, AR 72209

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Turnaround Time:
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CA Labs Project #:
CAL1301678CP
Date: 02/04/13
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Date Of Sampling: 1/23/13
Purchase Order #: 090065

Phone # 501-569-2317
Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		3-2	white compound (beneath tape)	y	2% Chrysotile		98% qu,mi,ca
		3-3	white drywall with brown paper	n	None Detected	19% ce 1% fg	80% qu,gy
090065Tr6 X 4			Area (A) Ceiling/ tan surfaced				
		4-1	white compound	n	2% Chrysotile		98% qu,mi,ca
		4-2	white compound (beneath tape)	y	2% Chrysotile		98% qu,mi,ca
		4-3	white drywall with brown paper	n	None Detected	18% ce 1% fg	81% qu,gy
090065Tr6 X 5			Area (B) Ceiling/ white				
		5-1	surfaced white compound	n	2% Chrysotile		98% qu,mi,ca
		5-2	white compound (beneath tape)	y	2% Chrysotile		98% qu,mi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bl - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Tanner Rasmussen
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

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7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
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CA Labs Project #:
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Date Of Sampling: 1/23/13
Purchase Order #: 090065

Phone # 501-569-2317
Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		5-3	white drywall with brown paper	n	None Detected	20% ce 1% fg	79% qu,gy
090065Tr6 X 6			Area (B) Ceiling/ white surfaced white compound				
		6-1		n	2% Chrysotile		98% qu,mi,ca
		6-2	white compound (beneath tape)	y	2% Chrysotile		98% qu,mi,ca
		6-3	white drywall with brown paper	n	None Detected	20% ce 1% fg	79% qu,gy
090065Tr6 X 7			Area (B) Floor/ off-white linoleum				
		7-1		y	None Detected	28% ce 6% fg	66% gy,ma
		7-2	tan mastic	y	None Detected		100% gy,bi
090065Tr6 X 8			Area (B) Floor/ off-white linoleum				
		8-1		y	None Detected	29% ce 6% fg	65% gy,ma

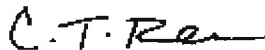
Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

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bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Tanner Rasmussen
Analyst



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Technical Manager
Chad Lytle

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Phone # 501-569-2317
Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Physical Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		8-2	tan mastic	y	None Detected		100% gy,bi
090065Tr6 X 9			Area (D) Wall/ yellow surfaced white compound	n	None Detected		100% mi,bi,ca
		9-2	white drywall with brown paper	n	None Detected	19% ce 1% fg	80% qu,gy
090065Tr6 X 10			Area (D) Wall/ yellow surfaced white compound	n	None Detected		100% mi,bi,ca
		10-2	white compound (beneath tape)	y	None Detected		100% mi,ca
		10-3	white drywall with brown paper	n	None Detected	18% ce 1% fg	81% qu,gy

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
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bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

C.T. Rasmussen

Tanner Rasmussen
Analyst

Leslie Crisp

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

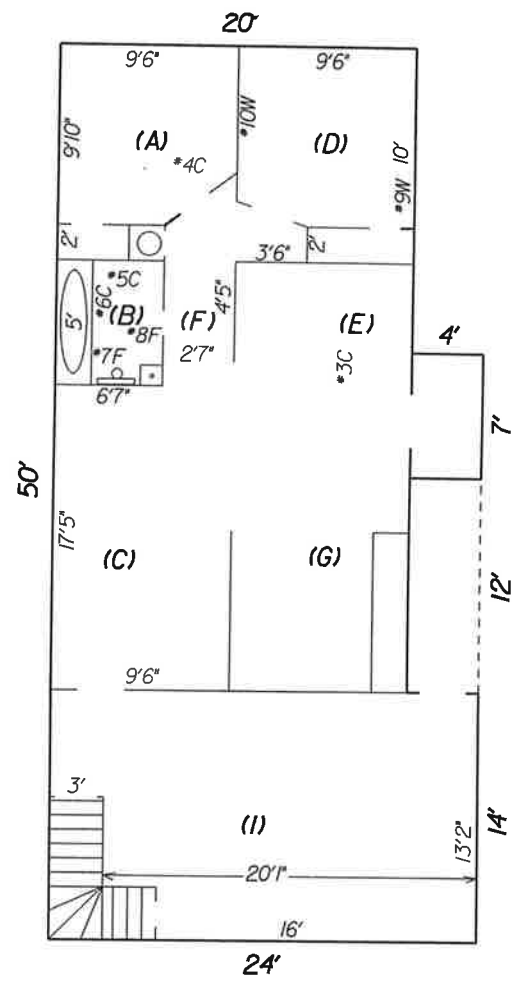
JOB: 090065
 TRACT: 6 X
 DATE: 1/23/13

PROPERTY LOCATION
 1.5-S-Framed Dwelling
 13992 N. Old Wire Road (BATTLEFIELD RD)
 Garfield, AR 72732

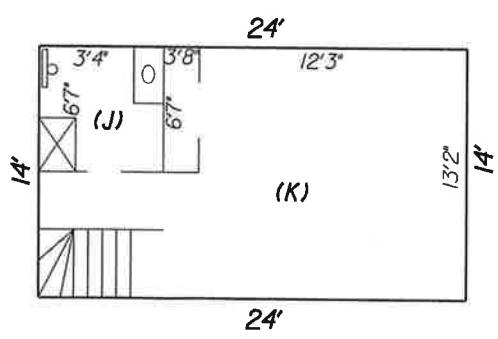
INSPECTED BY
 Joel Clark (011518)

Sample Number	Description/ Locaton	Sample Number	Description/ Location
#1	J) Wall	#11	
#2	J) Wall	#12	
#3	E) Ceiling	#13	
#4	A) Ceiling	#14	
#5	B) Ceiling	#15	
#6	B) Ceiling	#16	
#7	B) Floor	#17	
#8	B) Floor	#18	
#9	D) Floor	#19	
#10	D) Floor	#20	

Homogenous Areas:	
Roofing	Metal
Siding	Plywood Lap Siding
Ceilings	Sheet Rock
Walls (ABIJK) Sheet Rock	CEFG Wood/unfinished Sh. Rock
Floors	Utility Room-Blandex
	ADE) Carpet/Slab; BJ) Ceramic
	CFGIK) Wood Laminate



090065 Tract 6 X
 1.5 S-F Dwelling
 13992 Old Wire Road
 Garfield, AR 72732
 Approx. 1,402 SF

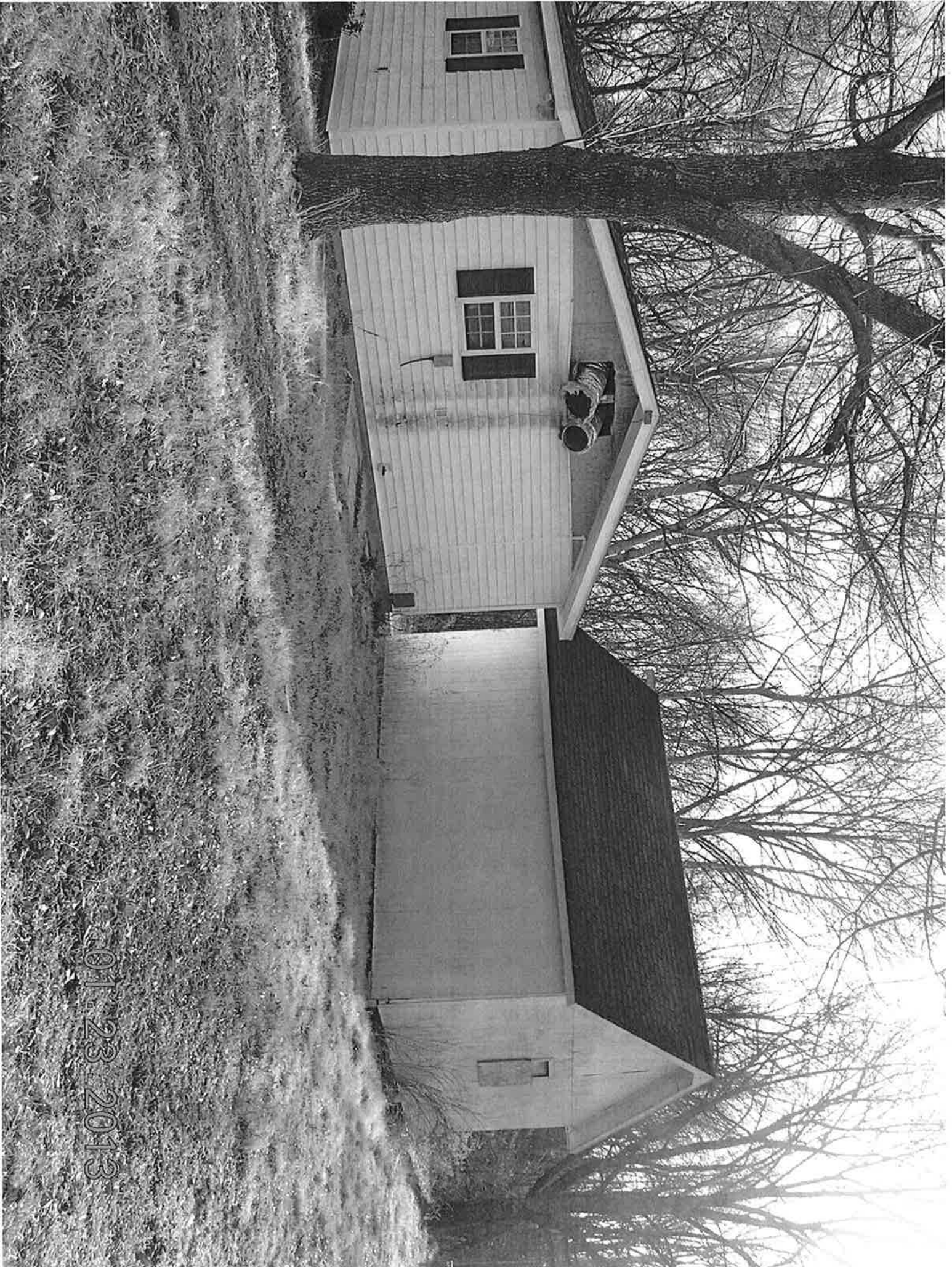


Second Floor

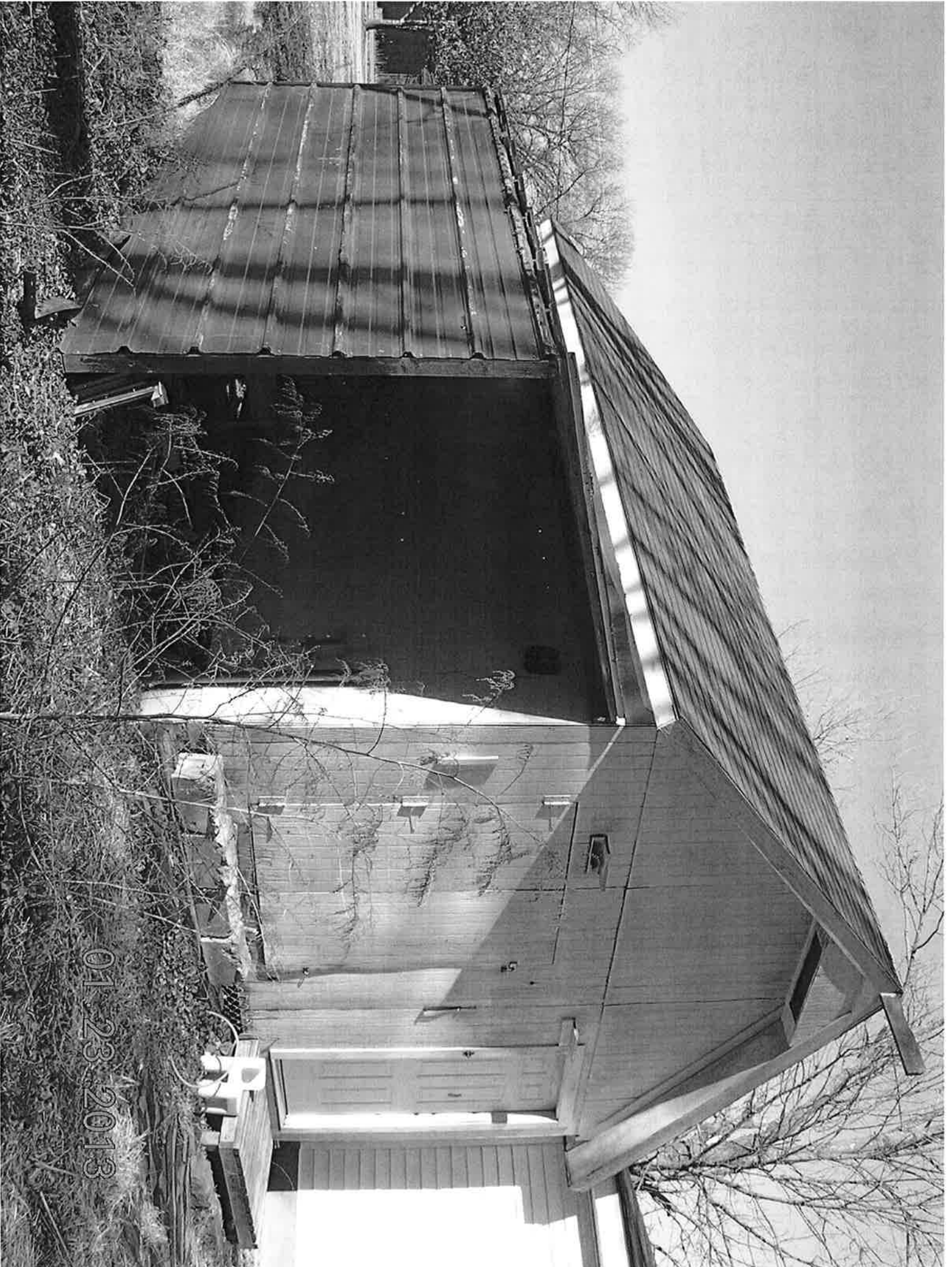


TXED

01-23-2013



01.23.2013



01-23-2013

2 x 50

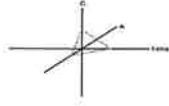


01 23 2013

7 KED

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Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Arkansas State Highway & Transportation Dept.

10324 I-30, Room 705
Little Rock, AR 72209

Attn: Robert Pooler

Customer Project: Tract 7X 15211 Hwy 62 East Garfield, AR 72732

Reference #: CAL1301677RO

Date: 2/4/2013

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved)). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found by PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project:	Tract 7X 15211 Hwy 62 East Garfield, AR 72732		CA Labs Project #:	CAL1301677RO
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
090065 Tr 7X #1	1-1	Area G Ceiling/ tan surfaced tan compound	2% Chrysotile	tan surfaced tan compound tan compound (beneath tape)
	1-2	tan compound (beneath tape)	2% Chrysotile	
090065 Tr 7X #2	2-1	Area I Ceiling/ tan surfaced tan compound	2% Chrysotile	
	2-2	tan compound (beneath tape)	2% Chrysotile	
090065 Tr 7X #7	7-1	Area J Wall/ tan surfaced tan compound	2% Chrysotile	
	7-2	tan compound (beneath tape)	2% Chrysotile	
090065 Tr 7X #8	8-1	Area G Wall/ tan surfaced tan compound	2% Chrysotile	
	8-2	tan compound (beneath tape)	2% Chrysotile	

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

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CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Customer Project:
Tract 7X 15211 Hwy 62 East
Garfield, AR 72732
Turnaround Time:

CA Labs Project #:
CAL1301677RO
Date: 2/4/2013
Samples Received: 1/30/13 3:30PM
Date Of Sampling: 1/24/13
Purchase Order #: 090065

Phone # 501-569-2317
Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Physical Subsample	Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
090065 Tr 7X #1		1-1	Area G Ceiling/ tan surfaced tan compound		n	2% Chrysotile		98% mi,bi,ca
		1-2	tan compound (beneath tape)		y	2% Chrysotile		98% mi,ca
		1-3	white drywall with brown paper		n	None Detected	21% ce	79% qu,gy
090065 Tr 7X #2		2-1	Area I Ceiling/ tan surfaced tan compound		n	2% Chrysotile		98% mi,bi,ca
		2-2	tan compound (beneath tape)		y	2% Chrysotile		98% mi,ca
		2-3	white drywall with brown paper		n	None Detected	24% ce	76% qu,gy
090065 Tr 7X #3		3-1	Area H Ceiling/ white surfaced white compound		n	None Detected		100% mi,bi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Keith Malone
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damage effecting fibrous percentages
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4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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Polarized Light Asbestiform Materials Characterization

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Arkansas State Highway & Transportation Dept.
 10324 I-30, Room 705
 Little Rock, AR 72209

Customer Project:
 Tract 7X 15211 Hwy 62 East
 Garfield, AR 72732
Turnaround Time:

CA Labs Project #:
 CAL1301677RO

Date: 2/4/2013
Samples Received: 1/30/13 3:30PM
Date Of Sampling: 1/24/13
Purchase Order #: 090065

Phone # 501-569-2317
 Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		3-2	white compound (beneath tape)	y	None Detected		100% mi,ca
		3-3	white drywall with brown paper	n	None Detected	23% ce	77% qu,gy
090065 Tr 7X #4			Area B Ceiling/ white surfaced				
		4-1	white compound	n	None Detected		100% mi,bi,ca
		4-2	white compound (beneath tape)	y	None Detected		100% mi,ca
		4-3	white drywall with brown paper	n	None Detected	23% ce	77% qu,gy
090065 Tr 7X #5			Area A Wall/ tan surfaced				
		5-1	white compound	n	None Detected		100% mi,bi,ca
		5-2	white compound (beneath tape)	y	None Detected		100% mi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

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bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Keith Malone
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

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Polarized Light Asbestiform Materials Characterization

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10324 I-30, Room 705
Little Rock, AR 72209

Customer Project:
Tract 7X 15211 Hwy 62 East
Garfield, AR 72732
Turnaround Time:

CA Labs Project #:
CAL1301677RO
Date: 2/4/2013
Samples Received: 1/30/13 3:30PM
Date Of Sampling: 1/24/13
Purchase Order #: 090065

Phone # 501-569-2317
Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		5-3	white drywall with brown paper	n	None Detected	25% ce	75% qu,gy
090065 Tr 7X #6			Area I Wall/ tan surfaced white compound				
		6-1	compound	n	None Detected		100% mi,bi,ca
		6-2	white compound (beneath tape)	y	None Detected		100% mi,ca
		6-3	white drywall with brown paper	n	None Detected	22% ce	78% qu,gy
090065 Tr 7X #7			Area J Wall/ tan surfaced tan compound				
		7-1	compound	n	2% Chrysotile		98% mi,bi,ca
		7-2	tan compound (beneath tape)	y	2% Chrysotile		98% mi,ca
		7-3	white drywall with brown paper	n	None Detected	20% ce	80% qu,gy

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Keith Malone
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

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Polarized Light Asbestiform Materials Characterization

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Customer Project:
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Turnaround Time:

CA Labs Project #:
 CAL1301677RO
Date: 2/4/2013
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Date Of Sampling: 1/24/13
Purchase Order #: 090065

Phone # 501-569-2317
 Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
090065 Tr 7X #8		8-1	Area G Wall/ tan surfaced tan compound	n	2% Chrysotile		98% mi,bi,ca
		8-2	tan compound (beneath tape)	y	2% Chrysotile		98% mi,ca
		8-3	white drywall with brown paper	n	None Detected	21% ce	79% qu,gy
090065 Tr 7X #9		9-1	Area F Floor/ tan linoleum	y	None Detected	18% ce	82% bi
		9-2	tan mastic	y	None Detected		100% mi,ma
090065 Tr 7X #10		10-1	Area F Floor/ tan linoleum	y	None Detected	16% ce	84% bi
		10-2	tan mastic	y	None Detected		100% mi,ma

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Keith Malone
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

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Polarized Light Asbestiform Materials Characterization

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Tract 7X 15211 Hwy 62 East
Garfield, AR 72732
Turnaround Time:

CA Labs Project #:
CAL1301677RO
Date: 2/4/2013
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Date Of Sampling: 1/24/13
Purchase Order #: 090065

Phone # 501-569-2317
Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
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10-3 white leveling compound

y None Detected

100% qu,gy

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

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Analyst



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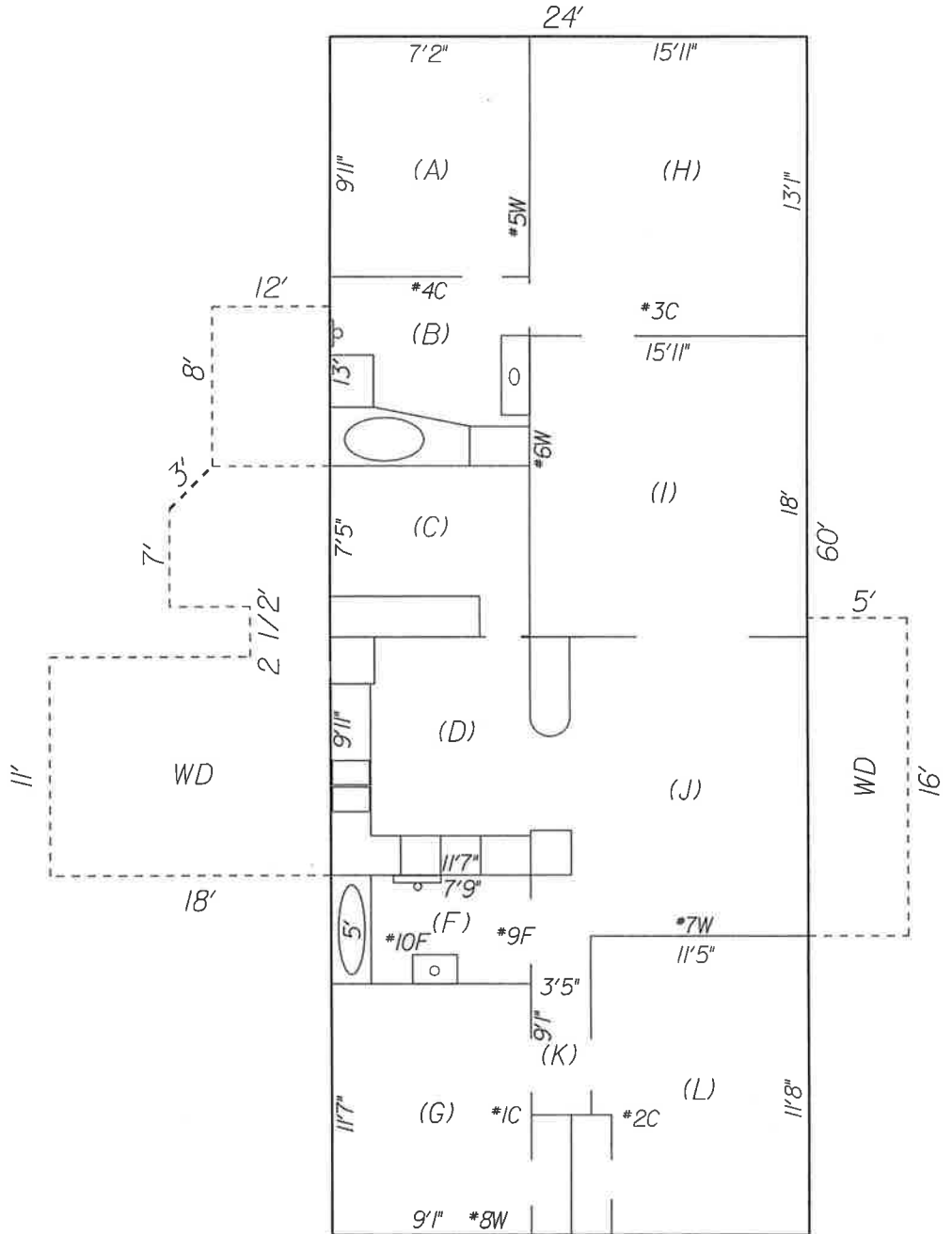
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10. TEM analysis suggested

INSPECTION FLOOR PLAN

JOB:	090065	PROPERTY LOCATION	INSPECTED BY
TRACT:	7 X	1-S-Framed Dwelling	Joel Clark (011518)
DATE:	1/24/13	15211 Hwy. 62	
		Garfield, AR 72732	

Sample Number	Description/ Locaton	Sample Number	Description/ Location
#1	G) Ceiling	#11	
#2	L) Ceiling	#12	
#3	H) Ceiling	#13	
#4	B) Ceiling	#14	
#5	A) Wall	#15	
#6	I) Wall	#16	
#7	J) Wall	#17	
#8	G) Wall	#18	
#9	F) Floor	#19	
#10	F) Floor	#20	

Homogenous Areas:	
Roofing	Composition Shingle
Siding	Vinyl/Wood
Ceilings (CFDGL) Sheet Rock	(ABHI) Textured Sheet Rock
Walls	Sheet Rock
Floors AGH) Carpet	BCD) Ceramic Tile/Concrete
	F) Linoleum/Wood



090065 Tract 7 X
 15211 Hwy.62
 Garfield, AR 72732
 Approx. 1,440 SF

X 8







8A

CA Labs

Crisp Analytical Laboratories, L.L.C
 1929 Old Denton Rd.
 Carrollton, TX 75006

Phone: 972-272-2754
 Fax: 972-272-2798
 Mobile: 214-564-8366

Chain of Custody

Client Name:	AHTD	CA Labs job	CAL# 1302173
Client Address:	P.O. Box 2261 Room #705 Little Rock, AR 72203-2261	Billing Address:	(if different)
phone number:	501-569-2317 or 2318	P.O. # :	090065
fax number:		Project Name:	Tract 8X 15359 Hwy 62 East
Send Reports to:	Joeld.Clark@arkansashighways.com	Project Number:	090065 Garfield, AR 72732

Total # Samples Submitted: 10	Total # Samples to be Analyzed: 10	Material Matrix: Air / Bulk / Water
-------------------------------	------------------------------------	--

Asbestos: please call ahead for availability of all rush and/or after hours samples.

TEM	TA Time	PLM	TA Time	Optical / IAQ	TA Time
<i>Circle analysis and TA time</i>		<i>Circle analysis and TA time</i>	2 hour	PCM: NIOSH 7400	Note TAT
AHERA	4 hour	Improved	4 hour	Allergen Particle:	24 hour
EPA Level II	8 hour	Interim	8 hour	tape/bulk/swab	2 days
Drinking Water	16 hour		16 hour	Cyclex-d cassettes	3 days
Wipe	24 hour	AHERA	24 hour	Air-o-cell cassettes	5-10 days
Micro-vac	2 days		2 days	Anderson cultures	Specify
NIOSH 7402	3 days	Point Count -	3 days	Bulk/swab cultures	Mold or
Chatfield Bulk	5 days	(NESHAPS)	5 days	Bacteria cultures	bacteria

Please indicate appropriate turn around time. (minimum turnaround - 3 Days for Lead TCLP and water)

Lead: Circle analysis and TA time

Sample Information:

Sample #:	Sample Location:	Sample Date/Time:	Sample Volume (L)
090065 Tr. 8X #1	Area (A) Ceiling	2/6/2013	
090065 Tr. 8X #2	Area (B) Ceiling	2/6/2013	
090065 Tr. 8X #3	Area (J) Ceiling	2/6/2013	
090065 Tr. 8X #4	Area (E) Ceiling	2/6/2013	
090065 Tr. 8X #5	Area (C) Wall	2/6/2013	
090065 Tr. 8X #6	Area (D) Wall	2/6/2013	
090065 Tr. 8X #7	Area (I) Wall	2/6/2013	
090065 Tr. 8X #8	Area (K) Wall	2/6/2013	
090065 Tr. 8X #9	Area (E) Floor	2/6/2013	
090065 Tr. 8X #10	Area (A) Floor	2/6/2013	

Custody Information:

Samples relinquished:

Joel Clark 2/13/13 10:00
 Signature / Date / Time

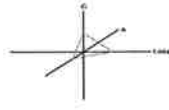
Samples received:

Matthew Vance 02/14/13
 Signature / Date / Time

10:00AM

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Crisp Analytical, L.L.C.
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Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798



CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Arkansas State Highway & Transportation Dept.

10324 I-30, Room 705
Little Rock, AR 72209

Attn: Robert Pooler

Customer Project: Tract 8X 15359 Hwy 62 East Garfield, AR 72732

Reference #: CAL13021173CP

Date: 02/18/13

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found by PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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 Carrollton, TX 75006
 Phone 972-242-2754
 Fax 972-242-2798

CA Labs, L.L.C.
 12232 Industriplex, Suite 32
 Baton Rouge, LA 70809
 Phone 225-751-5632
 Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: Tract 8X 15359 Hwy 62 East Garfield, AR 72732 **CA Labs Project #:** CAL13021173CP

Sample #	Layer #	Analysts	Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
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No Asbestos Detected.

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

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12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Customer Project:
Tract 8X 15359 Hwy 62 East
Garfield, AR 72732
Turnaround Time:
3 Days

CA Labs Project #:
CAL13021173CP
Date: 02/18/13
Samples Received: 2/14/13 10AM
Date Of Sampling: 02/06/13
Purchase Order #: 090065

Phone # 501-569-2317
Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
090065 Tr. 8X 1		1-1	Area (A) Ceiling/ white surfaced white compound	n	None Detected		100% mi,bi,ca
		1-2	white compound (beneath tape)	y	None Detected		100% mi,ca
		1-3	white drywall with brown paper	n	None Detected	19% ce 1% fg	80% qu,gy
090065 Tr. 8X 2		2-1	Area (B) Ceiling/ white surfaced white compound	n	None Detected		100% mi,bi,ca
		2-2	white drywall with brown paper	n	None Detected	18% ce 1% fg	81% qu,gy
090065 Tr. 8X 3		3-1	Area (J) Ceiling/ white surfaced white compound	n	None Detected		100% mi,bi,ca
		3-2	white drywall with brown paper	n	None Detected	20% ce 1% fg	79% qu,gy

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for
identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Tanner Rasmussen
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Customer Project:
Tract 8X 15359 Hwy 62 East
Garfield, AR 72732

CA Labs Project #:
CAL13021173CP

Phone # 501-569-2317
Fax # 501-569-2018

Turnaround Time:
3 Days

Date: 02/18/13
Samples Received: 2/14/13 10AM
Date Of Sampling: 02/06/13
Purchase Order #: 090065

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
090065 Tr. 8X 4		4-1	Area (E) Ceiling/ white surfaced white compound	n	None Detected		100% mi,bi,ca
		4-2	white drywall with brown paper	n	None Detected	19% ce 1% fg	80% qu,gy
090065 Tr. 8X 5		5-1	Area (C) Wall/ light green surfaced white compound	n	None Detected		100% mi,bi,ca
		5-2	white drywall with brown paper	n	None Detected	18% ce 1% fg	81% qu,gy
090065 Tr. 8X 6		6-1	Area (D) Wall/ blue surfaced white compound	n	None Detected		100% mi,bi,ca
		6-2	white drywall with brown paper	n	None Detected	19% ce 1% fg	80% qu,gy
090065 Tr. 8X 7		7-1	Area (I) Wall/ purple surfaced white compound	n	None Detected		100% mi,bi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

C.T. Rasmussen

Tanner Rasmussen
Analyst

Leslie Crisp

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Customer Project:
Tract 8X 15359 Hwy 62 East
Garfield, AR 72732

CA Labs Project #:
CAL13021173CP

Phone # 501-569-2317
Fax # 501-569-2018

Turnaround Time:
3 Days

Date: 02/18/13
Samples Received: 2/14/13 10AM
Date Of Sampling: 02/06/13
Purchase Order #: 090065

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		7-2	white drywall with brown paper	n	None Detected	18% ce 1% fg	81% qu,gy
090065 Tr. 8X 8			Area (K) Wall/ light green surfaced white compound	n	None Detected		100% mi,bi,ca
		8-2	white drywall with brown paper	n	None Detected	19% ce 1% fg	80% qu,gy
090065 Tr. 8X 9			Area (E) Floor/ black self- adhesive floor tile	y	None Detected		100% qu,gy,ma
		9-2	tan mastic	y	None Detected		100% gy,bi
090065 Tr. 8X 10			Area (A) Floor/ red self- adhesive floor tile	y	None Detected		100% qu,gy,ma
		10-2	clear mastic	y	None Detected		100% bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for
identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Tanner Rasmussen
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

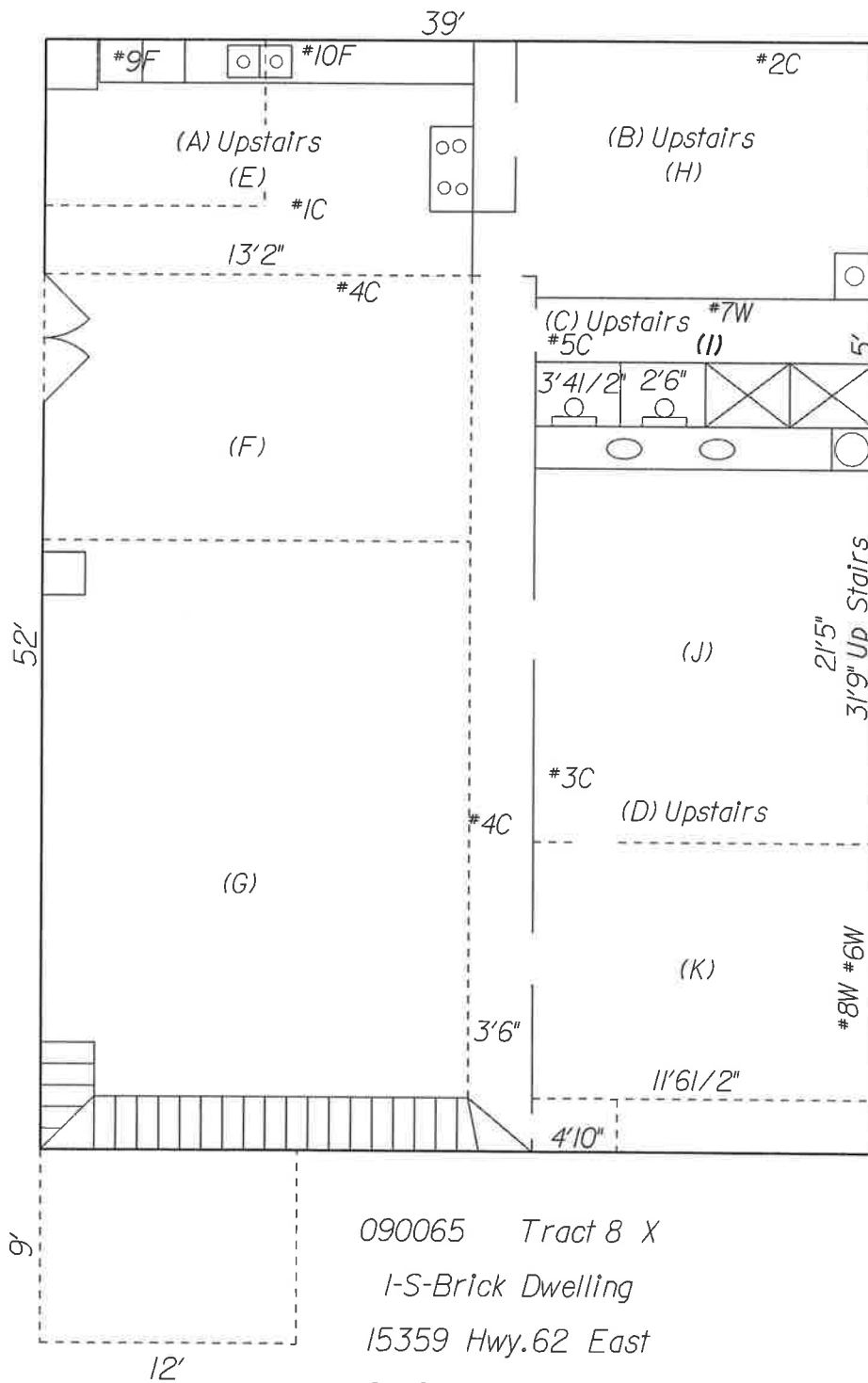
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

INSPECTION FLOOR PLAN

JOB:	090065	PROPERTY LOCATION	INSPECTED BY
TRACT:	8 X	2-S-F Dwelling	Joel Clark (011518)
DATE:	2/6/13	15359 Hwy. 62 East	
		Garfield, AR 72732	

Sample Number	Description/ Locaton	Sample Number	Description/ Location
#1	E) Ceiling	#11	H) Floor
#2	C) Ceiling	#12	H) Floor
#3	H) Ceiling	#13	D) Floor
#4	H) Ceiling	#14	D) Floor
#5	A) Wall	#15	
#6	H) Wall	#16	
#7	D) Wall	#17	
#8	G) Floor	#18	
#9	E) Floor	#19	
#10	G) Floor	#20	

Homogenous Areas:	
Roofing	Composition Shingle
Siding	Brick; Wood
Ceilings G & H) Popcorn	(CDEF)Trialed On
Walls (A & B) Painted Wood	(C-H) Sheet Rock
Floors (ABC) Carpet/Slab;	(D,H) Carpet/Linoleum;
E & F) Parka Wood/Linoleum	G) Tile/Slab



090065 Tract 8 X
 I-S-Brick Dwelling
 15359 Hwy.62 East
 Garfield, AR 72732
 Approx. 1,664 SF



8x8



B X R





8XR



Crisp Analytical Laboratories, L.L.C
 1929 Old Denton Rd.
 Carrollton, TX 75006

Phone: 972-272-2754
 Fax: 972-272-2798
 Mobile: 214-564-8366

Chain of Custody

Client Name: <u>AHTD</u>	CA Labs job CAL#
Client Address: <u>P.O. Box 2261</u> <u>Room #705</u> <u>Little Rock, AR 72203-2261</u>	Billing Address: _____ (if different) _____
phone number: <u>501-569-2317 or 2318</u>	P.O. # : <u>090065 1-S-Brick Dwelling</u>
fax number: _____	Project Name: <u>Tract 8XR 15359 Hwy 62 East</u>
Send Reports to: <u>Joeld.Clark@arkansashighways.com</u>	Project Number: <u>090065 Garfield, AR 72732</u>

Total # Samples Submitted: 14	Total # Samples to be Analyzed: 14	Material Matrix: Air / Bulk / Water
--------------------------------------	---	---

Asbestos: please call ahead for availability of all rush and/or after hours samples.

TEM	TA Time	PLM	TA Time	Optical / IAQ	TA Time
<i>Circle analysis and TA time</i>		<i>Circle analysis and TA time</i>		PCM: NIOSH 7400	Note TAT
AHERA	4 hour	Improved	4 hour	Allergen Particle:	24 hour
EPA Level II	8 hour	Interim	8 hour	tape/bulk/swab	2 days
Drinking Water	16 hour		16 hour	Cyclex-d cassettes	3 days
Wipe	24 hour	<u>AHERA</u>	24 hour	Air-o-cell cassettes	5-10 days
Micro-vac	2 days		2 days	Anderson cultures	Specify
NIOSH 7402	3 days	Point Count -	<u>3 days</u>	Bulk/swab cultures	Mold or
Chatfield Bulk	5 days	(NESHAPS)	5 days	Bacteria cultures	bacteria

Please indicate appropriate turn around time. (minimum turnaround - 3 Days for Lead TCLP and water)

Lead: *Circle analysis and TA time*

Sample Information:

Sample #:	Sample Location:	Sample Date/Time:	Sample Volume (L)
090065 Tr. 8XR #1	Area (E) Ceiling	2/6/2013	
090065 Tr. 8XR #2	Area (C) Ceiling	2/6/2013	
090065 Tr. 8XR #3	Area (H) Ceiling	2/6/2013	
090065 Tr. 8XR #4	Area (H) Ceiling	2/6/2013	
090065 Tr. 8XR #5	Area (A) Wall	2/6/2013	
090065 Tr. 8XR #6	Area (H) Wall	2/6/2013	
090065 Tr. 8XR #7	Area (D) Wall	2/6/2013	
090065 Tr. 8XR #8	Area (G) Floor	2/6/2013	
090065 Tr. 8XR #9	Area (E) Floor	2/6/2013	
090065 Tr. 8XR #10	Area (G) Floor	2/6/2013	

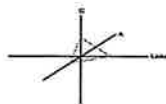
Custody Information:

Samples relinquished: _____
 Signature / Date / Time

Samples received: _____
 Signature / Date / Time

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1929 Old Denton Road
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Fax 972-242-2798



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12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Arkansas State Highway & Transportation Dept.

10324 I-30, Room 705
Little Rock, AR 72209

Attn: Robert Pooler

Customer Project: 1-S-Brick Dwelling, Tract 8XR 15359 Hwy 62 East

Reference #: CAL13021168MR

Date: 2/19/2013

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved)). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found by PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one of these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798**CA Labs, L.L.C.**12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634Overview of Project Sample Material Containing Asbestos**Customer Project:** 1-S-Brick Dwelling, Tract 8XR 15359 Hwy 62 East **CA Labs Project #:** CAL13021168MR

Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
090065 Tr. 8XR #1	1-1	Area (E) Ceiling/ white surfaced white compound	3% Chrysotile	white surfaced white compound white compound (beneath tape) blue surfaced white compound green surfaced white compound tan linoleum
	1-2	white compound (beneath tape)	3% Chrysotile	
090065 Tr. 8XR #2	2-1	Area (C) Ceiling/ white surfaced white compound	3% Chrysotile	
	2-2	white compound (beneath tape)	3% Chrysotile	
090065 Tr. 8XR #6	6-1	Area (H) Wall/ blue surfaced white compound	2% Chrysotile	
	6-2	white compound (beneath tape)	2% Chrysotile	
090065 Tr. 8XR #7	7-1	Area (D) Wall/ green surfaced white compound	2% Chrysotile	
	7-2	white compound (beneath tape)	2% Chrysotile	

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
ml - mica
ve - vermiculite
ot - otherpe - perlite
qu - quartzfg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)

pa - palygorskite (clay)

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

CA LabsDedicated to
Quality**Crisp Analytical, L.L.C.**1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798**CA Labs, L.L.C.**12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634Overview of Project Sample Material Containing Asbestos**Customer Project:** 1-S-Brick Dwelling, Tract 8XR 15359 Hwy 62 East **CA Labs Project #:** CAL13021168MR

Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
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090065 Tr. 8XR #8	8-4	tan linoleum	22% Chrysotile	
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090065 Tr. 8XR #9	9-5	tan linoleum	24% Chrysotile	
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Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

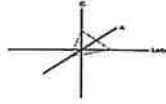
Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastonite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

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Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Customer Project:
1-S-Brick Dwelling, Tract 8XR
15359 Hwy 62 East
Turnaround Time:
3 Days

CA Labs Project #:
CAL13021168MR
Date: 2/19/2013
Samples Received: 02/14/13 10AM
Date Of Sampling: 2/6/2013
Purchase Order #: 090065

Phone # 501-569-2317
Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
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090065 Tr. 8XR #1		1-1	Area (E) Ceiling/ white surfaced white compound	n	3% Chrysotile		97% mi,bi,ca
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		1-2	white compound (beneath tape)	y	3% Chrysotile		97% mi,bi,ca
--	--	-----	-------------------------------	---	----------------------	--	--------------

		1-3	white drywall with brown paper	n	None Detected	18% ce 2% fg	80% qu,gy
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090065 Tr. 8XR #2		2-1	Area (C) Ceiling/ white surfaced white compound	n	3% Chrysotile		97% mi,bi,ca
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		2-2	white compound (beneath tape)	y	3% Chrysotile		97% mi,bi,ca
--	--	-----	-------------------------------	---	----------------------	--	--------------

		2-3	white drywall with brown paper	n	None Detected	19% ce 1% fg	80% qu,gy
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090065 Tr. 8XR #3		3-1	Area (H) Ceiling/ white surfaced white compound	n	None Detected		100% qu,bi,ca
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Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organlc	pe - perille	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Julio Robles
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Customer Project:
1-S-Brick Dwelling, Tract 8XR
15359 Hwy 62 East
Turnaround Time:
3 Days

CA Labs Project #:
CAL13021168MR
Date: 2/19/2013
Samples Received: 02/14/13 10AM
Date Of Sampling: 2/6/2013
Purchase Order #: 090065

Phone # 501-569-2317
Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		3-2	white drywall with brown paper	n	None Detected	18% ce 1% fg	81% qu,gy
090065 Tr. 8XR #4		4-1	Area (H) Ceiling/ white surfaced white compound	n	None Detected		100% qu,bi,ca
		4-2	white drywall with brown paper	n	None Detected	18% ce 2% fg	80% qu,gy
090065 Tr. 8XR #5		5-1	Area (A) Wall/ white surfaced white compound	n	None Detected		100% mi,bi,ca
		5-2	white drywall with brown paper	n	None Detected	19% ce 1% fg	80% qu,gy
090065 Tr. 8XR #6		6-1	Area (H) Wall/ blue surfaced white compound	n	2% Chrysotile		98% mi,bi,ca
		6-2	white compound (beneath tape)	y	2% Chrysotile		98% mi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Julio Robles
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages affecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

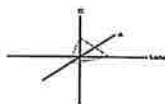
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Customer Project:
1-S-Brick Dwelling, Tract 8XR
15359 Hwy 62 East
Turnaround Time:
3 Days

CA Labs Project #:
CAL13021168MR
Date: 2/19/2013
Samples Received: 02/14/13 10AM
Date Of Sampling: 2/6/2013
Purchase Order #: 090065

Phone # 501-569-2317
Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
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		6-3		white drywall with brown paper	n	None Detected	18% ce 2% fg	80% qu,gy
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090065 Tr. 8XR #7		7-1		Area (D) Wall/ green surfaced white compound	n	2% Chrysotile		98% mi,bi,ca
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		7-2		white compound (beneath tape)	y	2% Chrysotile		98% mi,ca
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		7-3		white drywall with brown paper	n	None Detected	18% ce 1% fg	81% qu,gy
--	--	-----	--	--------------------------------	---	---------------	-----------------	-----------

090065 Tr. 8XR #8		8-1		Area (G) Floor/ tan mastic	y	None Detected		100% gy,bi
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		8-2		tan self-adhesive floor tile	y	None Detected		100% qu,gy,ma
--	--	-----	--	------------------------------	---	---------------	--	---------------

		8-3		tan mastic	y	None Detected		100% gy,bi
--	--	-----	--	------------	---	---------------	--	------------

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Julio Robles
Analyst

QAC
Leslie Crisp, P.G.

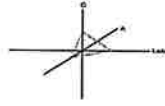
Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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Baton Rouge, LA 70809
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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Customer Project:
1-S-Brick Dwelling, Tract 8XR
15359 Hwy 62 East
Turnaround Time:
3 Days

CA Labs Project #:
CAL13021168MR
Date: 2/19/2013
Samples Received: 02/14/13 10AM
Date Of Sampling: 2/6/2013
Purchase Order #: 090065

Phone # 501-569-2317
Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		8-4		tan linoleum	y	22% Chrysotile		78% gy,ma
4		8-5		tan mastic				
090065 Tr. 8XR #9		9-1		Area (E) Floor/ tan mastic	y	None Detected		100% gy,bi
		9-2		white self-adhesive floor tile	y	None Detected		100% qu,gy,ma
		9-3		clear mastic	y	None Detected		100% gy,bi
		9-4		tan mastic	y	None Detected		100% gy,bi
		9-5		tan linoleum	y	24% Chrysotile		76% gy,ma

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Julio Robles
Analyst

QAC
Leslie Crisp, P.G.

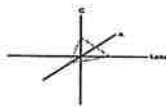
Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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Baton Rouge, LA 70809
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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Customer Project:
1-S-Brick Dwelling, Tract 8XR
15359 Hwy 62 East
Turnaround Time:
3 Days

CA Labs Project #:
CAL13021168MR
Date: 2/19/2013
Samples Received: 02/14/13 10AM
Date Of Sampling: 2/6/2013
Purchase Order #: 090065

Phone # 501-569-2317
Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
----------	-------------	------------	-----------------------	-------------------------	-------------------------------	--	--------------------------------------	-------------------------------

4 9-6 tan mastic

090065 Tr. 8XR #10		10-1		Area (G) Floor/ white self- adhesive floor tile	y	None Detected		100% qu,gy,ma
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		10-2		tan mastic	y	None Detected		100% gy,bi
--	--	------	--	------------	---	---------------	--	------------

		10-3		white self-adhesive floor tile	y	None Detected		100% qu,gy,ma
--	--	------	--	--------------------------------	---	---------------	--	---------------

		10-4		tan mastic	y	None Detected		100% gy,bi
--	--	------	--	------------	---	---------------	--	------------

		10-5		tan linoleum	y	None Detected	9% ce 3% fg	88% gy,ma
--	--	------	--	--------------	---	---------------	----------------	-----------

		10-6		tan mastic	y	None Detected		100% gy,bi
--	--	------	--	------------	---	---------------	--	------------

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for
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or - organic	pa - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Julio Robles
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
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7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Customer Project:
1-S-Brick Dwelling, Tract 8XR
15359 Hwy 62 East
Turnaround Time:
3 Days

CA Labs Project #:
CAL13021168MR
Date: 2/19/2013
Samples Received: 02/14/13 10AM
Date Of Sampling: 2/6/2013
Purchase Order #: 090065

Phone # 501-569-2317
Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
090065 Tr. 8XR #11		11-1	Area (H) Floor/ tan linoleum with gray backing	y	None Detected	14% ce	86% gy,ma
090065 Tr. 8XR #12		12-1	Area (H) Floor/ tan linoleum with gray backing	y	None Detected	15% ce	85% gy,ma
090065 Tr. 8XR #13		13-1	Area (D) Floor/ tan self- adhesive floor tile	y	None Detected		100% qu,gy,ma
		13-2	tan mastic	y	None Detected		100% gy,bi
090065 Tr. 8XR #14		14-1	Area (D) Floor/ tan self- adhesive floor tile	y	None Detected		100% qu,gy,ma
		14-2	tan mastic	y	None Detected		100% gy,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Julio Robles
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

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7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

INSPECTION FLOOR PLAN

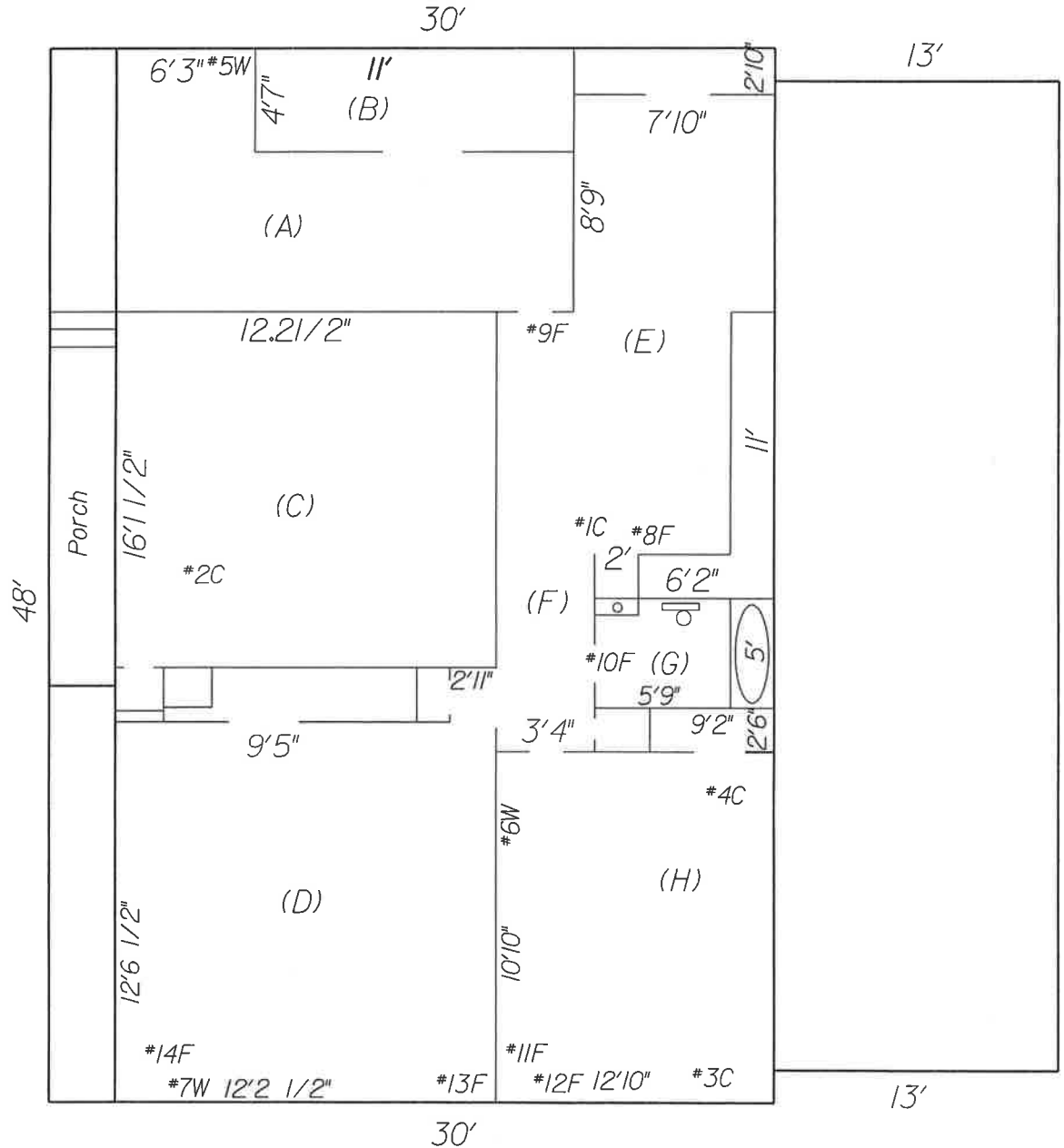
JOB: 090065
 TRACT: 8 XR
 DATE: 2/6/13

PROPERTY LOCATION
 1-S-F Dwelling
 15359 Hwy. 62 East
 Garfield, AR 72732

INSPECTED BY
 Joel Clark (011518)
 CECC 800-432-9720
 CECC#52 465 883; Pole #256096

Sample Number	Description/ Location	Sample Number	Description/ Location
#1	E) Ceiling	#11	H) Floor
#2	C) Ceiling	#12	H) Floor
#3	H) Ceiling	#13	D) Floor
#4	H) Ceiling	#14	D) Floor
#5	A) Wall	#15	
#6	H) Wall	#16	
#7	D) Wall	#17	
#8	G) Floor	#18	
#9	E) Floor	#19	
#10	G) Floor	#20	

Homogenous Areas:	
Roofing	Composition Shingle
Siding	Brick; Wood
Ceilings G & H) Popcorn	(CDEF) Trialed On
Walls (A & B) Painted Wood	(C-H) Sheet Rock
Floors (ABC) Carpet/Slab;	(D,H) Carpet/Linoleum;
E & F) Parka Wood/Linoleum	G) Tile/Slab



090065 Tract 8 XR
 1-S-Brick & Frame
 15359 Hwy.62 East
 Garfield, AR 72732

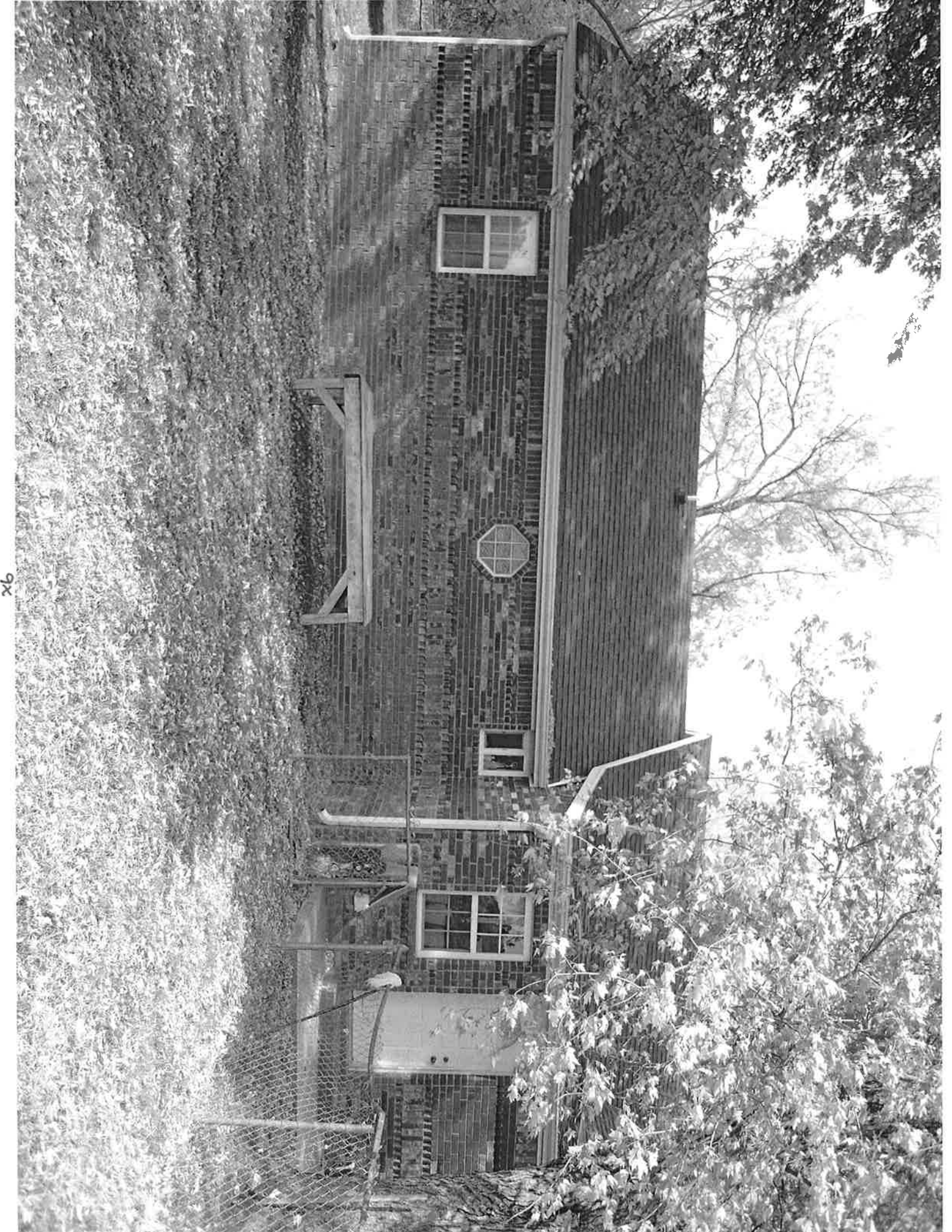


96





96



x/b

96



CA Labs

Crisp Analytical Laboratories, L.L.C.
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Carrollton, TX 75006

Phone: 972-272-2754
Fax: 972-272-2798
Mobile: 214-564-8366

Chain of Custody

Client Name:	AHTD	CA Labs job	CAL# 13031896
Client Address:	P.O. Box 2261 Room #705 Little Rock, AR 72203-2261	Billing Address: (if different)	
phone number:	501-569-2317 or 2318	P.O. # :	090065
fax number:		Project Name:	Tract 9X 15467 Boundry Line Rd.
Send Reports to:	joeld.Clark@arkansashighways.com	Project Number:	090065 Garfield, AR 72732

Total # Samples Submitted: 6	Total # Samples to be Analyzed: 6	Material Matrix: Air / <u>Bulk</u> / Water
-------------------------------------	--	--

Asbestos: please call ahead for availability of all rush and/or after hours samples.

TEM	TA Time	PLM	TA Time	Optical / IAQ	TA Time
<i>Circle analysis and TA time</i>		<i>Circle analysis and TA time</i>			
AHERA	4 hour	Improved	4 hour	PCM: NIOSH 7400	Note TAT
EPA Level II	8 hour	Interim	8 hour	Allergen Particle:	24 hour
Drinking Water	16 hour		16 hour	tape/bulk/swab	2 days
Wipe	24 hour	AHERA	24 hour	Cyclex-d cassettes	3 days
Micro-vac	2 days		2 days	Air-o-cell cassettes	5-10 days
NIOSH 7402	3 days	Point Count -	3 days	Anderson cultures	Specify
Chatfield Bulk	5 days	(NESHAPS)	5 days	Bulk/swab cultures	Mold or
				Bacteria cultures	bacteria

Please indicate appropriate turn around time. (minimum turnaround - 3 Days for Lead TCI.P and water)
Lead: Circle analysis and TA time

Sample Information:

Sample #:	Sample Location:	Sample Date/Time:	Sample Volume (L)
090065 Tr. 9X #1	Area (J) Ceiling	3/6/2013	
090065 Tr. 9X #2	Area (G) Ceiling	3/6/2013	
090065 Tr. 9X #3	Area (A) Ceiling	3/6/2013	
090065 Tr. 9X #4	Area (B) Wall	3/6/2013	
090065 Tr. 9X #5	Area (I) Wall	3/6/2013	
090065 Tr. 9X #6	Area (C) Wall	3/6/2013	

Custody Information:

Samples relinquished:

Joel Clark 3/7/13 10:05
Signature / Date / Time

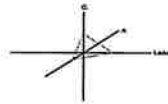
Samples received:

Matthew Roman 3/7/13
Signature / Date / Time

10:30AM

CA Labs
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Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798



CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Arkansas State Highway & Transportation Dept.

10324 I-30, Room 705
Little Rock, AR 72209

Attn: Robert Pooler

Customer Project: 090065 Tract 9X 15467 Boundry Line Rd

Reference #: CAL13031896CP

Date: 03/12/13

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved)). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found by PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one of these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

CA Labs
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Crisp Analytical, L.L.C.
 1929 Old Denton Road
 Carrollton, TX 75006
 Phone 972-242-2754
 Fax 972-242-2798

CA Labs, L.L.C.
 12232 Industriplex, Suite 32
 Baton Rouge, LA 70809
 Phone 225-751-5632
 Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project:		090065 Tract 9X 15467 Boundry Line Rd		CA Labs Project #:	CAL13031896CP
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types	
090065 TR.9X-3	3-2	white compound (beneath tape)	2% Chrysotile	white compound (beneath tape) tan surfaced white compound	
090065 TR.9X-6	6-1	Area (C) Wall/ tan surfaced white compound	2% Chrysotile		
	6-2	white compound (beneath tape)	2% Chrysotile		

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
 AIHA LAP, LLC Laboratory #102929

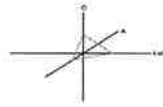
Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ol - other		ka - kaolin (clay)	

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

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Crisp Analytical, L.L.C.
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CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Customer Project:
090065 Tract 9X 15467
Boundry Line Rd
Turnaround Time:
2 Days

CA Labs Project #:
CAL13031896CP
Date: 03/12/13
Samples Received: 3/8/13 10:30AM
Date Of Sampling: 03/06/13
Purchase Order #: 090065

Phone # 501-569-2317
Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
090065 Area (J) Ceiling/ blue surfaced							
TR.9X-1		1-1	white compound	n	None Detected		100% mi,bi,ca
		1-2	white compound (beneath tape)	y	None Detected		100% mi,ca
		1-3	white drywall with brown paper	n	None Detected	21% ce	79% qu,gy
090065 Area (G) Ceiling/ tan surfaced							
TR.9X-2		2-1	white compound	n	None Detected		100% mi,bi,ca
		2-2	white compound (beneath tape)	y	None Detected		100% mi,ca
		2-3	white drywall with brown paper	n	None Detected	22% ce	78% qu,gy
090065 Area (A) Ceiling/ green							
TR.9X-3		3-1	surfaced white compound	n	None Detected		100% mi,bi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

C.T. Rasmussen

Tanner Rasmussen
Analyst

Leslie Crisp

QAC
Leslie Crisp, P.G.

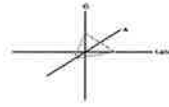
Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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Carrollton, TX 75006
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Fax 972-242-2798



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12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Customer Project:
090065 Tract 9X 15467
Boundry Line Rd
Turnaround Time:
2 Days

CA Labs Project #:
CAL13031896CP
Date: 03/12/13
Samples Received: 3/8/13 10:30AM
Date Of Sampling: 03/06/13
Purchase Order #: 090065

Phone # 501-569-2317
Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		3-2	white compound (beneath tape)	y	2% Chrysotile		98% mi,ca
		3-3	white drywall with brown paper	n	None Detected	21% ce	79% qu,gy
090065 TR.9X-4			Area (B) Wall/ black surfaced				
		4-1	white compound	n	None Detected		100% mi,bi,ca
		4-2	white compound (beneath tape)	y	None Detected		100% mi,ca
		4-3	white drywall with brown paper	n	None Detected	22% ce	78% qu,gy
090065 TR.9X-5			Area (I) Wall/ green surfaced				
		5-1	white compound	n	None Detected		100% mi,bi,ca
		5-2	white compound (beneath tape)	y	None Detected		100% mi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

C.T. Rasmussen

Tanner Rasmussen
Analyst

Leslie Crisp

QAC
Leslie Crisp, P.G.

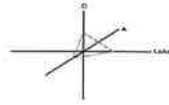
Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and conlamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Customer Project:
090065 Tract 9X 15467
Boundry Line Rd
Turnaround Time:
2 Days

CA Labs Project #:
CAL13031896CP
Date: 03/12/13
Samples Received: 3/8/13 10:30AM
Date Of Sampling: 03/06/13
Purchase Order #: 090065

Phone # 501-569-2317
Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		5-3	white drywall with brown paper	n	None Detected	23% ce	77% qu,gy
090065 TR.9X-6			Area (C) Wall/ tan surfaced				
		6-1	white compound	n	2% Chrysotile		98% mi,bi,ca
		6-2	white compound (beneath tape)	y	2% Chrysotile		98% mi,ca
		6-3	white drywall with brown paper	n	None Detected	21% ce	79% qu,gy

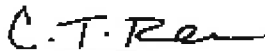
Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

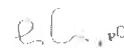
Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Tanner Rasmussen
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages affecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

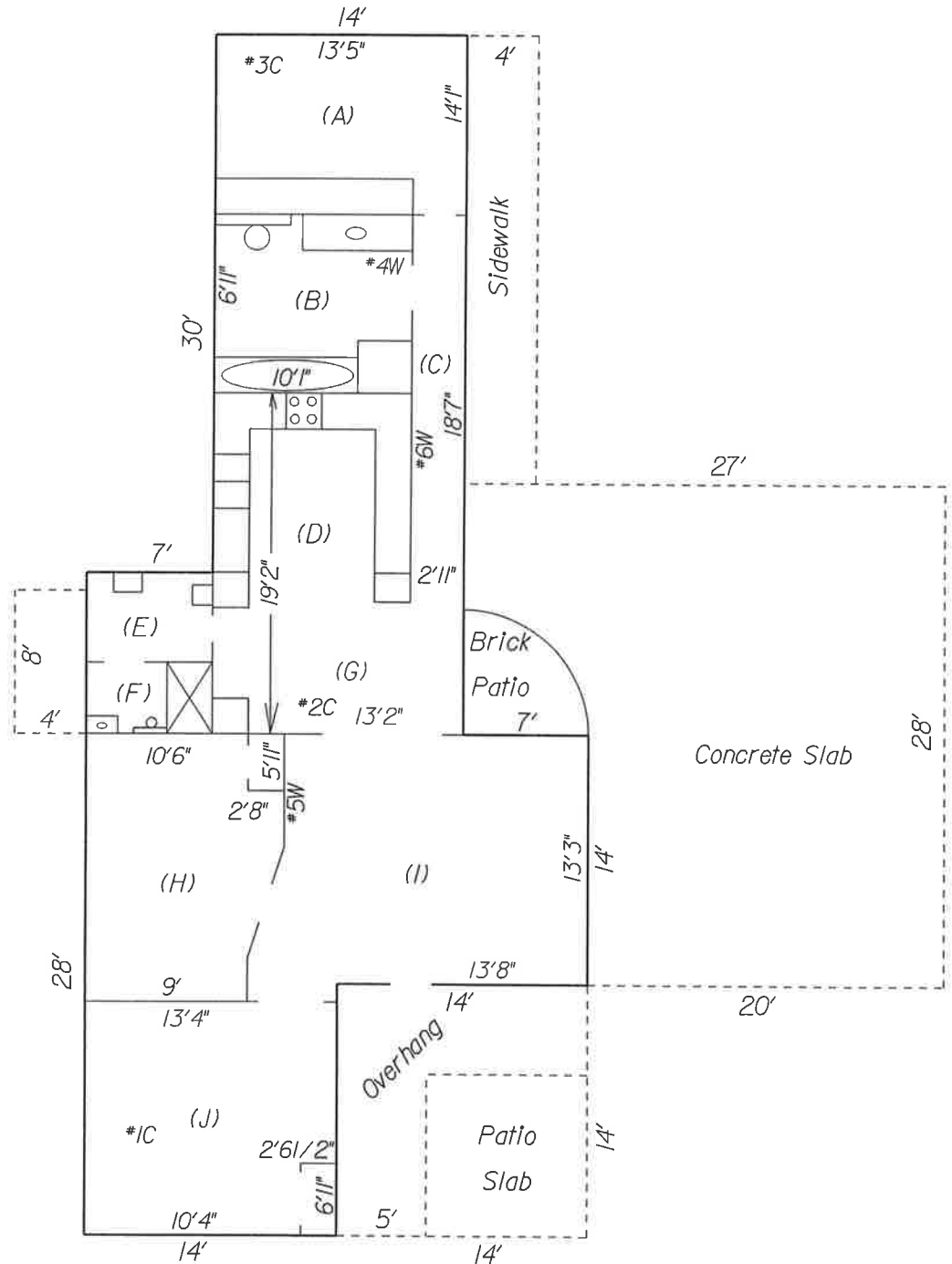
JOB: 090065
 TRACT: 9 X
 DATE: 3/6/20013

PROPERTY LOCATION
 1-S-Brick Dwelling
 15467 Boundary Line Road
 Garfield, AR 72732

INSPECTED BY
 Joel Clark (011518)

Sample Number	Description/Location	Sample Number	Description/Location
#1	J) Ceiling	#11	
#2	G) Ceiling	#12	
#3	A) Ceiling	#13	
#4	B) Wall	#14	
#5	I) Wall	#15	
#6	C) Wall	#16	
#7		#17	
#8		#18	
#9		#19	
#10		#20	

Homogenous Areas:	
Roofing	Composition Shingle
Siding	Brick
Ceilings	Sheet Rock
Walls	Sheet Rock
Floors	(BCDEFG) Ceramic Tiles/Wood (AHIJ) Carpet/Wood



090065 Tract 9X
 15467 Boundary Line Road
 Garfield, AR 72732
 Approx. 1,305 SF



10x6D



10XED

JOB: 090065
 TRACT: 10 X
 DATE: 1/24/13

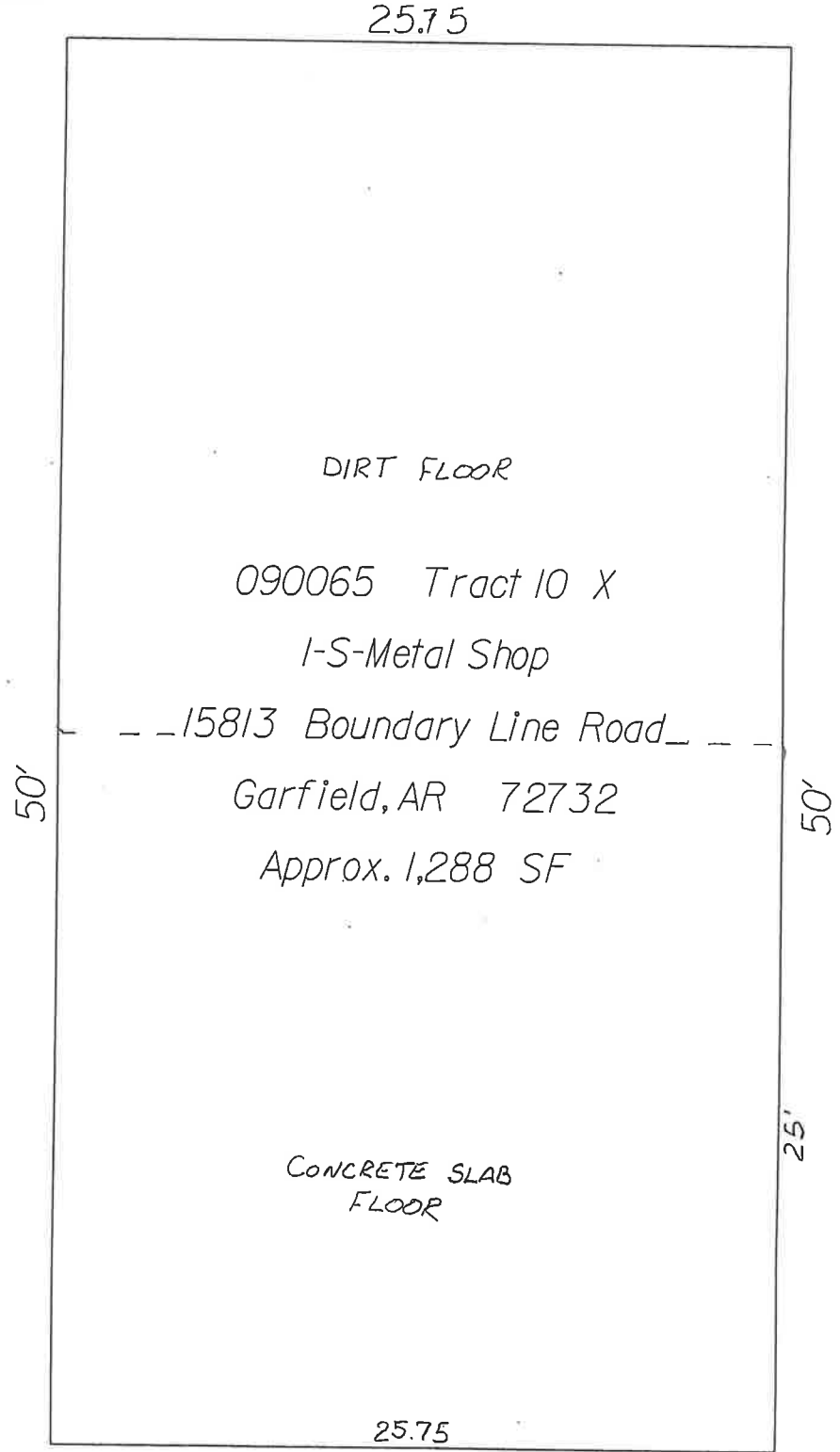
PROPERTY LOCATION
 1-S-Metal Shop Building
 15813 Boundary Line Road
 Garfield, AR 72732-9149

INSPECTED BY
 Joel Clark (011518)

Sample Number	Description/Location	Sample Number	Description/Location
#1		#11	
#2		#12	
#3		#13	
#4		#14	
#5		#15	
#6		#16	
#7		#17	
#8		#18	
#9		#19	
#10		#20	

Homogenous Areas:	
Roofing	Open Rafters
Siding	Open Studs
Ceilings	Open Joist
Walls	Open Studs
Floors	Concrete Slab

Is being demolished by property owner. Condition of the building at the time of inspection, there was no suspect ACM.

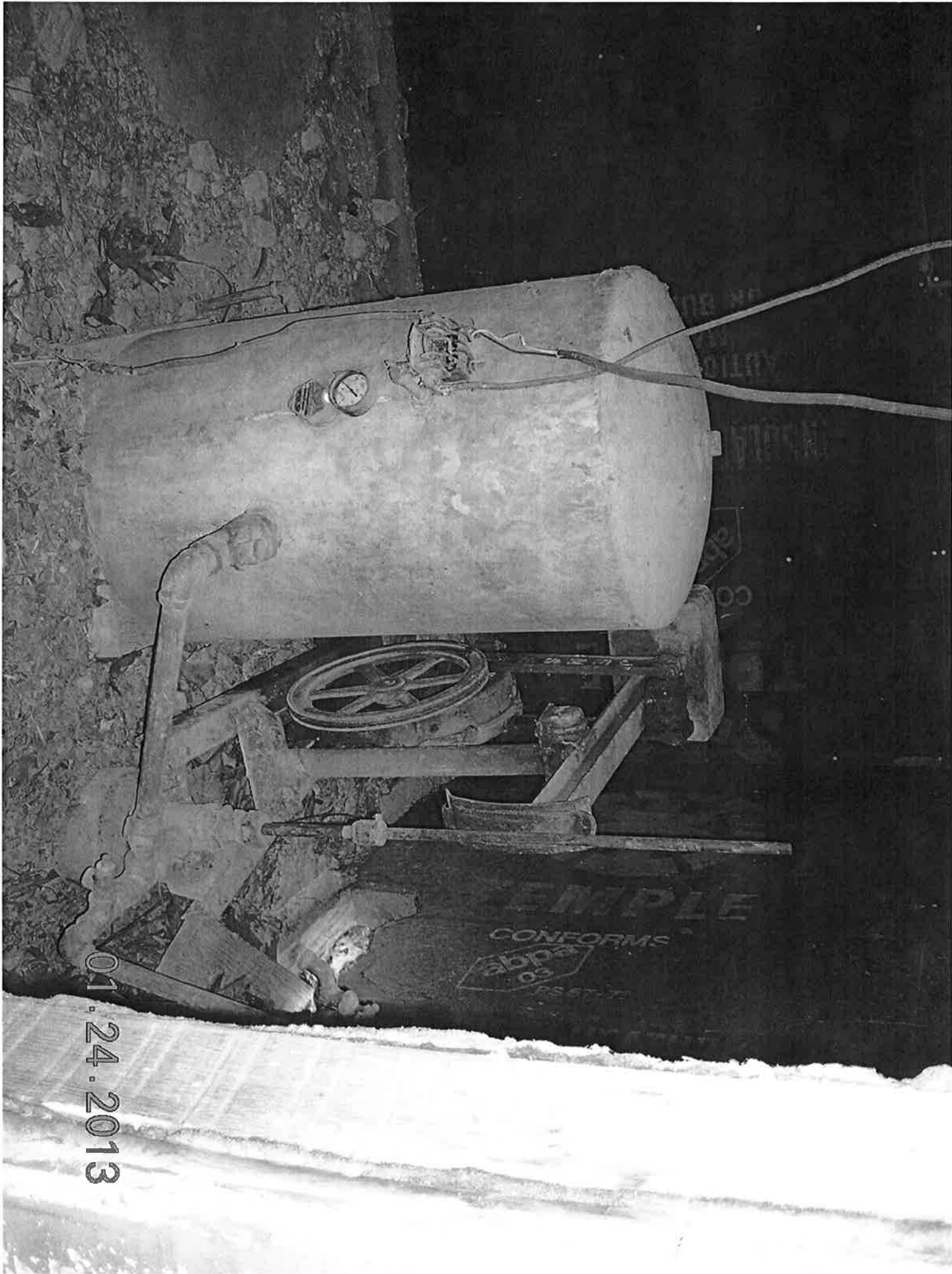




01.24.2013



01.24.2013



01.24.2013



01.24.2013



12x

01:24 2013



01-24-2013



01.24.2013

12x

INSPECTION FLOOR PLAN

<u>JOB:</u>	<u>090065</u>	<u>PROPERTY LOCATION</u>	<u>INSPECTED BY</u>
<u>TRACT:</u>	<u>12 X</u>	<u>1-S-Metal Barn</u>	<u>Joel Clark (011518)</u>
<u>DATE:</u>	<u>1/24/13</u>	<u>Boundary Line Road</u>	
		<u>Garfield, AR 72732</u>	

Sample Number	Description/ Locaton	Sample Number	Description/ Location
#1		#11	
#2		#12	
#3		#13	
#4		#14	
#5		#15	
#6		#16	
#7		#17	
#8		#18	
#9		#19	
#10		#20	

Homogenous Areas:	
Roofing	Metal
Siding	Metal
Ceilings	Wood
Walls	Wood
Floors	Dirt

<u>JOB:</u>	<u>090065</u>	<u>PROPERTY LOCATION</u>	<u>INSPECTED BY</u>
<u>TRACT:</u>	<u>12 X</u>	<u>1-S-Framed Shed</u>	<u>Joel Clark (011518)</u>
<u>DATE:</u>	<u>1/24/13</u>	<u>Boundary Line Road</u>	
		<u>Garfield, AR 72732</u>	

Sample Number	Description/ Locaton	Sample Number	Description/ Location
#1		#11	
#2		#12	
#3		#13	
#4		#14	
#5		#15	
#6		#16	
#7		#17	
#8		#18	
#9		#19	
#10		#20	

Homogenous Areas:	
Roofing	Metal
Siding	Wood
Ceilings	Wood
Walls	Wood
Floors	Dirt

<u>JOB:</u>	<u>090065</u>	<u>PROPERTY LOCATION</u>	<u>INSPECTED BY</u>
<u>TRACT:</u>	<u>12 X</u>	<u>1-S-Framed Out House</u>	<u>Joel Clark (011518)</u>
<u>DATE:</u>	<u>1/24/13</u>	<u>Boundary Line Road</u>	
		<u>Garfield, AR 72732</u>	

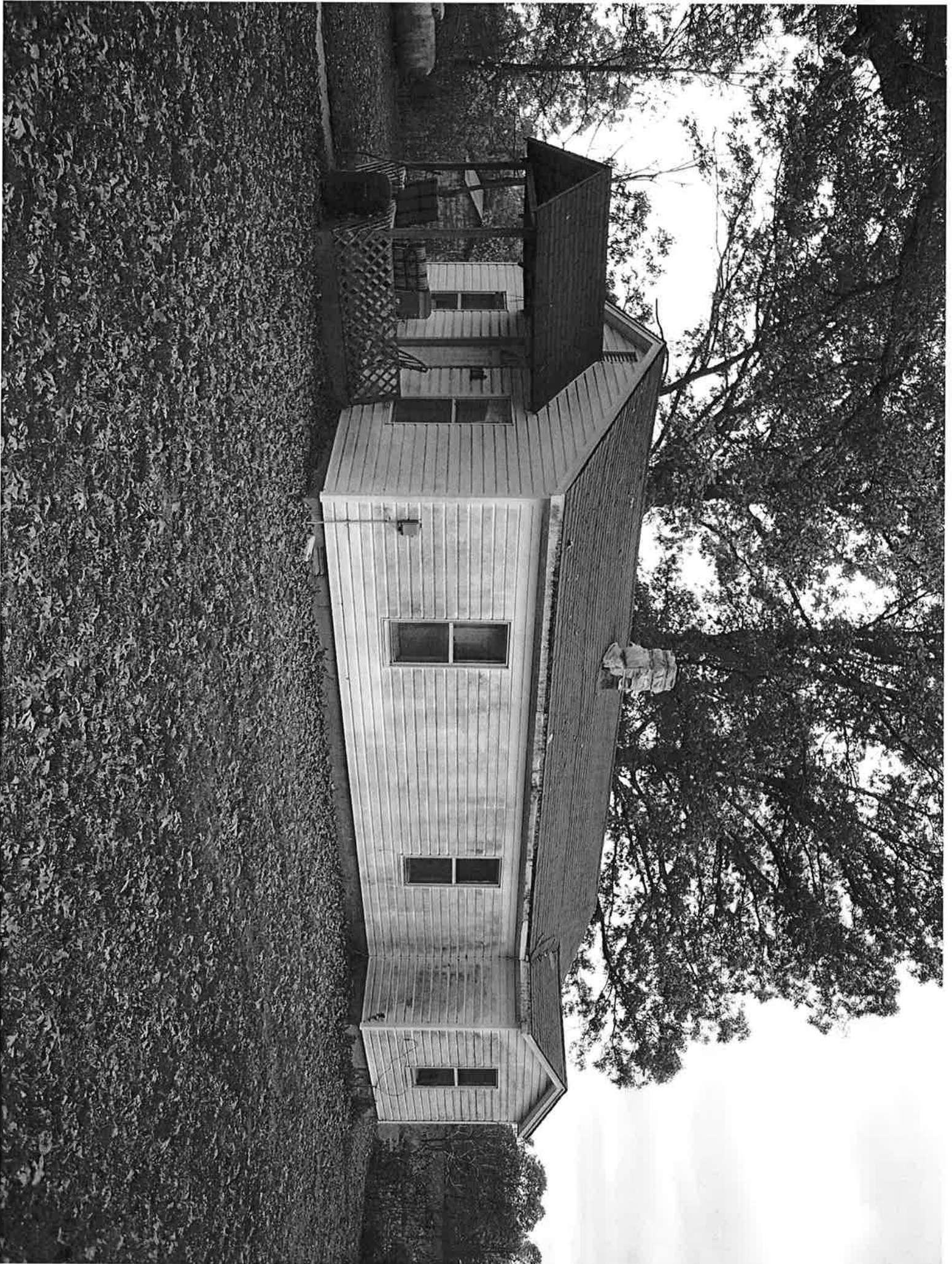
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#1		#11	
#2		#12	
#3		#13	
#4		#14	
#5		#15	
#6		#16	
#7		#17	
#8		#18	
#9		#19	
#10		#20	

Homogenous Areas:	
Roofing	Metal
Siding	Wood
Ceilings	Wood
Walls	Wood
Floors	Wood

<u>JOB:</u>	<u>090065</u>	<u>PROPERTY LOCATION</u>	<u>INSPECTED BY</u>
<u>TRACT:</u>	<u>12 X</u>	<u>1-S-Framed Well House</u>	<u>Joel Clark (011518)</u>
<u>DATE:</u>	<u>1/24/13</u>	<u>Boundary Line Road</u>	
		<u>Garfield, AR 72732</u>	

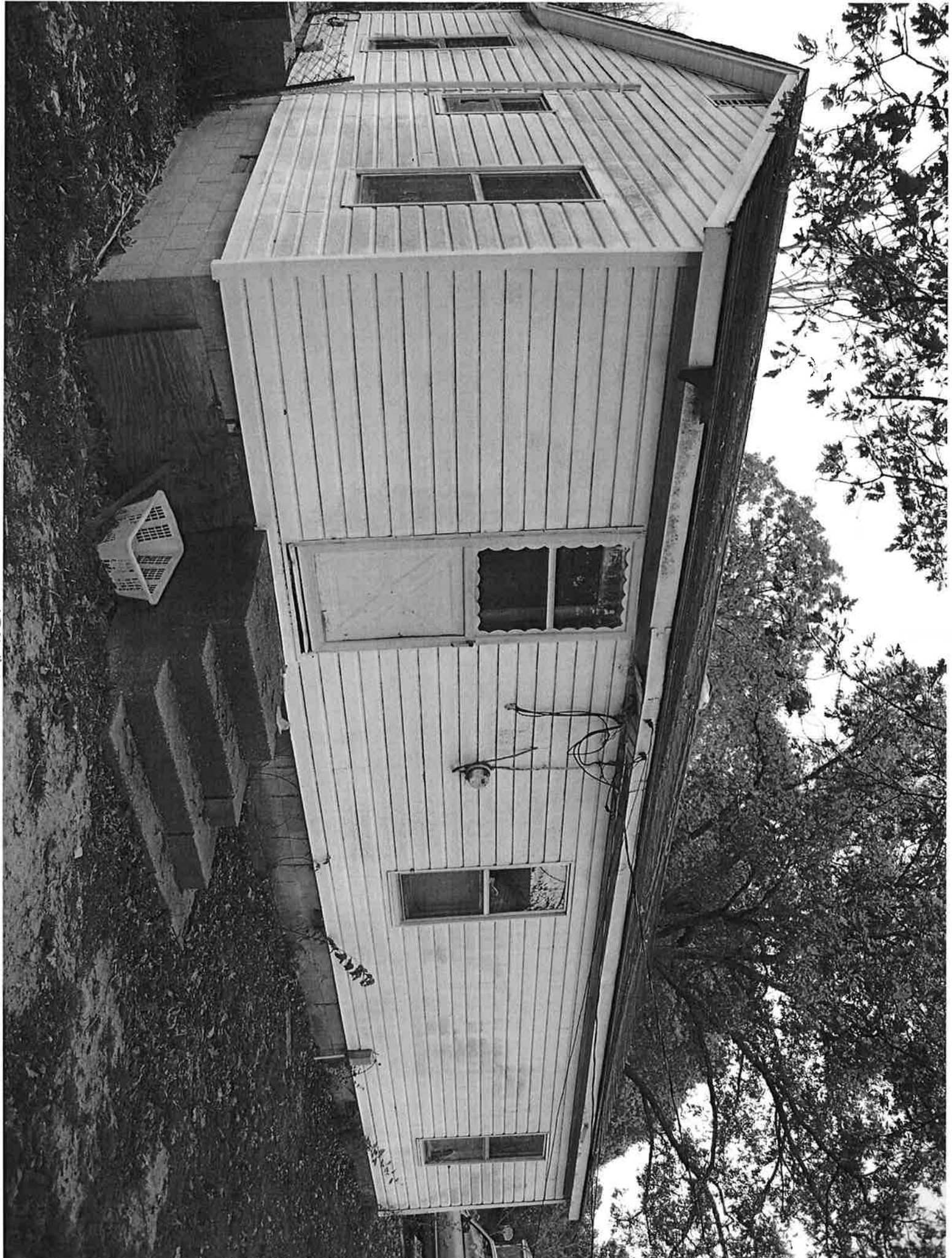
Sample Number	Description/ Locaton	Sample Number	Description/ Location
#1		#11	
#2		#12	
#3		#13	
#4		#14	
#5		#15	
#6		#16	
#7		#17	
#8		#18	
#9		#19	
#10		#20	

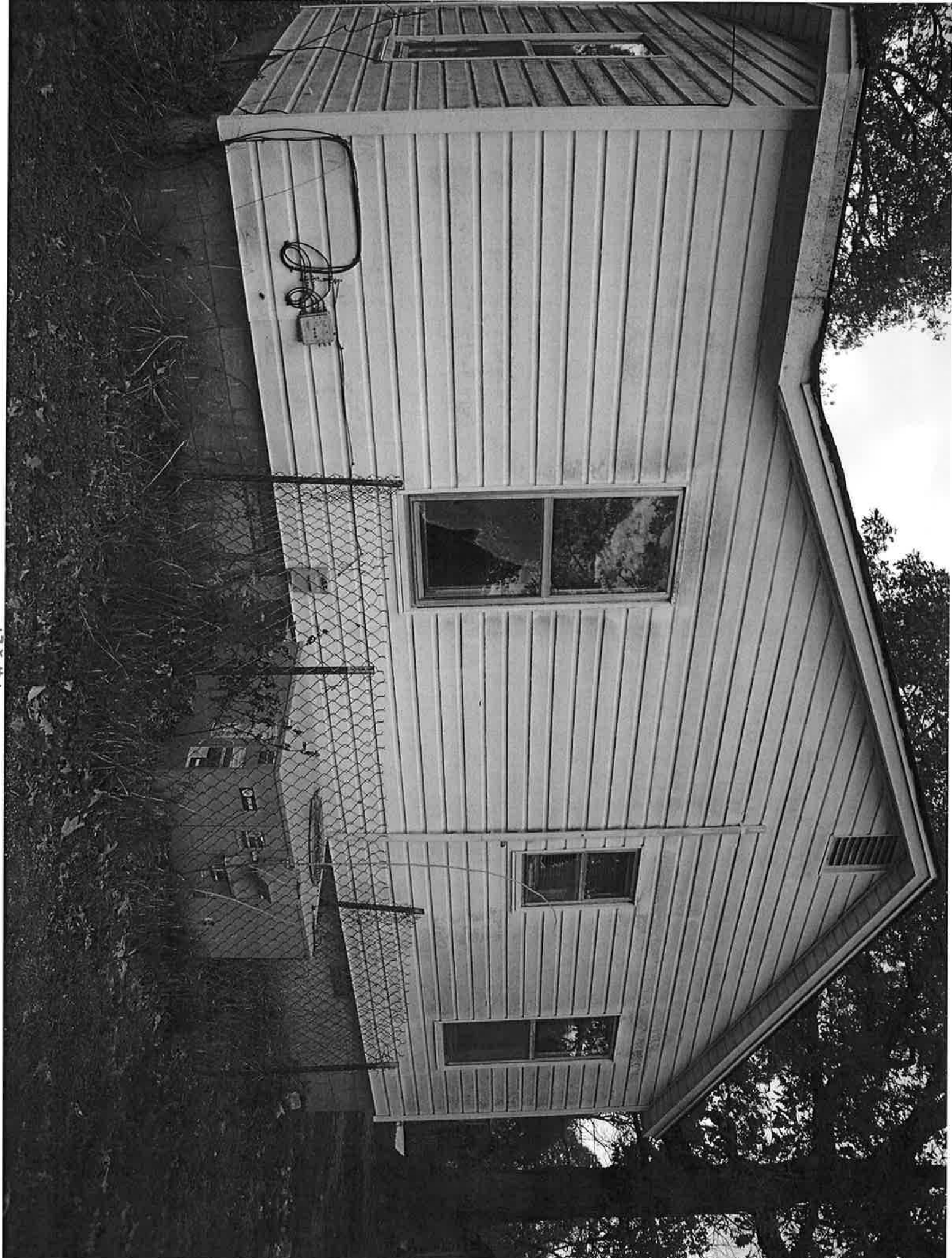
Homogenous Areas:	
Roofing	Shingles
Siding	Wood
Ceilings	Wood
Walls	Wood
Floors	Dirt



13 X 41

1 2 X 3 1





13X 1

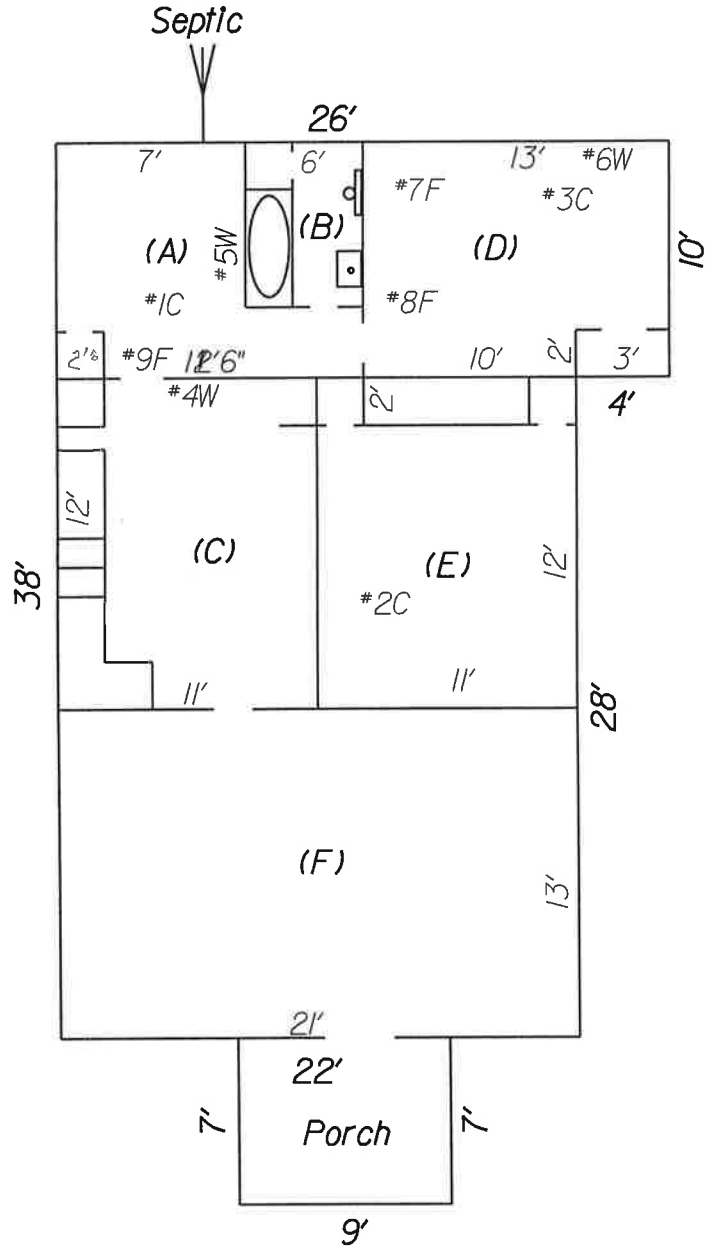
JOB: 090065
 TRACT: 13 X #1
 DATE: 2/7/2013

PROPERTY LOCATION
 1-S-F Dwelling #1
 16239 Hwy. 62 East
 Garfield, AR 72732

INSPECTED BY
 Joel Clark (011518)

Sample Number	Description/Location	Sample Number	Description/Location
#1		#11	
#2		#12	
#3		#13	
#4		#14	
#5		#15	
#6		#16	
#7		#17	
#8		#18	
#9		#19	
#10		#20	

Homogenous Areas:	
Roofing	Composition Shingle
Siding	Wood
Ceilings	12"x12" Cellulose Tiles (F)
Walls	Sheet Rock (ABCDE)
Floors	Sheet Rock F) PANELING Hard Wood ALL A & D - LINOLEUM



090065 Tract 13 X
 1-S-Framed Dwelling #1
 16239 Hwy.62 East
 Garfield, AR 72732
 Approx. 876 SF



13X#2



13X



Crisp Analytical Laboratories, L.L.C
 1929 Old Denton Rd.
 Carrollton, TX 75006

Phone: 972-272-2754
 Fax: 972-272-2798
 Mobile: 214-564-8366

Chain of Custody

Client Name:	AHTD	CA Labs job	CAL# 13071171
Client Address:	P.O. Box 2261 Room #705 Little Rock, AR 72203-2261	Billing Address: (if different)	
phone number:	501-569-2317 or 2318	P.O. # :	090065 1-F Dwelling #2
fax number:		Project Name:	Tract 13X2 16239 Hwy 62 East
Send Reports to:	Joeld.Clark@arkansashighways.com	Project Number:	090065 Garfield, AR 72732

Total # Samples Submitted:	Total # Samples to be Analyzed:	Material Matrix: Air / Bulk / Water
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Asbestos: please call ahead for availability of all rush and/or after hours samples.

TEM	TA Time	PLM	TA Time	Optical / IAQ	TA Time
<i>Circle analysis and TA time</i>		<i>Circle analysis and TA time</i>	2 hour	PCM: NIOSH 7400	Note TAT
AHERA	4 hour	Improved	4 hour	Allergen Particle:	24 hour
EPA Level II	8 hour	Interim	8 hour	tape/bulk/swab	2 days
Drinking Water	16 hour		16 hour	Cyclex-d cassettes	3 days
Wipe	24 hour	AHERA	24 hour	Air-o-cell cassettes	5-10 days
Micro-vac	2 days		2 days	Anderson cultures	Specify
NIOSH 7402	3 days	Point Count -	3 days	Bulk/swab cultures	Mold or
Chatfield Bulk	5 days	(NESHAPS)	5 days	Bacteria cultures	bacteria

Please indicate appropriate turn around time. (minimum turnaround - 3 Days for Lead TCLP and water)

Lead: Circle analysis and TA time

Sample Information:

Sample #:	Sample Location:	Sample Date/Time:	Sample Volume (L)
090065 Tr. 13X2 #1	Area (B) Ceiling	2/7/2013	
090065 Tr. 13X2 #2	Area (A) Ceiling	2/7/2013	
090065 Tr. 13X2 #3	Area (E) Wall	2/7/2013	
090065 Tr. 13X2 #4	Area (B) Wall	2/7/2013	

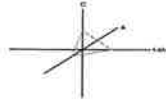
Custody Information:

Samples relinquished: Joel Clark 2-13-13
 Signature / Date / Time 10:03

Samples received: Matthew Roman 02/19/13
 Signature / Date / Time 10:00AM

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Crisp Analytical, L.L.C.
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Phone 972-242-2754
Fax 972-242-2798



CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Arkansas State Highway & Transportation Dept.

10324 I-30, Room 705
Little Rock, AR 72209

Attn: Robert Pooler

Customer Project: 1-F Dwelling #2, Tract 13X2 16239 Hwy 62 East

Reference #: CAL13021171CP

Date: 02/18/13

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved)). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found by PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

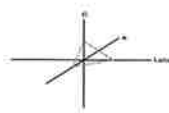
Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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 Carrollton, TX 75006
 Phone 972-242-2754
 Fax 972-242-2798



CA Labs, L.L.C.
 12232 Industriplex, Suite 32
 Baton Rouge, LA 70809
 Phone 225-751-5632
 Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project:		Dwelling #2, Tract 13X2 16239 Hwy 62 East		CA Labs Project #:	CAL13021171CP
Sample #	Layer #	Analysts	Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types

No Asbestos Detected.

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastonite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

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CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Customer Project:
1-F Dwelling #2, Tract 13X2
16239 Hwy 62 East
Turnaround Time:
3 Days

CA Labs Project #:
CAL13021171CP
Date: 02/18/13
Samples Received: 2/14/13 10AM
Date Of Sampling: 02/07/13
Purchase Order #: 090065

Phone # 501-569-2317
Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
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090065 Tr. 13X2 1		1-1	Area (B) Ceiling/ blue surfaced white compound	n	None Detected		100% mi,bi,ca
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		1-2	white drywall with brown paper	n	None Detected	24% ce	76% qu,gy
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090065 Tr. 13X2 2		2-1	Area (A) Ceiling/ tan surfaced white compound	n	None Detected		100% mi,bi,ca
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		2-2	white compound (beneath tape)	y	None Detected		100% mi,ca
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		2-3	white drywall with brown paper	n	None Detected	26% ce	74% qu,gy
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090065 Tr. 13X2 3		3-1	Area (E) Wall/ blue surfaced white compound	n	None Detected		100% mi,bi,ca
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		3-2	white compound (beneath tape)	y	None Detected		100% mi,ca
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Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Keith Malone
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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CA Labs, L.L.C.
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Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Customer Project:
1-F Dwelling #2, Tract 13X2
16239 Hwy 62 East
Turnaround Time:
3 Days

CA Labs Project #:
CAL13021171CP
Date: 02/18/13
Samples Received: 2/14/13 10AM
Date Of Sampling: 02/07/13
Purchase Order #: 090065

Phone # 501-569-2317
Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		3-3	white drywall with brown paper	n	None Detected	23% ce	77% qu,gy
090065 Tr. 13X2 4			Area (B) Wall/ red surfaced				
		4-1	white compound	n	None Detected		100% mi,bi,ca
		4-2	white compound (beneath tape)	y	None Detected		100% mi,ca
		4-3	white drywall with brown paper	n	None Detected	19% ce	81% qu,gy

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	la - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Keith Malone
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

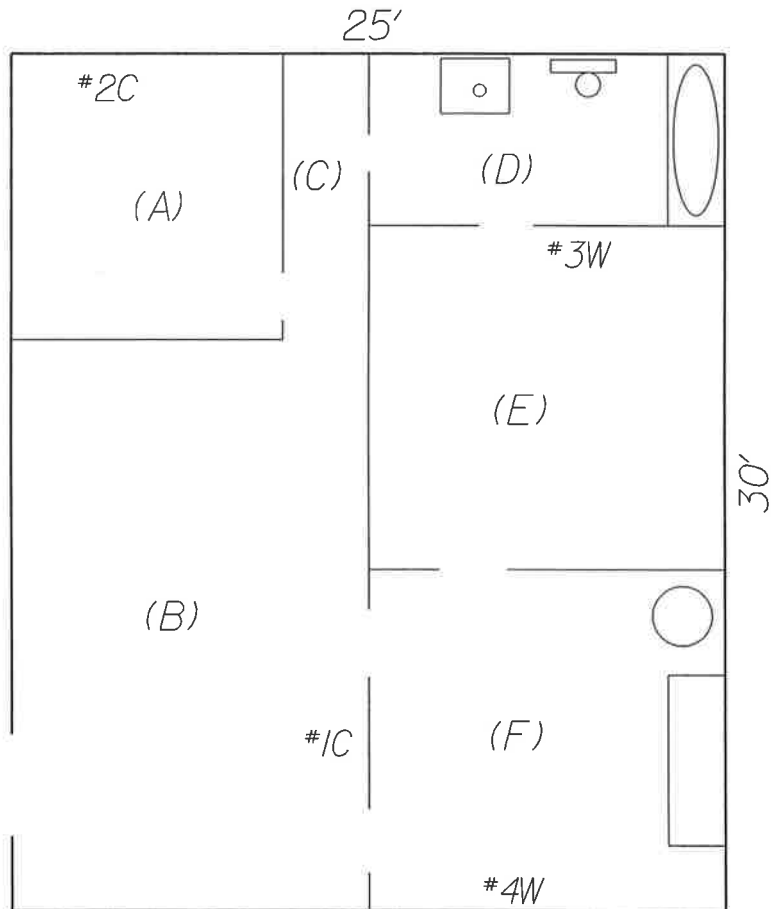
1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

INSPECTION FLOOR PLAN

JOB:	<u>090065</u>	PROPERTY LOCATION	<u>INSPECTED BY</u>
TRACT:	<u>13 X #2</u>	<u>1-S-Framed Dwelling #2</u>	<u>Joel Clark (011518)</u>
DATE:	<u>2/7/2013</u>	<u>16239 Hwy. 62 East</u>	
		<u>Garfield, AR 72732</u>	

Sample Number	Description/ Location	Sample Number	Description/ Location	Homogenous Areas:	
#1	B) Ceiling	#11		Roofing	Composition Shingle
#2	A) Ceiling	#12		Siding	Wood
#3	E) Wall	#13		Ceilings	Sheet Rock; Wood
#4	B) Wall	#14		Walls	Sheet Rock; Open Studs
#5		#15		Floors	Carpet/Concrete Slab
#6		#16			
#7		#17			
#8		#18			
#9		#19			
#10		#20			



090065 Tract 13 X
 I-S-F Dwelling #2
 16239 Hwy.62 East
 Garfield, AR 72732
 Approx.750 SF



13 X MOBILE HOME



13 X MOBILE HOME.

CA Labs

Crisp Analytical Laboratories, L.L.C
 1929 Old Denton Rd.
 Carrollton, TX 75006

Phone: 972-272-2754
 Fax: 972-272-2798
 Mobile: 214-564-8366

Chain of Custody

Client Name:	AHTD	CA Labs job	CAL# 1302170
Client Address:	P.O. Box 2261 Room: #705 Little Rock, AR 72203-2261	Billing Address:	(if different)
phone number:	501-569-2317 or 2318	P.O. # :	090065 Mobile Home
fax number:		Project Name:	Tract 13X 16239 Hwy 62 East
Send Reports to:	<u>Joeld.Clark@arkansashighways.com</u>	Project Number:	090065 Garfield, AR 72732

Total # Samples Submitted:	Total # Samples to be Analyzed:	Material Matrix: Air / Bulk / Water
-----------------------------------	--	---

Asbestos: please call ahead for availability of all rush and/or after hours samples.

TEM	TA Time	PLM	TA Time	Optical / IAQ	TA Time
<i>Circle analysis and TA time</i>		<i>Circle analysis and TA time</i>	2 hour	PCM: NIOSH 7400	Note TAT
AHERA	4 hour	Improved	4 hour	Allergen Particle:	24 hour
EPA Level II	8 hour	Interim	8 hour	tape/bulk/swab	2 days
Drinking Water	16 hour		16 hour	Cyclex-d cassettes	3 days
Wipe	24 hour	<u>AHERA</u>	24 hour	Air-o-cel cassette	5-10 days
Micro-vac	2 days		2 days	Anderson cultures	Specify
NIOSH 7402	3 days	Point Count -	<u>3 days</u>	Bulk/swab cultures	Mold or
Chatfield Bulk	5 days	(NESHAPS)	5 days	Bacteria cultures	bacteria

Please indicate appropriate turn around time. (minimum turnaround - 3 Days for Lead TCLP and water)

Lead: Circle analysis and TA time

Sample Information:

Sample #:	Sample Location:	Sample Date/Time:	Sample Volume (L)
090065 Tr. 13X #1	Area (D) Ceiling	2/7/2013	
090065 Tr. 13X #2	Area (E) Ceiling	2/7/2013	
090065 Tr. 13X #3	Area (I) Ceiling	2/7/2013	
090065 Tr. 13X #4	Area (B) Floor	2/7/2013	
090065 Tr. 13X #5	Area (D) Floor	2/7/2013	

Custody Information:

Samples relinquished:

Joel Clark 2-13-13
 Signature / Date / Time 10:05

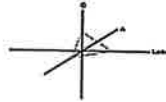
Samples received:

Matthew Romer 02/19/13
 Signature / Date / Time

10:50 AM

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1929 Old Denton Road
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CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Arkansas State Highway & Transportation Dept.

10324 I-30, Room 705
Little Rock, AR 72209

Attn: Robert Pooler

Customer Project: Mobile Home Tract 13X 16239 Hwy 62 East

Reference #: CAL13021170CP

Date: 02/19/13

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found by PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.

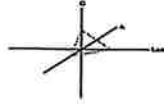
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Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project:	Mobile Home Tract 13X 16239 Hwy 62 East		CA Labs Project #:	CAL13021170CP
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types

No Asbestos Detected.

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

- | | | | |
|------------------|--------------|--------------------|--------------------------|
| ca - carbonate | pe - perlite | fg - fiberglass | pa - palygorskite (clay) |
| gypsum - gypsum | qu - quartz | mw - mineral wool | |
| bl - binder | | wo - wollastonite | |
| or - organic | | ta - talc | |
| ma - matrix | | sy - synthetic | |
| mi - mica | | ce - cellulose | |
| ve - vermiculite | | br - brucite | |
| ot - other | | ka - kaolin (clay) | |

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CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Customer Project:
Mobile Home Tract 13X 16239
Hwy 62 East
Turnaround Time:
3 Days

CA Labs Project #:
CAL13021170CP
Date: 02/19/13
Samples Received: 2/14/13 10AM
Date Of Sampling: 02/07/13
Purchase Order #: 090065

Phone # 501-569-2317
Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
090065 Tr. 13X 1			Area (D) Ceiling/ white surfaced white compound	n	None Detected		100% mi,bi,ca
		1-2	white drywall with brown paper	n	None Detected	19% ce 1% fg	80% qu,gy
		1-3	yellow foam	y	None Detected		100% qu,or
		1-4	tan insulation	y	None Detected	66% ce	34% qu,or
090065 Tr. 13X 2			Area (E) Ceiling/ white surfaced white compound	n	None Detected		100% mi,bi,ca
		2-2	white drywall with brown paper	n	None Detected	18% ce 2% fg	80% qu,gy
090065 Tr. 13X 3			Area (I) Ceiling/ white surfaced white compound	n	None Detected		100% mi,bi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / backscattered electron method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	nw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Julio Robles
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Customer Project:
Mobile Home Tract 13X 16239
Hwy 62 East
Turnaround Time:
3 Days

CA Labs Project #:
CAL13021170CP
Date: 02/19/13
Samples Received: 2/14/13 10AM
Date Of Sampling: 02/07/13
Purchase Order #: 090065

Phone # 501-569-2317
Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		3-2		white drywall with brown paper	n	None Detected	18% ce 1% fg	81% qu,gy
090065 Tr. 13X 4		4-1		Area (B) Floor/ white linoleum	y	None Detected	12% ce 4% fg	84% gy,ma
090065 Tr. 13X 5		5-1		Area (D) Floor/ tan linoleum	y	None Detected	12% ce 5% fg	83% gy,ma

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Julio Robles
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

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2. Fire Damage no significant fiber damages affecting fibrous percentages
3. Actinolite in association with Vermiculite
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6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

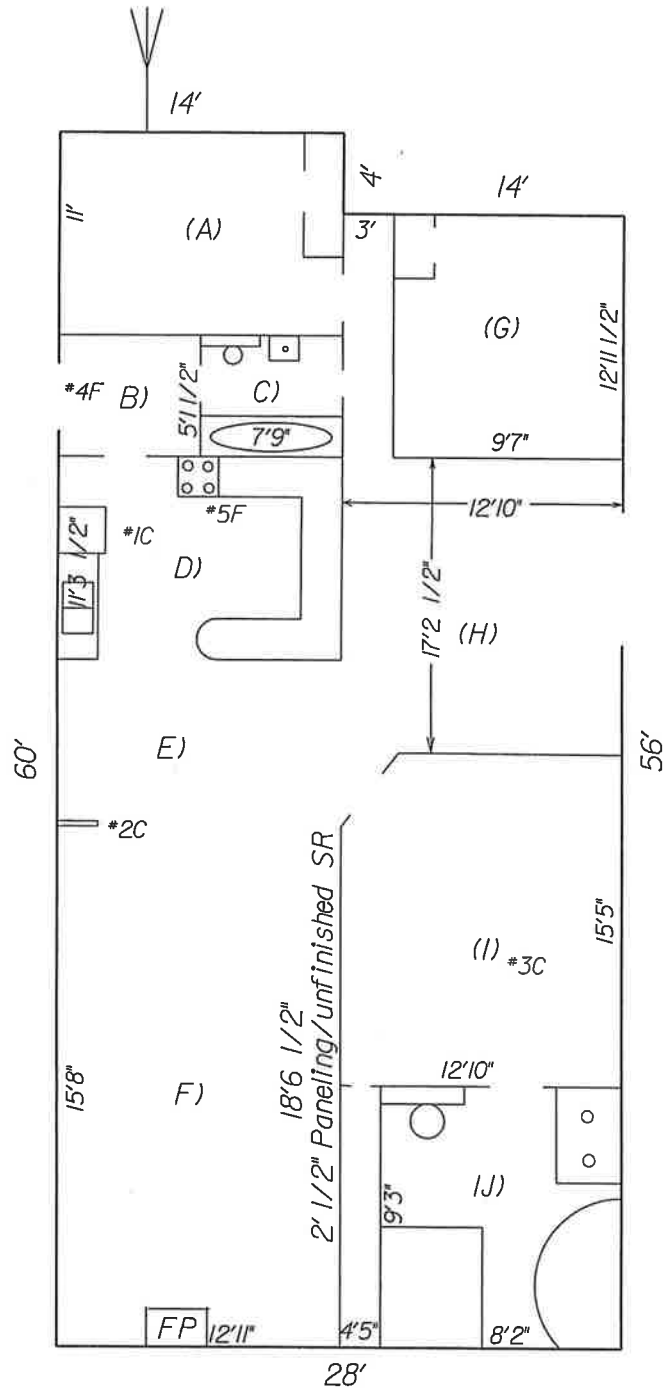
JOB: 090065
 TRACT: 13 X #2
 DATE: 2/7/2013

PROPERTY LOCATION
 Mobile Home
 16239 Hwy. 62 East
 Garfield, AR 72732

INSPECTED BY
 Joel Clark (011518)

Sample Number	Description/Location	Sample Number	Description/Location
#1	D) Ceiling	#11	
#2	E) Ceiling	#12	
#3	I) Ceiling	#13	
#4	B) Floor	#14	
#5	D) Floor	#15	
#6		#16	
#7		#17	
#8		#18	
#9		#19	
#10		#20	

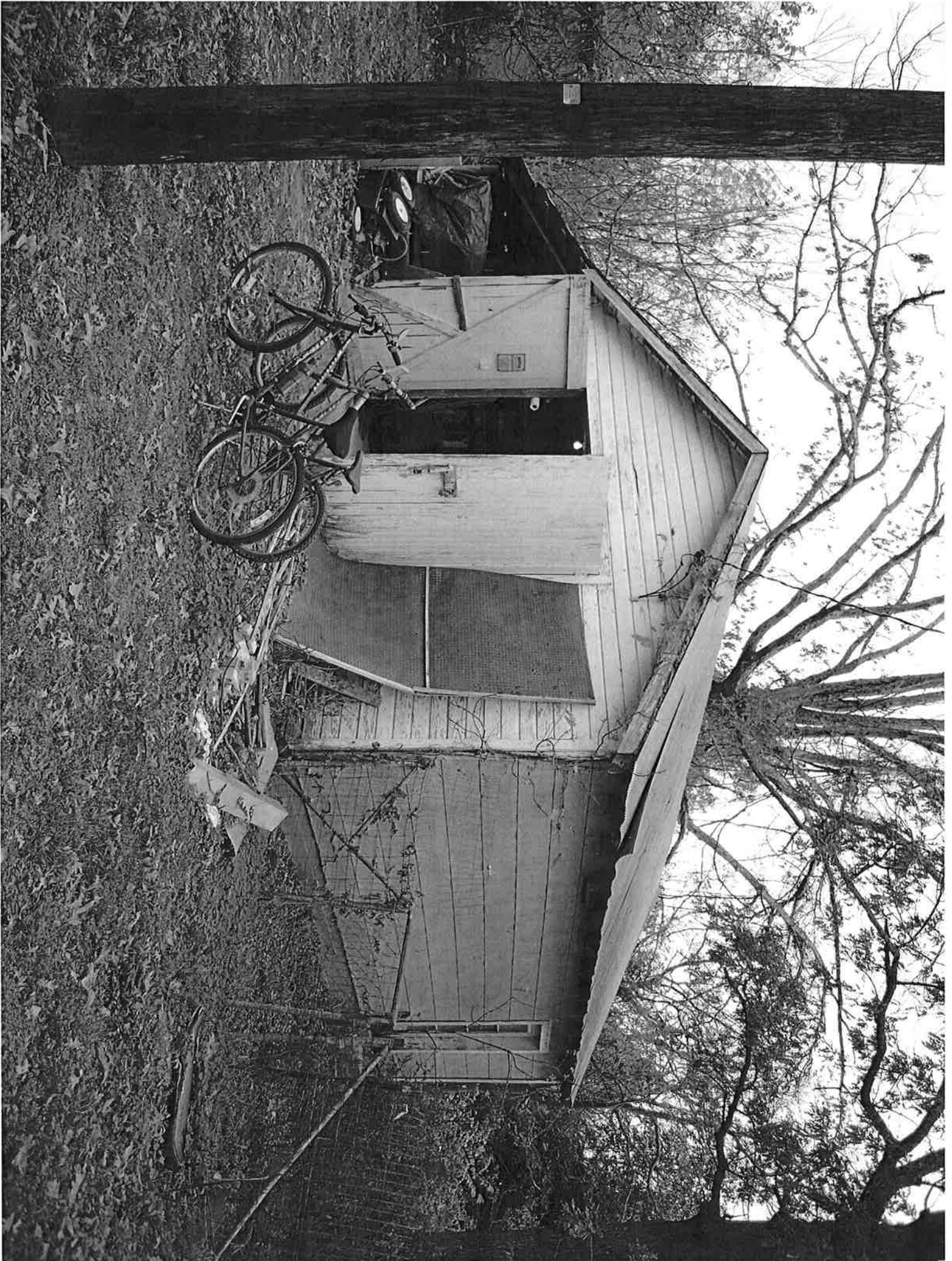
Homogenous Areas:	
Roofing	Composition Shingle
Siding	Metal
Ceilings	Sheet Rock
Walls	Wood Paneling
Floors	Carpet/Wood



090065 Tract 13X
 Mobile Home
 16239 Hwy.62 East
 Approx. 1,624 SF



13 X



13X







351



13X

INSPECTION FLOOR PLAN

JOB:	090065	PROPERTY LOCATION	INSPECTED BY
TRACT:	13 X	Shed w/Lean to	Joel Clark (011518)
DATE:	2/7/2013	16239 Hwy. 62 East	
		Garfield, AR 72732	

Sample Number	Description/ Locaton	Sample Number	Description/ Location	Homogenous Areas:	
#1		#11		Roofing	Metal
#2		#12			
#3		#13		Siding	Wood
#4		#14			
#5		#15		Ceilings	Open Joist
#6		#16			
#7		#17		Walls	Wood
#8		#18			
#9		#19		Floors	Wood
#10		#20			

JOB:	090065	PROPERTY LOCATION	INSPECTED BY
TRACT:	13 X	Well House	Joel Clark (011518)
DATE:	2/7/2013	16239 Hwy. 62 East	
		Garfield, AR 72732	

Sample Number	Description/ Locaton	Sample Number	Description/ Location	Homogenous Areas:	
#1		#11		Roofing	Metal
#2		#12			
#3		#13		Siding	Metal
#4		#14			
#5		#15		Ceilings	Wood
#6		#16			
#7		#17		Walls	Wood
#8		#18			
#9		#19		Floors	Wood
#10		#20			

JOB:	090065	PROPERTY LOCATION	INSPECTED BY
TRACT:	13 X	Shed/Shop	Joel Clark (011518)
DATE:	2/7/2013	16239 Hwy. 62 East	
		Garfield, AR 72732	

Sample Number	Description/ Locaton	Sample Number	Description/ Location	Homogenous Areas:	
#1		#11		Roofing	Metal
#2		#12			
#3		#13		Siding	Wood/Roll Roofing
#4		#14			
#5		#15		Ceilings	Wood
#6		#16			
#7		#17		Walls	Wood
#8		#18			
#9		#19		Floors	Dirt
#10		#20			

JOB:	090065	PROPERTY LOCATION	INSPECTED BY
TRACT:	13 X	Shed	Joel Clark (011518)
DATE:	2/7/2013	16239 Hwy. 62 East	
		Garfield, AR 72732	

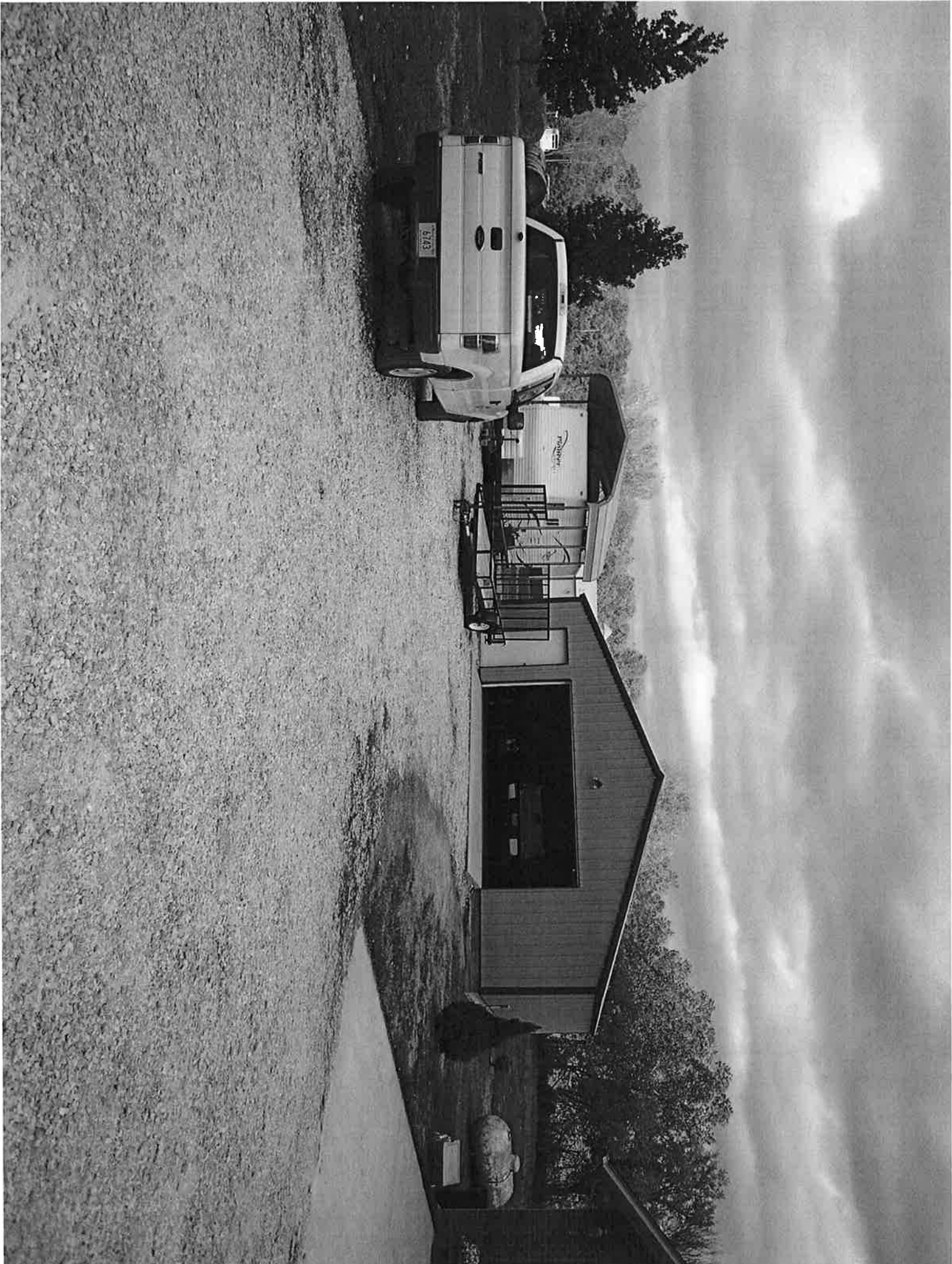
Sample Number	Description/ Locaton	Sample Number	Description/ Location	Homogenous Areas:	
#1		#11		Roofing	Composition Shingle
#2		#12			
#3		#13		Siding	Wood
#4		#14			
#5		#15		Ceilings	Wood
#6		#16			
#7		#17		Walls	Wood
#8		#18			
#9		#19		Floors	Wood
#10		#20			

JOB:	090065	PROPERTY LOCATION	INSPECTED BY
TRACT:	13 X	Shed	Joel Clark (011518)
DATE:	2/7/2013	16239 Hwy. 62 East	
		Garfield, AR 72732	

Sample Number	Description/ Locaton	Sample Number	Description/ Location	Homogenous Areas:	
#1		#11		Roofing	Metal
#2		#12			
#3		#13		Siding	Wood
#4		#14			
#5		#15		Ceilings	Wood
#6		#16			
#7		#17		Walls	Wood
#8		#18			
#9		#19		Floors	Wood
#10		#20			

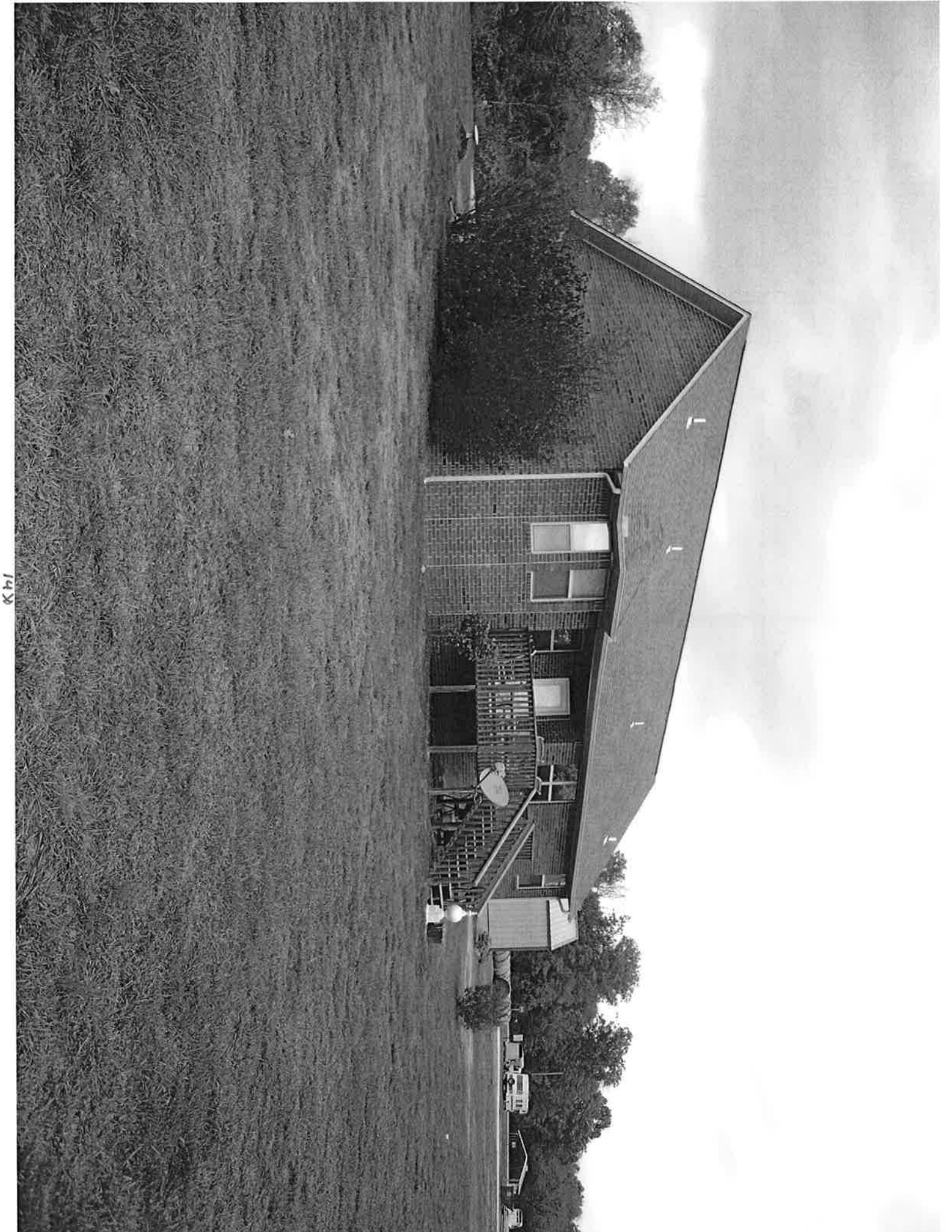


1/21





14X



Kh



14 X



14X

CA Labs

Crisp Analytical Laboratories, L.L.C
 1929 Old Denton Rd.
 Carrollton, TX 75006

Phone: 972-272-2754
 Fax: 972-272-2798
 Mobile: 214-564-8366

Chain of Custody

Client Name:	AHTD	CA Labs job	CAL# 13021169
Client Address:	P.O. Box 2261 Room #705 Little Rock, AR 72203-2261	Billing Address: (if different)	
phone number:	501-569-2317 or 2318	P.O. # :	090065
fax number:		Project Name:	Tract 14X 14454 Old Liberty Rd.
Send Reports to:	Joeld.Clark@arkansashighways.com	Project Number:	090065 Garfield, AR 72732

Total # Samples Submitted: 6	Total # Samples to be Analyzed: 6	Material Matrix: Air / Bulk / Water
-------------------------------------	--	---

Asbestos: please call ahead for availability of all rush and/or after hours samples.

TEM	TA Time	PLM	TA Time	Optical / IAQ	TA Time
<i>Circle analysis and TA time</i>		<i>Circle analysis and TA time</i>			
AHERA	4 hour	Improved	4 hour	PCM: NIOSH 7400	Note TAT
EPA Level II	8 hour	Interim	8 hour	Allergen Particle:	24 hour
Drinking Water	16 hour		16 hour	tape/bulk/swab	2 days
Wipe	24 hour	AHERA	24 hour	Cyclex-d cassettes	3 days
Micro-vac	2 days		2 days	Air-o-cell cassettes	5-10 days
NIOSH 7402	3 days	Point Count -	3 days	Anderson cultures	Specify
Chatfield Bulk	5 days	(NESHAPS)	5 days	Bulk/swab cultures	Mold or
				Bacteria cultures	bacteria

Please indicate appropriate turn around time. (minimum turnaround - 3 Days for Lead TCLP and water)

Lead: Circle analysis and TA time

Sample Information:

Sample #:	Sample Location:	Sample Date/Time:	Sample Volume (L)
090065 Tr. 14X #1	Area (A) Ceiling	2/8/2013	
090065 Tr. 14X #2	Area (H) Ceiling	2/8/2013	
090065 Tr. 14X #3	Area (K) Ceiling	2/8/2013	
090065 Tr. 14X #4	Area (B) Wall	2/8/2013	
090065 Tr. 14X #5	Area (J) Wall	2/8/2013	
090065 Tr. 14X #6	Area (M) Wall	2/8/2013	

Custody Information:

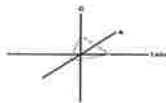
Samples relinquished: Joel Clark 2-13-13
 Signature / Date / Time JDC

Samples received: Matthew Romez 2/19/13
 Signature / Date / Time

b: OAM

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Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Arkansas State Highway & Transportation Dept.

10324 I-30, Room 705
Little Rock, AR 72209

Attn: Robert Pooler

Customer Project: Tract 14X 14454 Old Liberty Rd Garfield, AR 72732
Reference #: CAL13021169CP Date: 02/18/13

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved)). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found by PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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 1929 Old Denton Road
 Carrollton, TX 75006
 Phone 972-242-2754
 Fax 972-242-2798



CA Labs, L.L.C.
 12232 Industriplex, Suite 32
 Baton Rouge, LA 70809
 Phone 225-751-5632
 Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: Tract 14X 14454 Old Liberty Rd Garfield, AR 72732 **CA Labs Project #:** CAL13021169CP

Sample #	Layer #	Analysts	Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
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No Asbestos Detected.

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Customer Project:
Tract 14X 14454 Old Liberty
Rd Garfield, AR 72732

CA Labs Project #:
CAL13021169CP

Phone # 501-569-2317
Fax # 501-569-2018

Turnaround Time:
3 Days

Date: 02/18/13
Samples Received: 2/14/13 10AM
Date Of Sampling: 02/08/13
Purchase Order #: 090065

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo-geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
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090065 TR. 14X 1		1-1		Area (A) Ceiling/ white surfaced white compound	n	None Detected		100% mi,bi,ca
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		1-2		white compound (beneath tape)	y	None Detected		100% mi,ca
--	--	-----	--	-------------------------------	---	----------------------	--	------------

		1-3		white drywall with brown paper	n	None Detected	24% ce	76% qu,gy
--	--	-----	--	--------------------------------	---	----------------------	--------	-----------

090065 TR. 14X 2		2-1		Area (H) Ceiling/ white surfaced white compound	n	None Detected		100% mi,bi,ca
------------------	--	-----	--	--	---	----------------------	--	---------------

		2-2		white compound (beneath tape)	y	None Detected		100% mi,ca
--	--	-----	--	-------------------------------	---	----------------------	--	------------

		2-3		white drywall with brown paper	n	None Detected	21% ce	79% qu,gy
--	--	-----	--	--------------------------------	---	----------------------	--------	-----------

090065 TR. 14X 3		3-1		Area (K) Ceiling/ white surfaced white compound	n	None Detected		100% mi,bi,ca
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Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Keith Malone
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

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2. Fire Damage no significant fiber damages effecting fibrous percentages
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8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Customer Project:
Tract 14X 14454 Old Liberty
Rd Garfield, AR 72732
Turnaround Time:
3 Days

CA Labs Project #:
CAL13021169CP
Date: 02/18/13
Samples Received: 2/14/13 10AM
Date Of Sampling: 02/08/13
Purchase Order #: 090065

Phone # 501-569-2317
Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		3-2	white compound (beneath tape)	y	None Detected		100% mi,ca
		3-3	white drywall with brown paper	n	None Detected	19% ce	81% qu,gy
090065 TR. 14X 4			Area (B) Wall/ green surfaced				
		4-1	white compound	n	None Detected		100% mi,bi,ca
		4-2	white compound (beneath tape)	y	None Detected		100% mi,bi,ca
		4-3	white drywall with brown paper	n	None Detected	20% ce	80% qu,gy
090065 TR. 14X 5			Area (J) Wall/ tan surfaced				
		5-1	white compound	n	None Detected		100% mi,bi,ca
		5-2	white compound (beneath tape)	y	None Detected		100% mi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ol - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Keith Malone
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Customer Project:
Tract 14X 14454 Old Liberty
Rd Garfield, AR 72732

CA Labs Project #:
CAL13021169CP

Phone # 501-569-2317
Fax # 501-569-2018

Turnaround Time:
3 Days

Date: 02/18/13
Samples Received: 2/14/13 10AM
Date Of Sampling: 02/08/13
Purchase Order #: 090065

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		5-3	white drywall with brown paper	n	None Detected	25% ce	75% qu,gy
090065 TR. 14X 6			Area (M) Wall/ green surfaced				
		6-1	white compound	n	None Detected		100% mi,bi,ca
		6-2	white compound (beneath tape)	y	None Detected		100% mi,ca
		6-3	white drywall with brown paper	n	None Detected	22% ce	78% qu,gy

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Keith Malone
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

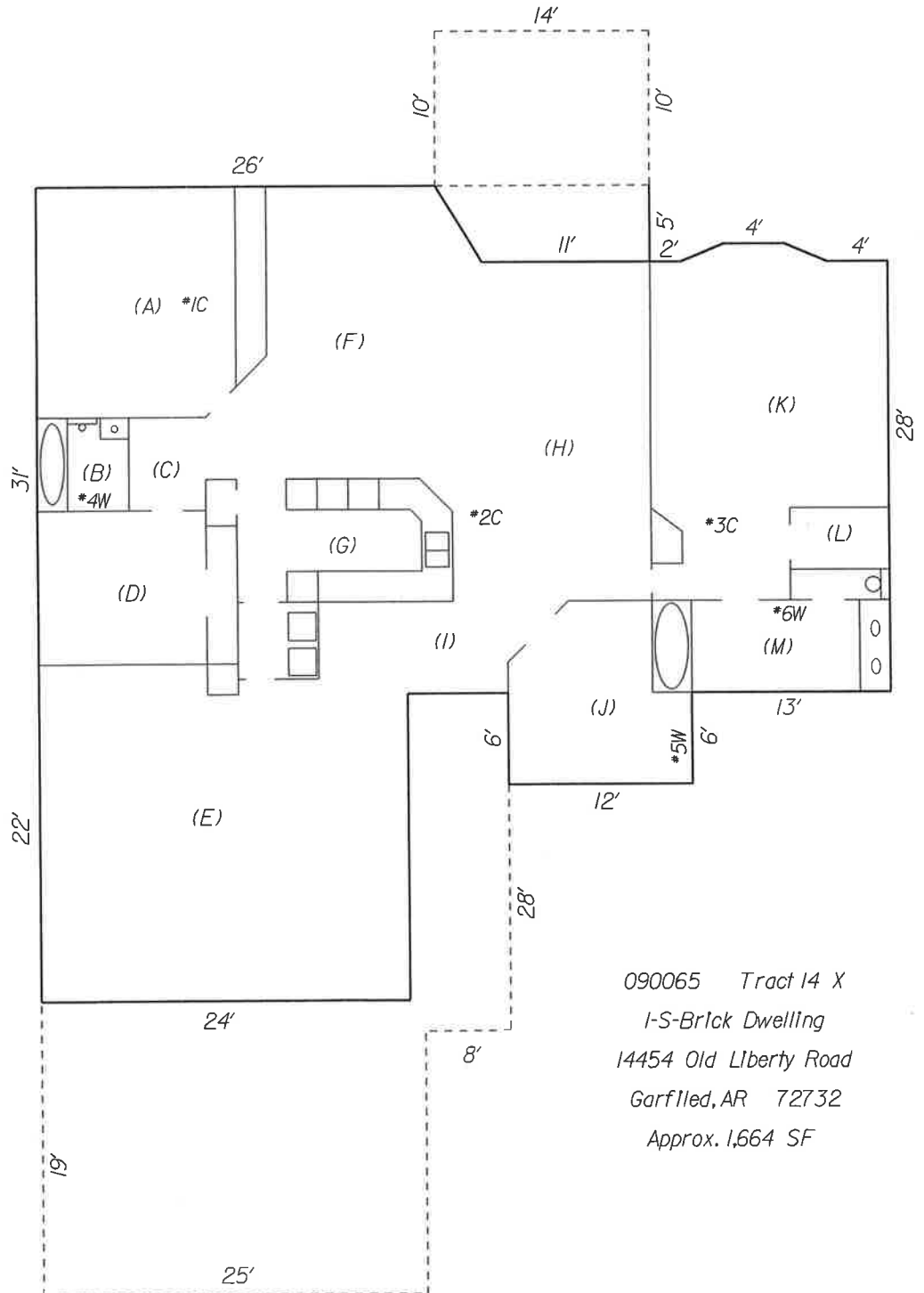
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

INSPECTION FLOOR PLAN

JOB:	090065	PROPERTY LOCATION	INSPECTED BY
TRACT:	14 X	1-S-B Dwelling	Joel Clark (011518)
DATE:	2/7/2013	14454 Old Liberty Road	
		Garfield, AR 72732	

Sample Number	Description/Location	Sample Number	Description/Location
#1	A) Ceiling	#11	
#2	H) Ceiling	#12	
#3	K) Ceiling	#13	
#4	B) Wall	#14	
#5	J) Wall	#15	
#6	M) Wall	#16	
#7		#17	
#8		#18	
#9		#19	
#10		#20	

Homogenous Areas:	
Roofing	Composition Shingle
Siding	Brick
Ceilings	Sheet Rock
Walls	Sheet Rock
Floors	Carpet/Slab; Ceramic Tile/Slab Hardwood

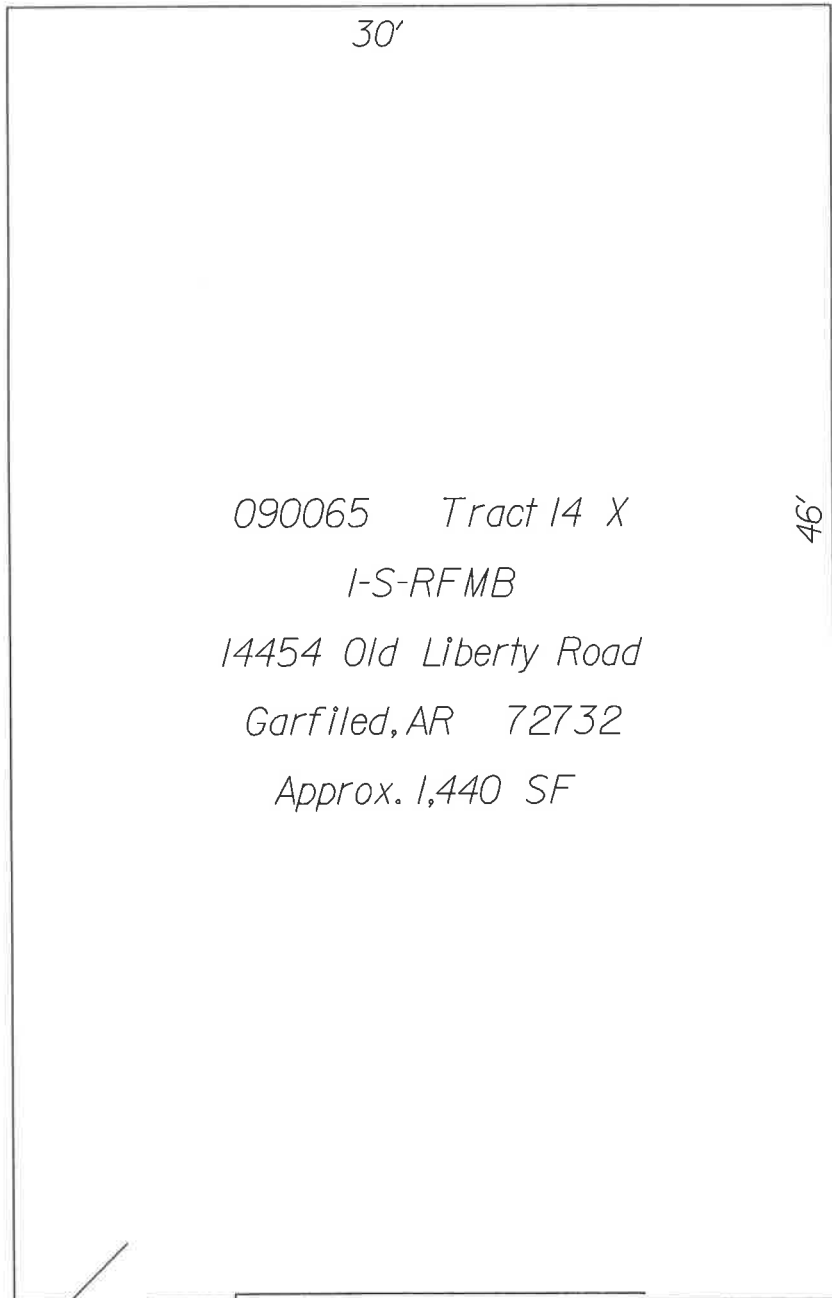


090065 Tract 14 X
 1-S-Brick Dwelling
 14454 Old Liberty Road
 Garfield, AR 72732
 Approx. 1,664 SF

INSPECTION FLOOR PLAN

<u>JOB:</u>	<u>090065</u>	<u>PROPERTY LOCATION</u>	<u>INSPECTED BY</u>
<u>TRACT:</u>	<u>14 X</u>	<u>1-S-RFMB</u>	<u>Joel Clark (011518)</u>
<u>DATE:</u>	<u>2/7/2013</u>	<u>14454 Old Liberty Road</u>	
		<u>Garfield, AR 72732</u>	

Sample Number	Description/ Location	Sample Number	Description/ Location	Homogenous Areas:	
#1		#11		Roofing	Metal
#2		#12		Siding	Metal
#3		#13		Ceilings	Metal
#4		#14		Walls	Metal
#5		#15		Floors	Concrete Slab
#6		#16			
#7		#17			
#8		#18			
#9		#19			
#10		#20			





01-24-2013

15X



01.24.2013

15 X

15X

01 24 2013





JSX

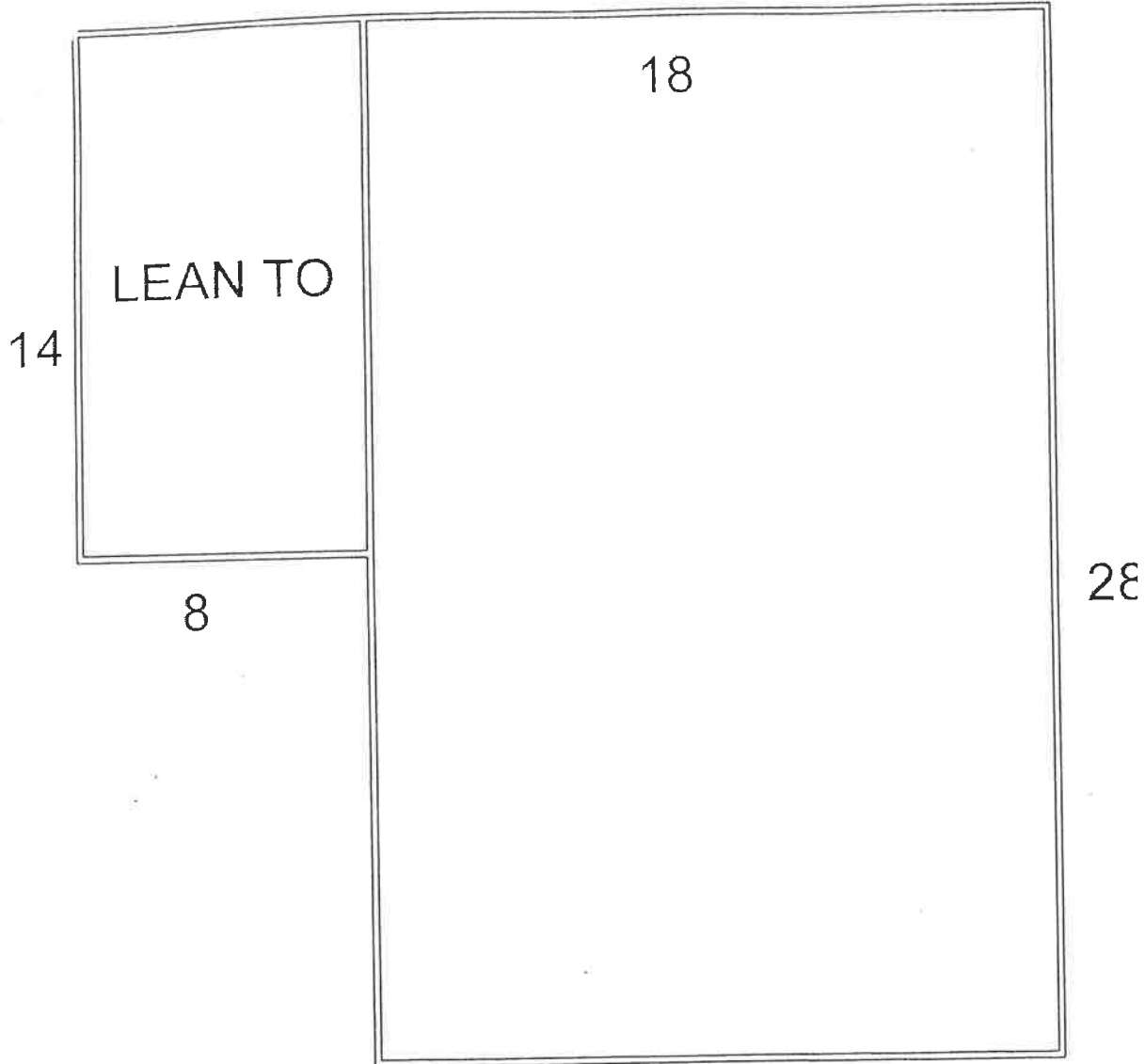
01-24-2013

INSPECTION FLOOR PLAN

JOB:	090065	PROPERTY LOCATION	INSPECTED BY
TRACT:	15 X	1-S-Shop/Pole Barn	Joel Clark (011518)
DATE:	1/24/2013	Hwy. 62	
		Garfield, AR 72732	

Sample Number	Description/ Locaton	Sample Number	Description/ Location
#1		#11	
#2		#12	
#3		#13	
#4		#14	
#5		#15	
#6		#16	
#7		#17	
#8		#18	
#9		#19	
#10		#20	

Homogenous Areas:	
Roofing	Metal
Siding	Metal
Ceilings	Open Rafter
Walls	Open Studs
Floors	Concrete Slab



SHOP BUILDING

TRACT 15X

JOB 090065

504SF

ORIGINAL

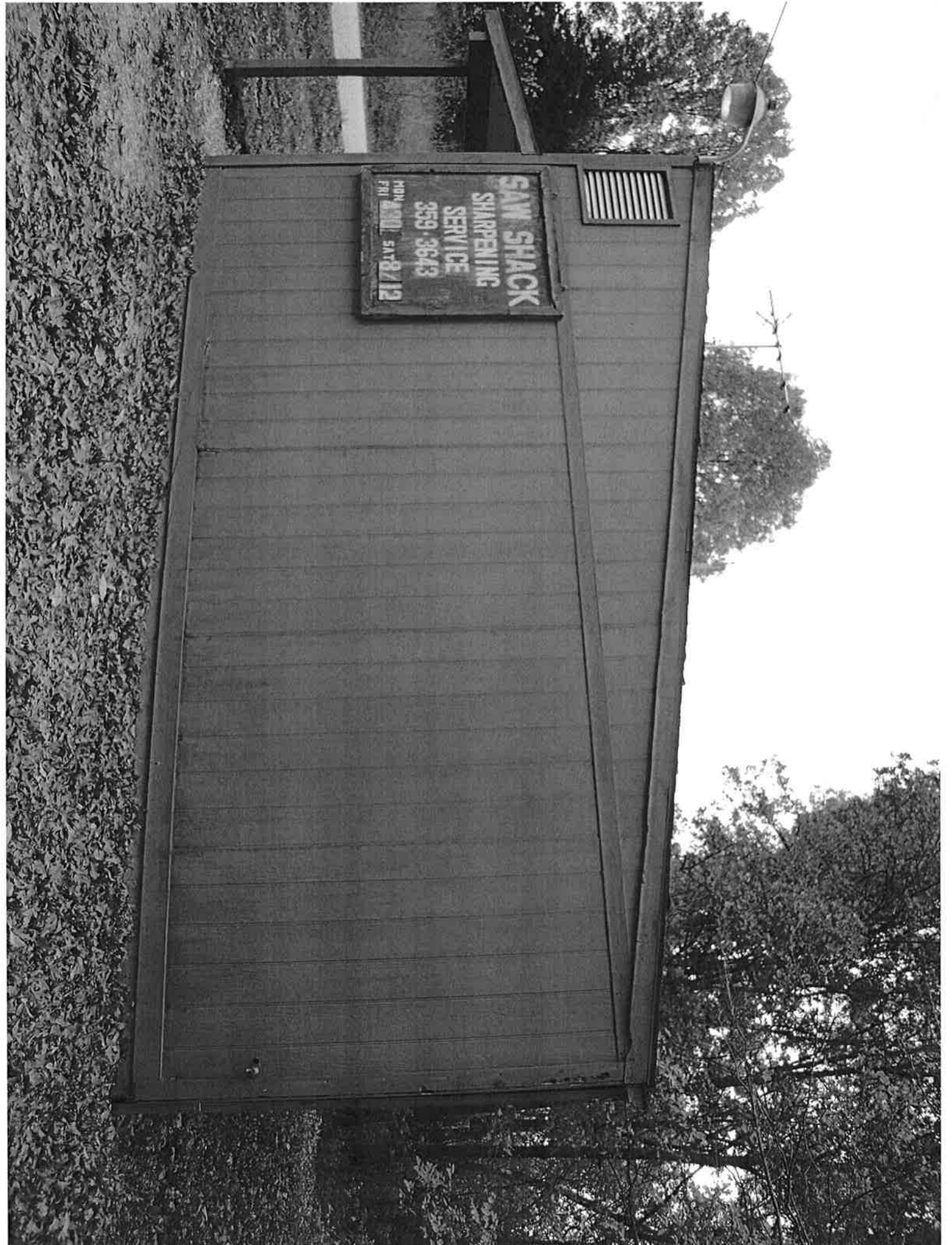
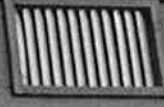
JOEL CLARK



SAW SHACK
SHARPENING
SERVICE
339-3843
MON 8:30 SAT 8/12



SAW SHACK
SHARPENING
SERVICE
359-3643
MON-FRI 8:30-5:00 SAT 8/12





Crisp Analytical Laboratories, L.L.C
 1929 Old Denton Rd.
 Carrollton, TX 75006

Phone: 972-272-2754
 Fax: 972-272-2798
 Mobile: 214-564-8366

Chain of Custody

Client Name:	AHTD	CA Labs job	CAL# 1301680
Client Address:	P.O. Box 2261 Room #705 Little Rock, AR 72203-2261	Billing Address:	
phone number:	501-569-2317 or 2318	(if different)	
fax number:		P.O. # :	090065
Send Reports to:	Joeld.Clark@arkansashighways.com	Project Name:	Tract 21X 17522 Alvin Seamster Rd
		Project Number:	090065 Garfield, AR 72732

Total # Samples Submitted: 4	Total # Samples to be Analyzed: 4	Material Matrix: Air / <u>Bulk</u> / Water
------------------------------	-----------------------------------	---

Asbestos: *please call ahead for availability of all rush and/or after hours samples.*

TEM	TA Time	PLM	TA Time	Optical / IAQ	TA Time
<i>Circle analysis and TA time</i>		<i>Circle analysis and TA time</i>	2 hour	PCM: NIOSH 7400	Note TAT
AHERA	4 hour	Improved	4 hour	Allergen Particle:	24 hour
EPA Level II	8 hour	Interim	8 hour	tape/bulk/swab	2 days
Drinking Water	16 hour		16 hour	Cyclex-d cassettes	3 days
Wipe	24 hour	AHERA	24 hour	Air-o-cell cassettes	5-10 days
Micro-vac	2 days		2 days	Anderson cultures	Specify
NIOSH 7402	3 days	Point Count -	3 days	Bulk/swab cultures	Mold or
Chatfield Bulk	5 days	(NESHAPS)	5 days	Bacteria cultures	bacteria

Please indicate appropriate turn around time. (minimum turnaround - 3 Days for Lead TCLP and water)

Lead: *Circle analysis and TA time*

Sample Information:

Sample #:	Sample Location:	Sample Date/Time:	Sample Volume (L)
090065Tr21X #1	Area (A) Ceiling	1/25/2013	
090065Tr21X #2	Area (A) Ceiling	1/25/2013	
090065Tr21X #3	Area (A) Wall	1/25/2013	
090065Tr21X #4	Area (B) Wall	1/25/2013	

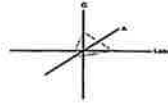
Custody Information:

Samples relinquished: Joel Clark 1/29/13
 Signature / Date / Time

Samples received: Matthew Romero
 Signature / Date / Time
 1/30/13 3:30PM

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Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798



CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Arkansas State Highway & Transportation Dept.

10324 I-30, Room 705
Little Rock, AR 72209

Attn: Robert Pooler

Customer Project: Tract 21X 17522 Alvin Seamster Rd
Reference #: CAL1301680CP

Date: 02/04/13

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved)). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found by PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one of these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project:	Tract 21X 17522 Alvin Seamster Rd	CA Labs Project #:	CAL1301680CP	
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types

No Asbestos Detected.

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

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CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Customer Project:
Tract 21X 17522 Alvin
Seamster Rd
Turnaround Time:
3 Days

CA Labs Project #:
CAL1301680CP

Date: 02/04/13

Samples Received: 1/30/13 3:30PM

Date Of Sampling: 01/25/13

Purchase Order #: 090065

Phone # 501-569-2317

Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
090065Tr21 X 1		1-1	Area (A) Ceiling/ tan surfaced white compound	n	None Detected		100% mi,bi,ca
		1-2	white compound (beneath tape)	y	None Detected		100% mi,ca
		1-3	white drywall with brown paper	n	None Detected	20% ce	80% qu,gy
090065Tr21 X 2		2-1	Area (A) Ceiling/ tan surfaced white compound	n	None Detected		100% mi,bi,ca
		2-2	white compound (beneath tape)	y	None Detected		100% mi,ca
		2-3	white drywall with brown paper	n	None Detected	21% ce	79% qu,gy
090065Tr21 X 3		3-1	Area (A) Wall/ tan surfaced white compound	n	None Detected		100% mi,bi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for
identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetlc	

Approved Signatories:



Keith Malone
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Customer Project:
Tract 21X 17522 Alvin
Seamster Rd
Turnaround Time:
3 Days

CA Labs Project #:
CAL1301680CP

Phone # 501-569-2317
Fax # 501-569-2018

Date: 02/04/13
Samples Received: 1/30/13 3:30PM
Date Of Sampling: 01/25/13
Purchase Order #: 090065

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		3-2	white compound (beneath tape)	y	None Detected		100% mi,ca
		3-3	white drywall with brown paper	n	None Detected	23% ce	77% qu,gy
090065Tr21 X 4			Area (B) Wall/ tan surfaced				
		4-1	white compound	n	None Detected		100% mi,bi,ca
		4-2	white compound (beneath tape)	y	None Detected		100% mi,ca
		4-3	white drywall with brown paper	n	None Detected	19% ce	81% qu,gy

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perille	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Keith Malone
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

INSPECTION FLOOR PLAN

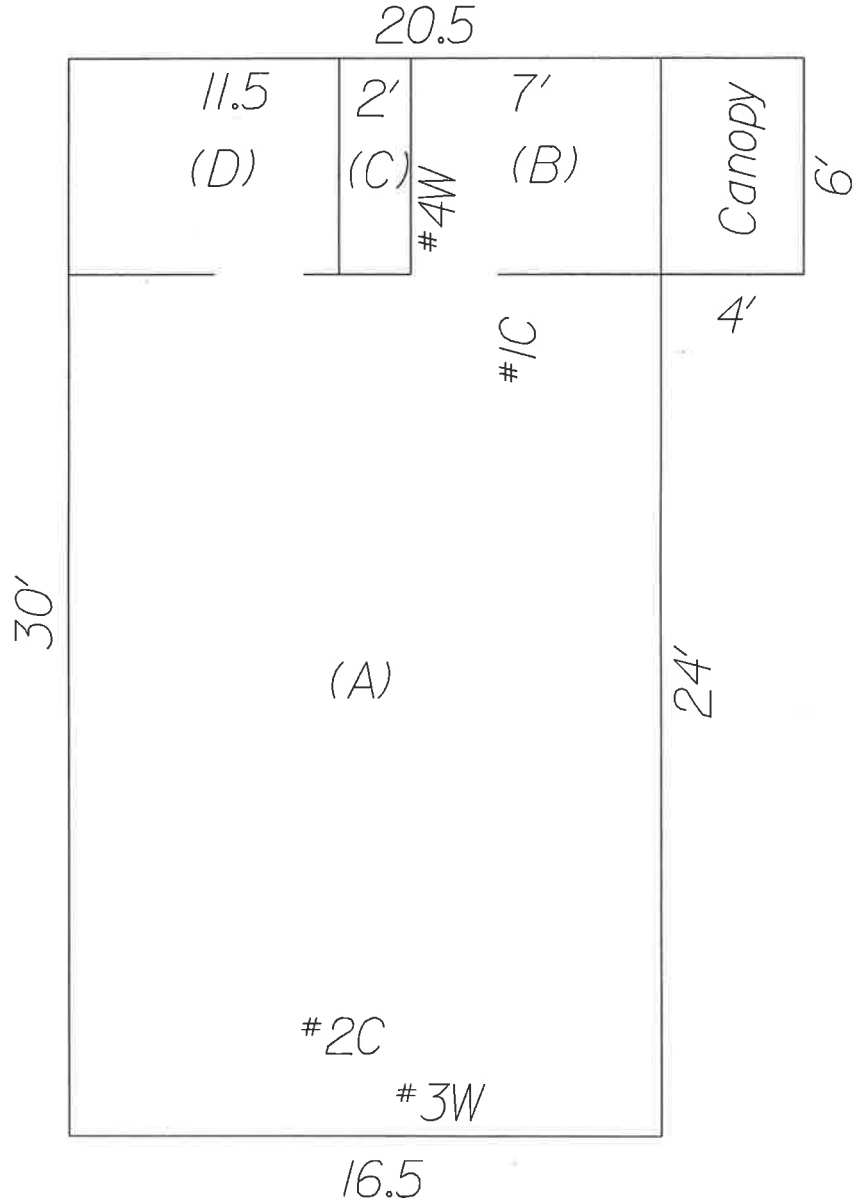
JOB: 090065
 TRACT: 21 X
 DATE: 1/25/13

PROPERTY LOCATION
 1-S-Frame Shop Building
 17522 Dennis Mitchell Road
 Garfield, AR 72732

INSPECTED BY
 Joel Clark (011518)

Sample Number	Description/ Location	Sample Number	Description/ Location
#1	A) Ceiling	#11	
#2	A) Ceiling	#12	
#3	A) Wall	#13	
#4	B) Wall	#14	
#5		#15	
#6		#16	
#7		#17	
#8		#18	
#9		#19	
#10		#20	

Homogenous Areas:	
Roofing	Composition Shingle
Siding	Wood
Ceilings	(ACD) Sheet Rock; (B) 2X4
Walls	(A) Open Studs; (BCD) Sheet Rock
Floors	Concrete Slab



Job 090065 Tract 21X
 17522 Dennis Mitchell Road
 Garfield, AR 72732
 Approx. 615 SF



01.25.2013

16X



01-25-2013

16X



INSPECTION FLOOR PLAN

JOB:	090065	PROPERTY LOCATION	INSPECTED BY
TRACT:	17 X	1-S-Service Garage	Joel Clark (011518)
DATE:	1/25/2013	17781 Hwy. 62 E.	
		Garfield, AR 72732	

Sample Number	Description/ Location	Sample Number	Description/ Location
#1		#11	
#2		#12	
#3		#13	
#4		#14	
#5		#15	
#6		#16	
#7		#17	
#8		#18	
#9		#19	
#10		#20	

Homogenous Areas:	
Roofing	Metal
Siding	Metal
Ceilings	Metal
Walls	Metal
Floors	Concrete Slab



01 25 2013



01-25-2013



01-25-2013

18X



Crisp Analytical Laboratories, L.L.C
 1929 Old Denton Rd.
 Carrollton, TX 75006

Phone: 972-272-2754
 Fax: 972-272-2798
 Mobile: 214-564-8366

Chain of Custody

Client Name:	AHTD	CA Labs job	CAL# 1301679
Client Address:	P.O. Box 2261 Room #705 Little Rock, AR 72203-2261	Billing Address:	(if different)
phone number:	501-569-2317 or 2318	P.O. # :	090065
fax number:		Project Name:	Tract 18X 17799 Hwy. 62 East
Send Reports to:	Joeld.Clark@arkansashighways.com	Project Number:	090065 Garfield, AR 72732

Total # Samples Submitted: 6	Total # Samples to be Analyzed: 6	Material Matrix: Air / Bulk / Water
------------------------------	-----------------------------------	--

Asbestos: please call ahead for availability of all rush and/or after hours samples.

TEM	TA Time	PLM	TA Time	Optical / IAQ	TA Time
<i>Circle analysis and TA time</i>		<i>Circle analysis and TA time</i>			
AHERA	4 hour	Improved	4 hour	PCM: NIOSH 7400	Note TAT
EPA Level II	8 hour	Interim	8 hour	Allergen Particle:	24 hour
Drinking Water	16 hour		16 hour	tape/bulk/swab	2 days
Wipe	24 hour	AHERA	24 hour	Cyclex-d cassettes	3 days
Micro-vac	2 days		2 days	Air-o-cell cassettes	5-10 days
NIOSH 7402	3 days	Point Count -	3 days	Anderson cultures	Specify
Chatfield Bulk	5 days	(NESHAPS)	5 days	Bulk/swab cultures	Mold or
				Bacteria cultures	bacteria

Please indicate appropriate turn around time. (minimum turnaround - 3 Days for Lead TCLP and water)
 Lead: Circle analysis and TA time

Sample Information:

Sample #:	Sample Location:	Sample Date/Time:	Sample Volume (L)
090065Tr18X #1	Area (A) Ceiling	1/25/2013	
090065Tr18X #2	Area (A) Ceiling	1/25/2013	
090065Tr18X #3	Area (B) Ceiling	1/25/2013	
090065Tr18X #4	Area (C) Ceiling	1/25/2013	
090065Tr18X #5	Area (A) Wall	1/25/2013	
090065Tr18X #6	Area (C) Wall	1/25/2013	

Custody Information:

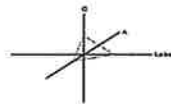
Samples relinquished: Joel Clark 1/29/13
 Signature / Date / Time

Samples received: Matthew Pomeroy 1/30/13
 Signature / Date / Time

3:30 PM

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Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
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Fax 972-242-2798



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12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Arkansas State Highway & Transportation Dept.

10324 I-30, Room 705
Little Rock, AR 72209

Attn: Robert Pooler

Customer Project: Tract 18X 17799 Hwy 62 East Garfield, AR 72732
Reference #: CAL1301679CP

Date: 2/4/2013

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved)). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found by PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

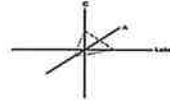
Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

CA Labs
Dedicated to
Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798



CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: Tract 18X 17799 Hwy 62 East Garfield, AR 72732 **CA Labs Project #:** CAL1301679CP

Sample #	Layer #	Analysts	Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
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No Asbestos Detected.

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
ml - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Pooler
Arkansas State Highway & Transportation Dept.
10324 I-30, Room 705
Little Rock, AR 72209

Customer Project:
Tract 18X 17799 Hwy 62 East
Garfield, AR 72732
Turnaround Time:
3 Days

CA Labs Project #:
CAL1301679CP

Date: 2/4/2013

Samples Received: 1/30/13 3:30PM

Date Of Sampling: 1/25/2013

Purchase Order #: 90065

Phone # 501-569-2317

Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
----------	-------------	------------	-----------------------	-------------------------	-------------------------------	--	--------------------------------------	-------------------------------

090065Tr18 X-1		1-1		Area (A) Ceiling/ white surfaced white compound	n	None Detected		100% mi,bi,ca
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		1-2		white compound (beneath tape)	y	None Detected		100% mi,ca
--	--	-----	--	--------------------------------------	---	----------------------	--	------------

		1-3		white drywall with brown paper	n	None Detected	19% ce 1% fg	80% qu,gy
--	--	-----	--	---------------------------------------	---	----------------------	-----------------	-----------

090065Tr18 X-2		2-1		Area (A) Ceiling/ white surfaced white compound	n	None Detected		100% mi,bi,ca
-------------------	--	-----	--	--	---	----------------------	--	---------------

		2-2		white compound (beneath tape)	y	None Detected		100% mi,ca
--	--	-----	--	--------------------------------------	---	----------------------	--	------------

		2-3		white drywall with brown paper	n	None Detected	18% ce 1% fg	81% qu,gy
--	--	-----	--	---------------------------------------	---	----------------------	-----------------	-----------

090065Tr18 X-3		3-1		Area (B) Ceiling/ white surfaced white compound	n	None Detected		100% mi,bi,ca
-------------------	--	-----	--	--	---	----------------------	--	---------------

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

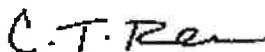
AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)

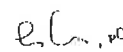
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Tanner Rasmussen
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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 10324 I-30, Room 705
 Little Rock, AR 72209

Customer Project:
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 Garfield, AR 72732
Turnaround Time:
 3 Days

CA Labs Project #:
 CAL1301679CP
Date: 2/4/2013
Samples Received: 1/30/13 3:30PM
Date Of Sampling: 1/25/2013
Purchase Order #: 90065

Phone # 501-569-2317
 Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		3-2	white compound (beneath tape)	y	None Detected		100% mi,ca
		3-3	white drywall with brown paper	n	None Detected	19% ce 1% fg	80% qu,gy
090065Tr18 X-4			Area (C) Ceiling/ white surfaced white compound				
		4-1	white compound	n	None Detected		100% mi,bi,ca
		4-2	white compound (beneath tape)	n	None Detected		100% mi,ca
		4-3	white drywall with brown paper	n	None Detected	19% ce 1% fg	80% qu,gy
090065Tr18 X-5			Area (A) Wall/ gray surfaced white compound				
		5-1	white compound	n	None Detected		100% mi,bi,ca
		5-2	white compound (beneath tape)	y	None Detected		100% mi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

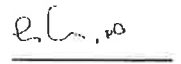
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 Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

- | | | | |
|-----------------|------------------|-------------------|--------------------------|
| ca - carbonate | mi - mica | fg - fiberglass | ce - cellulose |
| gypsum - gypsum | ve - vermiculite | mw - mineral wool | br - brucite |
| bi - binder | ot - other | wo - wollastinite | ka - kaolin (clay) |
| or - organic | pe - perlite | ta - talc | pa - palygorskite (clay) |
| ma - matrix | qu - quartz | sy - synthetic | |

Approved Signatories:


 Tanner Rasmussen
 Analyst


 QAC
 Leslie Crisp, P.G.

Technical Manager
 Chad Lytle

- | | |
|--|---|
| 1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers | 6. Anthophyllite in association with Fibrous Talc |
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| 3. Actinolite in association with Vermiculite | 8. Favorable scenario for water separation on vermiculite for possible analysis by another method |
| 4. Layer not analyzed - attached to previous positive layer and contamination is suspected | 9. < 1% Result point counted positive |
| 5. Not enough sample to analyze | 10. TEM analysis suggested |

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Purchase Order #: 90065

Phone # 501-569-2317
 Fax # 501-569-2018

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		5-3	white drywall with brown paper	n	None Detected	19% ce 1% fg	80% qu,gy
090065Tr18 X-6		6-1	Area (C) Wall/ white surfaced white compound	n	None Detected		100% mi,bi,ca
		6-2	white drywall with brown paper	n	None Detected	19% ce 1% fg	80% qu,gy
090065Tr18 X-7		7-1	white surfaced white compound	n	None Detected		100% mi,bi,ca
		7-2	white compound (beneath tape)	y	None Detected		100% mi,ca
		7-3	white drywall with brown paper	n	None Detected	18% ce 1% fg	81% qu,gy
090065Tr18 X-8		8-1	white surfaced white compound	n	None Detected		100% mi,bi,ca

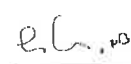
Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
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- | | | | |
|-----------------|------------------|-------------------|--------------------------|
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| gypsum - gypsum | ve - vermiculite | mw - mineral wool | br - brucite |
| bl - binder | ot - other | wo - wollastinite | ka - kaolin (clay) |
| or - organic | pe - perlite | ta - talc | pa - palygorskite (clay) |
| ma - matrix | qu - quartz | sy - synthetic | |

Approved Signatories:


 Tanner Rasmussen
 Analyst


 QAC
 Leslie Crisp, P.G.
 Technical Manager
 Chad Lytle

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Date Of Sampling: 1/25/2013
Purchase Order #: 90065

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		8-2	white compound (beneath tape)	y	None Detected		100% mi,ca
		8-3	white drywall with brown paper	n	None Detected	19% ce 1% fg	80% qu,gy
090065Tr18 X-9		9-1	off-white linoleum	y	None Detected	28% ce 6% fg	66% gy,ma
		9-2	tan mastic	y	None Detected		100% gy,bi
090065Tr18 X-10		10-1	off-white linoleum	y	None Detected	29% ce 6% fg	65% gy,ma
		10-2	tan mastic	y	None Detected		100% gy,bi
090065Tr18 X-11		11-1	tan floor tile	y	None Detected		100% qu,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

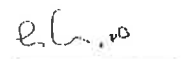
AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
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ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:


Tanner Rasmussen
Analyst


QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
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Polarized Light Asbestiform Materials Characterization

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		11-2	tan mastic	y	None Detected		100% gy,bi
090065Tr18 X-12		12-1	tan floor tile	y	None Detected		100% qu,ca
		12-2	tan mastic	y	None Detected		100% gy,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

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ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

C.T. Rasmussen

Tanner Rasmussen
 Analyst

Leslie Crisp

QAC
 Leslie Crisp, P.G.

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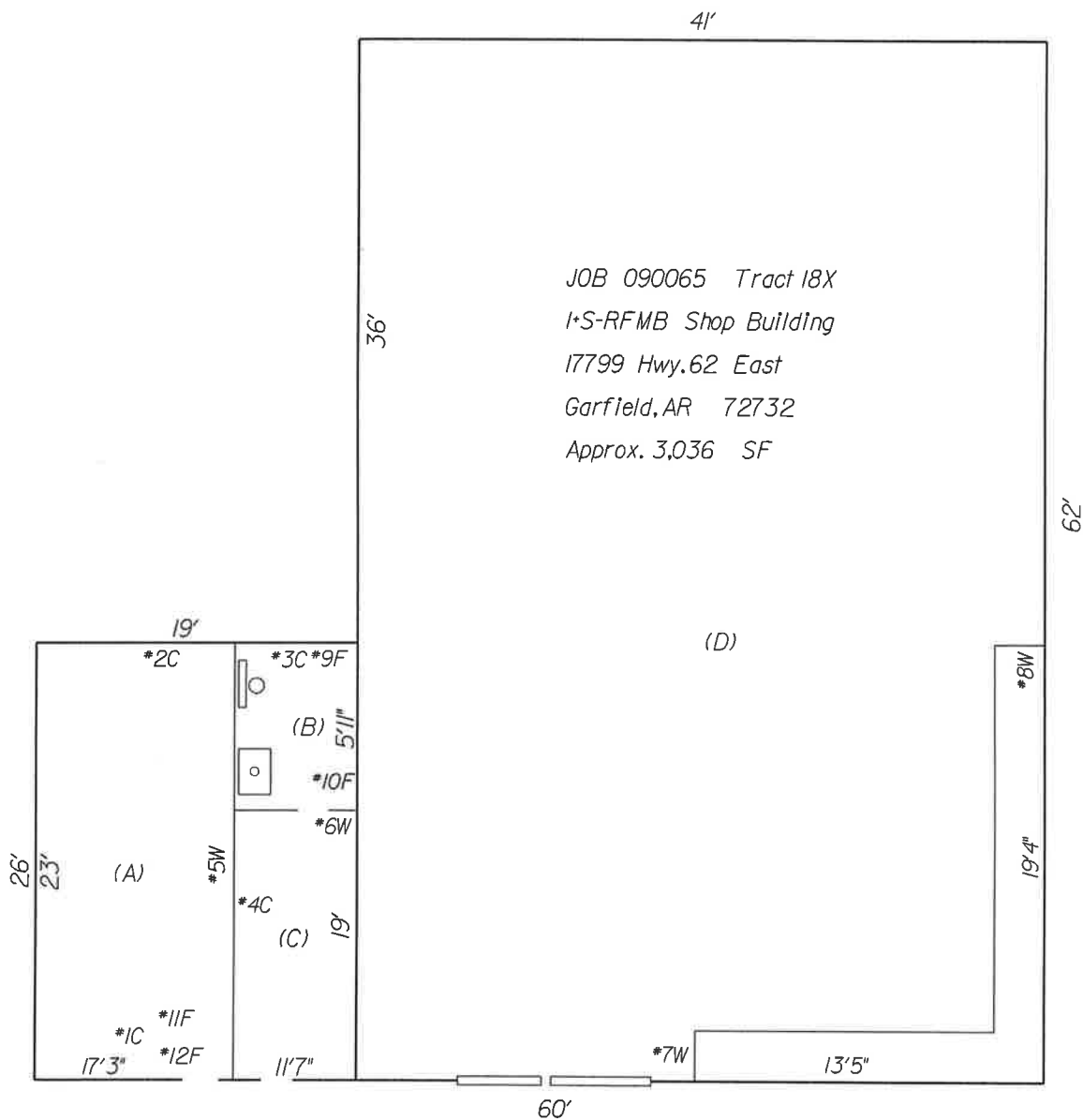
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10. TEM analysis suggested

INSPECTION FLOOR PLAN

JOB:	090065	PROPERTY LOCATION	INSPECTED BY
TRACT:	18 X	RFMB Shop	Joel Clark (011518)
DATE:	1/25/13	17799 Hwy. 62 East	
		Garfield, AR 72732	

Sample Number	Description/ Location	Sample Number	Description/ Location
#1	A) Ceiling	#11	
#2	A) Ceiling	#12	
#3	B) Ceiling	#13	
#4	A) Wall	#14	
#5	C) Wall	#15	
#6		#16	
#7		#17	
#8		#18	
#9		#19	
#10		#20	

Homogenous Areas:	
Roofing	Metal
Siding	Metal
Ceilings in Office Area (ABC)	(D) Metal
Walls on Office Area (ABC)	32' 9" in Area (D); Metal (D)
Floors	(A) Floor Tile < 50 SF; Concrete Slab



RIGHT OF WAY SIGNS AND SYMBOLS

- SECTION CORNER
- QUARTER CORNER
- QUARTER QUARTER CORNER
- SECTION CENTER
- STATE LINE OR CITY LIMITS
- COUNTY LINE
- TOWNSHIP LINE
- QUARTER SECTION LINE
- PROPERTY LINE
- EXISTING R/W LINE
- PROPOSED R/W LINE
- EXISTING CONTROL OF ACCESS
- PROPOSED CONTROL OF ACCESS
- PROPOSED R/W & CONTROL OF ACCESS
- EXISTING R/W DIMENSION
- PROPOSED R/W DIMENSION
- TEMPORARY & PERMANENT EASEMENT LINE
- EXISTING BRIDGE OR SEPARATION STRUCTURE
- PROPOSED BRIDGE OR SEPARATION STRUCTURE
- EXISTING CULVERT
- RAILROAD
- PAVED ROADS
- GRAVEL ROAD
- DRIVEWAY
- FENCE
- CONSTRUCTION LIMITS
- LEVEE
- TRAIL
- RESIDENTIAL & COMMERCIAL BUILDING
- HEDGE ROW
- SMALL STREAM
- LARGE STREAM
- POND OR LAKE
- TELEPHONE POLES
- POWER POLES
- TRANSMISSION LINES
- TREES
- DECIDUOUS WOODS
- EVERGREEN WOODS
- SET AHTD R/W MONUMENT
- TEMPORARY EASEMENT POINT
- PERMANENT EASEMENT POINT
- EXISTING R/W POINT
- PROPERTY LINE POINT
- FOUND MONUMENT
- SURVEY CALCULATED POINT

STATE OF ARKANSAS
STATE HIGHWAY COMMISSION

RIGHT OF WAY MAP
AVOCA-NORTH GARFIELD

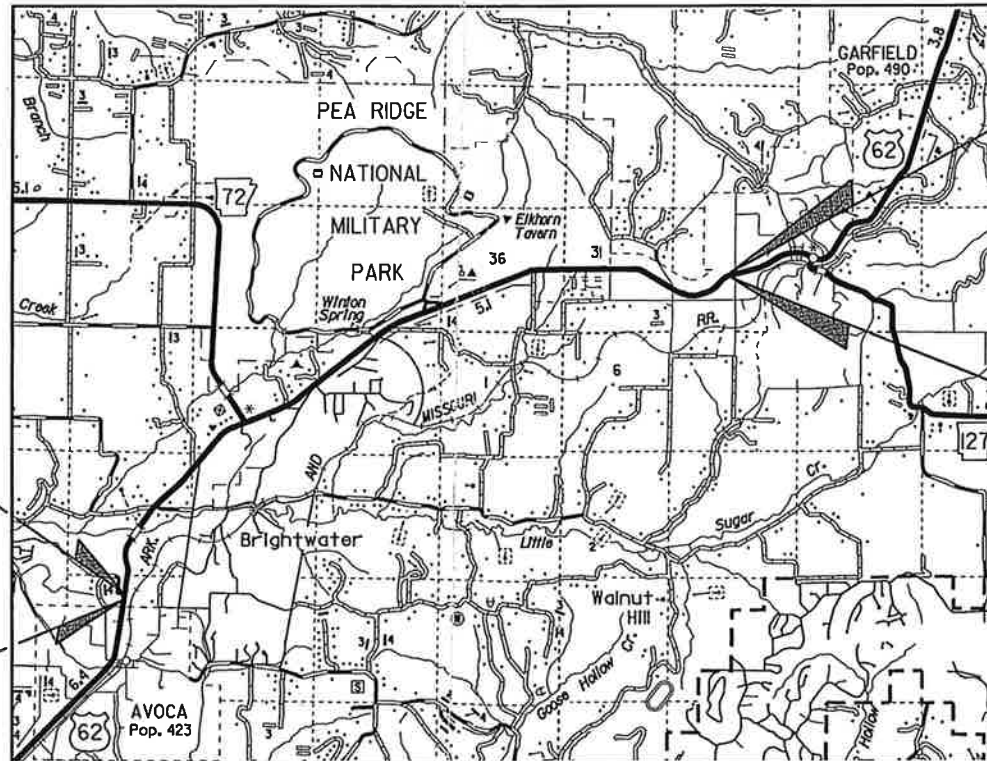
(U.S. HWY. 62)

BENTON COUNTY
ROUTE 01 SECTION 02

JOB 090065

LAYOUT NOT TO SCALE

090065



STA. 121+50.00 BEGIN R/W ACQ.
JOB 090065

STA. 114+00.00 BEGIN CONST.
JOB 090065

STA. 446+75.60 END R/W ACQ.
JOB 090065

STA. 446+50.00 END CONST.
JOB 090065

ARKANSAS STATE HIGHWAY
AND TRANSPORTATION DEPT.
RECEIVED

OCT 28 2011

PROPERTY MANAGEMENT
RIGHT OF WAY DIVISION



INITIAL INSPECTION: 11-3-11

EXISTING RIGHT OF WAY AUTHORITY
THE EXISTING R/W SHOWN IS WITHIN THE LIMITS OF
THE R/W COVERED BY THE FOLLOWING:

JOB NO.	HWY.	AUTHORITY	BOOK	PAGE	DATE
9433	62	R/W PLANS & DEEDS			
9477	72	R/W PLANS & DEEDS			
490	62	R/W PLANS & DEEDS			
4150	62	COURT ORDER			4/16/1931
090064	62	R/W PLANS & DEEDS			

NO.	DATE	DESCRIPTION	BY	CHKD	NO.	DATE	DESCRIPTION	BY	CHKD
DESIGNED:	11/10	D.MITCHELL	REVIEWED:	F.RIPPOND					
12XR1		J&C Investments, LLC & Donald Williams	61	0.50	0.50	21,949	21,949		23
8XR2		Joseph & Helen Dorn H/W	47	0.34	0.34	14,956	14,956		21
8XR1		Joseph & Helen Dorn H/W	47	0.01	0.01	370	370		21
50R		Arvest Bank	30REV	0.43	0.43	18,719	18,719		18,719
24R		The Bypass Trust c/u The Lynch Family Trust	3	0.62	0.62	27,162	27,162		12,13
51R		Darren R. & Natasha M. Gould H/W	31	0.37	0.37	16,012	16,012		19
14XR		Stephen R. & Deborah F. Gohes H/W	71	0.04	0.04	1,931	1,931		27
18XR		Paul T. & Deborah Plasek H/W 1/2 Int. & James T. Holland 1/2 Int.	104	0.83	0.83	36,204	36,204		32
6XR		James L. & Benita E. Yousey H/W	41	0.11	0.11	4,417	4,417		20
15XR		Diana M. Smith & Donald L. Smith Revocable Trust	78	0.53	0.53	23,101	23,101		29
50		Arvest Bank	30REV	0.61	0.18	26,697	7,978		18,19
49		Carolyn S. Ezell	34	23.13	1.77	1,007,728	77,156		18,19
48		Jim D. & Carol A. Trammell H/W	29	1.05	0.24	45,916	10,571		18
47		Johnny L. & Dawn L. Underneir H/W	28REV	2.24	0.72	97,420	31,559		18
46		The Jackson Family Trust	33REV	19.82	0.10	863,212	4,387		18
45		Robert L. & Peggy A. Saylor H/W	26,27	1.17	0.17	50,759	7,593		18
44		MDX Properties, LLC	24REV	2.52	0.06	109,615	2,567		18
43		Har-Bar Foundation	23REVA	2.14	0.09	93,194	4,027	435G1	18
42		Roy & Kathleen Roney H/W	14REV	UNABLE	0.01	UNABLE	636		17,18
41		Jack A. Wilkey	21	0.72	0.13	31,397	5,821	415G1	17,18
40		Larry P. & Shanna R. Jenkins H/W	20	1.25	0.12	54,498	5,422	TCE 40E1-0.03 ac. or 1,186 sq. ft.	405G1
39		Laurie J. Stellow Revocable Trust	18	12.81	0.44	558,062	19,253	TCE 39E1-0.06 ac. or 2,720 sq. ft.	395G1
38		Robert L. & Peggy Saylor, H/W	19REV	1.57	0.14	68,458	6,097	TCE 38E1-0.03 ac. or 1,384 sq. ft.	385G1
37		The Ruby Faye Hall Revocable 2008 Land Trust	17REV	29.26	0.90	1,274,363	39,218	TCE 37E1-0.04 ac. or 1,840 sq. ft.	
36		Chris C. & Sherril R. Nelson H/W	16	62.72	1.37	2,732,050	59,629		16,17
35		Richard L. & Marilyn J. Sears H/W	14	9.03	0.40	393,207	17,464		15,16
34		Estate of Charles J. Propp, Deceased 1/2 Int. Ronald B. and Janet L. Simrell Revocable Joint Trust, 1/2 Int.	15REV	2.40	0.16	104,447	7,173	34A-0.01 ac. or 637 sq. ft. (AHC) 34A2-0.09 ac. or 3,712 sq. ft. (AHC) 34B-0.06 ac. or 2,764 sq. ft. (Benton County)	16
33		John J. Jr. & Karen S. Leroy H/W Alta Leroy	13	1.41	0.25	61,471	64,548	33A-0.18 ac. or 7,711 sq. ft. (AHC) 33B-0.07 ac. or 3,077 sq. ft. (Benton County)	16
32		Kenneth Wayne Varnell, Bob Roy Varnell Dennis Delfayne Varnell	12	32.93	2.11	1,434,289	91,707		15,16
31		Kenneth Wayne Varnell, Bob Roy Varnell Dennis Delfayne Varnell	12	2.95	0.98	128,633	42,112		15,16
30		Wanda C. Bennett Revocable Trust	10REV	62.10	3.98	2,705,000	173,291	30A-3.93 ac. or 171,117 sq. ft. 30B-0.03 ac. or 1,387 sq. ft. TCE 30E2-0.11 ac. or 4,747 sq. ft.	14,15
29		Elmer & Lorene Lynch Burroughs H/W	143	UNABLE	0.07	UNABLE	2,950	29A-0.01 ac. or 411 sq. ft. 29B-0.06 ac. or 2,479 sq. ft.	14
28		Jimmy Lon Webb	8REV-1	1.92	0.08	83,435	3,482		14
27		Wanda C. Bennett a single person Carl G. Bennett a married person	5REV	3.77	0.07	164,386	3,130	TCE 27E1-0.03 ac. or 1,466 sq. ft.	13,14
26		Wanda C. Bennett a single person Carl G. Bennett a married person	5REV	28.77	1.20	1,253,222	52,699	26A-0.17 ac. or 7,552 sq. ft. TCE 26E1-0.06 ac. or 2,536 sq. ft. 26A2-1.00 ac. or 43,760 sq. ft. 26B-0.03 ac. or 1,387 sq. ft.	13,14
25		The Bypass Trust c/u The Lynch Family Trust	3	0.14	0.14	5,897	5,897		12
24		The Bypass Trust c/u The Lynch Family Trust	3	0.77	0.15	33,488	6,326		12,13
23		Carl Stanley & Julia A. Williamson H/W	4	3.28	0.38	143,065	16,663		12
22		Robert L. Brush	2	38.37	1.54	1,671,607	67,204		11,12
21X		Eugene W. & Lydia Nowak Living Trust	90REV	9.56	0.60	416,354	26,311	21XA-0.39 ac. or 16,951 sq. ft. (AHC) TDE 21XED2-425 sq. ft. 21XB-0.21 ac. or 9,360 sq. ft. (Benton County)	31
20		NOT USED							
19X		Harold L. Taylor & Barbara Jean Williams	38REV	1.37	0.49	59,491	21,201		19
18X		Paul T. & Deborah Plasek H/W 1/2 Int. & James T. Holland 1/2 Int.	104	0.93	0.10	40,659	4,455		32
17X		J.C. Carter	103	2.36	0.25	102,587	10,794	TCE 17XE1-0.04 ac. or 1,571 sq. ft. TDE 17XED2-0.04 ac. or 1,709 sq. ft.	32
16X		Jerry Lemone & Freda Ruth Wright H/W	102	2.31	0.62	100,468	26,880	TCE 16XE1-0.05 ac. or 2,262 sq. ft. TDE 16XED2-0.10 ac. or 4,453 sq. ft.	32
15X		Diana M. Smith & Donald L. Smith Revocable Trust	78	0.75	0.22	32,690	9,589		29
14X		Stephen R. & Deborah F. Gohes H/W	71	5.00	2.57	217,783	111,645	14XA-2.38 ac. or 103,886 sq. ft. (AHC) 14XB-0.06 ac. or 2,399 sq. ft. (Benton County) 14XB2-0.13 ac. or 5,760 sq. ft. (Benton County)	27
13X		Gerald Steven Burkett	66	7.10	4.79	309,123	207,750		25,26
12X		J&C Investments, LLC & Donald Williams	61	10.28	3.42	447,660	148,836	12XA-6.00275 ac. or 119,703 sq. ft. (AHC) 12XB-0.67 ac. or 29,133 sq. ft. (Benton County)	23,24
11X		W.R. Ray, ET AL	146	1.12	1.11	48,680	48,537	TDE 11XE1-0.00 ac. or 143 sq. ft.	23
10X		Dayne & Lynda Galyen H/W	60	59.62	1.31	2,596,951	57,338	TCE 10XE1-0.06 ac. or 2,542 sq. ft. TDE 10XED2-0.05 ac. or 2,292 sq. ft. 10XA-1.10 ac. or 48,107 sq. ft. (AHC) 10XB-0.21 ac. or 9,231 sq. ft. (Benton County)	23,24
9X		Abel & Maria E. Ballesteros H/W	150	3.94	0.44	171,499	18,985	TDE 9XED2-0.01 ac. or 543 sq. ft.	22,23
8X		Joseph & Helen Dorn H/W	47	1.37	1.02	59,894	44,568	8XA-0.83 ac. or 36,277 sq. ft. (AHC) 8XB-0.19 ac. or 8,291 sq. ft. (Benton County)	21
7X		Shawn Lee	43REV	1.46	0.42	63,445	18,248	TDE 7XED1-0.02 ac. or 982 sq. ft.	20
6X		James L. & Benita E. Yousey H/W	41	0.32	0.21	13,907	9,490	6XA-0.20 ac. or 8,918 sq. ft. (AHC) 6XB-0.01 ac. or 572 sq. ft. (Benton County)	20
5X		Harold L. & Carolyn Y. Taylor H/W 1/2 Int. & Barbara Jean Williams 1/2 Int.	39REV	4.42	1.12	192,421	48,853	TCE 5XE1-0.06 ac. or 2,524 sq. ft. TDE 5XED2-0.08 ac. or 3,281 sq. ft. TDE 5XED3-0.03 ac. or 1,449 sq. ft.	19,20
4X		Edens Family Revocable Trust	32	2.18	0.37	94,787	16,034	TDE 4XED1-0.04 ac. or 1,903 sq. ft.	19
3X		Ingram Revocable Trust	22REV	1.43	0.08	62,424	3,652	TDE 3XED1-0.08 ac. or 3,362 sq. ft.	17,18
2X		Dennis D. & Pamela J. Varnell H/W	11	4.52	2.43	196,941	105,884	TDE 2XED1-0.02 ac. or 1,081 sq. ft.	14,15
1X		Leo Edward Lynch	9	24.98	1.31	1,088,106	57,124	TDE 1XED1-0.02 ac. or 943 sq. ft. TCE 1XE2-0.30 ac. or 13,187 sq. ft.	14

BIRCHFIELD SUB-DIV. (Sh. 16&17)

TRACT	BLOCK	TRACT	SQ. FT.	ACQ.	RESIDUAL
36		1	1,274,767	42,672	1,232,095
		2	218,206	5,562	212,644
		3	218,147	5,428	212,719
		4	1,020,930	5,967	1,014,963

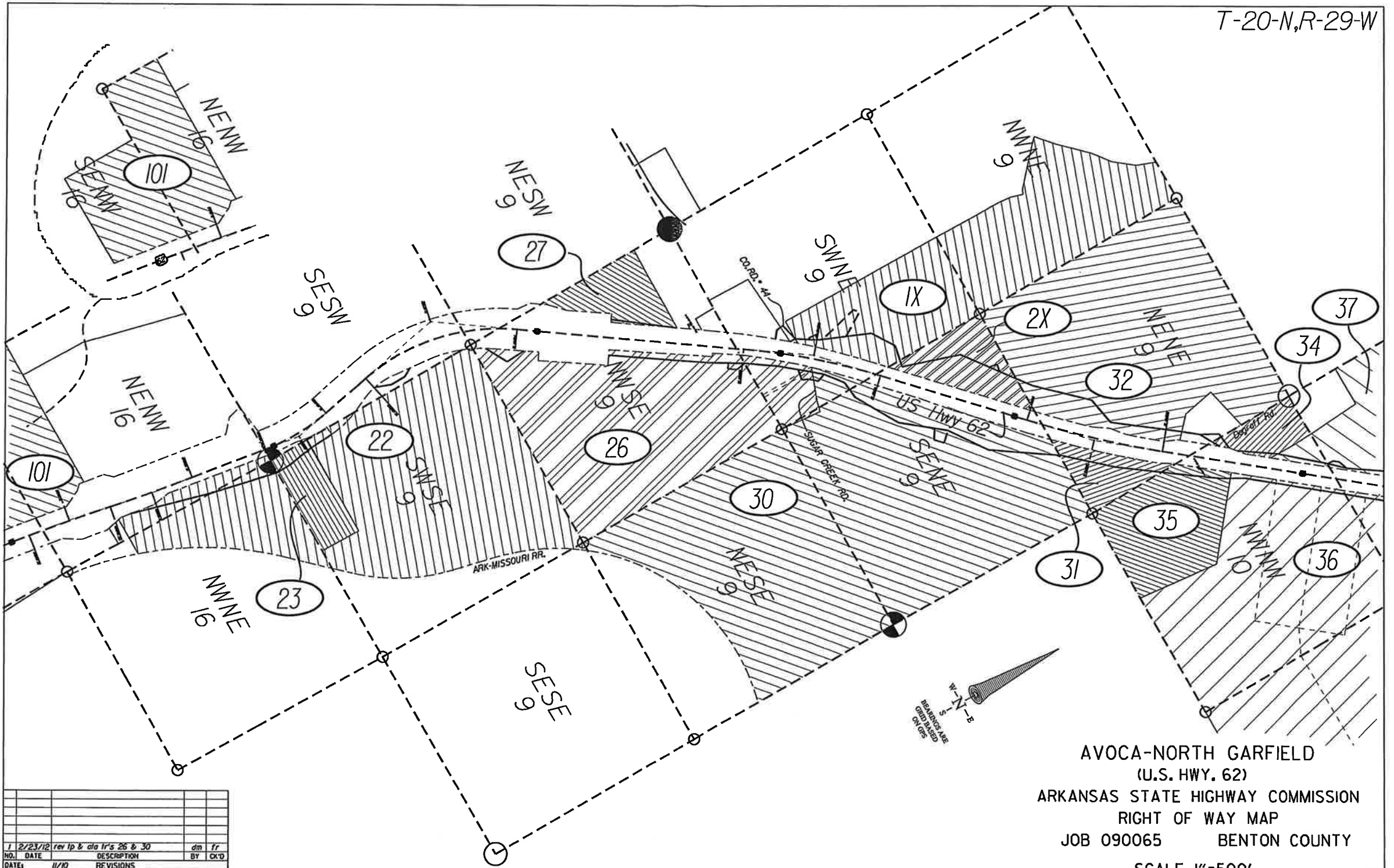
DOGWOOD ADD. (Sh. 18&19)

TRACT	BLOCK	TRACT	SQ. FT.	ACQ.	RESIDUAL
48		1A	25,743	10,578	15,165
		2A	20,173	0	20,173

AVOCA-NORTH GARFIELD
(U.S. HWY. 62)
ARKANSAS STATE HIGHWAY COMMISSION
RIGHT OF WAY MAP
JOB 090065 BENTON COUNTY
SHEET 3 OF 33

103	Frank A. & Theresa L. Collins, H/W	155	5.00	0.02	217,676	1041		21
102	E.M. Roy 5/12% ET AL	156	4.10	3.25	178,488	14164		23,24
101	Lillian May Watson, William Gene Watson and Fred Lambert Watson	152	13.76	0.02	599,354	766		11
100	United States of America	N/A	UNABLE	6.34	UNABLE	275,855	100A-6.08 ac. or 264,613 sq. ft. (AHC) TCE 100E2-0.02 ac. or 670 sq. ft. TCE 100E5-0.51 ac. or 22,286 sq. ft. (Benton Co) 100C-0.23 ac. or 9,949 sq. ft. (Benton Co) TCE 100D-0.03 ac. or 1,293 sq. ft. (Benton Co) TCE 100E4-0.08 ac. or 3,697 sq. ft.	22-27
99E	Gustavo & Lourdes Fernandez H/W	149					TCE 99E1-0.06 ac. or 2,502 sq. ft.	19,20
98	DELETED							
97	Mildred L. Jones, Michael H. Jones Jennifer L. Jones	97	9.36	0.60	407,776	26,040	TCE 97E1-0.10 ac. or 4,498 sq. ft.	32,33
96	Town of Garfield	106REV	461	0.73	200,777	31,665	TCE 96E1-0.08 ac. or 3,661 sq. ft.	96SG1 32,33
95	Jana K. Wright	105REV	0.98	0.01	42,685	462	TCE 95E1-0.07 ac. or 3,499 sq. ft.	32
94	Garfield First Baptist Church	93,94, 95,96	10.46	0.04	455,560	1,930	TCE 94E1-0.02 ac. or 661 sq. ft.	32
93	Lemolne & Wanda Wright H/W	101	1.45	0.20	63,777	8,662		31,32
92	DG Garfield AR, LLC	100REV	1.25	0.09	54,652	3,838	TCE 92E1-0.05 ac. or 2,070 sq. ft.	31
91	Patricia Knoust & Don D. Knoust	92	24.05	0.09	1,047,710	3,797		31,32
90	Rosemarie Justus Dattel Revocable Living Trust	91	1.23	0.03	53,431	1,247	TCE 90E1-0.03 ac. or 1,495 sq. ft.	31
89	Ajdahan & Wendy Black H/W	99	1.85	0.26	80,464	11,424	89A-0.09 ac. or 4,099 sq. ft. (AHC) TCE 89E2-0.05 ac. or 2,245 sq. ft. 89B-0.17 ac. or 7,325 sq. ft. (Benton County) 88A-0.37 ac. or 16,312 sq. ft. (AHC) 88B-0.01 ac. or 574 sq. ft. (Benton County) TCE 88E1-0.02 ac. or 1,066 sq. ft. TCE 88E2-0.04 ac. or 1,568 sq. ft. TCE 88E3-0.04 ac. or 1,730 sq. ft. TCE 88E4-0.01 ac. or 400 sq. ft. 88SG1	31
88	Abner Trust, an undivided 50% Int. & Elephant Trust, an undivided 50% Int.	84REV	75.09	0.38	3,270,854	16,886	TCE 87E1-0.02 ac. or 656 sq. ft.	30,31
87	Guillermo V. & Shella A. Martinez, H/W	89REV	6.51	0.10	283,569	4,335	TCE 86E1-0.01 ac. or 413 sq. ft.	30,31
86	Dorothy S. Robinson & Lele Jean Robinson-Norton	88REV	4.07	0.12	177,108	5,077		30
85	Leonard G. Jr. & Ruby B. Matthew H/W	83	39.58	0.04	1,723,922	1,514		29,30
84	James Barry & Marttes Chambers, H/W	86REV	1.83	0.15	79,831	6,693	TCE 84E1-0.02 ac. or 889 sq. ft. TCE 84E2-0.03 ac. or 1,239 sq. ft.	29
83	Leonard G. Jr. & Ruby B. Matthew H/W	85,87	37.00	1.07	1,611,773	46,440	TCE 83E1-0.09 ac. or 3,939 sq. ft. TCE 83E2-0.01 ac. or 253 sq. ft.	83SG1 29,30
82E	Patricia A. & Bobby J. Cranford H/W	141					TCE 82E1-0.04 ac. or 1,885 sq. ft.	29
81	Tressa E. Linnell	77	0.56	0.07	24,445	3,261		29
80	Marcela & Carlos Arce, H/W	76REV	3.95	0.58	172,194	25,302	TCE 80E1-0.02 ac. or 765 sq. ft. TCE 80E2-0.03 ac. or 1,228 sq. ft.	29
79	Country Cabinets, Inc.	75	2.97	0.38	129,263	16,583	TCE 79E1-0.12 ac. or 5,407 sq. ft.	79SG1 79SG2 28,29
78	Russell H. Abild Trust	80	UNABLE	0.02	UNABLE	1,044	TCE 78E1-0.02 ac. or 872 sq. ft.	28
77	Sharif and Sons, LLC	74REV	1.65	0.26	71,741	11,395	TCE 77E1-0.02 ac. or 922 sq. ft. TCE 77E2-0.02 ac. or 1,072 sq. ft.	77SG1 77SG2 28
76	Ofelia Beltran	73	14.12	1.05	614,982	46,275	TCE 76E1-0.09 ac. or 4,055 sq. ft.	28
75	Gregory P. & Deanna E. Jones H/W	72REV	17.03	3.06	741,814	133,449	TCE 75E1-0.14 ac. or 6,297 sq. ft.	75SG1 27,28
74	Shawn & Sherry Smead H/W	140	5.00	0.22	217,995	9,674		27
73	Kenneth L. & Brenda Wilson Kelley H/W	139	5.00	0.50	217,643	21,602	TCE 73E2-0.05 ac. or 2,337 sq. ft.	27
72	Flying RF, LLC	70REV	5.14	1.33	223,847	58,245	TCE 72A-1.21 ac. or 52,803 sq. ft. (AHC) TCE 72E2-0.04 ac. or 1,946 sq. ft. TCE 72B-0.12 ac. or 5,442 sq. ft. (Benton County)	27
71	Gaylord Erwin & Jackie Dean Dart H/W	69REV	59.62	5.89	2,597,018	256,191	TCE 71E1-0.37 ac. or 16,111 sq. ft. 71A-4.94 ac. or 215,003 sq. ft. (AHC) 71B-0.95 ac. or 4,188 sq. ft. (Benton County)	26,27
70	Randall N. & Norma James H/W	65	61.68	5.84	2,686,630	254,426		24,25,26
69	Daniel & Joyce Coif H/W	64	2.24	0.58	97,697	25,101	TCE 69E1-0.03 ac. or 1,495 sq. ft.	24
68	Randall & Norma James, H/W	63REV	6.56	1.81	285,677	78,992	TCE 68E1-0.02 ac. or 960 sq. ft.	24
67	Victor L. Campbell & Marilyn K. Campbell	59	8.84	0.72	385,169	31,299		22,23
66	Revocable Living Trust Agreement of Donnie Stumpf	49	6.70	2.28	291,970	99,465		21,22
65	Wood Revocable Trust	48REV	1.39	0.49	60,661	21,197		21
64	Evelyn Jean Harris	57REV	4.00	0.09	174,214	4,034		21
63	Leah Jean Whitehead	56	34.86	0.10	1,518,296	4,230	TCE 63E1-0.02 ac. or 814 sq. ft.	63SG1 21,22
62	Ronnie Jay Corbin	55REV	9.83	0.16	428,080	6,946		21
61	Dian Sosaya	45,46	1.62	0.01	70,599	433	TCE 61E1-0.02 ac. or 1,041 sq. ft.	20,21
60	Michael Ann Brady	44	6.28	0.62	273,627	26,946	TCE 60E1-0.28 ac. or 12,073 sq. ft. TCE 60E2-0.05 ac. or 2,211 sq. ft.	20,21
59	Brenda L. Morris	54REV	20.18	0.58	879,022	25,102		20,21
58	DELETED							
57	Pedro Villamar & Ricardo Batena	42	0.81	0.11	35,291	4,821		20
56	Bob & Laverne Harger H/W	40	1.90	0.76	82,864	33,240	TCE 56E1-0.07 ac. or 2,906 sq. ft.	20
55	Ethel Worrall Revocable Trust	53	14.12	0.19	614,913	8,224		19,20
54	Curtis W. & Olivia L. Olson H/W	37	1.34	0.16	58,556	7,117		19
53	Barbara E. McClure	36REV	3.02	0.22	131,384	9,496		19
52	Betty J. Weston	35REV	2.60	0.28	113,195	12,390		19
51	Darren R. & Natausha M. Gould H/W	31	0.59	0.22	25,790	9,778		19
NO. DATE	DESCRIPTION	BY	CR'D					
DATE: 11/10	REVISIONS							
DESIGNED: DMITCHELL	REVIEWED: F. RIPPOND	TITLE: OWNERSHIP	PARCEL TO ACQUIRE AREA IN ACRES:	PARCEL TO ACQUIRE AREA IN SQ. FT.:	REMARKS:			

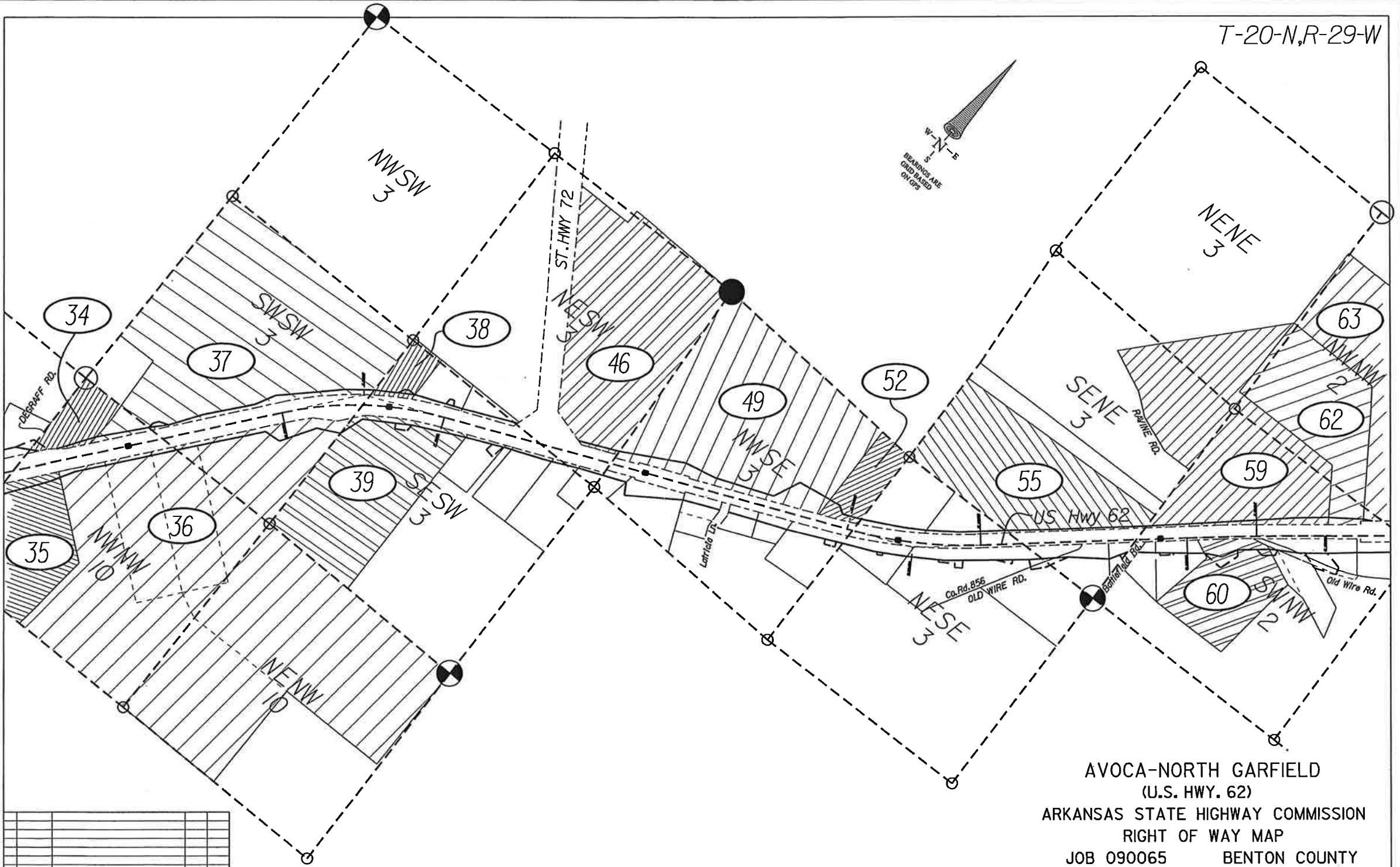
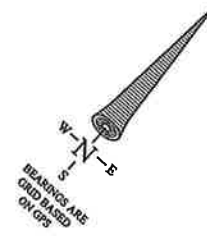
AVOCA-NORTH GARFIELD
(U.S. HWY. 62)
ARKANSAS STATE HIGHWAY COMMISSION
RIGHT OF WAY MAP
JOB 090065 BENTON COUNTY



1	2/23/12	rev tp & c/a tr's 26 & 30	dm	tr
NO.	DATE	DESCRIPTION	BY	CHK'D
DATE:	11/10	REVISIONS		
DESIGNED:	DMITCHELL	REVIEWED:	F. RIPPOND	

AVOCA-NORTH GARFIELD
 (U.S. HWY. 62)
 ARKANSAS STATE HIGHWAY COMMISSION
 RIGHT OF WAY MAP
 JOB 090065 BENTON COUNTY

T-20-N,R-29-W

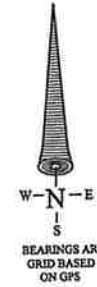
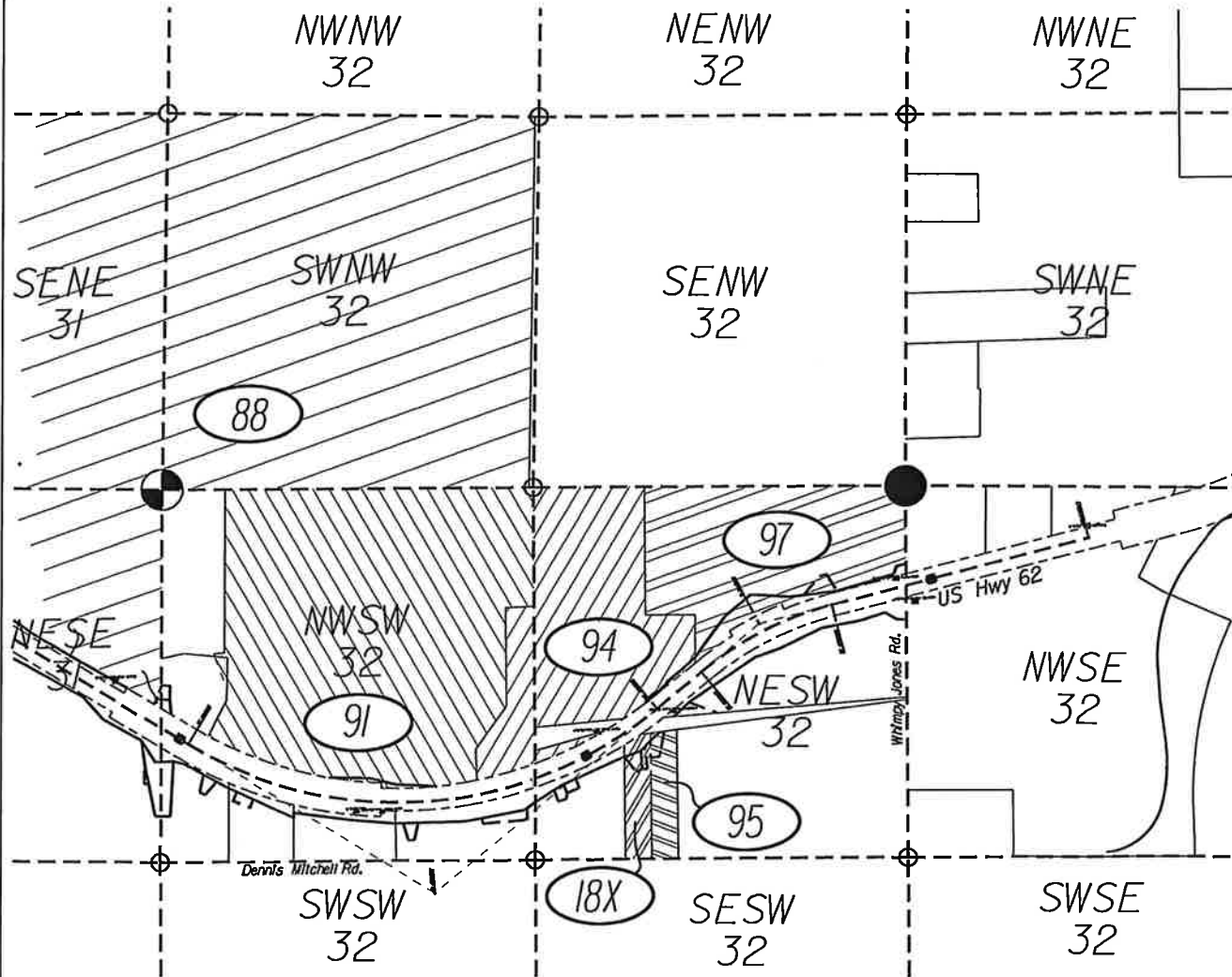


AVOCA-NORTH GARFIELD
(U.S. HWY. 62)
ARKANSAS STATE HIGHWAY COMMISSION
RIGHT OF WAY MAP
JOB 090065 BENTON COUNTY

SCALE 1"=500' SHEET 7 OF 33

NO.	DATE	DESCRIPTION	BY	CK'D

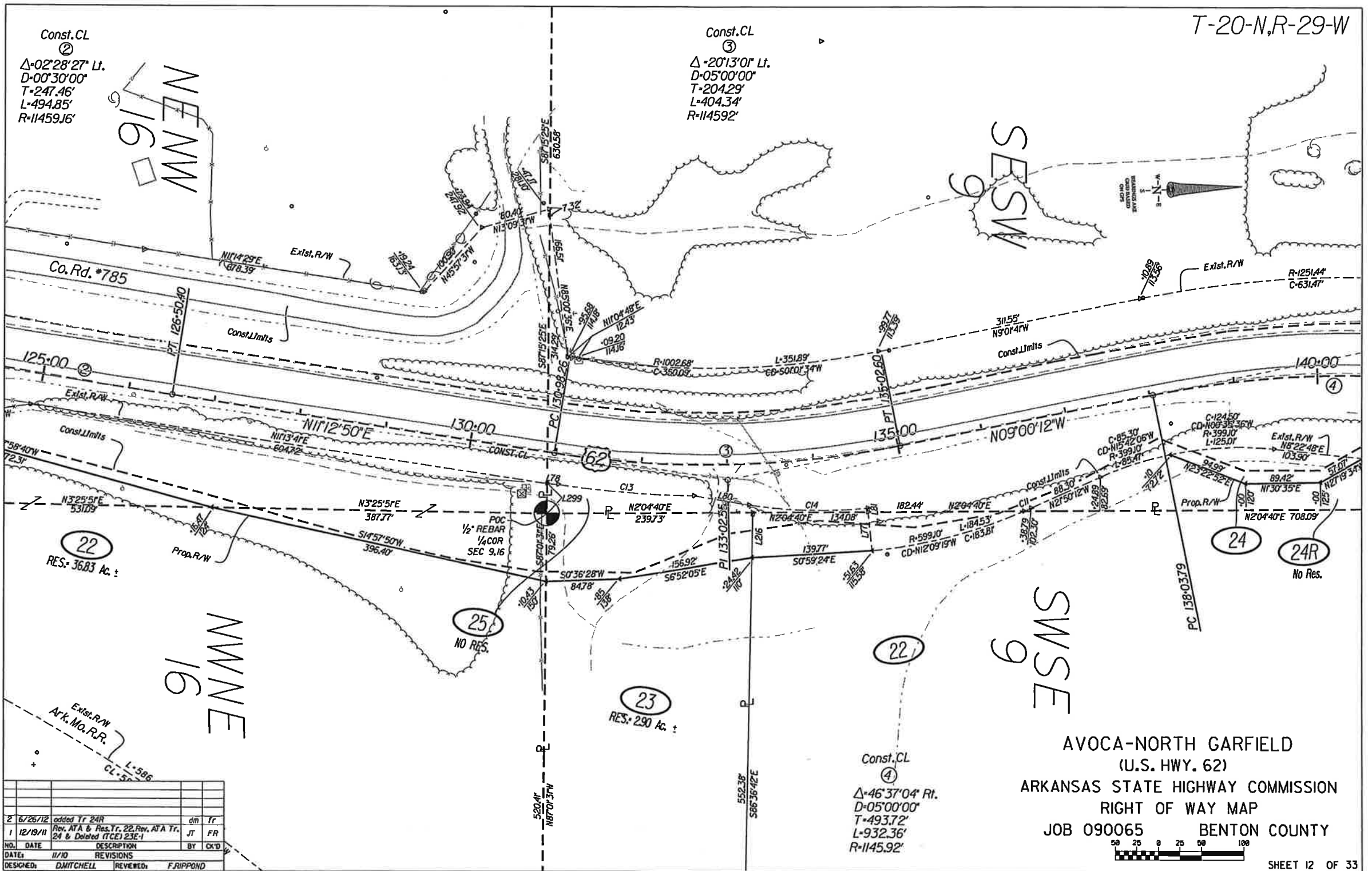
DESIGNED: D. MITCHELL REVIEWED: F. RIPPOND



AVOCA-NORTH GARFIELD
 (U.S. HWY. 62)
 ARKANSAS STATE HIGHWAY COMMISSION
 RIGHT OF WAY MAP
 JOB 090065 BENTON COUNTY

SCALE 1"=500' SHEET 10 OF 33

NO.	DATE	DESCRIPTION	BY	CHK'D
2	8/28/12	deleted tr 98	dm	tr
1	6/20/12	added tr 98	dm	tr
DATE:	11/10	REVISIONS		
DESIGNED:	DMITCHELL	REVIEWED:	F. RIPPOND	



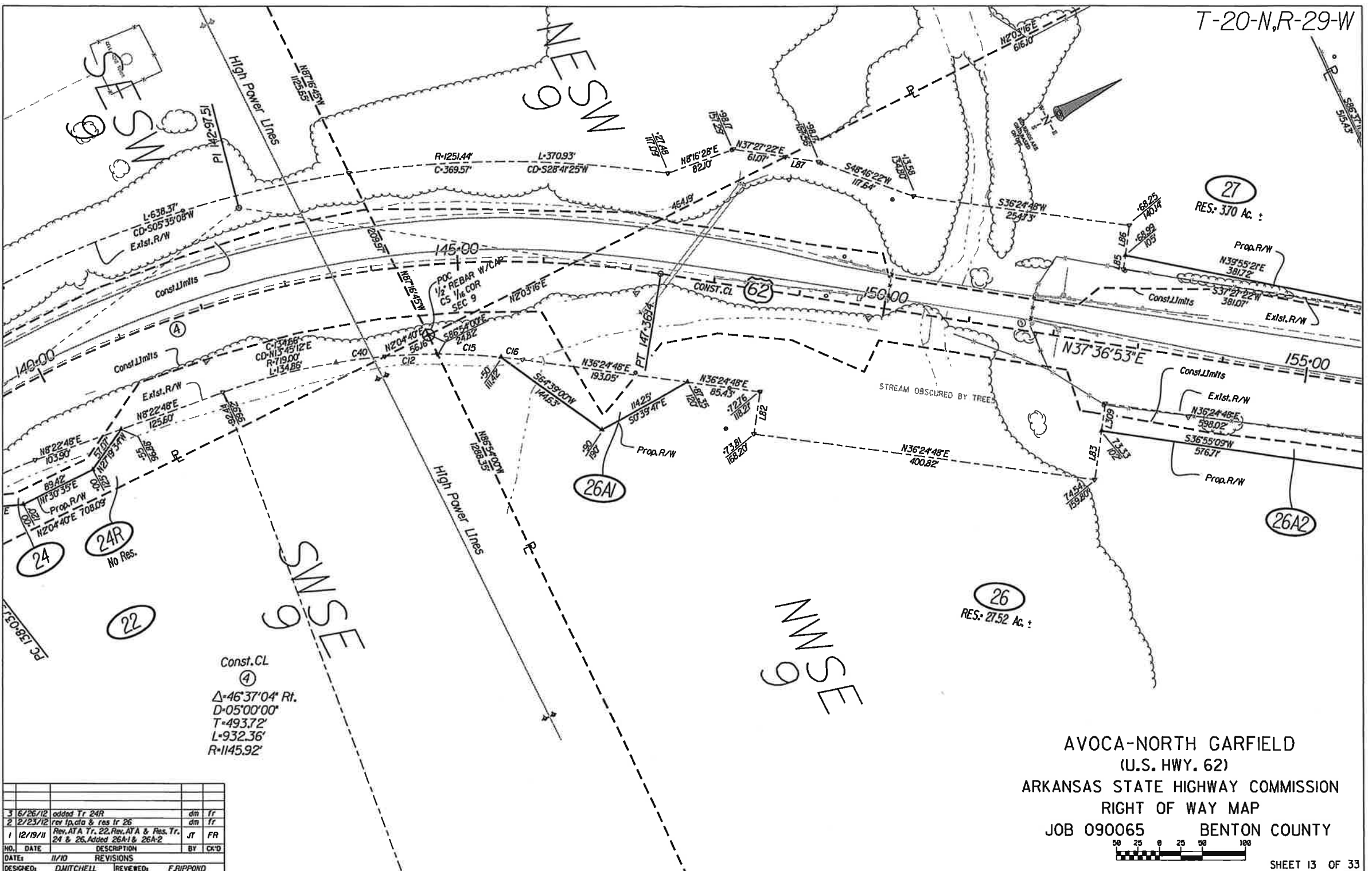
Const. CL
 ③
 $\Delta=20^{\circ}13'01''$ Lt.
 $D=05^{\circ}00'00''$
 $T=204.29'$
 $L=404.34'$
 $R=11459.2'$

Const. CL
 ④
 $\Delta=46^{\circ}37'04''$ Rt.
 $D=05^{\circ}00'00''$
 $T=493.72'$
 $L=932.36'$
 $R=1145.92'$

AVOCA-NORTH GARFIELD
 (U.S. HWY. 62)
 ARKANSAS STATE HIGHWAY COMMISSION
 RIGHT OF WAY MAP
 JOB 090065 BENTON COUNTY



NO.	DATE	DESCRIPTION	BY	CK'D
2	6/26/12	added Tr. 24R	dm	fr
1	12/19/11	Rev. ATA & Res. Tr. 22, Rev. ATA Tr. 24 & Deleted (TCE) 23E-1	JT	FR
DATE:		II/10	REVISIONS:	
DESIGNED:	DMITCHELL	REVIEWED:	F. RIPPOND	



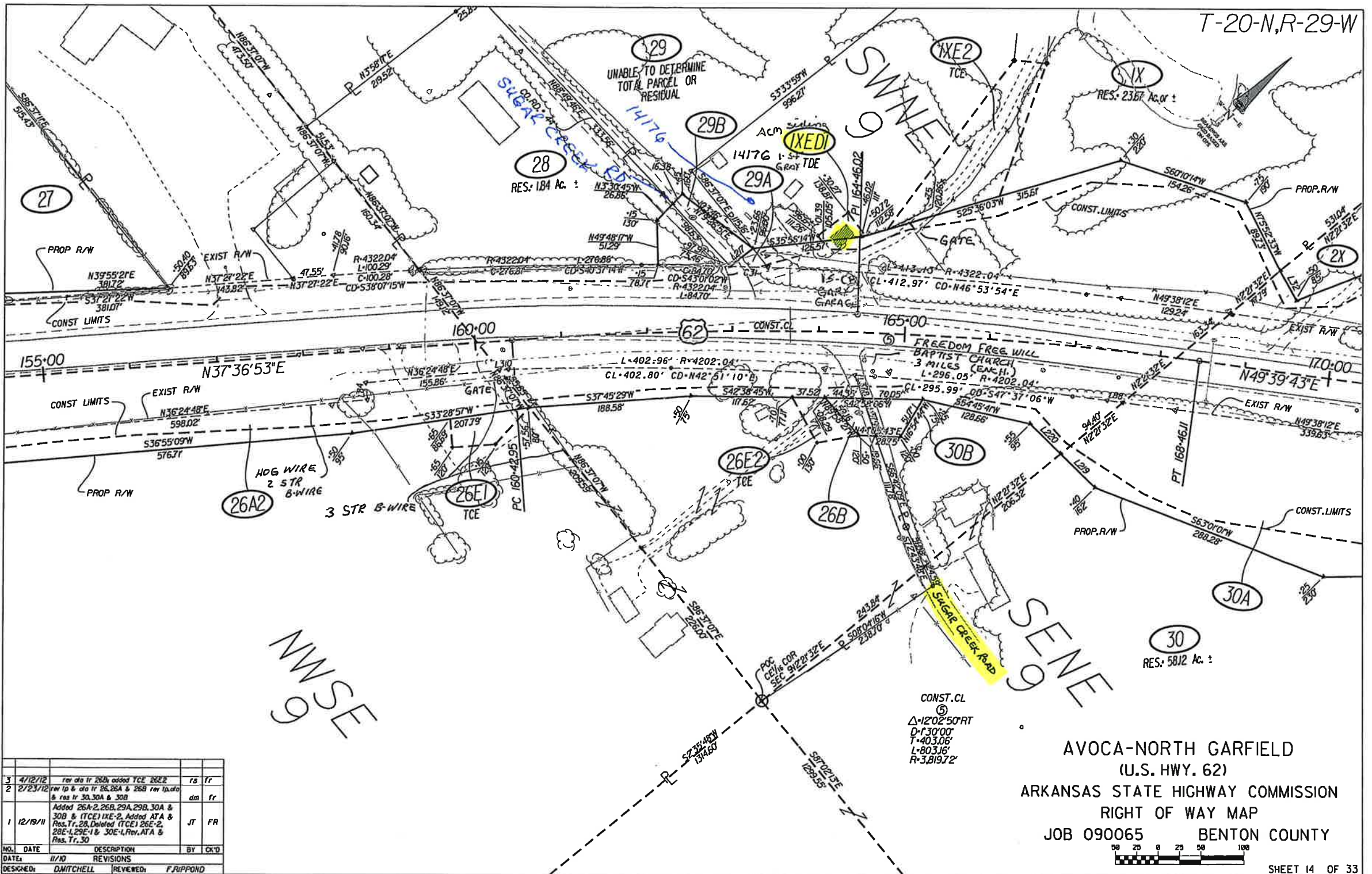
Const. CL
 (A)
 Δ-46°37'04" Rt.
 D-05'00'00"
 T-493.72'
 L-932.36'
 R-1145.92'

AVOCA-NORTH GARFIELD
 (U.S. HWY. 62)
 ARKANSAS STATE HIGHWAY COMMISSION
 RIGHT OF WAY MAP
 JOB 090065 BENTON COUNTY



NO.	DATE	DESCRIPTION	BY	CHK'D
3	6/26/12	added Tr 24R	dm	fr
2	2/23/12	rev l.p. data & res tr 26	dm	fr
1	12/19/11	Rev. ATA Tr. 22, Rev. ATA & Res. Tr. 24 & 26, Added 26A1 & 26A-2	JT	FR

DESIGNED: DMITCHELL REVIEWED: F. RIPPOND



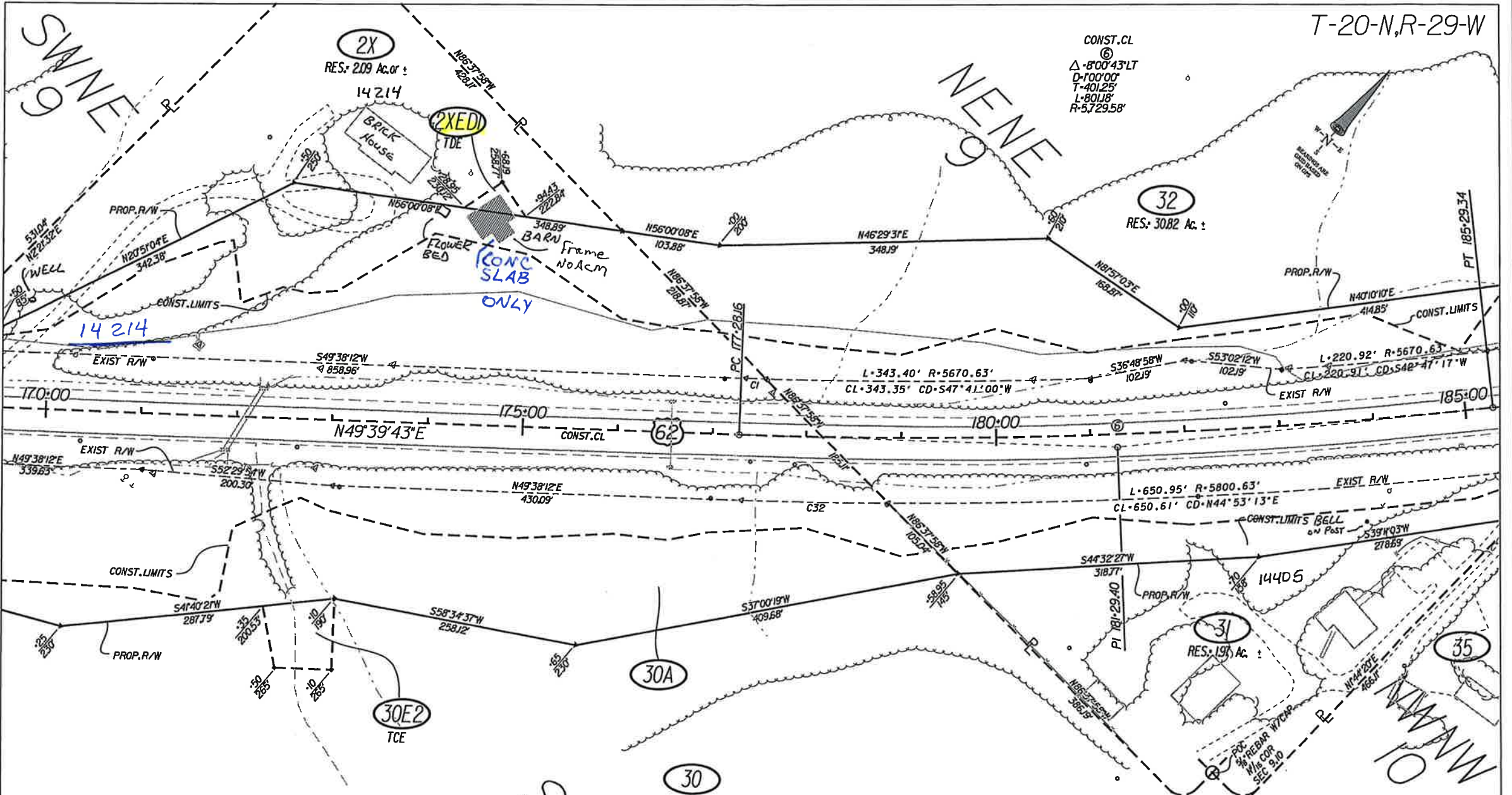
NO.	DATE	DESCRIPTION	BY	CHK'D
3	4/12/12	rev ato tr 26B, added TCE 26E2	rs	fr
2	2/23/12	rev tp & ato tr 26, 26A & 26B rev tp, ato & res tr 30, 30A & 30B	dm	fr
1	12/19/11	Added 26A-2, 26B, 29A, 29B, 30A & 30B & (TCE) IXE-2, Added ATA & Res. Tr. 28, Deleted (TCE) 26E-2, 28E-1, 29E-1 & 30E-1, Rev. ATA & Res. Tr. 30	JT	FR

NO.	DATE	DESCRIPTION	BY	CHK'D
DESIGNED:	DMITCHELL	REVIEWED:	F. RIPPOND	

AVOCA-NORTH GARFIELD
 (U.S. HWY. 62)
 ARKANSAS STATE HIGHWAY COMMISSION
 RIGHT OF WAY MAP
 JOB 090065 BENTON COUNTY



T-20-N,R-29-W



CONST. CL
 ⑥
 Δ-8°00'43"LT
 D-100'00"
 T-401.25'
 L-801.18'
 R-5729.58'

32
 RES: 3082 Ac. ±

31
 RES: 191 Ac. ±

2X
 RES: 209 Ac. or ±

30A

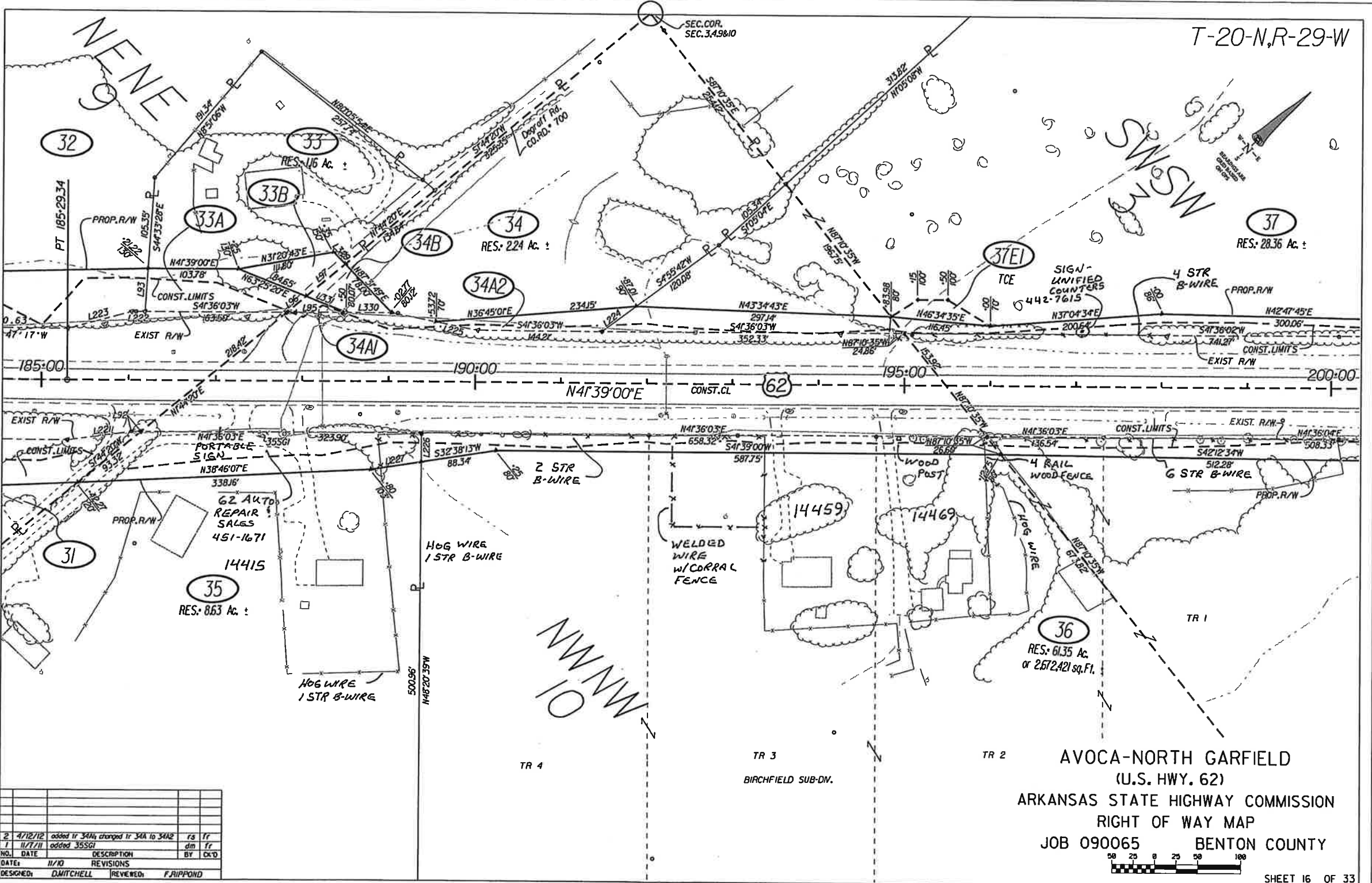
30

35

AVOCA-NORTH GARFIELD
 (U.S. HWY. 62)
 ARKANSAS STATE HIGHWAY COMMISSION
 RIGHT OF WAY MAP
 JOB 090065 BENTON COUNTY



NO.	DATE	DESCRIPTION	BY	CHK'D
2	3/1/12	rev 1p & cto (30A) fr 30	dm	fr
1	12/29/11	Added 30A	JT	FR
DATE:	11/10	REVISIONS		
DESIGNED:	DMITCHELL	REVIEWED:	F. RIPPOND	



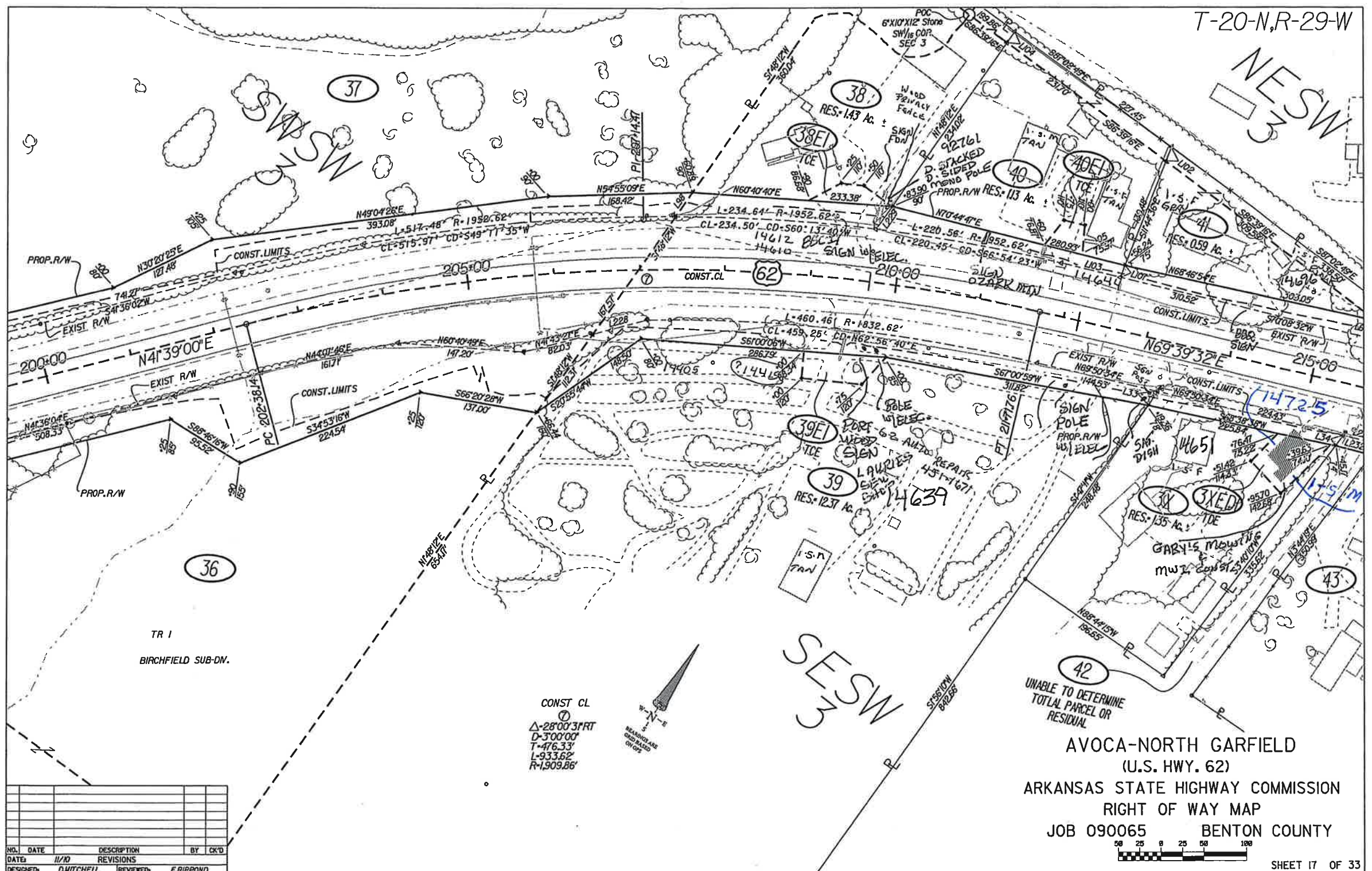
NO.	DATE	DESCRIPTION	BY	CHK'D
2	4/12/12	added tr 34A; changed tr 34A to 34A2	rs	tr
1	11/7/11	added 35SGI	dm	tr

DATE: 11/10 REVISIONS:
 DESIGNED: DMITCHELL REVIEWED: F.RIPPOND

AVOCA-NORTH GARFIELD
 (U.S. HWY. 62)
 ARKANSAS STATE HIGHWAY COMMISSION
 RIGHT OF WAY MAP
 JOB 090065 BENTON COUNTY



NESW
3



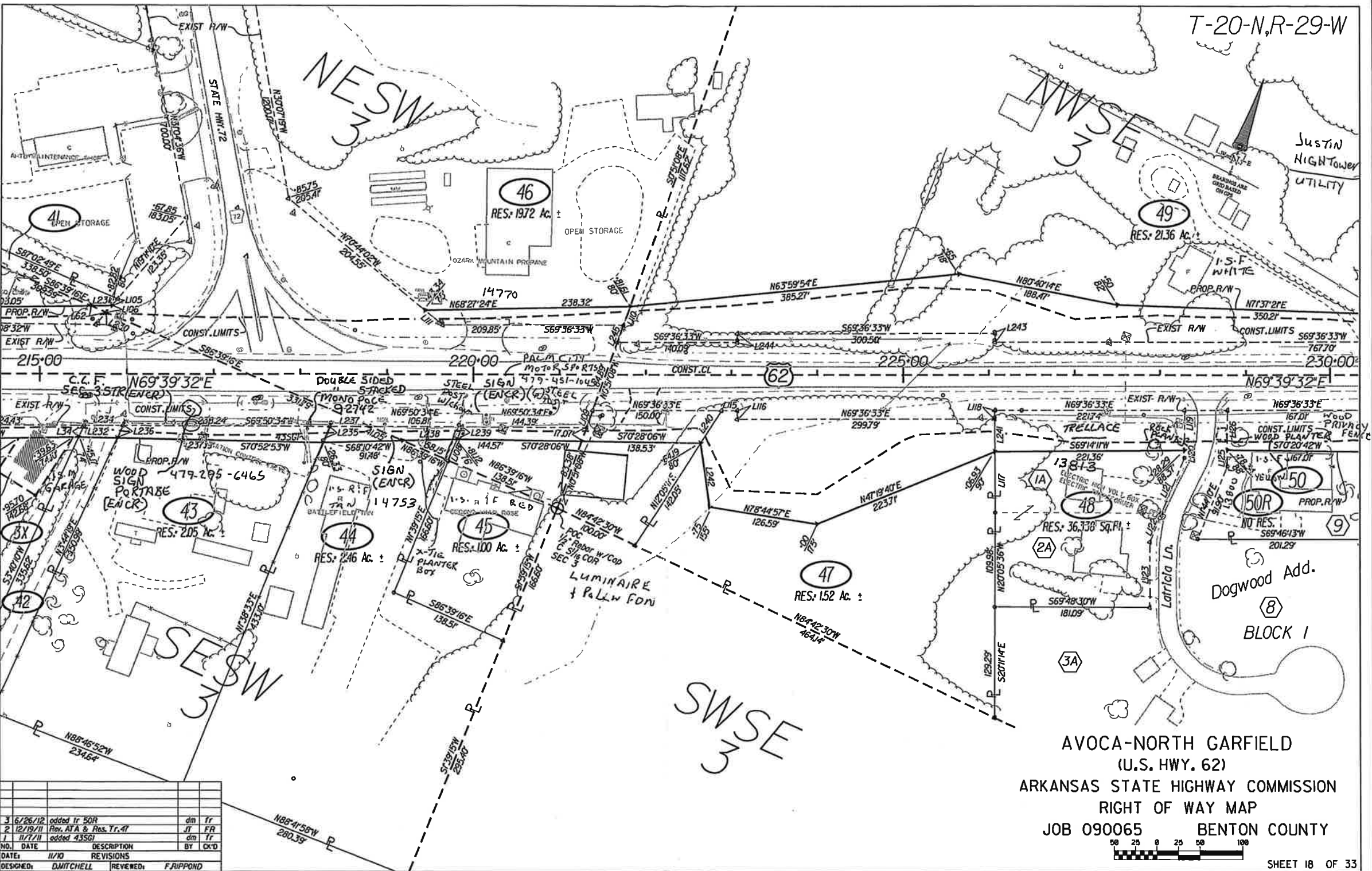
TR 1
BIRCHFIELD SUB-DIV.

CONST CL
 Δ-28'00" 3/4 PT
 D-3'00" 00"
 T-476.33'
 L-933.62'
 R-1909.86'

AVOCA-NORTH GARFIELD
 (U.S. HWY. 62)
 ARKANSAS STATE HIGHWAY COMMISSION
 RIGHT OF WAY MAP
 JOB 090065 BENTON COUNTY



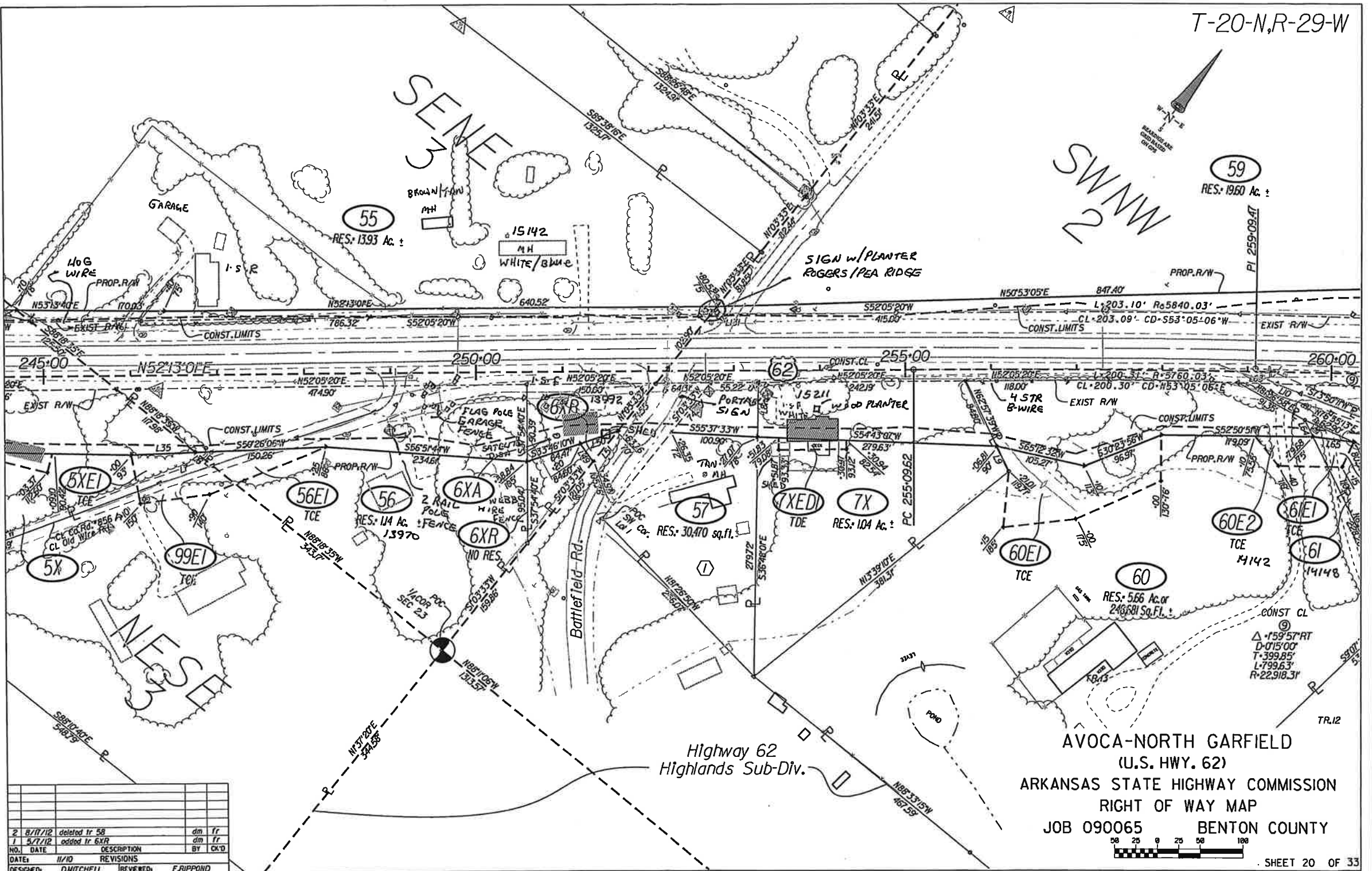
NO.	DATE	DESCRIPTION	BY	CHK'D
DESIGNED				
DATE	11/10	REVISIONS		
DESIGNED		REVIEWED		



NO.	DATE	DESCRIPTION	BY	CHK'D
3	6/26/12	added 1r 50R	dm	fr
2	12/19/11	Rev. AIA & Res. Tr. 41	JT	FR
1	11/7/11	added 435G	dm	fr
DATE: 11/10 REVISIONS				
DESIGNED:	D MITCHELL	REVIEWED:	F RIPPOND	

AVOCA-NORTH GARFIELD
 (U.S. HWY. 62)
 ARKANSAS STATE HIGHWAY COMMISSION
 RIGHT OF WAY MAP
 JOB 090065 BENTON COUNTY

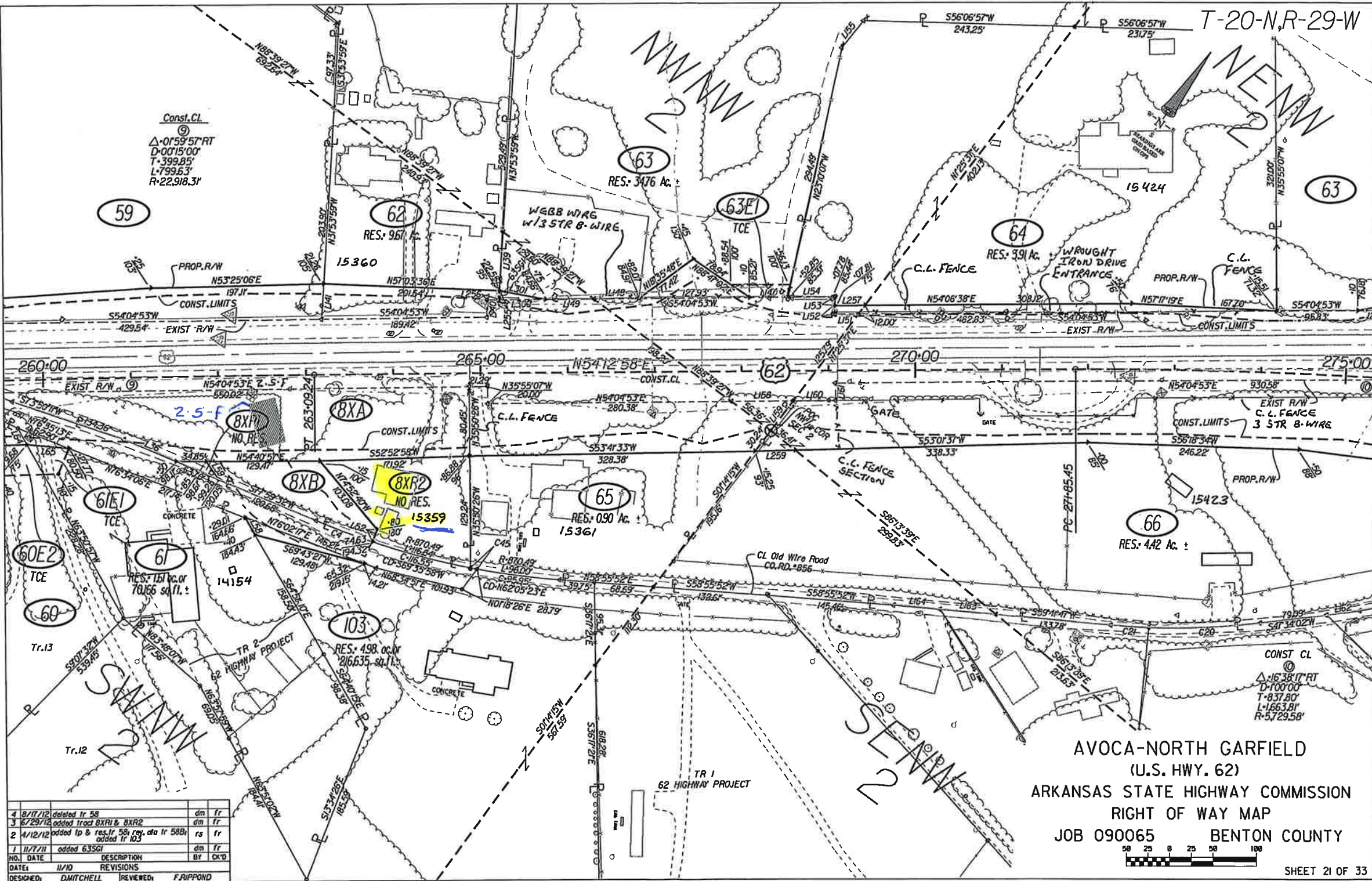




AVOCA-NORTH GARFIELD
 (U.S. HWY. 62)
 ARKANSAS STATE HIGHWAY COMMISSION
 RIGHT OF WAY MAP
 JOB 090065 BENTON COUNTY



NO.	DATE	DESCRIPTION	BY	CHKD
2	8/17/12	deleted fr 58	dm	fr
1	5/7/12	added fr 6XR	dm	fr
DATE: 11/10 REVISIONS				
DESIGNED:	DMITCHELL	REVIEWED:	F.RIPPOND	



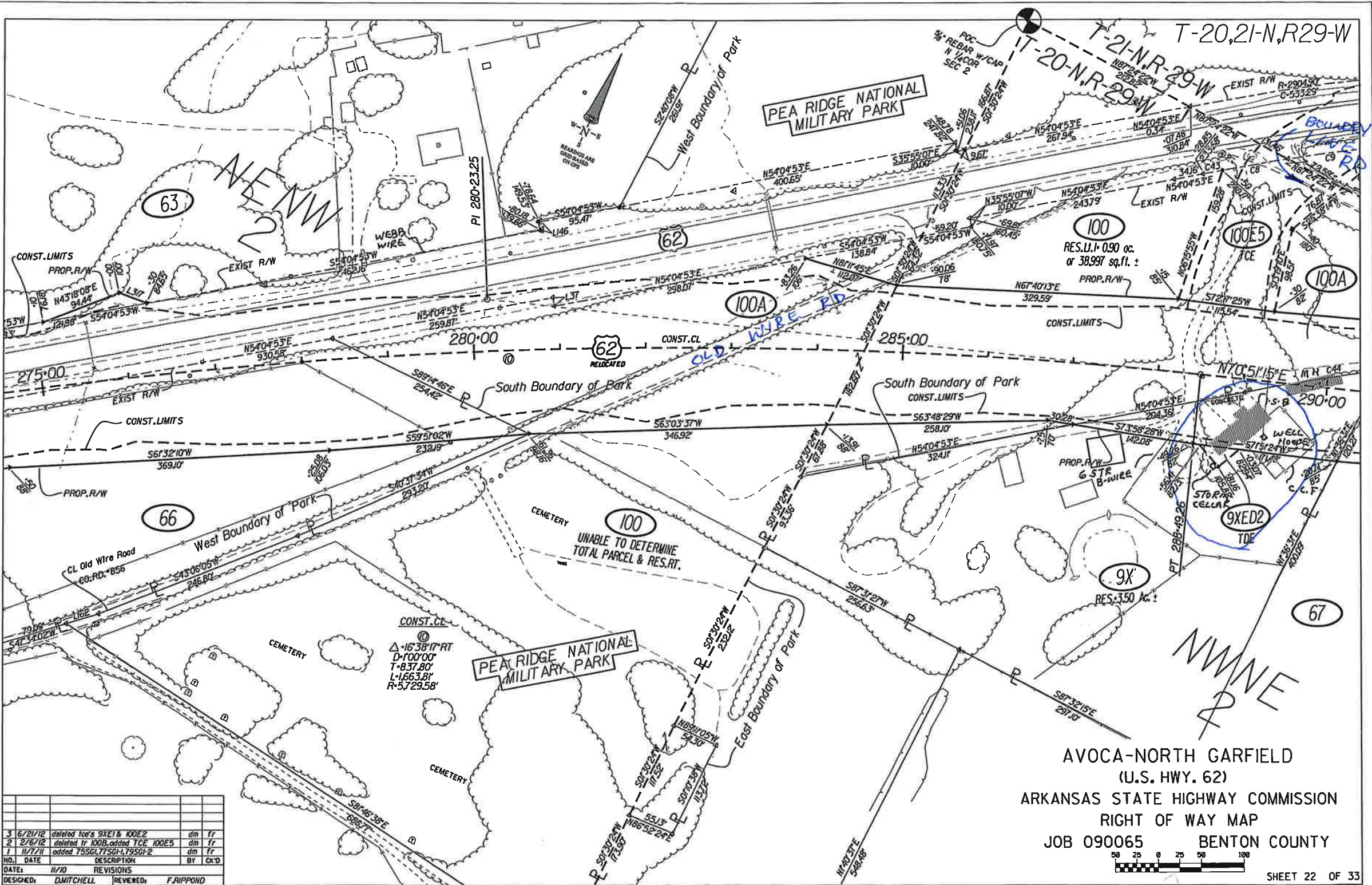
Const. Cl
 Δ-0159'57" RT
 D-0015'00"
 T-399.85'
 L-799.63'
 R-22,918.31'

Const. Cl
 Δ-1638" RT
 D-100'00"
 T-837.80'
 L-1663.81'
 R-5729.58'

4	10/11/12	deleted Tr 58	dm	fr
3	6/29/12	added road 8XR1 & 8XR2	dm	fr
2	1/12/12	added 1p & res. 1r, 581 reg. data Tr 58B added Tr 103	rs	fr
1	11/7/11	added 635G1	dm	fr
INL DATE	DESCRIPTION	BY	CD	
DATE	NO	REVISIONS		
DESIGNED:	DMITCHELL	REVIEWED:	F.RIPPOND	

AVOCA-NORTH GARFIELD
 (U.S. HWY. 62)
 ARKANSAS STATE HIGHWAY COMMISSION
 RIGHT OF WAY MAP
 JOB 090065 BENTON COUNTY



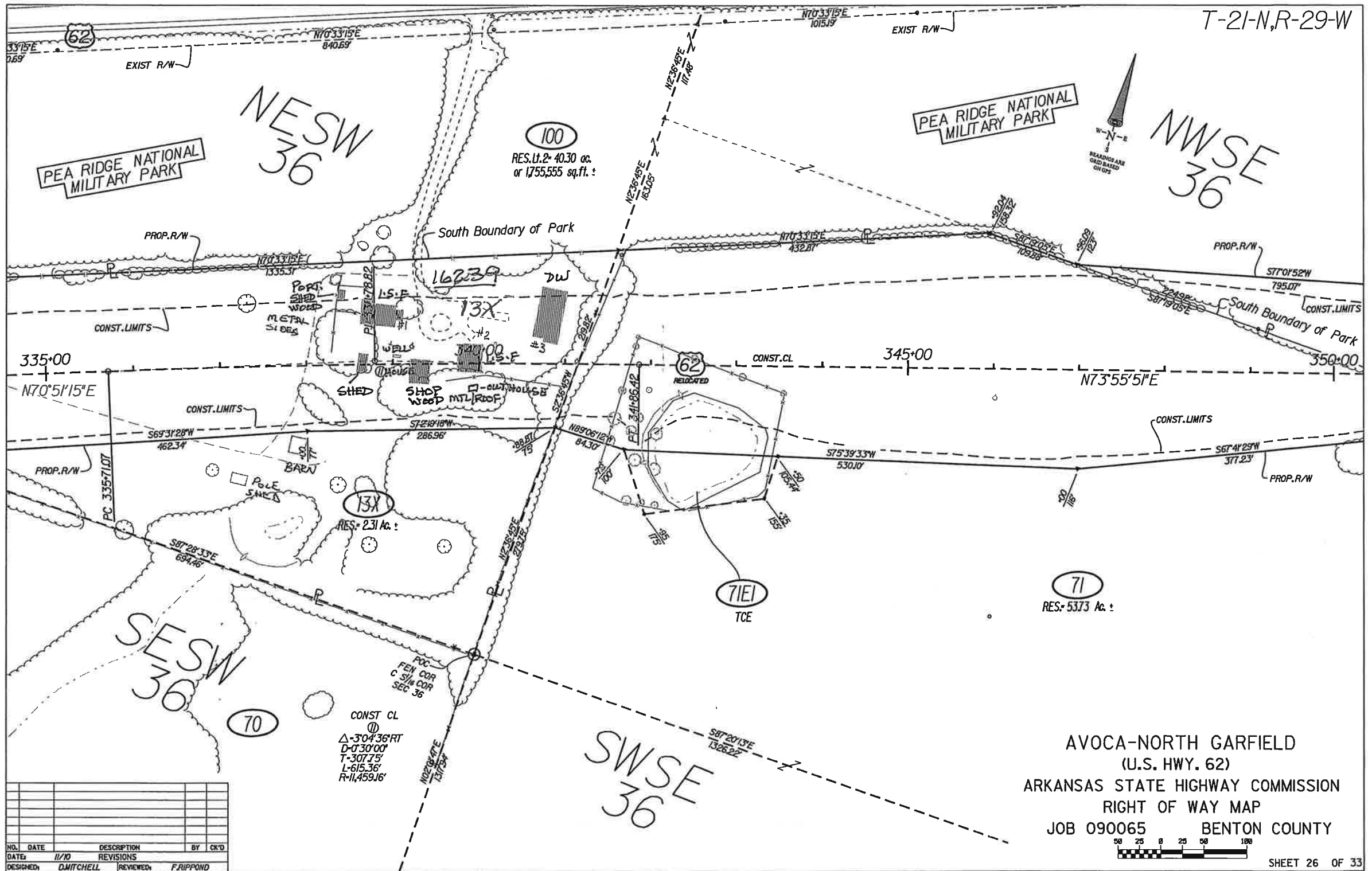


NO.	DATE	DESCRIPTION	BY	CHK'D
3	6/21/12	deleted lce's 9XE1 & 100E2	dm	Tr
2	2/6/12	deleted Tr 100B, added TCE 100E5	dm	Tr
1	11/7/11	added TSSGI, TTSOI-1, T9501-2	dm	Tr
NO.	DATE	DESCRIPTION	BY	CHK'D
DATE:	11/10	REVISIONS		
DESIGNED:	DMITCHELL	REVIEWED:	F. RIPPOND	

AVOCA-NORTH GARFIELD
 (U.S. HWY. 62)
 ARKANSAS STATE HIGHWAY COMMISSION
 RIGHT OF WAY MAP
 JOB 090065 BENTON COUNTY



T-21-N,R-29-W



PEA RIDGE NATIONAL MILITARY PARK

PEA RIDGE NATIONAL MILITARY PARK

NESW 36

NWSE 36

SESW 36

SWSE 36

AVOCA-NORTH GARFIELD
 (U.S. HWY. 62)
 ARKANSAS STATE HIGHWAY COMMISSION
 RIGHT OF WAY MAP
 JOB 090065 BENTON COUNTY



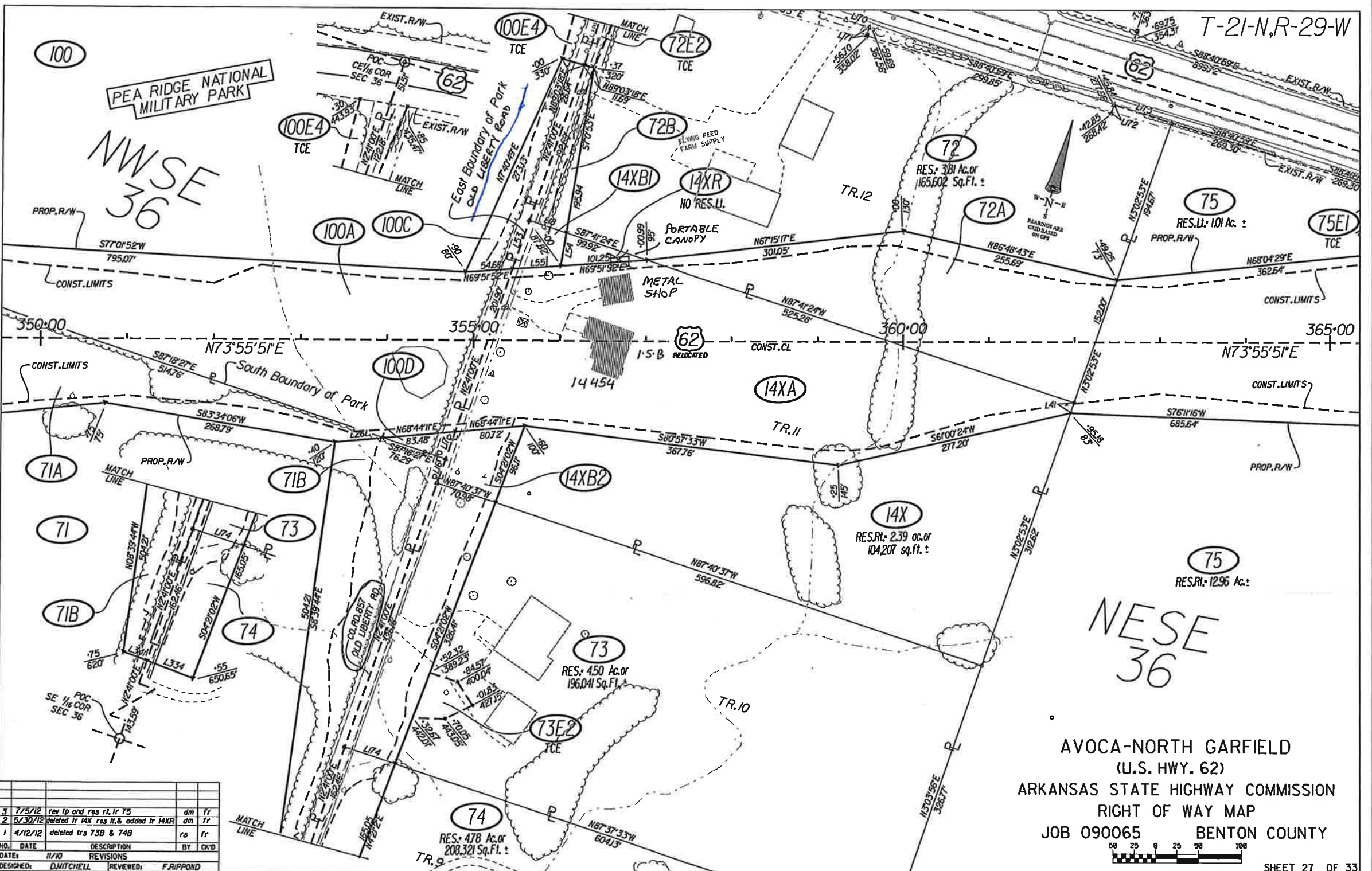
NO.	DATE	DESCRIPTION	BY	CK'D
	11/10	REVISIONS		
DESIGNED:	D. MITCHELL	REVIEWED:	F. RIPPOND	

T-21-N,R-29-W

PEA RIDGE NATIONAL MILITARY PARK

NWSE 36

NESE 36



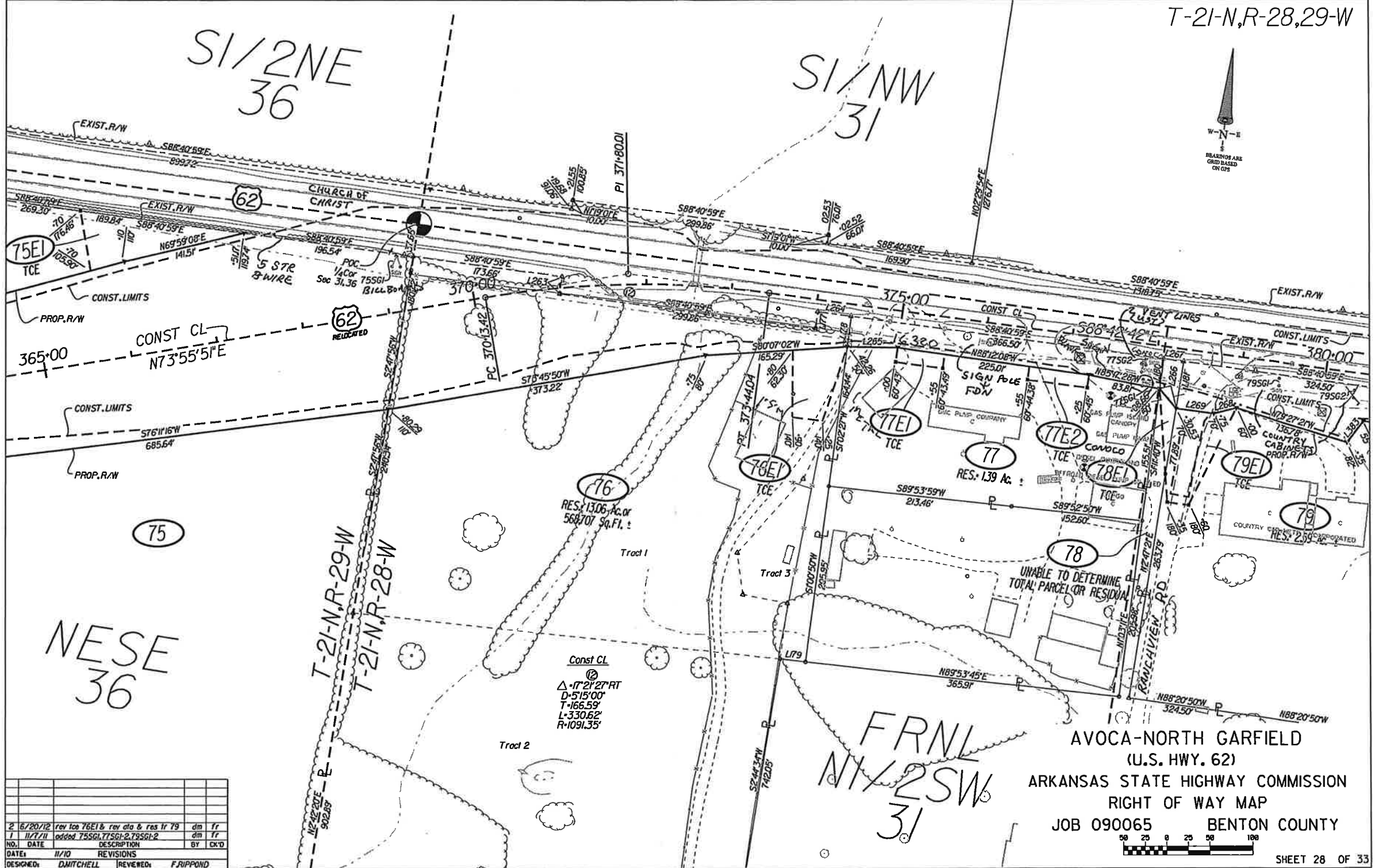
NO.	DATE	DESCRIPTION	BY	CHK'D
3	7/5/12	rev tp and res rt, tr 75	dm	fr
2	5/30/12	deleted tr 14X res rt, added tr 14XR	dm	fr
1	4/12/12	deleted trs 73B & 74B	rs	fr
NO.	DATE	DESCRIPTION	BY	CHK'D
DATE	11/10	REVISIONS		
DESIGNED:	DMITCHELL	REVIEWED:	F.RIPPOND	

AVOCA-NORTH GARFIELD
 (U.S. HWY. 62)
 ARKANSAS STATE HIGHWAY COMMISSION
 RIGHT OF WAY MAP
 JOB 090065 BENTON COUNTY



S1/2NE
36

S1/2NW
31

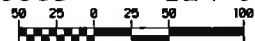


NESE
36

T-21-N,R-29-W
T-21-N,R-28-W

2	6/20/12	rev lcc 76E1 & rev sta & res fr 79	dm	fr
1	11/7/11	added 75SG1, 77SG1-2, 79SG1-2	dm	fr
NO.	DATE	DESCRIPTION	BY	CK'D
DATE:	11/10	REVISIONS		
DESIGNED:	DMITCHELL	REVIEWED:	F.RIPPOND	

AVOCA-NORTH GARFIELD
(U.S. HWY. 62)
ARKANSAS STATE HIGHWAY COMMISSION
RIGHT OF WAY MAP
JOB 090065 BENTON COUNTY



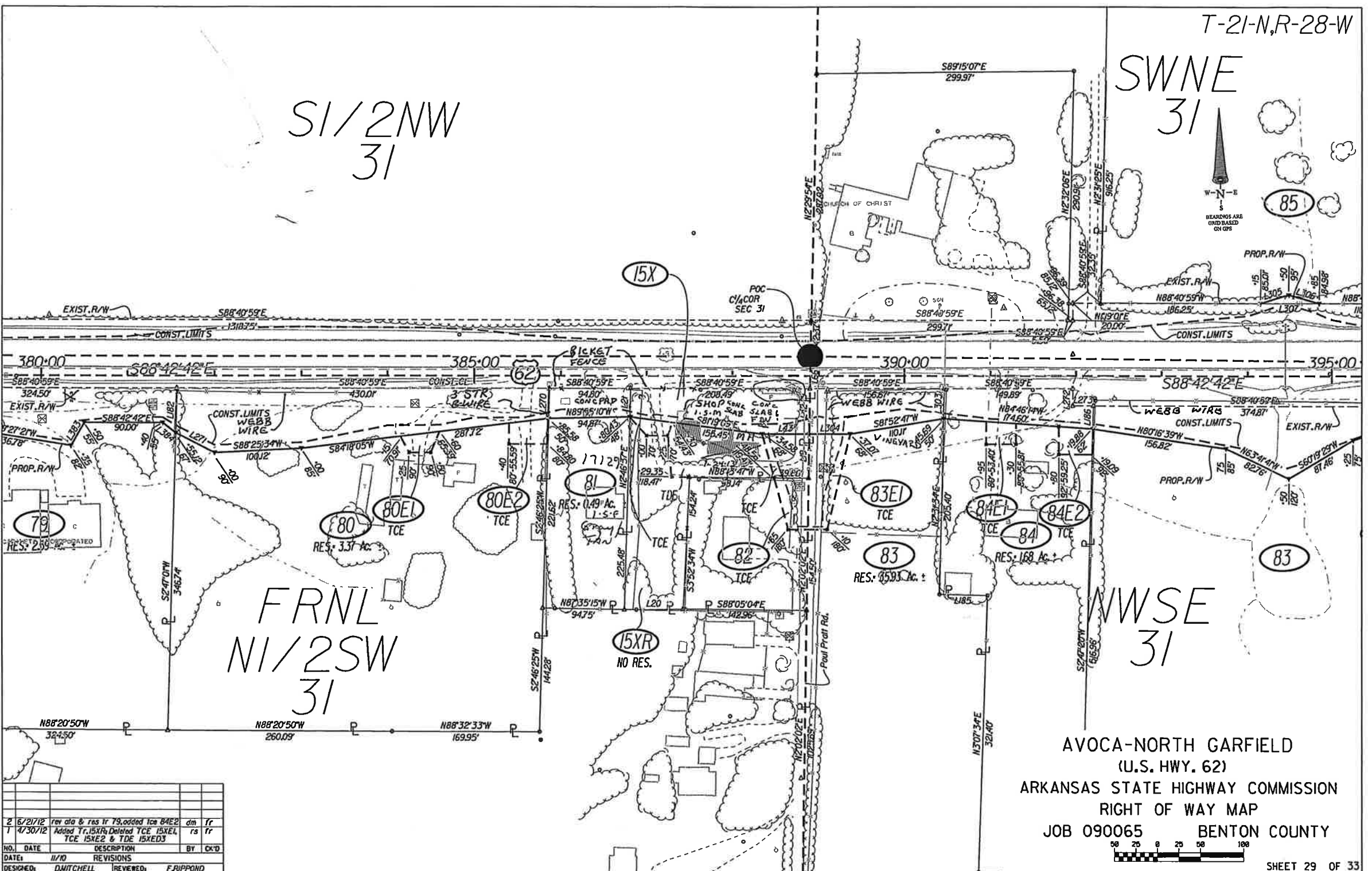
T-21-N,R-28-W

SI/2NW
31

SWNE
31



(85)

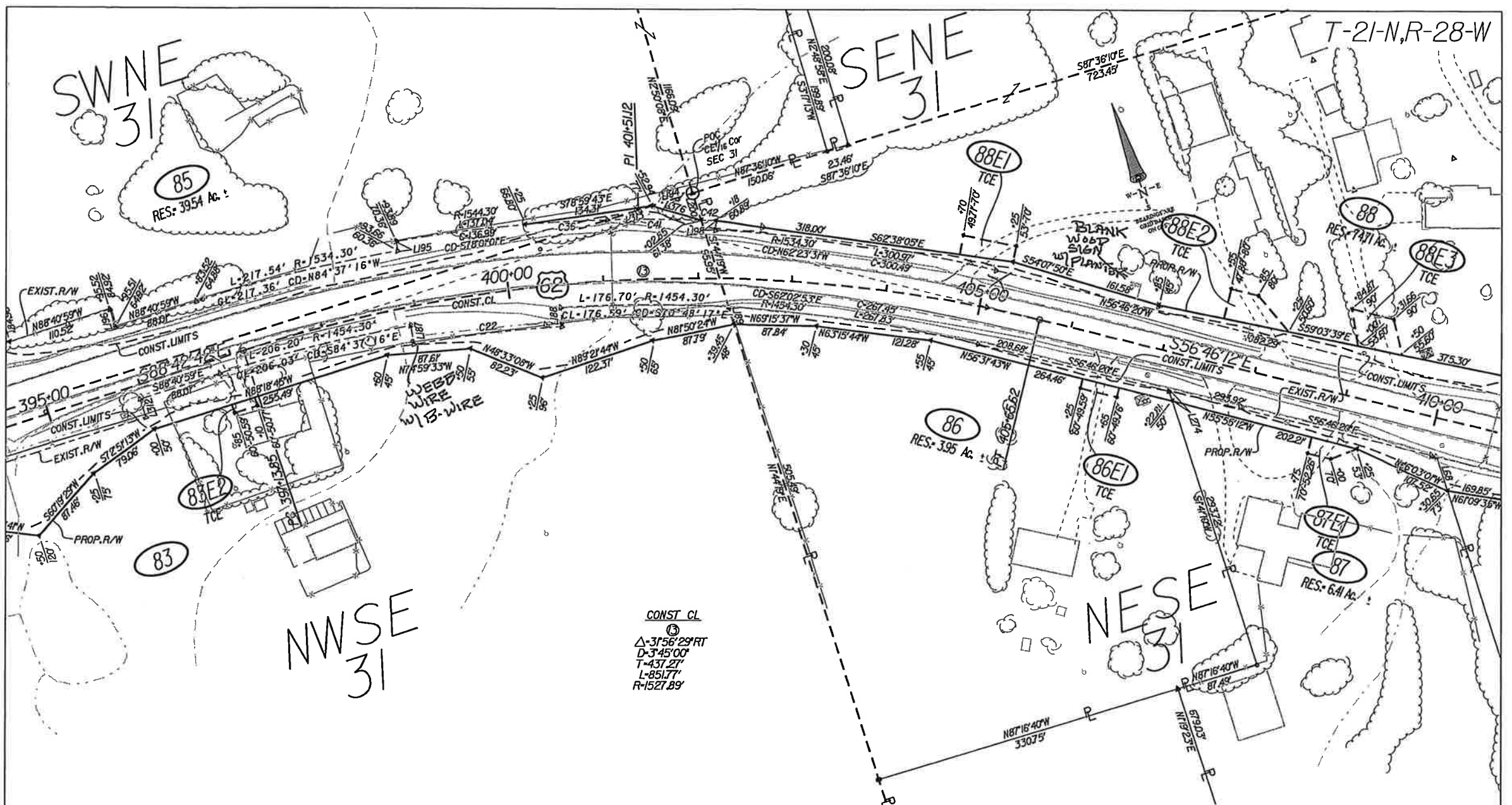


FRNL
NI/2SW
31

NWSE
31

AVOCA-NORTH GARFIELD
(U.S. HWY. 62)
ARKANSAS STATE HIGHWAY COMMISSION
RIGHT OF WAY MAP
JOB 090065 BENTON COUNTY

NO.	DATE	DESCRIPTION	BY	CK'D
1	6/21/12	rev data & res fr 79, added lca 84E2	dm	fr
2	7/30/12	Added Tr, 15X16 Deleted TCE 15X16, TCE 15X16 & TCE 15X16	rs	fr
DESIGNED: DMITCHELL REVIEWED: FRIPPOND				



T-21-N, R-28-W

SWNE
31

SENE
31

NESE
31

85
RES. 39.54 Ac.

88
RES. 74.71 Ac.

86
RES. 3.95 Ac.

83

87
RES. 6.41 Ac.

CONST. CL
 Δ-3°56'29"RT
 D-3'45"00"
 T-437.27'
 L-851.77'
 R-1527.89'

AVOCA-NORTH GARFIELD
(U.S. HWY. 62)

ARKANSAS STATE HIGHWAY COMMISSION
RIGHT OF WAY MAP

JOB 090065 BENTON COUNTY

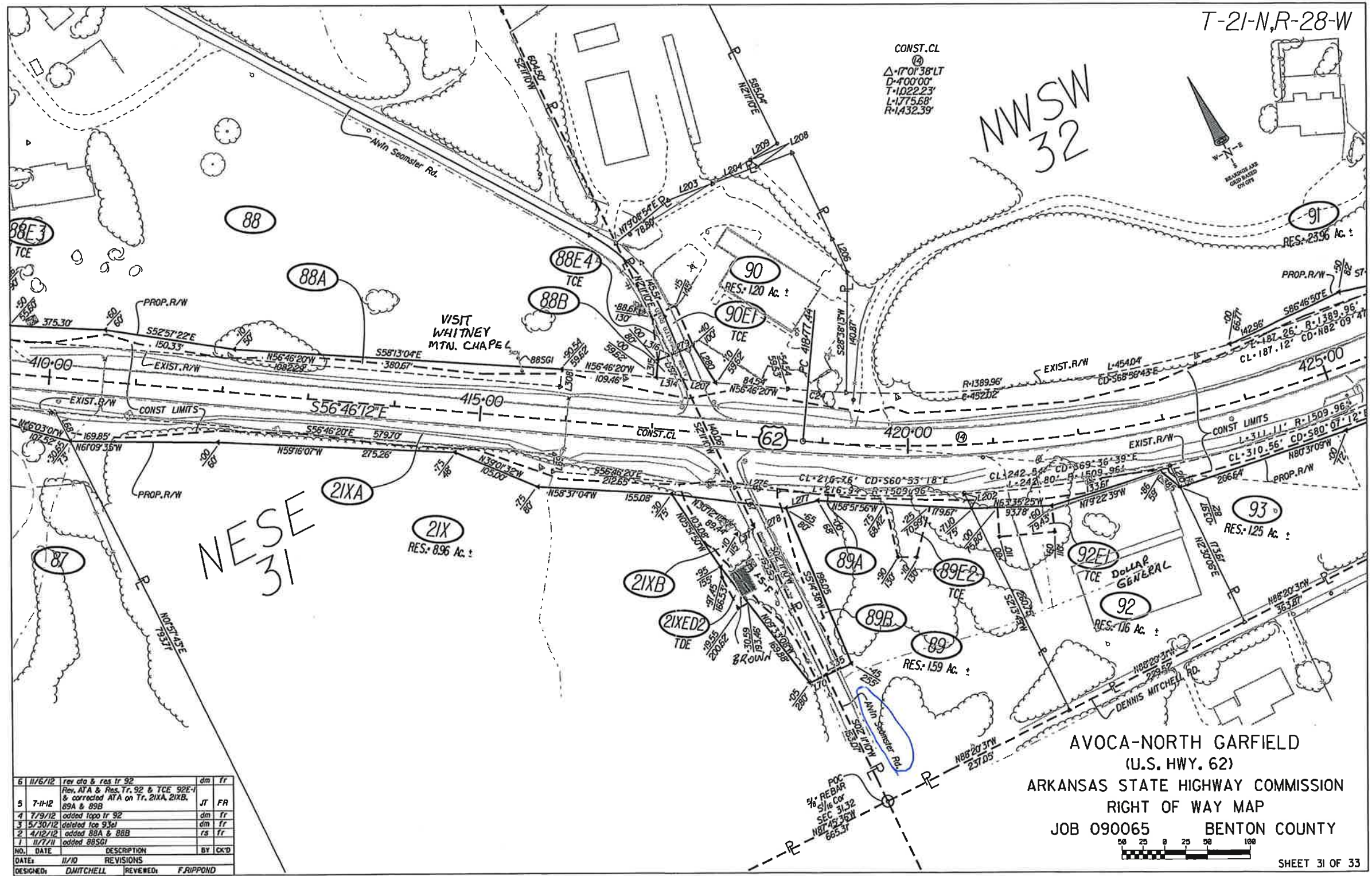


NO.	DATE	DESCRIPTION	BY	CHK'D

T-21-N,R-28-W

CONST. CL
⑩
Δ-17°01'38"LT
D-400'00"
T-1022.23'
L-1775.68'
R-1432.39'

NWSW
32



NESE
31

AVOCA-NORTH GARFIELD
(U.S. HWY. 62)
ARKANSAS STATE HIGHWAY COMMISSION
RIGHT OF WAY MAP
JOB 090065 BENTON COUNTY

6	11/6/12	rev ato & res tr 92	dm	Tr
5	7-11-12	Rev. ATA & Res. Tr. 92 & TCE 92E-1 & corrected ATA on Tr. 21XA, 21XB, 89A & 89B	JT	FR
4	7/9/12	added topo tr 92	dm	Tr
3	5/30/12	deleted top 93e	dm	Tr
2	4/12/12	added 88A & 88B	rs	Tr
1	11/7/11	added 88SG1		
NO.	DATE	DESCRIPTION	BY	CHK'D
DESIGNED:	11/10	REVISIONS		
			D. MITCHELL	F. RIPPOND

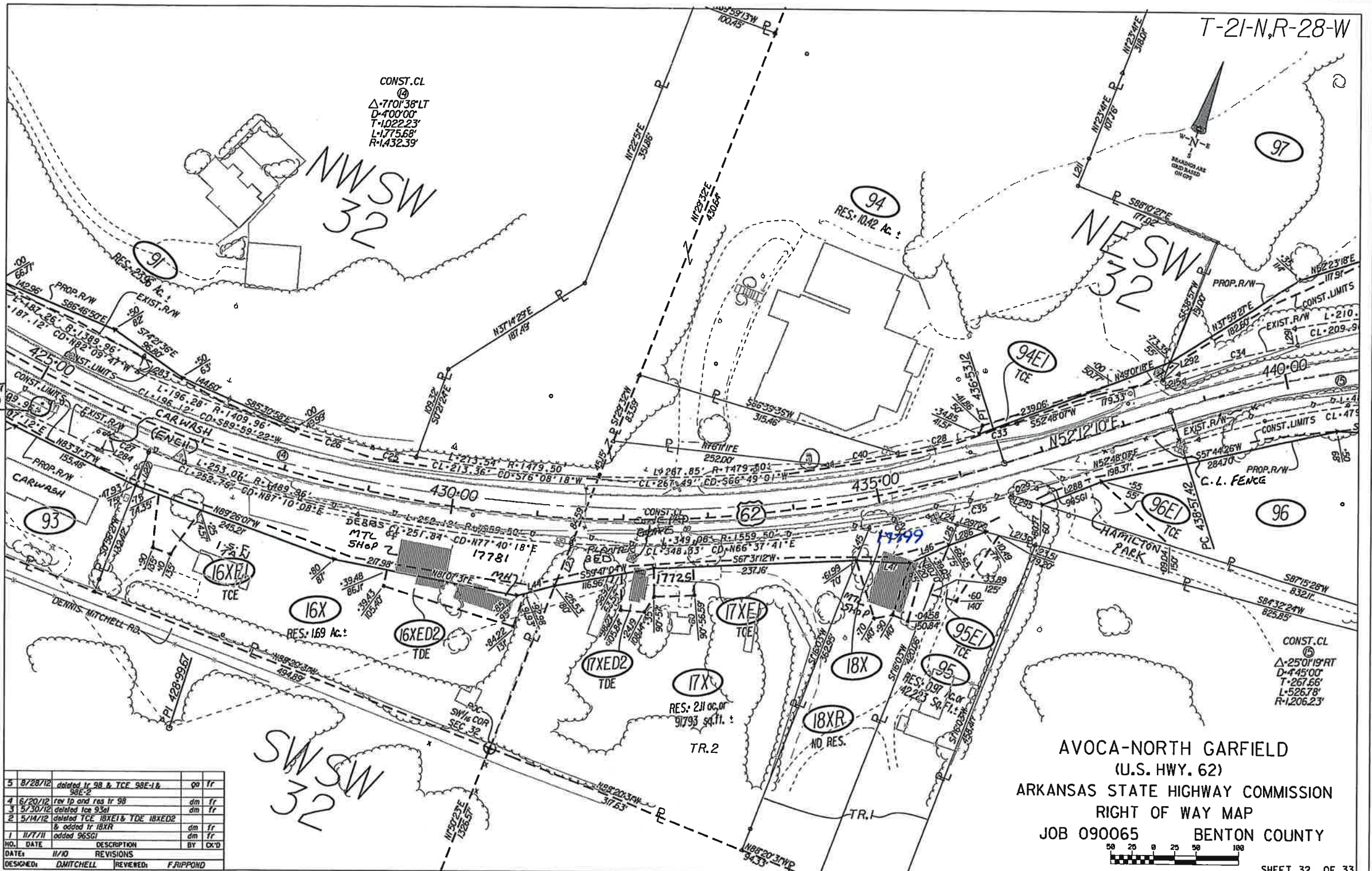
T-21-N,R-28-W

CONST. CL
⑩
Δ-770'38"LT
D-400'00"
T-1022'23"
L-1775.68'
R-1432.39'

NW SW
32

NE SW
32

SIGN
LIGHT
ANCH



SW SW
32

5	8/28/12	deleted tr 98 & TCE 98E-1 & 98E-2	qa	fr
4	6/20/12	rev tp and res tr 98	dm	fr
3	5/30/12	deleted lca 93al	dm	fr
2	5/14/12	deleted TCE 18XE1 & TDE 18XED2 & added tr 18XR	dm	fr
1	11/7/11	added 96SGI	dm	fr
NO.	DATE	DESCRIPTION	BY	CHK'D
DESIGNED:	JM MITCHELL	REVIEWED:	F. FRIPPOND	

AVOCA-NORTH GARFIELD
(U.S. HWY. 62)
ARKANSAS STATE HIGHWAY COMMISSION
RIGHT OF WAY MAP
JOB 090065 BENTON COUNTY



T-21-N,R-28-W

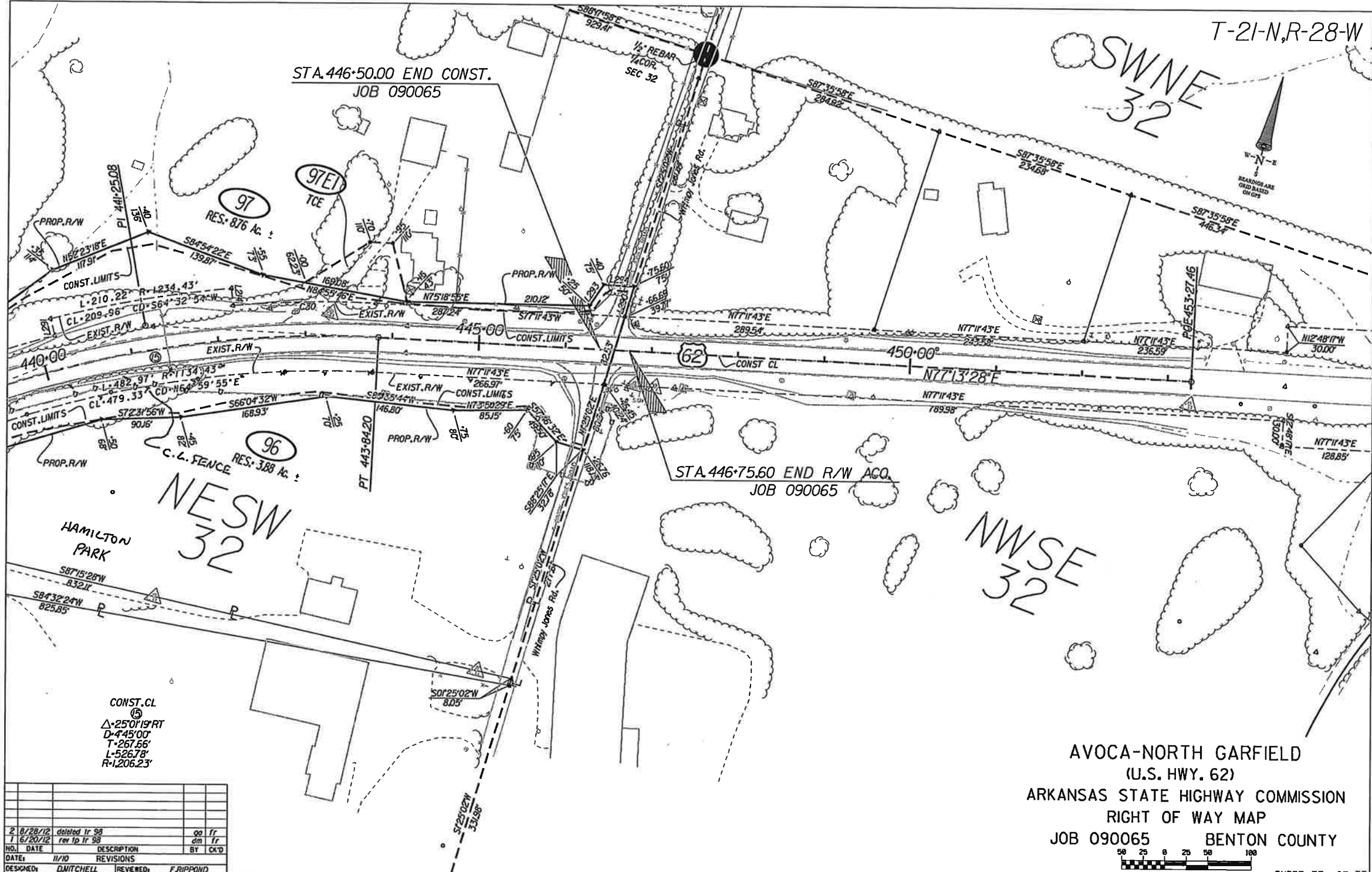
SWNE
32

STA.446+50.00 END CONST.
JOB 090065

STA.446+75.60 END R/W ACO
JOB 090065

NESW
32

NWSE
32



CONST. CL
⑤
Δ-25°01'19" RT
D-445'00"
T-267.66'
L-526.78'
R-1206.23'

2	8/28/12	deleted 1r 99	oo	fr
1	6/20/12	rev. 1p. 1r 99	dm	fr
NO.	DATE	DESCRIPTION	BY	CK'D
DATE:	11/10	REVISIONS		
DESIGNED:	DWITCHELL	REVIEWED:	F.RIPPOND	

AVOCA-NORTH GARFIELD
(U.S. HWY. 62)
ARKANSAS STATE HIGHWAY COMMISSION
RIGHT OF WAY MAP
JOB 090065 BENTON COUNTY

