

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

Bid Number: M-15-015P

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: September 9, 2014 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: _____

City: _____ State: _____ Zip: _____

Phone: _____ Fax: _____

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 U.S. Hwy. 412 (Springdale Northern Bypass), Benton County; as per attached work list for Tracts 80XR, 90X, 109X, 159X, 173X & 178X - Job 001966.

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.)

PLEASE NOTATE THE MAILING AND DELIVERY LOCATIONS ABOVE TO ENSURE THE BID ARRIVES AT THE CORRECT LOCATION AND PRIOR TO TIME OF BID OPENING.

Contact 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 forty-five (45) calendar 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.

STANDARD BID CONDITIONS

M-15-015P

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. When a bidder claims and can show clear and convincing evidence that a material mistake was made in the bid and was not the bid intended, the bidder may be permitted to withdraw their bid prior to award without forfeiture of bid bond. 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). These bonds shall not only serve to guarantee the completion of the work, but also to guarantee the excellence of both workmanship and material until the work is finally accepted and the provisions of the Plans, Specifications, and Special Provisions fulfilled. 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. McFadden, 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.Mcfadden@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-15-015P

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.	Cap Well	\$_____ Each
6.	Remove Septic System	\$_____ Each
7.	Fencing	\$_____ Linear Foot
8.	Basement	\$_____ Square Foot

Job 001966
U. S. Hwy. 412
(Springdale Northern Bypass)
Benton County

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 **(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)**, when in right of way, shall be pumped empty, removed, and void backfilled with suitable material. If septic tank is outside of right of way, contractor will cut the line to tank and cap the line just beyond the right of way line. 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, **in all other respects, 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.

**ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT
PROPERTY MANAGEMENT
ASBESTOS ABATEMENT AND DEMOLITION CONTRACT BID**

**Job 001966
U. S. Hwy. 412
(Springdale Northern Bypass)
Benton County
Tracts 80XR, 90X, 109X, 159X, 173X & 178X**

**Tract 80XR - 7022 W. Miller Rd.
Springdale, AR**

Asbestos Abatement:

766 SF of Chrysotile in the floor areas of C, D, & E.

976 SF of Chrysotile in all interior ceilings

248 SF of Chrysotile in the walls of area B

Total Asbestos Abatement:

Unit Price

Extended Price

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

Demolition:

1,100 SF 1-S-F Dwelling

1,700 SF 2-S-F Barn

Septic System

Total Demolition:

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

Total Demolition and Asbestos Abatement for 80XR:

\$ _____

**Tract 90X – 8395 E. Wagon Wheel Rd
Lowell, AR 72745**

Asbestos Abatement:

464 SF of Chrysotile in the floor areas of B & E.

Total Asbestos Abatement:

Unit Price

Extended Price

\$	/SF	\$	_____
		\$	_____

Demolition:

2,400 SF Dwelling

Septic System

Total Demolition:

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

Total Demolition and Asbestos Abatement for 90X:

\$ _____

**Tract 109X – 13016 S. Zion Rd
Springdale, AR**

No asbestos abatement necessary:

Demolition:

Unit Price

Extended Price

1,204 SF Mobile home	\$	/SF	\$
552 SF Garage	\$	/SF	\$
120 SF Out building	\$	/SF	\$
Septic System	\$	/EA	\$
Cap Well	\$	/EA	\$
Total Demolition:			\$

Total Demolition and Asbestos Abatement for 109X: \$

Tract 159X – 804 Goad Springs Rd
Lowell, AR 72745

	<u>Unit Price</u>	<u>Extended Price</u>
Asbestos Abatement:		
216 SF of Chrysotile in the Floor areas of A & D.	\$	/SF
640 SF of Chrysotile in the Ceiling areas of A,B,C,D,E, & F (All ceiling areas except G)	\$	/SF
1,632 SF of Chrysotile in the Wall areas of A,B,C,D,E, & F (All wall areas except G)	\$	/SF
Total Asbestos Abatement:		

Demolition:		
760 SF 1-S-F Dwelling	\$	/SF
620 SF 1-S-CB Building	\$	/SF
Septic System	\$	/EA
Total Demolition:		

Total Demolition and Asbestos Abatement: \$

Tract 173X – 1220 McMillan Place
Lowell, AR 72745

	<u>Unit Price</u>	<u>Extended Price</u>
No asbestos abatement necessary:		
Demolition:		
2,530 SF 2-S-B/F Dwelling	\$	/SF
1,400 SF 1-S-M Shop (wood frame)	\$	/SF
Septic System	\$	/EA
Total Demolition:		

Total Demolition for 173X: \$

Tract 178 X, 7745 West Miller Road
Springdale, AR

	<u>Unit Price</u>	<u>Extended Price</u>
Abate Approximately:		
3204 SF Chrysotile in the walls	\$	/SF

Total Abatement	_____	\$ _____
Demolition:		
1,986 SF 1-S-F Dwelling	\$ _____ /SF	\$ _____
1,288 SF Shed / Garage	\$ _____ /SF	\$ _____
36 SF Well House	\$ _____ /SF	\$ _____
Septic System	\$ _____ /EA	\$ _____
Cap Well	\$ _____ /EA	\$ _____
460 LF 3 rail wood fence	\$ _____ /LF	\$ _____
Total Demolition		\$ _____
Total Abatement & Demolition Tract 178 X		\$ _____
Total Lump Sum Price of Abatement and Demolition		\$ _____

Note 1: Read “Demolition” and “Job Bid Requirements” for extent of Demolition Bid.

Note 2: This list is to be returned with bid and becomes part of the contract.

DEMOLITION: For contract bidding purposes, demolition per square foot includes removal of any and all improvements within the acquired proposed right of way. All structures must be completely removed, including but not limited to: slabs, footings, foundations, basements, posts, poles, decks, fences and all debris. The contractor must leave the work site in a safe and level condition.

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 Laboratories, L.L.C., Carrollton, TX. Crisp Analytical Laboratories, L.L.C. is solely responsible for all analytical results contained in and referred to in this report.

**PROPERTY MANAGEMENT
ASBESTOS ABATEMENT & DEMOLITION CONTRACT**

**Job 001966
U. S. Hwy. 412
(Springdale Northern Bypass)
Benton County
Tracts 80XR, 90X, 109X, 159X, 173X, 178X**

Special Instructions

Directions to 80XR and 178X: Miller Road turns east at the intersection of West Miller and Grimsley Road. Miller Road is a gravel road once it turns from Grimsley Road. Tract 178X will be on the south side of West Miller Road approximately ¼ of a mile after the intersection of West Miller and Grimsley Road. Tract 80XR will be to the northeast of tract 178X. Tract 80XR has to be accessed through the property at 81X. The physical address of 81X is 7232 West Miller Road, Springdale AR, 72764. Please refer to the maps provided. There are two gates on the east side of 81XR; one is a metal farm gate and the other is a homemade barbwire gate. The contractor can use either gate to access 80XR. After entering one of the gates, turn left toward the center of the field. Drive northeast on the crest of the hill as indicated on the map.

There may be cattle in the field, so please shut the gates after each entry and exit.

Tract 90X: The contractor may have to remove one or two stumps at the edge of the driveway in order to navigate trucks and equipment. The contractors are encouraged to inspect the property prior to bidding.

Tract 109X: Tract 109X is very difficult to see from Zion Road due to the growth of vegetation on the property. The driveway is easier accessed traveling north on Zion Road. The well is located under the north end of the mobile home.

Tract 173XR: From Goad Springs Road, turn west on Burrell Place. Burrell will turn south. Stay straight at the curve onto Conrad Place. Tract 173XR will be at the end of the drive.

**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.

INSPECTION FLOOR PLAN

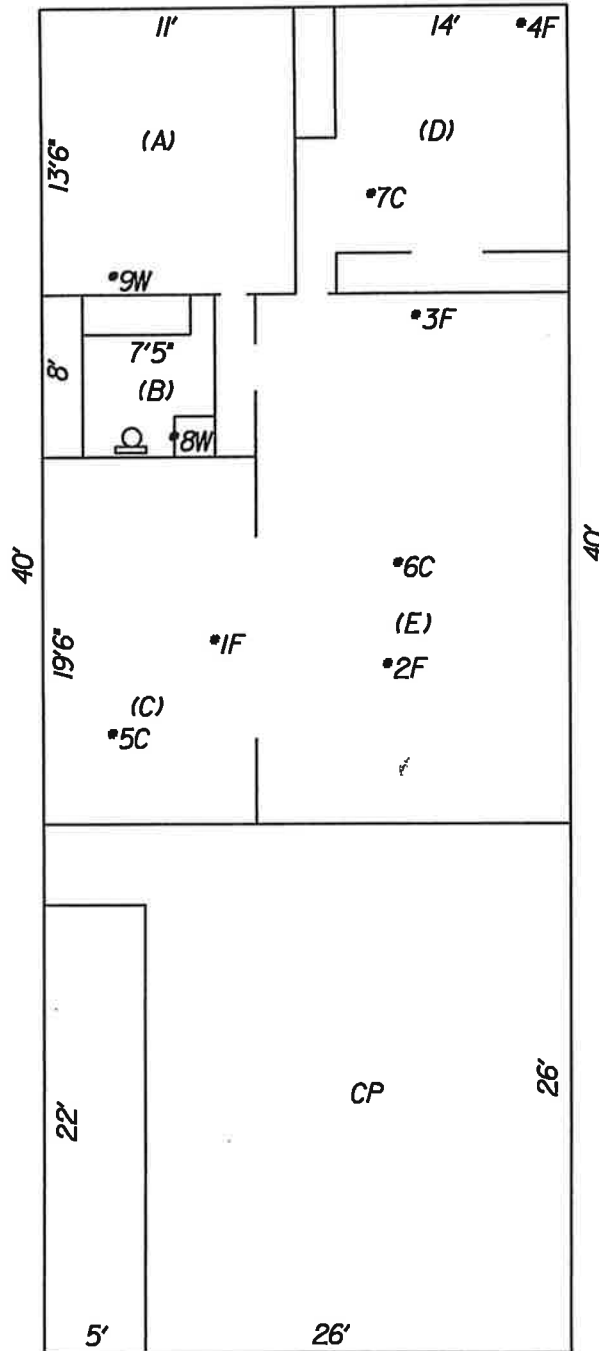
JOB: 001966
 TRACT: 80 XR
 DATE: 7/15/2014

PROPERTY LOCATION
 1-S-B Dwelling
 7022 W. Miller Rd
 Springdale, AR

INSPECTED BY
 Joel Clark (011518)
 Sherman Whittle (015689)

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

Homogenous Areas:	
Roofing	Metal
Siding	Wood
Ceilings	ACDE (Texture); B Sheet Rock
Walls	Panelling
Floors (A, B) Linoleum,	CDE (9" Tile & Black Mastie



JOB 001966 Tract 80 XR
 I-S-FRAME DWELLING
 7022 W. MILLER RD.
 SPRINGDALE, AR

1,100 SF

Chain of Custody

CAL14075110

Client Name:	AHTD	CA Labs job	CAL#
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. # :	Job #001966, Tr. 80XR
fax number:		Project Name:	Tract 7022W, Miller Rd
Send Reports to:	Joeld.Clark@arkansashighways.com Sherman.whittle@arkansashighways.com	Project Number:	Job # Springdale Bypass

Total # Samples Submitted: 9	Total # Samples to be Analyzed: 9	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)
#1, 001966 TR 80XR	(C) Floor	7/15/2014	
#2, 001966 TR 80XR	(E) Floor	7/15/2014	
#3, 001966 TR 80XR	(E) Floor	7/15/2014	
#4, 001966 TR 80XR	(D) Floor	7/15/2014	
#5, 001966 TR 80XR	(C) Ceiling	7/15/2014	
#6, 001966 TR 80XR	(E) Ceiling	7/15/2014	
#7, 001966 TR 80XR	(D) Ceiling	7/15/2014	
#8, 001966 TR 80XR	(B) Wall	7/15/2014	
#9, 001966 TR 80XR	(A) Wall	7/15/2014	
#10			

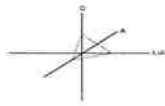
Custody Information:

Samples relinquished: St. Witt 7/18/14 11:40 am
Signature / Date / Time

Samples received: Justin E... 7/23/14
Signature / Date / Time 10:30 am

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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: Tr. 80XR, Tract 7022 W. Miller Rd.

Reference #: CAL14075110CB

Date: 7/28/2014

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.**

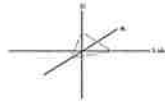
Qualifications

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: Tr. 80XR, Tract 7022 W. Miller Rd. **CA Labs Project #:** CAL14075110CB

Sample #	Layer #	Analysts Subsample	Physical Description of	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
#1, 001966 TR 80 XR	1-2		black mastic	2% Chrysotile	black mastic tan thin floor tile off-white surfaced white compound
#2, 001966 TR 80 XR	2-1		(E) Floor/ tan thin floor tile	5% Chrysotile	
	2-2		black mastic	4% Chrysotile	
#3, 001966 TR 80 XR	3-1		(E) Floor/ tan thin floor tile	4% Chrysotile	
	3-2		black mastic	5% Chrysotile	
#4, 001966 TR 80 XR	4-1		(D) Floor/ tan thin floor tile	4% Chrysotile	
	4-2		black mastic	4% Chrysotile	
#5, 001966 TR 80 XR	5-1		(C) Ceiling/ off-white surfaced white compound	2% Chrysotile	

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

AIHA LAP, LLC Laboratory #102929

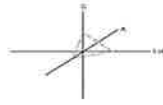
Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

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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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:	Tr. 80XR, Tract 7022 W. Miller Rd.		CA Labs Project #:	CAL14075110CB
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
#6, 001966 TR 80 XR	6-1	(E) Ceiling/ off-white surfaced white compound	3% Chrysotile	
#7, 001966 TR 80 XR	7-1	(D) Ceiling/ off-white surfaced white compound	3% Chrysotile	
#8, 001966 TR 80 XR	8-1	(B) Wall/ off-white surfaced white compound	2% Chrysotile	
#9, 001966 TR 80 XR	9-1	(A) Wall/ off-white surfaced white compound	2% Chrysotile	

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

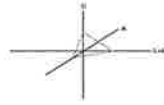
Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate gypsum - gypsum bi - binder or - organic ma - matrix mi - mica ve - vermiculite ol - other	pe - perlite qu - quartz	fg - fiberglass mw - mineral wool wo - wollastinite ta - talc sy - synthetic ce - cellulose br - brucite ka - kaolin (clay)	pa - palygorskite (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:
Tr. 80XR, Tract 7022 W. Miller Rd.

CA Labs Project #:
CAL14075110CB

Date: 7/28/2014

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

Turnaround Time:
3 Days

Samples Received: 7/23/14 10:30am
Date Of Sampling: 7/15/14
Purchase Order #: 001966

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
#1, 001966 TR 80 XR		1-1	(C) Floor/	off-white linoleum	n	None Detected	29% ce	71% ot
		1-2	black mastic		y	2% Chrysotile		98% ma
#2, 001966 TR 80 XR		2-1	(E) Floor/	tan thin floor tile	y	5% Chrysotile		95% qu,ca
		2-2	black mastic		y	4% Chrysotile		96% ma
#3, 001966 TR 80 XR		3-1	(E) Floor/	tan thin floor tile	y	4% Chrysotile		96% qu,ca
		3-2	black mastic		y	5% Chrysotile		95% ma
#4, 001966 TR 80 XR		4-1	(D) Floor/	tan thin floor tile	y	4% Chrysotile		96% 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)

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	co - 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:

Leslie Crisp
Analyst

QAC
Leslie Crisp, P.G.

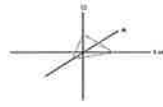
Technical Manager
Chad Lytle

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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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:
Tr. 80XR, Tract 7022 W. Miller
Rd.

CA Labs Project #:
CAL14075110CB

Date: 7/28/2014

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

Turnaround Time:
3 Days

Samples Received: 7/23/14 10:30am
Date Of Sampling: 7/15/14
Purchase Order #: 001966

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
		4-2	black mastic	y	4% Chrysotile		96% ma
#5, 001966			(C) Ceiling/ off-white surfaced				
TR 80 XR		5-1	white compound	n	2% Chrysotile		98% qu,mi,ca
		5-2	white drywall with brown paper	n	None Detected	29% ce	71% gy
#6, 001966			(E) Ceiling/ off-white surfaced				
TR 80 XR		6-1	white compound	n	3% Chrysotile		97% qu,mi,ca
		6-2	white drywall with brown paper	n	None Detected	21% ce	79% gy
#7, 001966			(D) Ceiling/ off-white surfaced				
TR 80 XR		7-1	white compound	n	3% Chrysotile		97% qu,mi,ca
		7-2	white drywall with brown paper	y	None Detected	32% ce	68% 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:

Leslie Crisp
Analyst

QAC
Leslie Crisp, P.G.

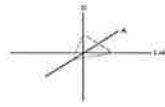
Technical Manager
Chad Lytle

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

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:
Tr. 80XR, Tract 7022 W. Miller Rd.

CA Labs Project #:
CAL14075110CB

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

Turnaround Time:
3 Days

Date: 7/28/2014
Samples Received: 7/23/14 10:30am
Date Of Sampling: 7/15/14
Purchase Order #: 001966

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
#8, 001966 TR 80 XR		8-1	(B) Wall/ off-white surfaced white compound	n	2% Chrysotile		98% qu,mi,ca
		8-2	white drywall with brown paper	n	None Detected	20% ce	80% gy
#9, 001966 TR 80 XR		9-1	(A) Wall/ off-white surfaced white compound	n	2% Chrysotile		98% qu,ca
		9-2	white drywall with brown paper	n	None Detected	21% ce	79% 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:

Leslie Crisp
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
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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



Google earth



Tract 80XR
7022 W. Miller Rd.
Springdale, AR



**Job 001966
U. S. Hwy. 412
(Springdale Northern Bypass)
Benton County
Tract 80XR**



**Job 001966
U. S. Hwy. 412
(Springdale Northern Bypass)
Benton County**

Tract 80XR

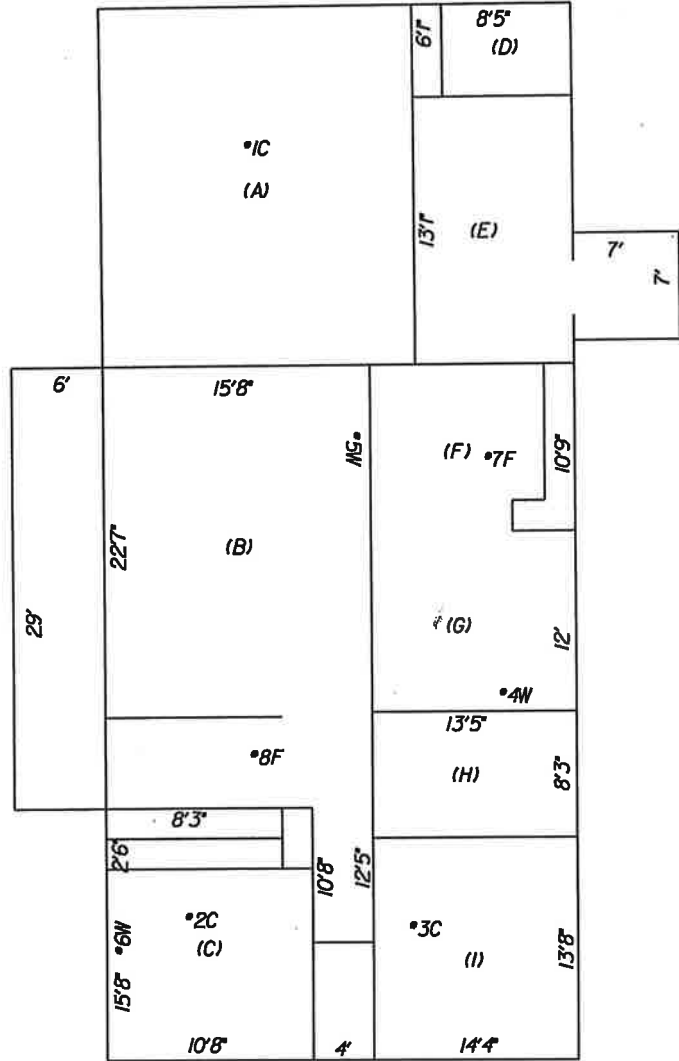
JOB: 001966
 TRACT: 90 X
 DATE: 7/15/2014

PROPERTY LOCATION
 1-S-B Dwelling
 8395E. Wagon Wheel Road
 Lowell, AR 72745

INSPECTED BY
 Sherman Whittle (015689)
 Joel Clark (011518)

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

Homogenous Areas:	
Roofing	Shingles
Siding	Brick
Ceilings	Sprade on Sheet Rock
Walls	Panelling
Floors	A-D, I Carpet; B, D-H Linoleum



Job 001966 Tract 90X
 I-S-B Dwelling
 8395 E.Wagon Wheel Rd.
 Lowell, AR 72745
 Approx. 2,400 SF

Chain of Custody

CAL1407511

Client Name:	AHTD	CA Labs job	CAL#
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. # :	Job # 001966, Tr. 90X
fax number:		Project Name:	Tract 8395 E. Wagon Wheel Rd
Send Reports to:	Joeld.Clark@arkansashighways.com Sherman.whittle@arkansashighways.com	Project Number:	Job # Springdale Bypass

Total # Samples Submitted: 8	Total # Samples to be Analyzed: 8	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)
#1, 001966 TR 90X	(A) Ceiling	7/15/2014	
#2, 001966 TR 90X	(C) Ceiling	7/15/2014	
#3, 001966 TR 90X	(I) Ceiling	7/15/2014	
#4, 001966 TR 90X	(G) Wall	7/15/2014	
#5, 001966 TR 90X	(B) Wall	7/15/2014	
#6, 001966 TR 90X	(C) Wall	7/15/2014	
#7, 001966 TR 90X	(E) Floor	7/15/2014	
#8, 001966 TR 90X	(B) Floor	7/15/2014	
#9			
#10			

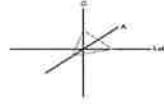
Custody Information:

Samples relinquished SK White 7/18/14 11:41 am
Signature / Date / Time

Samples received Justin W 7/23/14 10:30 am
Signature / Date / Time

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: Tr. 90X, Tract 8395 E. Wagon Wheel Rd

Reference #: CAL1407511CB

Date: 7/28/2014

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:		Tr. 90X, Tract 8395 E. Wagon Wheel Rd		CA Labs Project #: CAL1407511CB	
Sample #	Layer #	Analysts	Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
#7, 001966					tan linoleum
TR 90X	7-1	(E)	Floor/ tan linoleum	28% Chrysotile	
#8, 001966					
TR 90X	8-1	(B)	Floor/ tan linoleum	27% 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		ca - 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:
Tr. 90X, Tract 8395 E. Wagon
Wheel Rd

CA Labs Project #:
CAL1407511CB

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

Turnaround Time:
3 Days

Date: 7/28/2014
Samples Received: 7/23/14 10:30am
Date Of Sampling: 7/15/14
Purchase Order #: 001966

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
#1, 001966 TR 90X		1-1		(A) Ceiling/ white textured surfacing	y	None Detected		100% qu,mi,ca
		1-2		white compound (beneath tape)	y	None Detected		100% qu,mi,ca
		1-3		white drywall with brown paper	n	None Detected	21% ce	79% gy
#2, 001966 TR 90X		2-1		(C) Ceiling/ white textured surfacing	y	None Detected		100% qu,mi,ca
		2-2		white compound (beneath tape)	y	None Detected		100% qu,mi,ca
		2-3		white drywall with brown paper	n	None Detected	21% ce	79% gy
#3, 001966 TR 90X		3-1		(I) Ceiling/ white textured surfacing	y	None Detected		100% 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
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	la - talc	pa - palygorskite (clay)
ma - malrix	qu - quartz	sy - synthetic	

Approved Signatories:

Leslie Crisp
Analyst

QAC
Leslie Crisp, P.G.

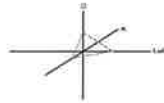
Technical Manager
Chad Lytle

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 Industripex, 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:
Tr. 90X, Tract 8395 E. Wagon
Wheel Rd
Turnaround Time:
3 Days

CA Labs Project #:
CAL1407511CB
Date: 7/28/2014
Samples Received: 7/23/14 10:30am
Date Of Sampling: 7/15/14
Purchase Order #: 001966

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 compound (beneath tape)	y	None Detected		100% qu,mi,ca
		3-3		white drywall with brown paper	n	None Detected	29% ce	71% gy
#4, 001966				(G) Wall/ off-white surfaced				
TR 90X		4-1		white compound	n	None Detected		100% qu,mi,ca
		4-2		white compound (beneath tape)	y	None Detected		100% qu,mi,ca
		4-3		white drywall with brown paper	n	None Detected	21% ce	79% gy
#5, 001966				(B) Wall/ off-white surfaced				
TR 90X		5-1		white compound	n	None Detected		100% qu,mi,ca
		5-2		white compound (beneath tape)	y	None Detected		100% qu,mi,ca

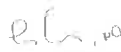
Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

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
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:


Leslie Crisp
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.
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Fax 972-242-2798



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12232 Industripex, 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:
Tr. 90X, Tract 8395 E. Wagon
Wheel Rd

CA Labs Project #:
CAL1407511CB

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

Turnaround Time:
3 Days

Date: 7/28/2014
Samples Received: 7/23/14 10:30am
Date Of Sampling: 7/15/14
Purchase Order #: 001966

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
		5-3		white drywall with brown paper	n	None Detected	29% ce	71% gy
#6, 001966				(C) Wall/ off-white surfaced				
TR 90X		6-1		white compound	n	None Detected		100% qu,mi,ca
		6-2		white compound (beneath tape)	y	None Detected		100% qu,ca
		6-3		white drywall with brown paper	n	None Detected	29% ce	71% gy
#7, 001966				(E) Floor/ tan linoleum				
TR 90X		7-1		(E) Floor/ tan linoleum	n	28% Chrysotile		72% ot
		4		7-2 tan mastic				

#8, 001966
TR 90X

8-1 (B) Floor/ tan linoleum y 27% Chrysotile 73% ot

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:

Leslie Crisp
Analyst

QAC
Leslie Crisp, P.G.

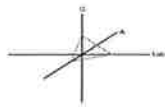
Technical Manager
Chad Lytle

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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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:
Tr. 90X, Tract 8395 E. Wagon
Wheel Rd

CA Labs Project #:
CAL1407511CB

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

Turnaround Time:
3 Days

Date: 7/28/2014
Samples Received: 7/23/14 10:30am
Date Of Sampling: 7/15/14
Purchase Order #: 001966

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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4 8-2 tan mastic


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

Approved Signatories:


Leslie Crisp
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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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



Google earth



Tract 90X
8395 E. Wagon Wheel Rd
Lowell, AR 72745



Tract 90X
8395 E. Wagon Wheel Rd
Lowell, AR 72745



Tract 90X
8395 E. Wagon Wheel Rd
Lowell, AR 72745

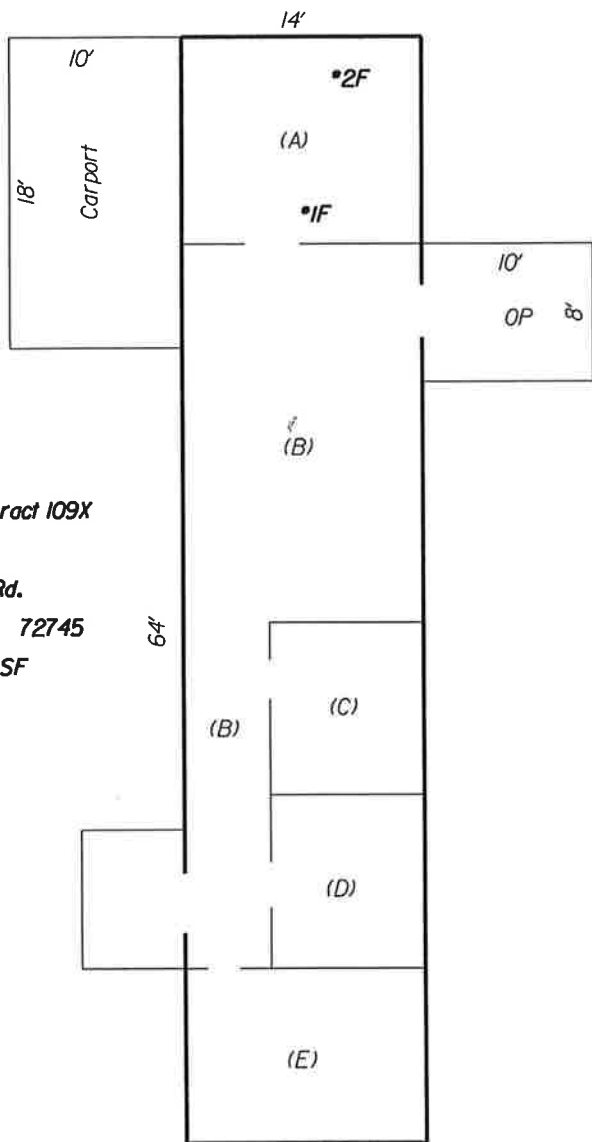
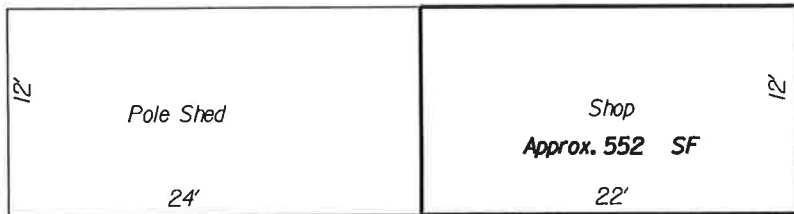
JOB: 001966
 TRACT: 109X
 DATE: 7/14/2014

PROPERTY LOCATION
 Mobile Home
 13016 S. Zion Rd
 Lowell, AR 72745

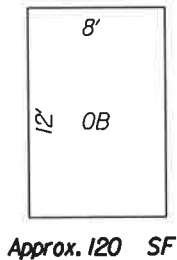
INSPECTED BY
 Sherman Whittle (015689)
 Joel Clark (011518)

Sample Number	Description/ Location	Sample Number	Description/ Location
#1	A) Floor	#11	
#2	A0 Floor	#12	
#3		#13	
#4		#14	
#5		#15	
#6		#16	
#7		#17	
#8		#18	
#9		#19	
#10		#20	

Homogenous Areas:	
Roofing	Metal
Siding	Metal
Ceilings	Masonite
Walls	Panelling
Floors	A) Linoleum B-E) Carpet/Wood



Job 001966 Tract 109X
 Mobile Home
 13016 S. Zion Rd.
 Springdale, AR 72745
 Approx. 1,204 SF



Chain of Custody

CAL14075112

Client Name:	AHTD	CA Labs job	CAL#
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. # :	Job #001966, Tr. 109X
fax number:		Project Name:	Tract 13016 S. Zion Rd.
Send Reports to:	Joeld.Clark@arkansashighways.com Sherman.whittle@arkansashighways.com	Project Number:	Job # Springdale Bypass

Total # Samples Submitted: 2	Total # Samples to be Analyzed: 2	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)
#1, 001966 Tr. 109X	(A) Floor	7/14/2014	
#2, 001966 Tr. 109X	(A) Floor	7/14/2014	
#3			
#4			
#5			
#6			
#7			
#8			
#9			
#10			

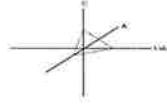
Custody Information:

Samples relinquished JK Whitt 7/18/14 11:45 AM
Signature / Date / Time

Samples received Justin EG 7/23/14 10:30-
Signature / Date / Time

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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 Industrilex, 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: Tr. 109X, Tract 13016 S. Zion Rd.
Reference #: CAL14075112CB

Date: 7/28/2014

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: Tr. 109X, Tract 13016 S. Zion Rd. **CA Labs Project #:** CAL14075112CB

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

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AIHA LAP, LLC Laboratory #102929

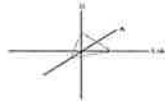
Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastinite	
or - organic		la - 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:
Tr. 109X, Tract 13016 S. Zion
Rd.

CA Labs Project #:
CAL14075112CB

Date: 7/28/2014

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

Turnaround Time:
3 Days

Samples Received: 7/23/14 10:30am
Date Of Sampling: 7/14/14
Purchase Order #: 001966

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
#1, 001966 Tr. 109X		1-1	(A) Floor/ tan linoleum with gray backing	y	None Detected	22% ce	78% qu,bi
		1-2	tan mastic	y	None Detected		100% gy,bi
#2, 001966 Tr. 109X		2-1	(A) Floor/ tan linoleum with gray backing	y	None Detected	21% ce	79% qu,bi
		2-2	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:

Connor Vincent
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

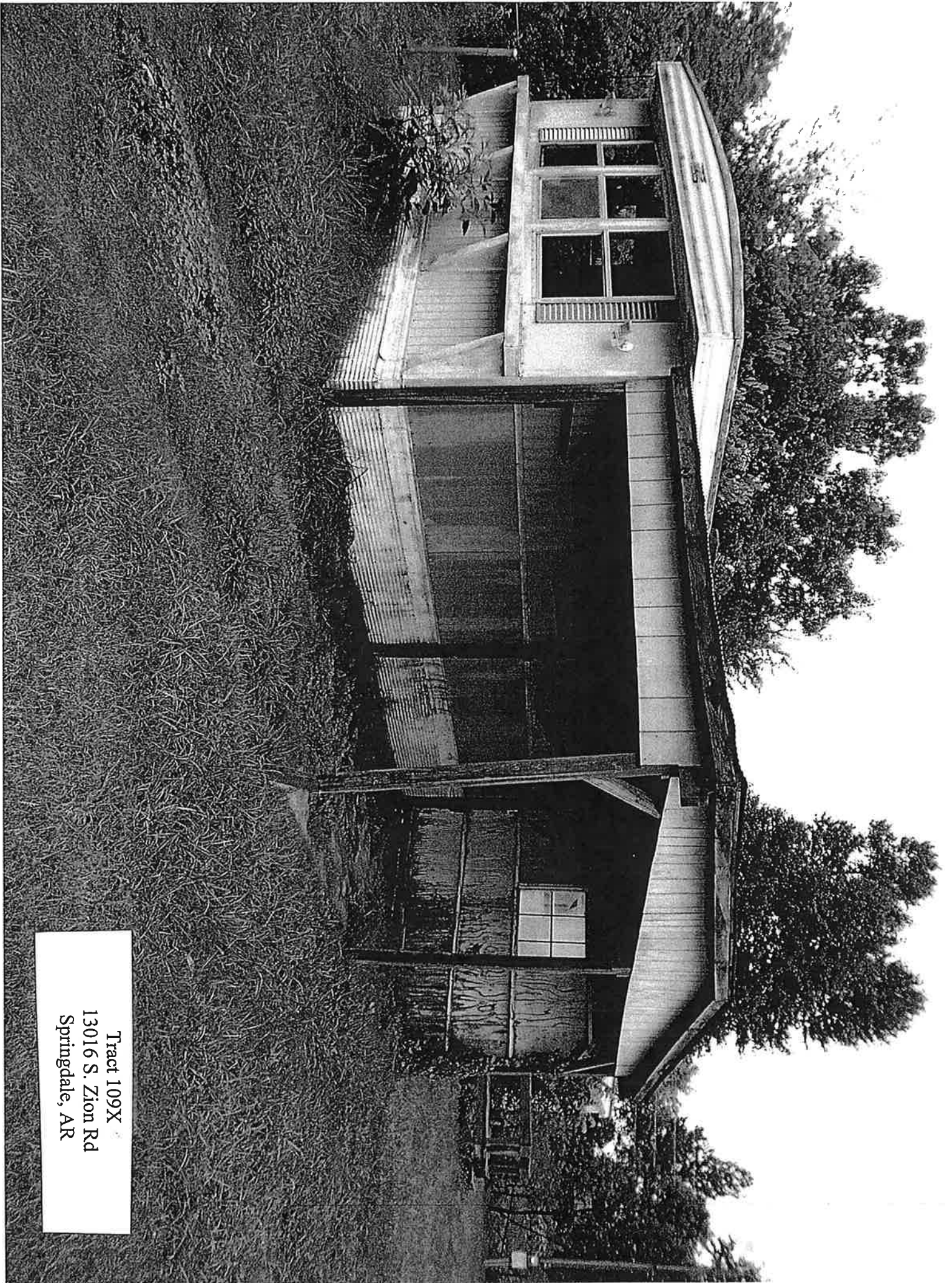
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested



Google earth



Tract 109X
13016 S. Zion Rd
Springdale, AR



Tract 109X
13016 S. Zion Rd
Springdale, AR



Tract 109X
13016 S. Zion Rd
Springdale, AR

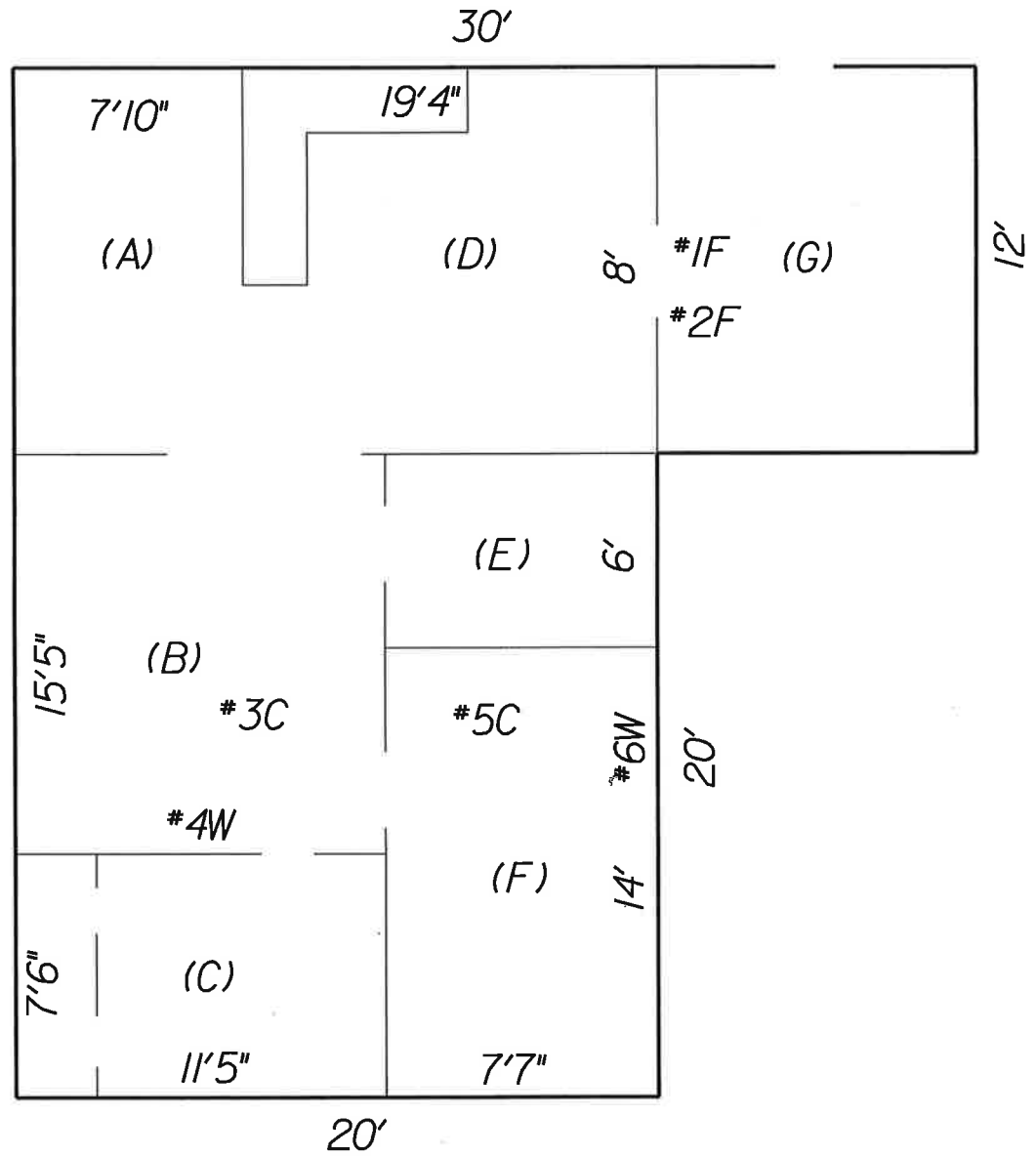


Tract 109X
13016 S. Zion Rd
Springdale, AR

INSPECTION FLOOR PLAN

JOB:	001966	PROPERTY LOCATION	INSPECTED BY
TRACT:	159 X	1-S-F Dwelling	Sherman Whittle (015689)
DATE:	7/15/2014	804 Goad Springs Road	Joel Clark (011518)
		Lowell, AR 72745	

Sample Number	Description/ Location	Sample Number	Description/ Location	Homogenous Areas:	
#1	D) Floor	#11		Roofing	Shingles
#2	D) Floor	#12		Siding	Vinyl/Manonite
#3	B) Ceiling	#13		Ceilings	Sheet Rock
#4	B) Wall	#14		Walls	BCEF) Sheet Rock under Panelling AD) Sheet Rock
#5	F) Ceiling	#15		Floors	AD) Tile; BCEF) Carpet/Wood G) Concrete Slab
#6	F) Wall	#16			
#7		#17			
#8		#18			
#9		#19			
#10		#20			



Job 001966 Tract 109X
 I-S-F Dwelling
 804 Goad Springs Road
 Lowell, AR 72745
 Approx. 760 SF

Chain of Custody

CAL14075113

Client Name:	AHTD	CA Labs job	CAL#
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. # :	Job # 001966, Tr. 159X
fax number:		Project Name:	Tract 804 Goad Springs Rd.
Send Reports to:	Joeld.Clark@arkansashighways.com Sherman.whittle@arkansashighways.com	Project Number:	Job # Springdale Bypass

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>	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	Cyelex-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)
#1, 001966 Tr. 159X	(D) Floor	7/15/2014	
#2, 001966 Tr. 159X	(D) Floor	7/15/2014	
#3, 001966 Tr. 159X	(B) Ceiling	7/15/2014	
#4, 001966 Tr. 159X	(B) Wall	7/15/2014	
#5, 001966 Tr. 159X	(F) Ceiling	7/15/2014	
#6, 001966 Tr. 159X	(F) Wall	7/15/2014	
#7			
#8			
#9			
#10			

Custody Information:

Samples relinquished: SL Whittle 7/18/14 1145 am
Signature / Date / Time

Samples received: Justin Ege 7/23/14
Signature / Date / Time

10:30 --

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Baton Rouge, LA 70809
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Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Arkansas State Highway & Transportation Dept.

Attn: Robert Pooler

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

Customer Project: Tr. 159X, Tract 804 Goad Springs Rd
Reference #: CAL14075113CB

Date: 7/28/2014

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).

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Overview of Project Sample Material Containing Asbestos

Customer Project:	Tr. 159X, Tract 804 Goad Springs Rd		CA Labs Project #:	CAL14075113CB	
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types	
#2	2-3	tan linoleum	23% Chrysotile	tan linoleum off-white textured surfacing off-white compound (beneath tape) white surfaced off-white compound blue surfaced off-white compound	
#3	3-1	(B) Ceiling/ off-white textured surfacing	4% Chrysotile		
	3-2	off-white compound (beneath tape)	2% Chrysotile		
#4	4-1	(B) Wall/ white surfaced off-white compound	2% Chrysotile		
	4-2	off-white compound (beneath tape)	2% Chrysotile		
#5	5-1	(F) Ceiling/ off-white textured surfacing	4% Chrysotile		
	5-2	off-white compound (beneath tape)	2% Chrysotile		
#6	6-1	(F) Wall/ blue surfaced off-white compound	2% Chrysotile		

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

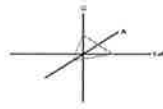
Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

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

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Overview of Project Sample Material Containing Asbestos

Customer Project:	Tr. 159X, Tract 804 Goad Springs Rd	CA Labs Project #:	CAL14075113CB
Sample #	Layer Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types

6-2	off-white compound (beneath tape)	2% 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):

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bi - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
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ve - vermiculite		br - brucite	
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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:
Tr. 159X, Tract 804 Goad
Springs Rd
Turnaround Time:
3 Days

CA Labs Project #:
CAL14075113CB
Date: 7/28/2014
Samples Received: 7/23/14 10:30am
Date Of Sampling: 7/15/14
Purchase Order #: 001966

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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#1		1-1		(D) Floor/ tan self-adhesive flooring	y	None Detected		100% qu,bi
		1-2		tan mastic	y	None Detected		100% gy,bi
#2		2-1		(D) Floor/ off-white linoleum	y	None Detected	21% ce	79% qu,bi
		2-2		tan mastic	y	None Detected		100% gy,bi
		2-3		tan linoleum	y	23% Chrysotile		77% qu,bi
4		2-4		tan mastic				

#3		3-1		(B) Ceiling/ off-white textured surfacing	y	4% Chrysotile		96% qu,bi,ve,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
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Approved Signatories:


Connor Vincent
Analyst


QAC
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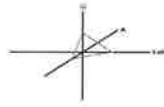
Technical Manager
Chad Lytle

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:
Tr. 159X, Tract 804 Goad
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Turnaround Time:
3 Days

CA Labs Project #:
CAL14075113CB

Date: 7/28/2014
Samples Received: 7/23/14 10:30am
Date Of Sampling: 7/15/14
Purchase Order #: 001966

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

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		3-2		off-white compound (beneath tape)	y	2% Chrysotile		98% mi,ca
		3-3		white drywall with brown paper	n	None Detected	20% ce	80% qu,gy
#4		4-1		(B) Wall/ white surfaced off- white compound	n	2% Chrysotile		98% mi,bi,ca
		4-2		off-white compound (beneath tape)	y	2% Chrysotile		98% mi,ca
		4-3		white drywall with brown paper	n	None Detected	23% ce	77% qu,gy
#5		5-1		(F) Ceiling/ off-white textured surfacing	y	4% Chrysotile		96% qu,bi,ve,ca
		5-2		off-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

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

Approved Signatories:


Connor Vincent
Analyst


QAC
Leslie Crisp, P.G.

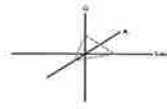
Technical Manager
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1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
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7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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

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:
Tr. 159X, Tract 804 Goad
Springs Rd
Turnaround Time:
3 Days

CA Labs Project #:
CAL14075113CB
Date: 7/28/2014
Samples Received: 7/23/14 10:30am
Date Of Sampling: 7/15/14
Purchase Order #: 001966

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
		5-3		white drywall with brown paper	n	None Detected	21% ce	79% qu,gy
#6		6-1		(F) Wall/ blue surfaced off- white compound	n	2% Chrysotile		98% mi,bi,ca
		6-2		off-white compound (beneath tape)	y	2% Chrysotile		98% mi,ca
		6-3		white drywall with brown paper	n	None Detected	24% ce	76% 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:

Connor Vincent
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

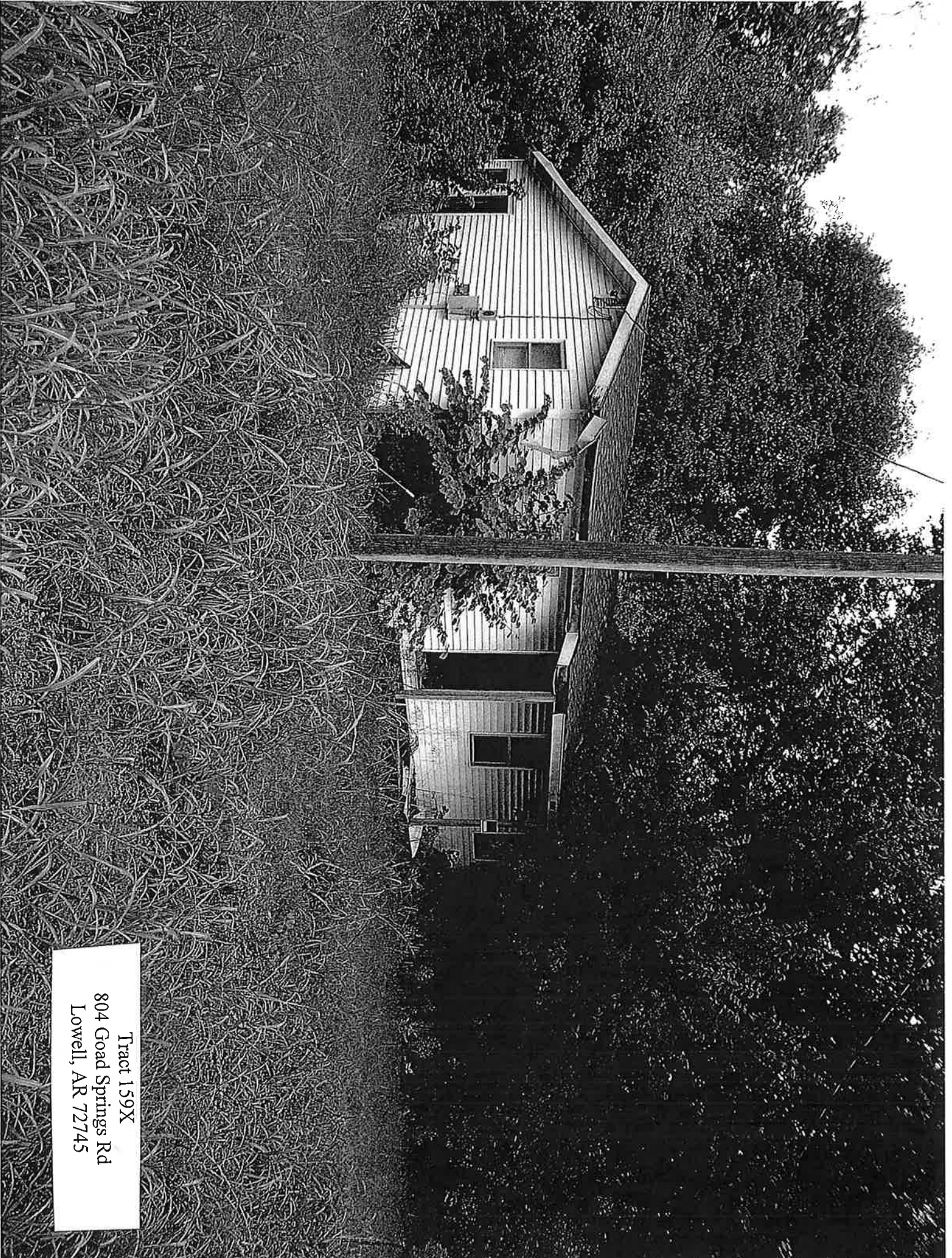
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested



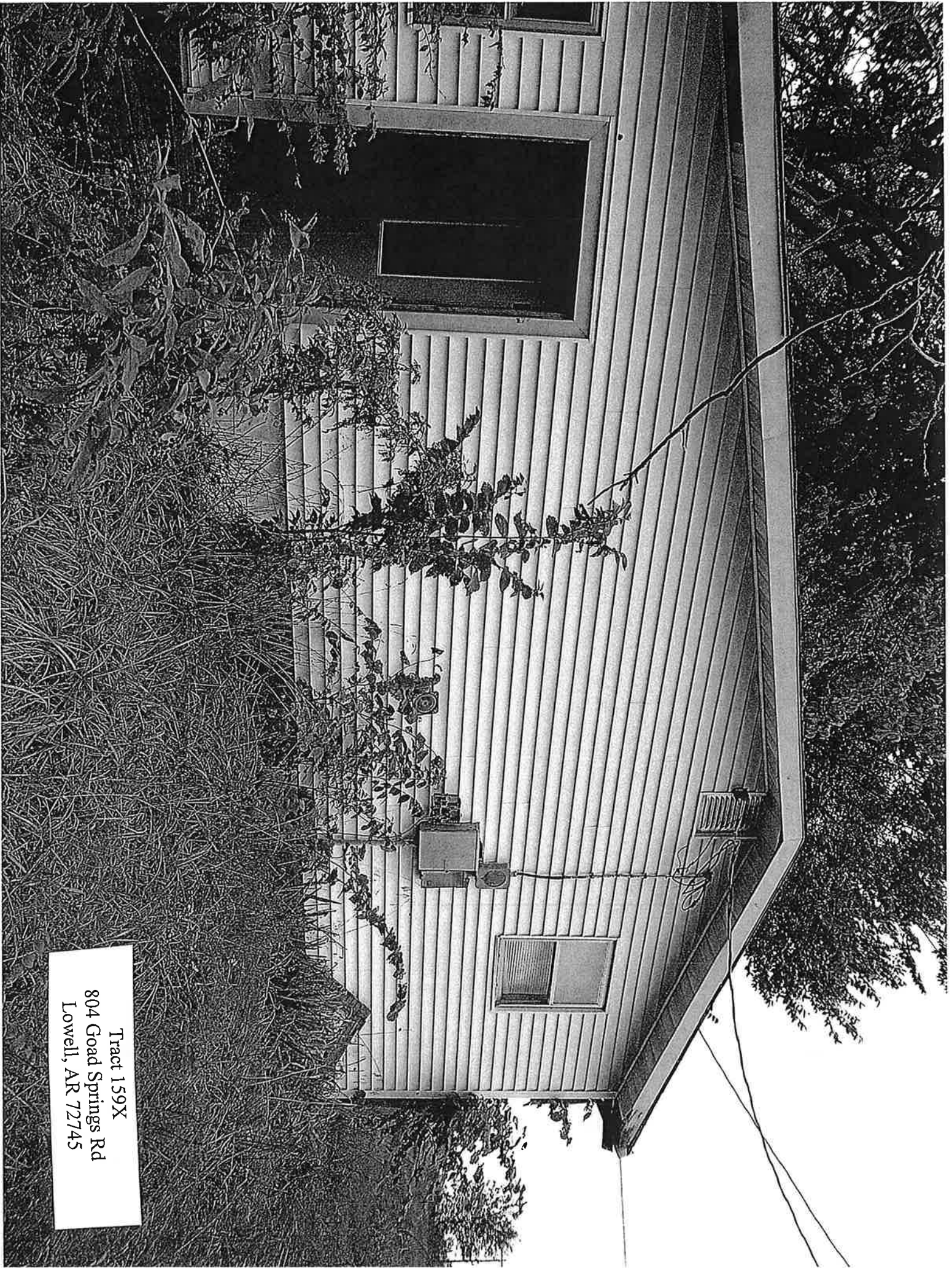
Google earth



Tract 159X
804 Goad Springs Rd
Lowell, AR 72745



Tract 159X
804 Goad Springs Rd
Lowell, AR 72745



Tract 159X
804 Goad Springs Rd
Lowell, AR 72745



15.10.2013



Chain of Custody

CAL14075114

Client Name:	AHTD	CA Labs job	CAL#
Client Address:	P.O. Box 2261	Billing Address:	
	Room #705	(if different)	
	Little Rock, AR 72203-2261		
phone number:	501-569-2317 or 2318	P.O. # :	Job # 001966, Tr. 173X
fax number:		Project Name:	Tract 1220 McMillian Pl.
Send Reports to:	Joeld.Clark@arkansashighways.com	Project Number:	Job # Springdale Bypass
	Sherman.whittle@arkansashighways.com		

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>	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)
#1, 001966 Tr. 173X	(E) Ceiling	7/15/2014	
#2, 001966 Tr. 173X	(I) Ceiling	7/15/2014	
#3, 001966 Tr. 173X	(C) Ceiling	7/15/2014	
#4, 001966 Tr. 173X	(I) Wall	7/15/2014	
#5, 001966 Tr. 173X	(F) Wall	7/15/2014	
#6			
#7			
#8			
#9			
#10			

Custody Information:

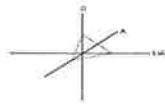
Samples relinquished: SL Will 7/18/14 11:40 AM
Signature / Date / Time

Samples received: Justin Egan 7/23/14
Signature / Date / Time

10:30 AM

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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: Tr. 173X, Tract 1220 McMillan Pl.

Reference #: CAL14075114CB

Date: 7/28/2014

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.**

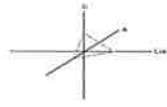
Qualifications

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: Tr. 173X, Tract 1220 McMillan Pl. **CA Labs Project #:** CAL14075114CB

Sample #	Layer #	Analysts Subsample	Physical Description of	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

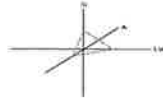
Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

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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Quality

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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

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:
Tr. 173X, Tract 1220 McMillan
Pl.

CA Labs Project #:
CAL14075114CB

Date: 7/28/2014

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

Turnaround Time:
3 Days

Samples Received: 7/23/14 10:30am
Date Of Sampling: 7/15/14
Purchase Order #: 001966

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
#1, 001966 Tr. 173X		1-1	(E) Ceiling/ off-white surfaced white compound	n	None Detected		100% qu,mi,ca
		1-2	white drywall with brown paper	n	None Detected	21% ce	79% gy
#2, 001966 Tr. 173X		2-1	(I) Ceiling/ off-white surfaced white compound	n	None Detected		100% qu,mi,ca
		2-2	white drywall with brown paper	n	None Detected	21% ce 1% fg	78% gy
#3, 001966 Tr. 173X		3-1	(C) Ceiling/ off-white surfaced white compound	n	None Detected		100% qu,mi,ca
		3-2	white drywall with brown paper	n	None Detected	29% ce	71% gy
#4, 001966 Tr. 173X		4-1	(I) Wall/ off-white surfaced white compound	n	None Detected		100% 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
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:

Leslie Crisp
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.
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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

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:
Tr. 173X, Tract 1220 McMillan
Pl.

CA Labs Project #:
CAL14075114CB

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

Turnaround Time:
3 Days

Date: 7/28/2014
Samples Received: 7/23/14 10:30am
Date Of Sampling: 7/15/14
Purchase Order #: 001966

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
		4-2	white drywall with brown paper	y	None Detected	29% ce	71% gy
#5, 001966 Tr. 173X			(F) Wall/ off-white surfaced				
		5-1	white compound	n	None Detected		100% qu,mi,ca
		5-2	white compound (beneath tape)	y	None Detected		100% qu,mi,ca
		5-3	white drywall with brown paper	n	None Detected	29% ce	71% 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 - perflite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

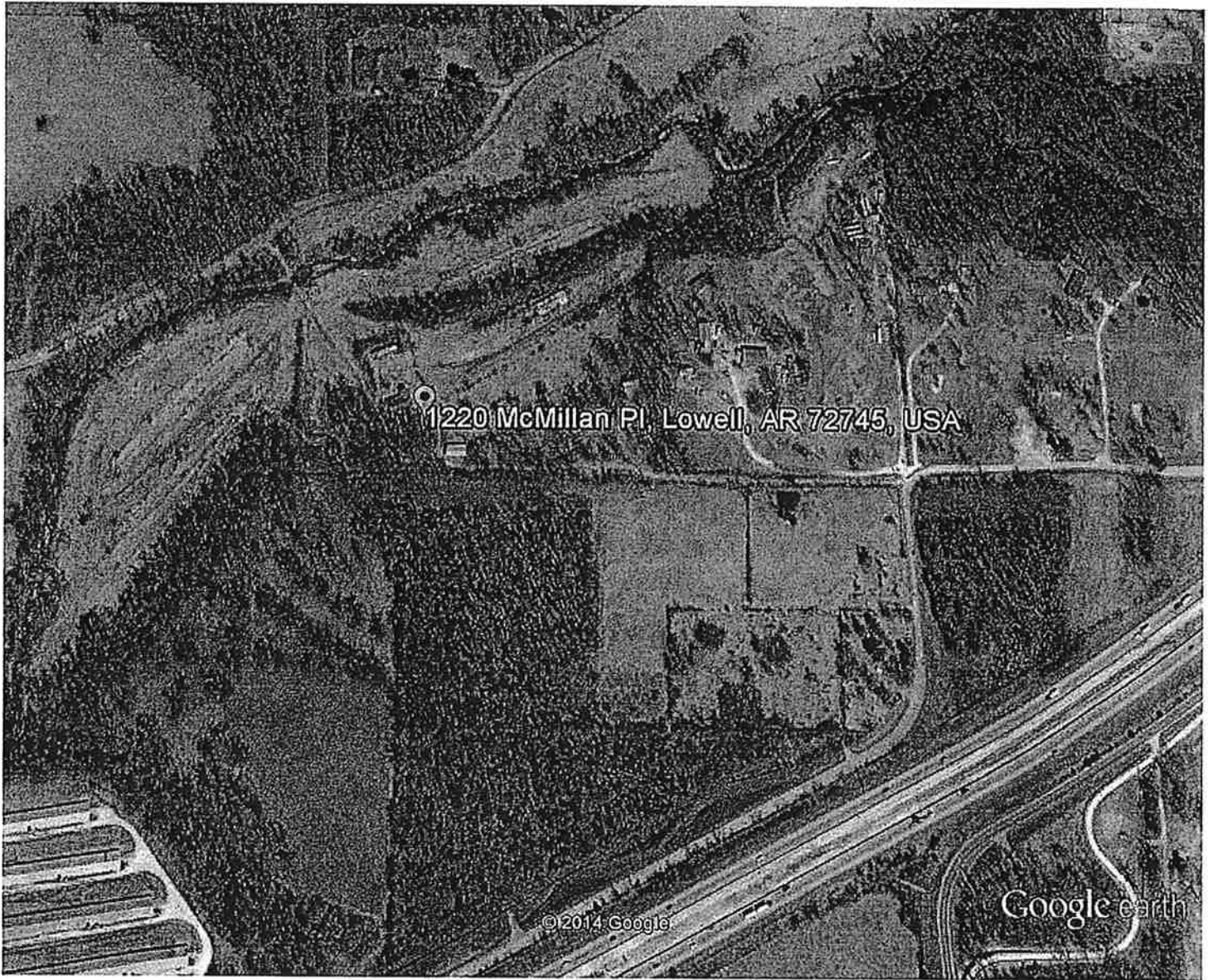
Leslie Crisp
Analyst

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



Google earth



Tract 173X
1220 McMillan Place
Lowell, AR 72745



Google earth



Tract 173X
1220 McMillan Place
Lowell, AR 72745

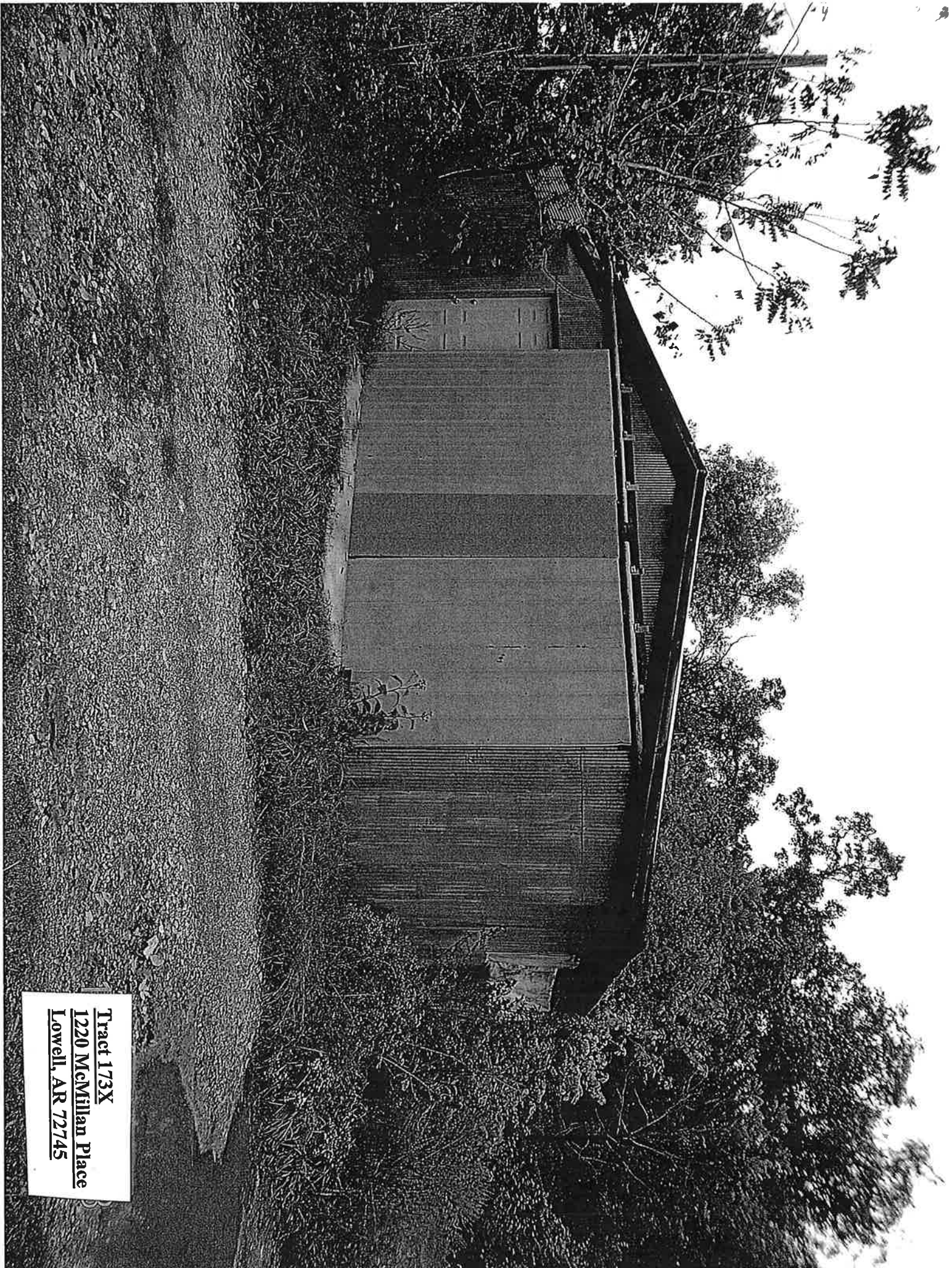
(Closer view)



Tract 173X
1220 McMillan Place
Lowell, AR 72745



15-10-2013



Tract 173X
1220 McMillan Place
Lowell, AR 72745



Tract 173X
1220 McMillan Place
Lowell, AR 72745

INSPECTION FLOOR PLAN

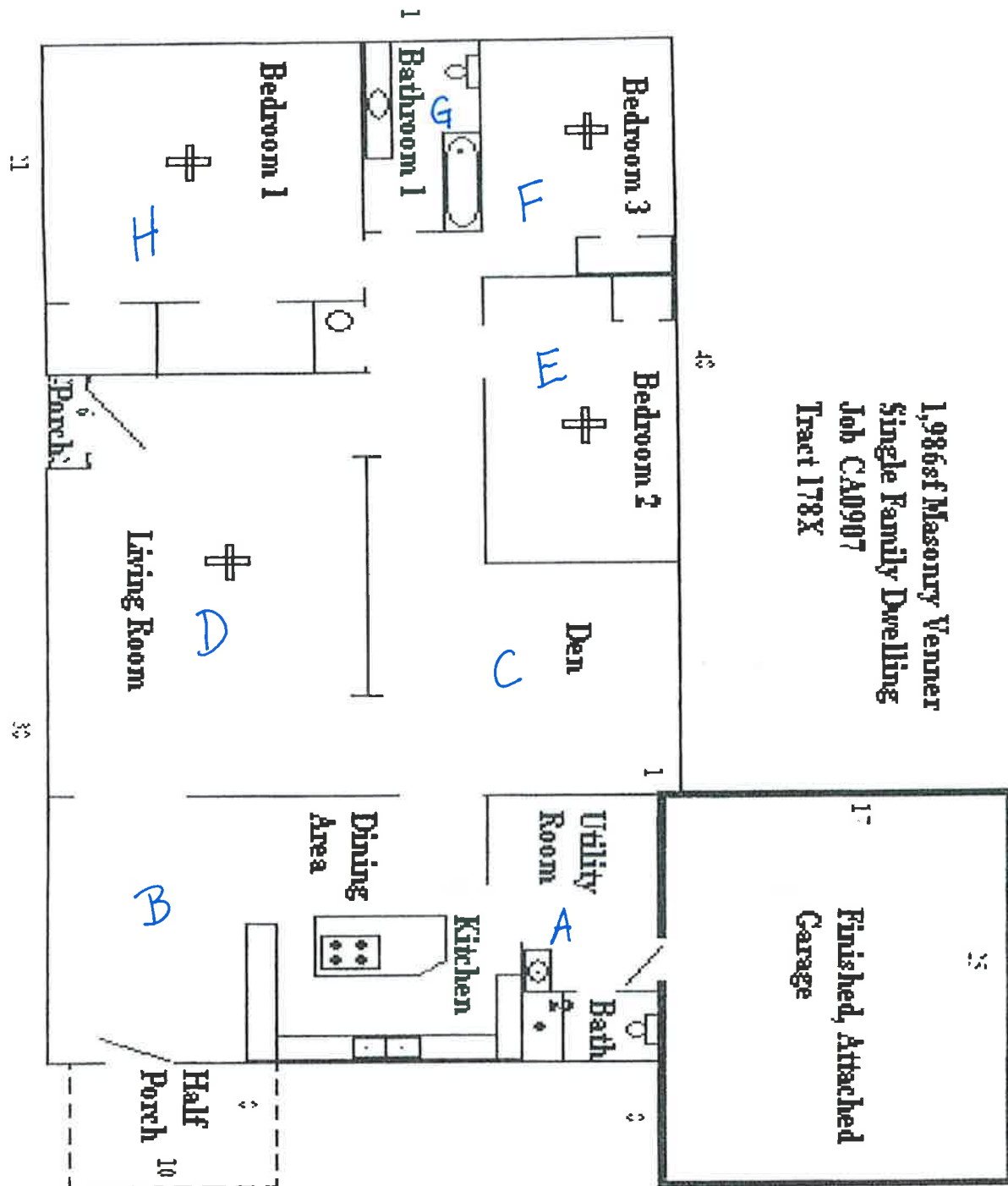
JOB: 001966
 TRACT: 178 X
 DATE: 10/4/2013

PROPERTY LOCATION
 1-S-Brick Dwelling
 7745 West Miller Road
 Lowell, AR 72745

INSPECTED BY
 Joel Clark (001518)
 20 Yrs. Old

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

Homogenous Areas:	
Roofing	Composite Shingle
Siding	Brick
Ceilings	Sheet Rock;Fiber Tiles
Walls	Sheet Rock; Wood Paneling/Stud
Floors	Carpet/ Hardwood





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# 19120214
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. # :	Job # 001966
Send Reports to:	Joeld.Clark@arkansashighways.com Sherman.whittle@arkansashighways.com	Project Name:	Tract 178X 7745 West Miller Rd.
		Project Number:	Job # 001966 Springdale Bypass

Total # Samples Submitted: 9	Total # Samples to be Analyzed: 9	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>	<i>2 hour</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	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)
001966 Tr. 178X #1	Area (B) Ceiling	10/14/2013	
001966 Tr. 178X #2	Area (F) Ceiling	10/14/2013	
001966 Tr. 178X #3	Area (H) Wall	10/14/2013	
001966 Tr. 178X #4	Area (C) Wall	10/14/2013	
001966 Tr. 178X #5	Area (A) Floor	10/14/2013	
001966 Tr. 178X #6	Area (A) Floor	10/14/2013	
001966 Tr. 178X #7	Area (G) Floor	10/14/2013	
001966 Tr. 178X #8	Area (G) Floor	10/14/2013	
001966 Tr. 178X #9	Roofing	10/14/2013	
#10			

Custody Information:

Samples relinquished:

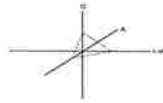
Joel Clark 10/24/13 2:57pm
Signature / Date / Time

Samples received:

[Signature] 10/25/13
Signature / Date / Time
C: 2577

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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: Job#001966 , Tract 178X 7745 West Miller Rd
Reference #: CAL131010214NT Date: 10/29/13

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

Overview of Project Sample Material Containing Asbestos

Customer Project:	Job#001966 , Tract 178X 7745 West Miller Rd		CA Labs Project #:	CAL131010214NT
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
001966 Tr. 178X #3	3-1	Area (H) Wall/ tan surfaced white compound	2% Chrysotile	tan surfaced white compound white compound (beneath tape)
	3-2	white compound (beneath tape)	2% Chrysotile	
001966 Tr. 178X #4	4-1	Area (C) Wall/ tan surfaced white compound	2% Chrysotile	
	4-2	white compound (beneath tape)	2% Chrysotile	

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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:
Job#001966 , Tract 178X 7745
West Miller Rd
Turnaround Time:
3 Day

CA Labs Project #:
CAL131010214NT
Date: 10/29/13
Samples Received: 10/25/13 10:30am
Date Of Sampling: 10/14/13
Purchase Order #: Job#001966

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
001966 Tr. 178X #1		1-1	Area (B) Ceiling/ white surfaced white compound	n	None Detected		100% mi,bi,ca
		1-2	white drywall with brown paper	n	None Detected	24% ce	76% qu,gy
001966 Tr. 178X #2		2-1	Area (F) Ceiling/ white surfaced white compound	n	None Detected		100% mi,bi,ca
		2-2	white drywall with brown paper	n	None Detected	20% ce	80% qu,gy
001966 Tr. 178X #3		3-1	Area (H) Wall/ tan surfaced white compound	n	2% Chrysotile		98% mi,bi,ca
		3-2	white compound (beneath tape)	y	2% Chrysotile		98% mi,ca
		3-3	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	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: Job#001966 , Tract 178X 7745
West Miller Rd
Turnaround Time: 3 Day

CA Labs Project #: CAL131010214NT
Date: 10/29/13
Samples Received: 10/25/13 10:30am
Date Of Sampling: 10/14/13
Purchase Order #: Job#001966

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
001966 Tr. 178X #4		4-1	Area (C) Wall/ white compound	n	2% Chrysotile		98% mi,bi,ca
		4-2	white compound (beneath tape)	y	2% Chrysotile		98% mi,ca
		4-3	white drywall with brown paper	n	None Detected	22% ce	78% qu,gy
001966 Tr. 178X #5		5-1	Area (F) Floor/ tan linoleum	y	None Detected	23% ce	77% bi
		5-2	tan mastic	y	None Detected		100% mi,ma
001966 Tr. 178X #6		6-1	Area (F) Floor/ tan linoleum	y	None Detected	26% ce	74% bi
		6-2	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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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	

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Keith Malone
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

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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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CA Labs Project #:
 CAL131010214NT
Date: 10/29/13
Samples Received: 10/25/13 10:30am
Date Of Sampling: 10/14/13
Purchase Order #: Job#001966

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
001966 Tr. 178X #7		7-1	Area (G) Floor/ tan vinyl tile	y	None Detected		100% bi
001966 Tr. 178X #8		8-1	Area (G) Floor/ tan and black patterned vinyl tile	n	None Detected		100% bi
		8-2	tan mastic	y	None Detected		100% mi,ma
001966 Tr. 178X #9		9-1	Roofing/ black sealant	y	None Detected		100% qu,bi
		9-2	black shingle with brown gravel	n	None Detected	21% fg	79% qu,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.

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

Approved Signatories:



Keith Malone
 Analyst



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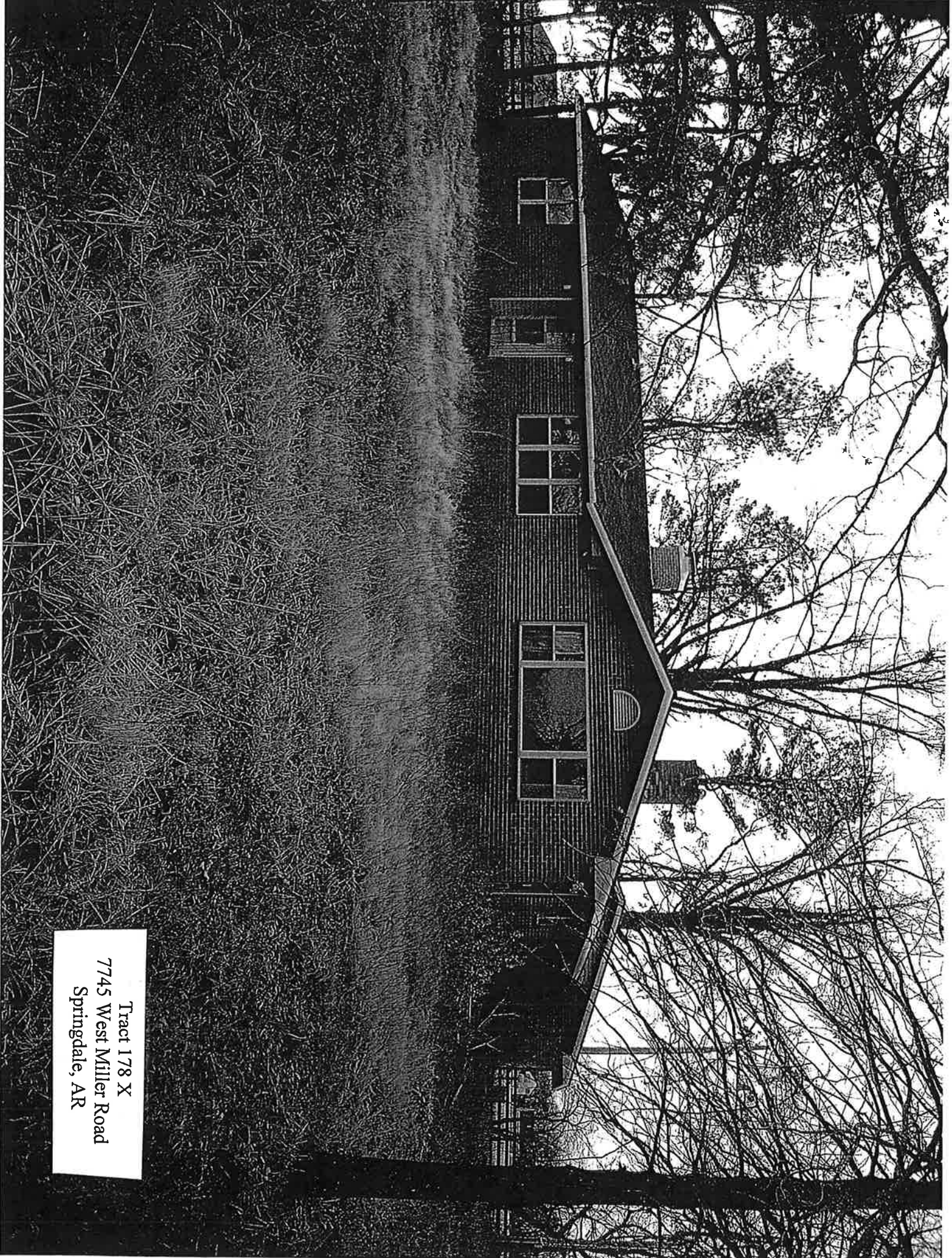
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested



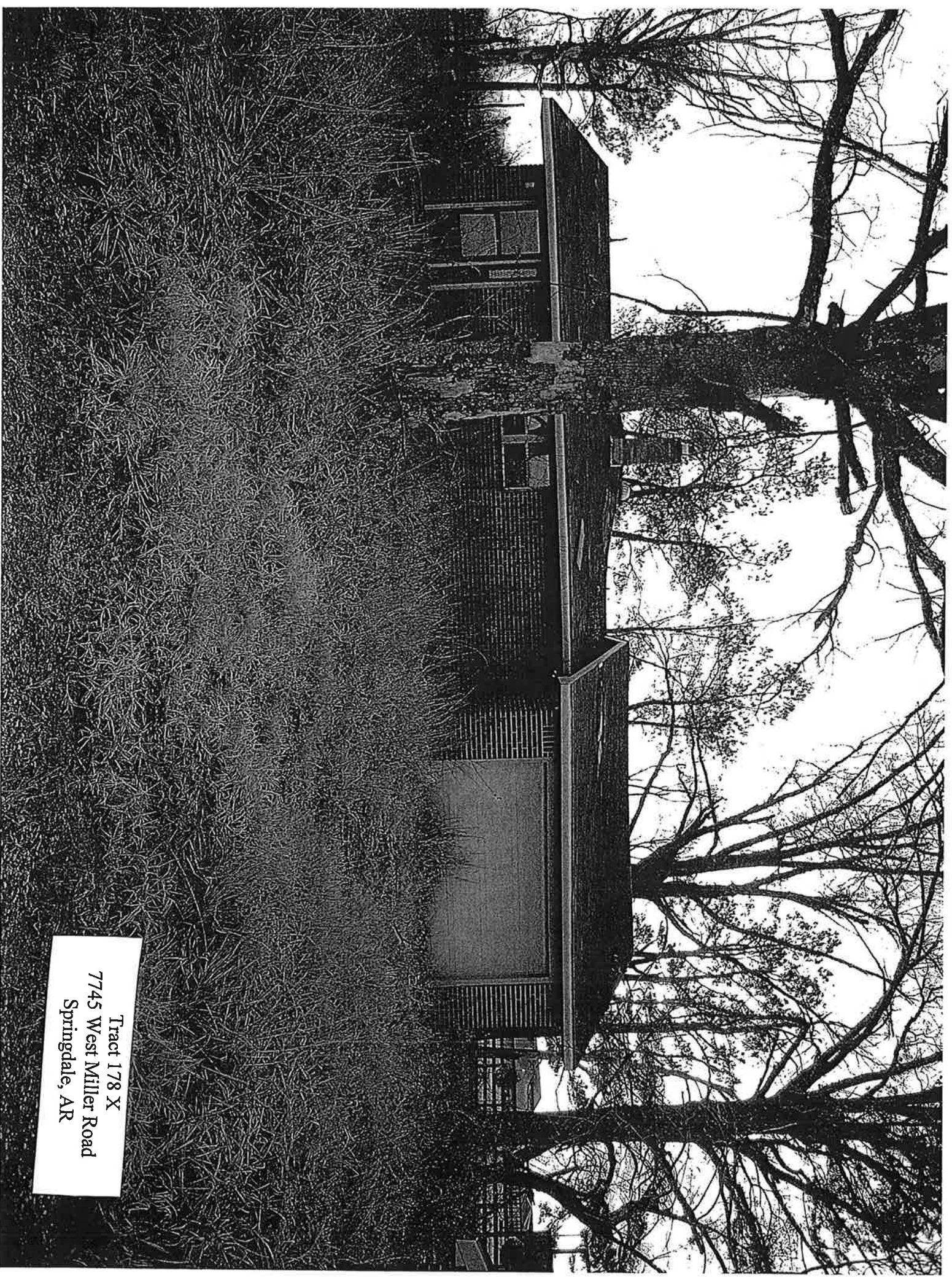
Google earth



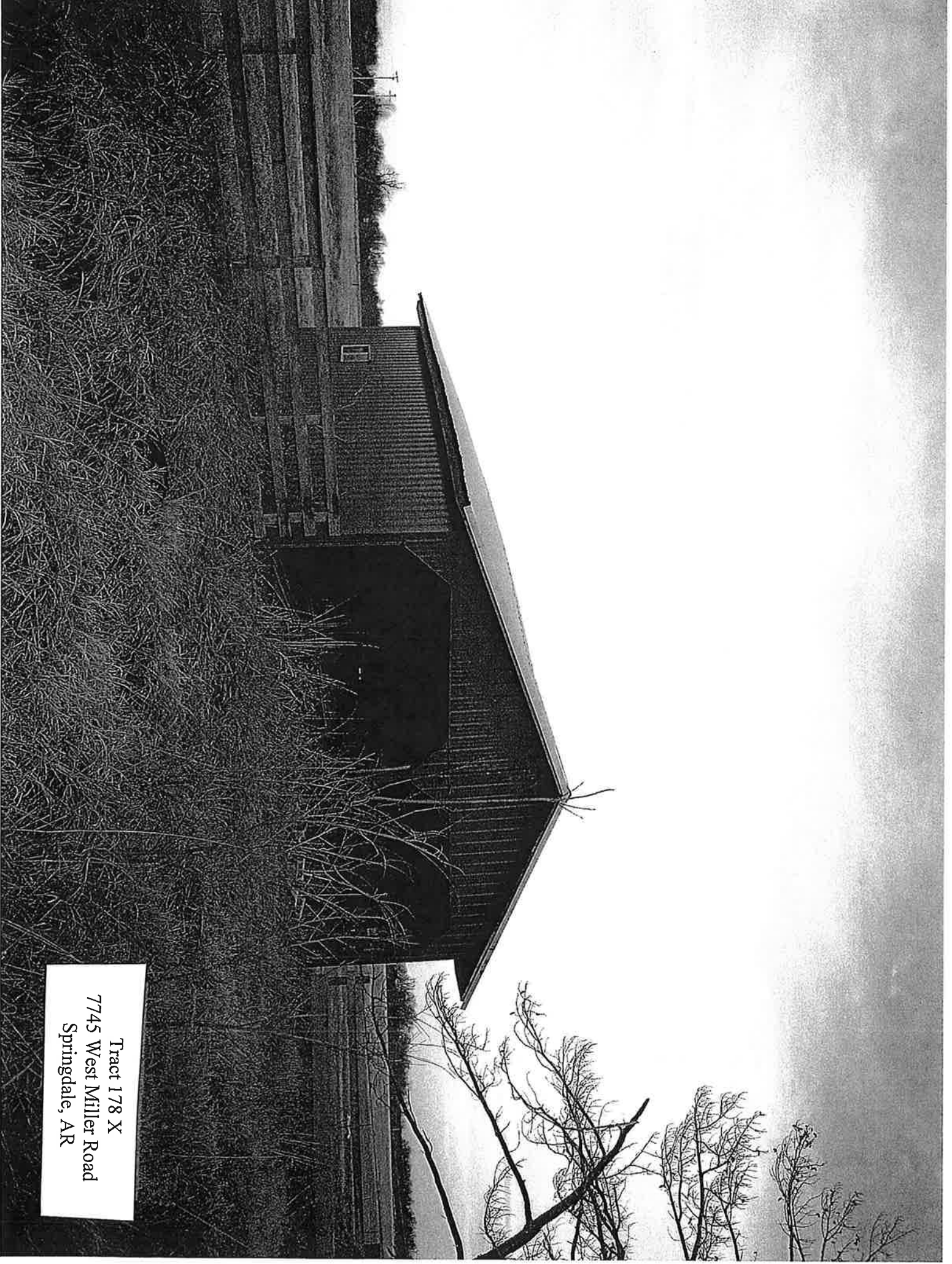
Tract 178 X
7745 West Miller Road
Springdale, AR



Tract 178 X
7745 West Miller Road
Springdale, AR



Tract 178 X
7745 West Miller Road
Springdale, AR



Tract 178 X
7745 West Miller Road
Springdale, AR

STANDARD RIGHT OF WAY SIGNS AND SYMBOLS

- | | | | |
|--|---|--|-------------------------------------|
| | SECTION CORNER | | RESIDENTIAL AND COMMERCIAL BUILDING |
| | QUARTER CORNER | | HEDGE ROW |
| | QUARTER QUARTER CORNER | | SMALL STREAM |
| | SECTION CENTER | | LARGE STREAM |
| | STATE LINE OR CITY LIMITS | | POND OR LAKE |
| | COUNTY LINE | | TELEPHONE POLES |
| | TOWNSHIP LINE | | POWER POLES |
| | SECTION, 1/4, OR 1/16 LINE | | TRANSMISSION LINES |
| | PROPERTY LINE | | TREES |
| | EXISTING R/W LINE | | DECIDUOUS WOODS |
| | PROPOSED R/W LINE | | EVERGREEN WOODS |
| | EXISTING CONTROL OF ACCESS | | SET AHTD R/W MONUMENT |
| | PROPOSED CONTROL OF ACCESS | | TEMPORARY EASEMENT POINT |
| | PROPOSED R/W AND CONTROL OF ACCESS | | PERMANENT EASEMENT POINT |
| | EXISTING R/W DIMENSION (FINE LINES) | | EXISTING R/W POINT |
| | PROPOSED R/W DIMENSION (HEAVY LINES) | | PROPERTY LINE POINT |
| | TEMPORARY & PERMANENT EASEMENT LINE | | FOUND MONUMENT |
| | EXISTING BRIDGE OR SEPARATION STRUCTURE | | SURVEY CALCULATED POINT |
| | PROPOSED BRIDGE OR SEPARATION STRUCTURE | | |
| | EXISTING CULVERT | | |
| | RAILROAD | | |
| | PAVED ROADS | | |
| | GRAVEL ROAD | | |
| | DRIVEWAY | | |
| | FENCE | | |
| | CONSTRUCTION LIMITS-BASED ON DESIGN CROSS SECTION | | |
| | LEVEE | | |
| | TRAIL | | |

"THIS IS A FULLY CONTROLLED ACCESS FACILITY"
 STATE OF ARKANSAS
 STATE HIGHWAY COMMISSION



RIGHT OF WAY MAP
U.S. HIGHWAY 412
 (SPRINGDALE NORTHERN BYPASS)

BENTON & WASHINGTON COUNTY

F.A.P: NH-9399(5)

ROUTE # SECTION #

JOB 001966

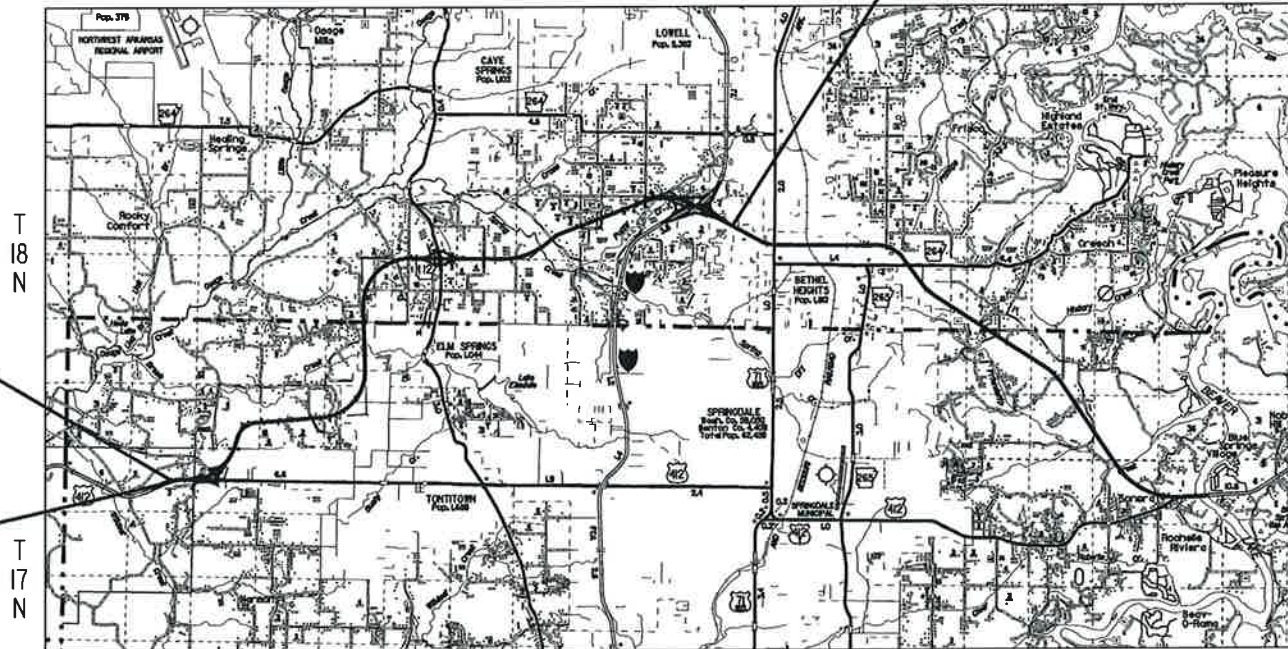
LAYOUT
 NOT TO SCALE

END CONST. JOB 001966
 STA. 757+54.70

001966

BEGIN R/W
 ACQ. JOB 001966
 STA. 152+58.55

BEGIN CONST.
 JOB 001966
 STA. 148+68.03



T-18-N; R-30-W

SW SE
18

SE SE
18

174

CONST. &
P.J.: 559-47.25
Δ: 39°36'21.4" LT.
D: 130'00"
T: 1375.41'
L: 2640.40'
R: 381972'

MATCH SHEET 45

MATCH SHEET 46

3	3/13/13	Added Tr. 178XR	RA	RA
2	2/7/13	Rev. Tr. Designation from Tr. 80X to Tr. 80; Added Tr. 178X; Rev. TP & ATA Tr. 80	AJR	RA
1	10-25-10	Rev. TP & ATA Tr. 80X; Added Tr. 174	RA	RA
NO.	DATE	DESCRIPTION	BY	CK'D
DATE:	10/2008	REVISIONS		
DESIGNED:	DNY	REVIEWED:	GAF	

WEST ELEMENTARY SCHOOL
SPRINGDALE SCHOOL DISTRICT

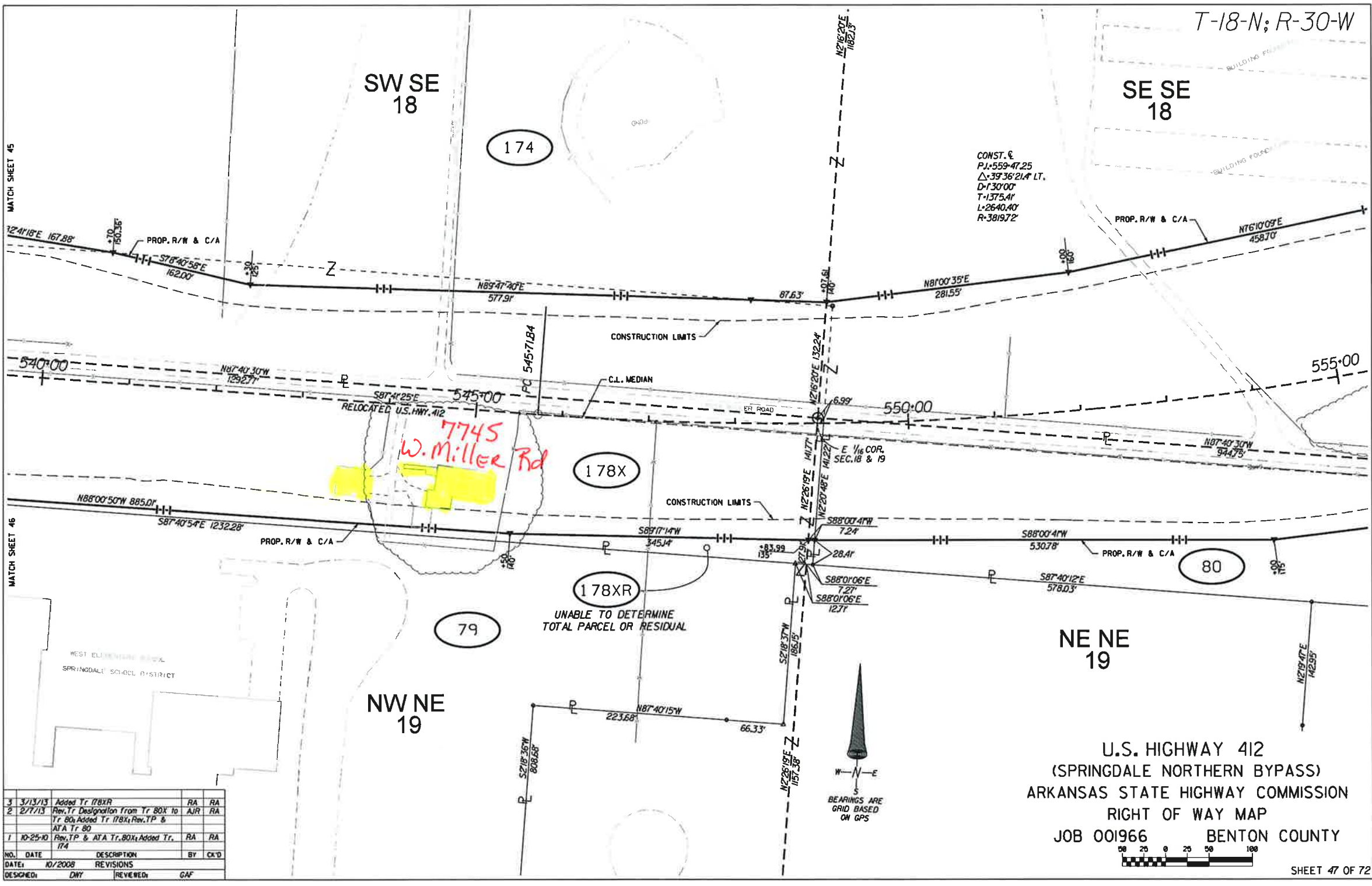
NW NE
19

NE NE
19

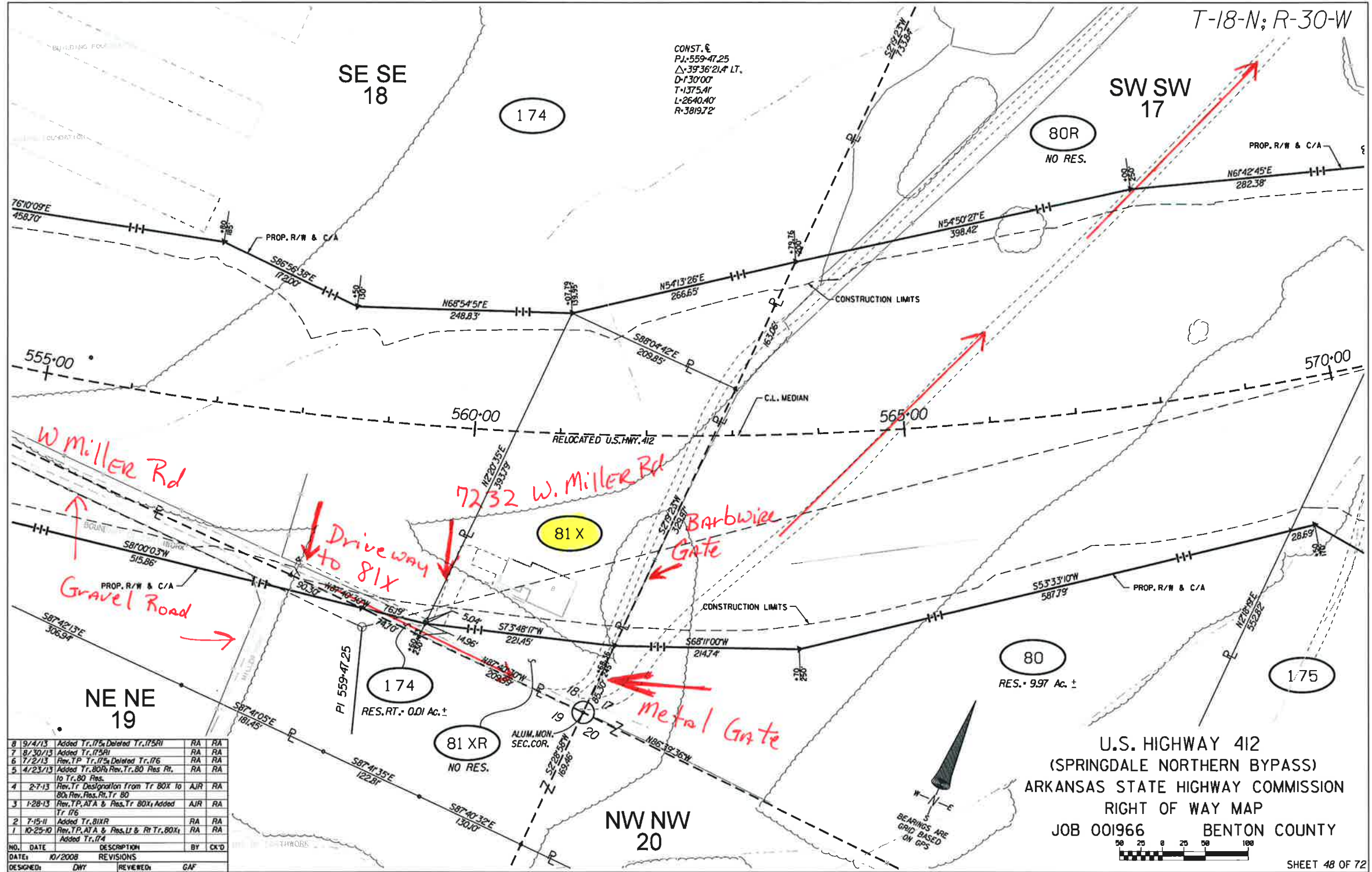
178XR
UNABLE TO DETERMINE
TOTAL PARCEL OR RESIDUAL

7745
W. Miller Rd

U.S. HIGHWAY 42
(SPRINGDALE NORTHERN BYPASS)
ARKANSAS STATE HIGHWAY COMMISSION
RIGHT OF WAY MAP
JOB 001966 BENTON COUNTY



T-18-N; R-30-W



CONST. &
 P.I. 559-47.25
 Δ: 39°36'21.4" LT.
 D: 130'00"
 T: 1375.41'
 L: 2640.40'
 R: 3819.72'

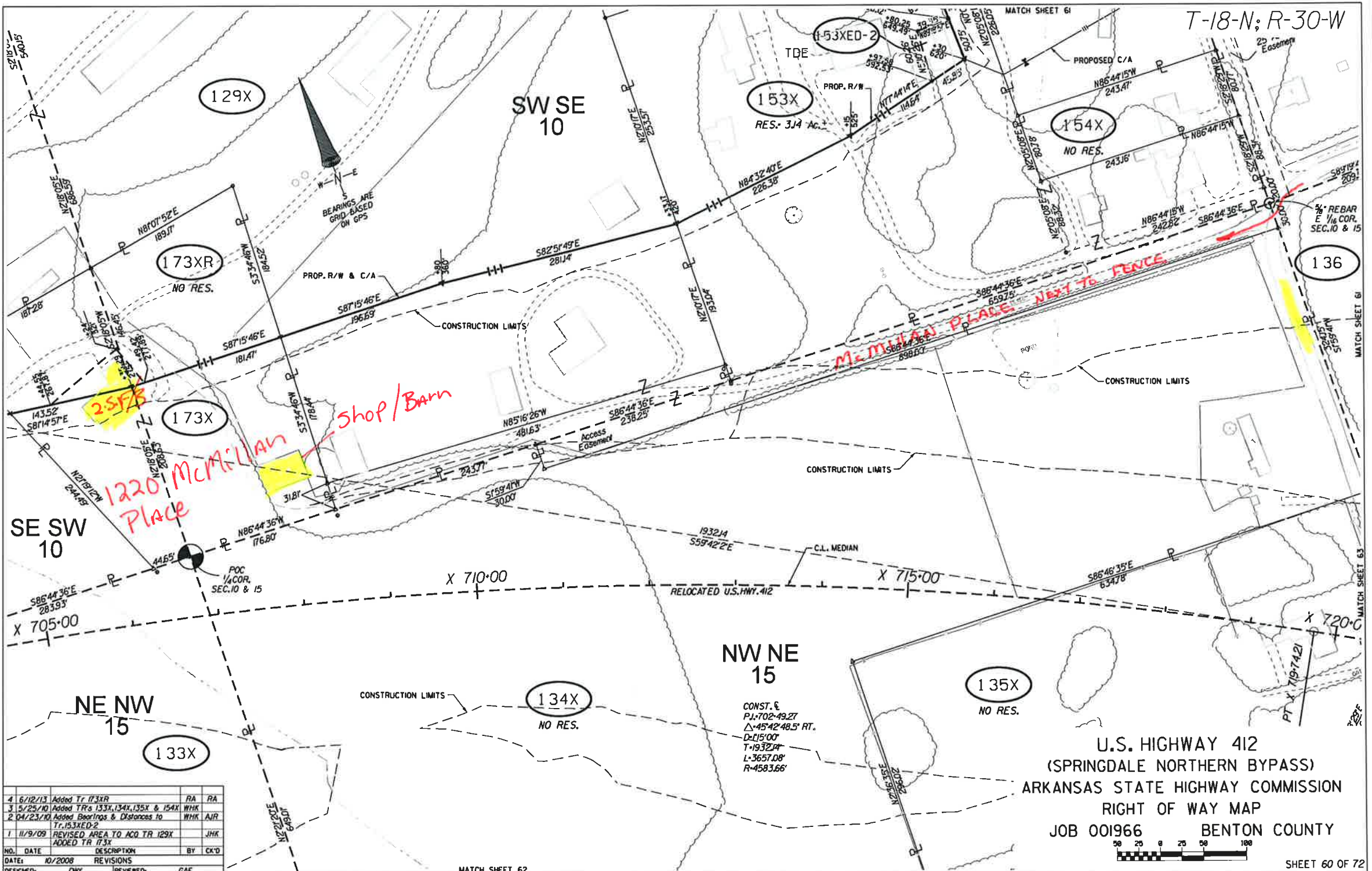
NO.	DATE	DESCRIPTION	BY	CK'D
8	9/4/13	Added Tr. 175 Deleted Tr. 175R1	RA	RA
7	8/30/13	Added Tr. 174R1	RA	RA
6	7/2/13	Rev. TP, Tr. 175 Deleted Tr. 175	RA	RA
5	4/23/13	Added Tr. 80R Rev. Tr. 80 Res. Pt. to Tr. 80 Res.	RA	RA
4	2-7-13	Rev. Tr. Designation from Tr. 80X to 80R Rev. Res. Pt. Tr. 80	AJR	RA
3	1-28-13	Rev. TP, ATA & Res. Tr. 80X; Added Tr. 176	AJR	RA
2	7-15-11	Added Tr. B1XR	RA	RA
1	10-29-10	Rev. TP, ATA & Res. Lt & Rt Tr. 80X; Added Tr. 174	RA	RA

NO.	DATE	DESCRIPTION	BY	CK'D
DESIGNED:	DWT	REVISIONS:	GAF	

U.S. HIGHWAY 412
 (SPRINGDALE NORTHERN BYPASS)
 ARKANSAS STATE HIGHWAY COMMISSION
 RIGHT OF WAY MAP
 JOB 001966 BENTON COUNTY



T-18-N; R-30-W



4	6/12/13	Added Tr 173XR	RA	RA
3	5/25/10	Added TR's 133X, 134X, 135X & 154X	WHK	WHK
2	04/23/10	Added Bearings & Distances to Tr. 153XED-2	WHK	AJR
1	11/9/09	REVISED AREA TO ACC TR 129X ADDED TR 173X	JHK	JHK
NO.	DATE	DESCRIPTION	BY	CK'D
DATE:	10/2008	REVISIONS		
DESIGNED:	DWT	REVIEWED:	GAF	

CONST. &
P.J. 702-49.27
Δ-45°42'48.5" RT.
D=15'00"
T=1932.74'
L=3657.08'
R=4583.66'

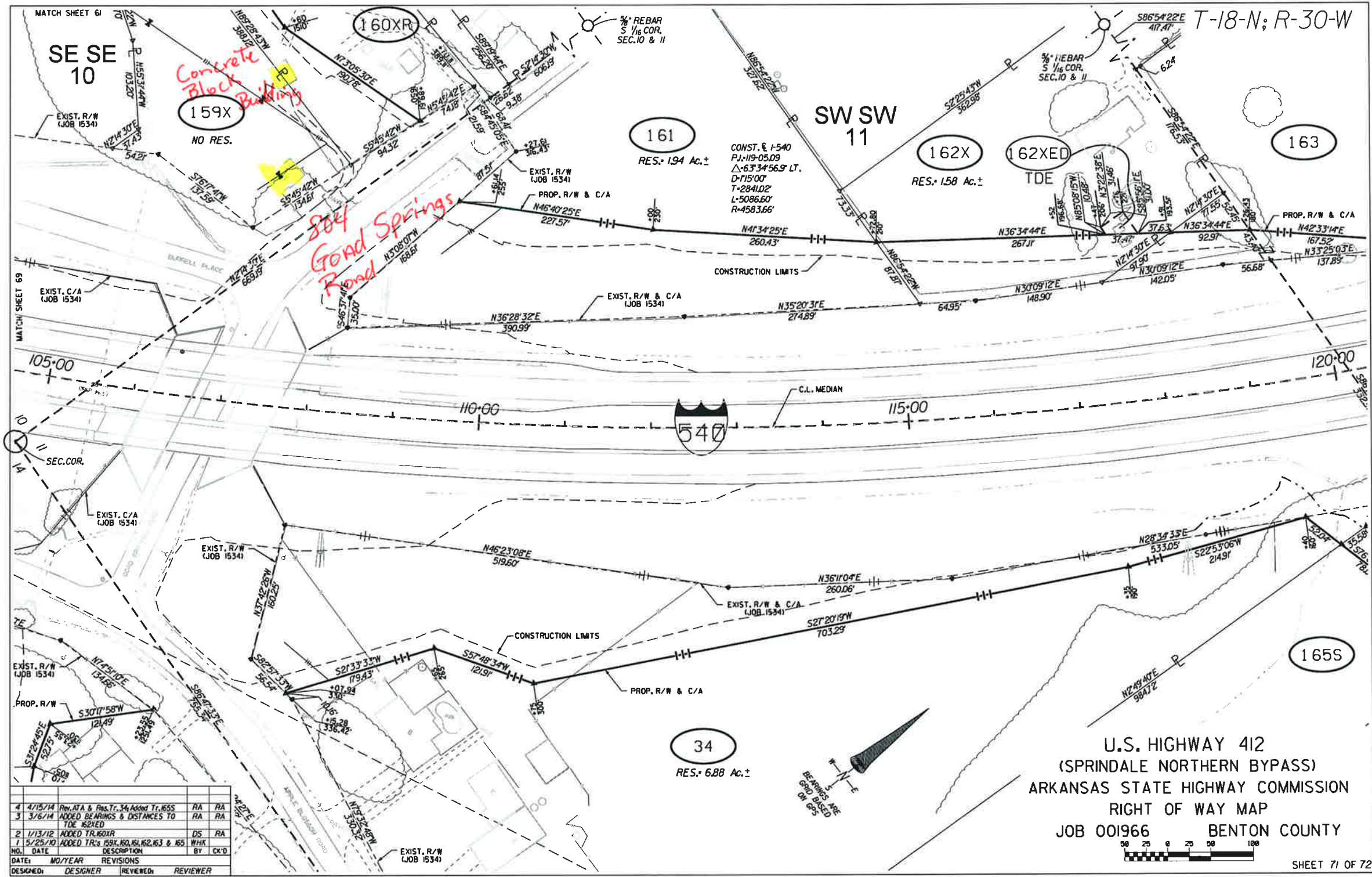
U.S. HIGHWAY 42
(SPRINGDALE NORTHERN BYPASS)
ARKANSAS STATE HIGHWAY COMMISSION
RIGHT OF WAY MAP
JOB 001966 BENTON COUNTY



MATCH SHEET 62

SHEET 60 OF 72

T-18-N; R-30-W



U.S. HIGHWAY 412
 (SPRINDALE NORTHERN BYPASS)
 ARKANSAS STATE HIGHWAY COMMISSION
 RIGHT OF WAY MAP
 JOB 001966 BENTON COUNTY



NO.	DATE	DESCRIPTION	BY	CHK'D
4	4/15/14	Rev. A1A & P1a, Tr. 34 Added Tr. 165S	RA	RA
3	3/6/14	ADDED BEARINGS & DISTANCES TO TDE 162XD	RA	RA
2	1/13/12	ADDED TR. 160XR	DS	RA
1	5/25/10	ADDED TR.'s 159X, 160, 161, 162, 163 & 165	WHK	
REVISIONS				
DATE:	MO/YEAR	DESIGNER	REVIEWER	