



Rod R. Blagojevich
Governor

CAPITAL DEVELOPMENT BOARD



"The State's Construction Management Agency since 1972"

Project Manual Workbook for Asbestos, Lead, UST & PCB April 2004

Anthony Rossi,
Executive Director

Illinois Capital Development Board
3rd floor, Wm. G. Stratton Building
401 South Spring Street
Springfield, IL 62706-4050
217-782-2865

Board Members: *Glyn Ramage, Acting Chairman • Joby H. Berman
• Mark J. Ladd • Anthony Licata*

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Article 1 PROJECT MANUAL WORKBOOK FOR ASBESTOS, LEAD, UST & PCB

1.1 General. This workbook has been prepared for use with the current edition of the “Standard Documents for Construction” (SDC) and either the “Design & Construction Manual” or the “A/E Manual.”

1.2 Material Included. This manual/workbook contains instructions, forms and guide specification sections. Guide specification sections included are the minimum requirements for the preparation of the specific Project Manual sections. However, other portions of this workbook, including instructions, are mandatory.

Instructions to the A/E have been expanded for each of the sections and reference the Associated Regulatory Requirements.

1.3 CDB’s Web Site. Most CDB documents, forms and publications are available at CDB’s web site (www.cdb.state.il.us).

Article 2 ASBESTOS PROJECTS

2.1 General. Asbestos abatement requires compliance with regulatory requirements and the use of Illinois Department of Public Health (IDPH) licensed personnel. Each A/E shall comply with the following procedures if asbestos is encountered.

2.2 Administration.

A. CDB shall assign a Project Manager (PM) for all abatement projects. The PM’s will coordinate with the A/E, CDB staff and the User for asbestos projects including inspections, sampling, management plan and abatement design required for remodeling/rehabilitation projects.

B. The A/E shall design the abatement of asbestos (ACBM) to minimize asbestos exposure to all individuals involved in the project. This includes building occupants, contractors, employees, and A/E staff.

If an A/E encounters asbestos during a routine remodeling project and the A/E does not employ licensed staff as described above, the A/E shall contract with a CDB prequalified firm to provide the necessary asbestos abatement services. Separate project numbers and accounts may be assigned by CDB for the asbestos portion of the work.

C. All bulk samples for analysis shall be collected by IDPH-licensed Building Inspectors. All inspection, sampling and management planning services shall comply with the A/E Manual of Procedures for Asbestos Inspections and Management Plans (Asbestos Protocol).

D. The State of Illinois will indemnify all contractors (including A/E’s) involved in asbestos work.

2.3 Design Criteria

- A. Rules and regulations for asbestos abatement promulgated by the IDPH shall be used for asbestos abatement: Rules for Asbestos Abatement for Public and Private Schools and Commercial and Public Buildings (77 Ill. Admin. Code 855, Subpart E). This includes the same format for abatement Completion Reports [855.170(a)(5)] (APM Report). Variances shall be approved in writing by CDB (and IDPH, if the project involves elementary or secondary schools) with the following exceptions:
1. All projects not under IDPH jurisdiction shall utilize a dual role APM/ASP unless otherwise directed by CDB.
 2. All tent enclosures shall require a minimum 6-hour hang time.
 3. All floor tile and floor tile mastic abatement projects not under IDPH jurisdiction shall utilize a single layer of poly sheeting on wall surfaces, unless otherwise directed by CDB.
 4. All projects not under IDPH jurisdiction shall utilize PCM clearance, unless otherwise directed by CDB.
 5. All projects which involve demolition of an unoccupied facility shall follow applicable IEPA & NESHAP regulations.
 6. All non-friable, floor tile abatement projects not under IDPH jurisdiction shall require a specific variance from CDB. CDB will require engineering controls during abatement, area air monitoring, clearance air monitoring and notification of all non-friable projects.
 7. The APM Final Report shall include documentation of medical clearance for all supervisors, workers and the APM/ASP.
- B. All asbestos abatement work will be performed using appropriate respiratory protection in accordance with applicable OSHA regulations (29 CFR 1910.134; 29 CFR 1910.1001; 29 CFR 1926.103 and 29 CFR 1926.1101).

2.4 Preliminary Design Phase

- A. For an asbestos abatement project, the A/E's Preliminary Design Phase Services are modified as follows. Whenever Inspection and sampling has not previously occurred, the A/E shall provide inspection and sampling prior to the preliminary design. The documents shall be prepared in accord with CDB's *A/E Manual of Procedures for Asbestos Inspections and Management Plans*.
- B. A Management Plan may be required if all of the identified asbestos is not removed during construction.

2.5 Bidding Documents Phase

- A. CDB has developed guide specifications sections, edited versions of which may be used as appropriate by the A/E on abatement projects.
- B. The A/E shall coordinate with the building user to determine when abatement may occur.
- C. CDB and the A/E shall coordinate the contracting method; options include a separate abatement contractor (not assigned) or a separate project for abatement work.
- D. Any variance request must be approved in writing by CDB, and IDPH when applicable, prior to being incorporated in the plans and specifications by the A/E.

2.6 Construction Phase

- A. The A/E shall provide an Asbestos Project Manager/Air Sampling Professional (APM/ASP) whose full-time responsibility during construction shall be monitoring the contractor's methods and procedures to ensure all specified rules and regulations for abatement are followed. The APM/ASP shall be licensed as defined in the IDPH Rules and Regulations.
- B. The Asbestos Project Manager/Air Sampling Professional (APM/ASP) shall be inside containment a minimum of two hours each half day of work. The APM/ASP may spend additional time in containment whenever air sampling indicates higher than normal fiber counts, or during cleaning periods prior to final clearance to verify all ACM has been properly removed. Failure of the APM/ASP to comply with the above will result in a decrease in the payment to the A/E for the APM/ASP services.
- C. The A/E will submit copies of the APM FINAL REPORT to the Contractor, CDB, IDPH (when applicable) and two copies to the Using Agency within 60 days of final clearance testing. All APM Final Reports shall be submitted in electronic .pdf format.
- D. Required Air Sampling:
 - 1. Maximum of seven (7) samples/day per contained work area which includes: two (2) inside work area, two (2) outside work area, one (1) at the negative air, one (1) field blank, one (1) lab blank for 02082 projects. All OSHA samples are the contractors responsibility (for AHERA follow IDPH rules).
 - 2. Maximum of three (3) samples for glovebag tent enclosures.

- 3. Non friable projects:
 - a. representative sample of worker exposure.
 - b. minimum one day for each work activity.

- E. All air monitoring is to be conducted as per IDPH Rules and Regulations.

- F. Air monitoring procedures for glovebag removal is to be conducted following IDPH Section 855.480 of IDPH Rules and Regulations.

- G. Personal air monitoring for CDB Projects is the contractors' responsibility under OSHA Regulations. Only projects under IDPH jurisdiction will have personal sampling performed as part of CDB's responsibility.

2.7 Attachments.

- A. Section 02081 - Minor Demolition for Non-friable Asbestos Removal
- B. Section 02082 - Asbestos Abatement
- C. Section 02083 - Minor Demolition for Non-friable Asbestos Roof Removal
- D. Asbestos Abatement Estimate Outline Form (Capital Development Board)
- E. Asbestos Abatement Project Summary (Asbestos Litigation Division, Attorney Generals Office)
- F. APM Report Requirements

(*USE ONLY FOR NON-AHERA PROJECTS)

1. GENERAL

1.1 WORK INCLUDES

- A. Base Bid: Asbestos Abatement Contractor:
 - 1. Remove and dispose of designated non-friable asbestos-containing materials (ACM).
- B. By Others:
 - 1. A/E - Provide Air Monitoring
 - 2. A/E - Sign Waste Shipment Record for Owner

1.2 RELATED WORK SPECIFIED ELSEWHERE

- A. (*Specify as appropriate).

1.3 REGULATORY REQUIREMENTS

- A. The Illinois Response Action Contractor Indemnification Act, as amended (415 ILCS 100/2 et seq.).

NOTE: This contractor is considered a Response Action Contractor. The (* A/E must specify) is to be considered the asbestos portion of the contract. CDB (*will/will not) withhold 5% of the amount stated on the Bid Form for the asbestos portion of the contract for deposit in the Response Action Contractor Indemnification Fund.

- B. IDPH Rules and Regulations.
- C. Federal Requirements:
 - 1. NESHAP - National Emissions Standards for Hazardous Air Pollutants.
 - a. Notifications
 - b. Disposal
 - 2. OSHA - Occupational Safety and Health Administration, 200 Constitution Avenue, Washington, DC 20210.
 - a. Exposure Limits
 - b. Respiratory and Personal Protective Equipment.

1.4 EXISTING CONDITIONS

(*A/E describe conditions and include results of asbestos inspection.)

1.5 QUALITY CONTROL

A. AIR MONITORING

1. Air monitoring will be conducted by an independent air sampling professional (ASP) employed by the A/E to ensure that no employee is exposed to an airborne concentration of asbestos in excess of the OSHA limits of 0.1 f/cc [8-hour time weighted average permissible exposure limit (PEL)] or 1.0 f/cc [30-minute Excursion Limit (EL)].
2. (The A/E must determine if the ventilation system must remain in operation during the removal. If so,) (* Two air samples shall be taken within the ventilated area. If any of the air samples taken indicate an air-borne asbestos fiber level above 0.1 f/cc and the initial background levels, the contractor shall stop work, clean the area by wet wiping. The ASP shall then retest the area taking a minimum of two air samples. After all samples fall below 0.1 f/cc, work may resume.)
3. If the initial air monitoring reveals that employee exposure is below the permissible exposure limit and excursion limit, sampling will be discontinued. Air sampling will be resumed any time the method of removal changes or power equipment is used in the removal process.

1.6 SUBMITTALS

- A. Complete contractor's information in sections 3, 4, 5, 7, 13, 14, 15, 17, 18 and 19 of the State of Illinois Asbestos Project Notification form included in Article 3.4.A. Ensure notification is postmarked or hand delivered to IEPA and USEPA at least ten working days prior to the start of any construction.
 1. Dale Halford
Illinois EPA
Division of Air Pollution
P.O. Box 19276
Springfield, IL 62794-9276
(217) 785-1743

2. IDPH Asbestos Program
525 West Jefferson Street
Springfield, IL 62761
(217) 782-3517
 3. Rudolph Trejo
Cook County Department of Environmental Control
69 West Washington Street, suite 1900
Chicago, IL 60602-3004
(312) 603-8200
- B. Submit a copy of the State of Illinois EPA notification form to the CDB Project Manager prior to the start of abatement.
- C. Submit proposed tools and methods to be used for removal. Use of powered tools, or high speed abrasive disc saws must be approved by the A/E and must be equipped with engineering controls which eliminate dust.

2. PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS/PRODUCTS (*Specify a minimum of 3 manufacturers for each product, i.e., wetting agents, mastic removers, etc. Include product name. This listing is not exclusive.)

- A. *Wetting agent.
- | | | |
|----|-----------------------------|--------------|
| 1. | Better Working Environments | Super Wet |
| 2. | Certified Technologies | Certane 2075 |
| 3. | Eppert Oil Co. | Speedi-Wet |
| 4. | Foster Products Corp | 32-90 |
- B. *Combination wetting agent - encapsulant.
- | | | |
|----|-----------------------------|-------------|
| 1. | Better Working Environments | 5000 |
| 2. | Certified Technologies | Certane 707 |
| 3. | Eppert Oil Co. | Fiber-Seal |
| 4. | Foster Products Corp | 32-60 |
- C. *Mastic remover. (Note - mastic removers must have a flash point greater than 200°F and a lower explosive limit greater than 5%.)
- | | | |
|----|------------------------|-----------------|
| 1. | Abatement Technologies | Citrus 200 Plus |
| 2. | Certified Technologies | Certane 77B |
| 3. | Eppert Oil Co. | 200 or A |
| 4. | Sentinel Chemical Co. | 7200 |

3. EXECUTION

3.1 PREPARATION

- A. Protect existing items not indicated to be demolished.
- B. Shut down ventilation system and protect ventilation system intakes and diffusers by covering with one layer of 6-mil poly.
- C. Isolate remainder of building by constructing 6-mil poly 2 flap doorway.
- D. Restricted Area:
 - 1. Establish a restricted area in all work areas where non-friable ACM materials are to be removed. Post and limit access to the restricted areas to authorized persons.
 - 2. Allow no eating, drinking, smoking, tobacco or gum chewing, or application of cosmetics.

3.2 RESPIRATORS

- A. Upon request of the worker, the contractor shall provide the worker with a respirator and protective clothing.
- B. Whenever respirators are used, provide evidence of worker training, respirator fit testing, medical surveillance programs and written respiratory protection program.

3.3 NON-FRIABLE ASBESTOS REMOVAL

- A. Cooperate with A/E in conducting air sampling.
- B. Cease work and change work methods when advised that air quality samples exceed OSHA limits.
- C. Apply wetting agent - encapsulant and remove all designated material in a careful manner to minimize breaking.
- D. Removal: (*Specify as appropriate)
 - 1. Asbestos Floor Tile Removal Methods.
 - a. (*Small Areas)

1. Heat - (*This procedure is applicable for small areas or single tiles). Apply heat. Lift tile with wide blade putty knife. Heat mastic and scrape away excess or the mastic shall be removed using chemical methods.
2. Dry Ice - (*This procedure is applicable for small areas). CAUTION: thermal gloves are required for handling the dry ice. Apply dry ice over tile to be removed. Popping sound indicates loosening of tile. Continue as required. Remove mastic with heat as above.

b. (*Large Areas)

1. Water - (*This procedure is applicable for larger areas but may not be appropriate for floors with wood or porous/cracked concrete substrates.) Prepare water by adding wetting agent. Spray on area until heavy coverage occurs. Cover with plastic for 8 to 24 hours. Check for looseness. If not loose apply more water and recover for 4 to 8 hours. When loose, raise tile with wide putty knife or long handled scraper using care not to break tiles. Remove mastic using heat, mastic remover, or shot blasting equipment equipped with H.E.P.A. vacuum.

- E. Adequately wet and bag or seal all ACM in two layers of 6 mil poly or lined fiber drums, to prevent breakage.
- F. Label all bags or containers containing asbestos debris as follows- (Fill in actual information.)
NAME OF BUILDING AND FACILITY
STREET ADDRESS
CITY, STATE. AND ZIP CODE
- G. Whenever trucks or dumpsters are being loaded or unloaded with asbestos waste, post signs in accord with the NESHAP STANDARD- DANGER, ASBESTOS DUST HAZARD, CANCER AND LUNG DISEASE HAZARD, AUTHORIZED PERSONNEL ONLY.
- H. Transport all waste to an IEPA approved landfill in an enclosed truck or dumpster. Complete a waste shipment record for each load of waste in accord with the NESHAP STANDARD. Return the record, signed by waste disposal site owner/operator to CDB PM within 10 working days after completion of project.

I. Upon completion of work, leave area in clean condition.

3.4 ATTACHMENTS

- A. IEPA's Notification of Renovation and Demolition form. (A/E complete all sections except those to be completed by the contractor. See Article 1.6.A.)
- B. State of Illinois Asbestos Abatement Project Notification Form. (A/E complete all sections except those to be completed by the contractor. See Article 1.6.A.)
- C. Bulk Sample Analysis (Form 11 of A/E Manual of Procedures for Asbestos Inspection and Management Plan).
- D. Variances approved.

END 02081.



REC. NO. _____

NOTIFICATION OF DEMOLITION AND RENOVATION

IL 532 1296

APC 430

Illinois Environmental Protection Agency

P.O. Box 19276, Springfield, IL 62794-9276

Rev.06/03

THIS INFORMATION IS REQUIRED; NESHAP-40CFR-SUBPART M-61.145, Rev. Nov. 20, 1990**ALL SECTIONS MUST BE COMPLETED TO AVOID NOTICE VIOLATION****1. TYPE OF NOTIFICATION** (O-Original/R-Revised/C-Canceled):**2. TYPE OF OPERATION** (R-Renovation/D-Demo/A-Annual/O-Ordered Demo/E-Emergency Renovation):**3. FACILITY DESCRIPTION** (Building Name):

Address:

City:

County:

State:

ZIP:

Location of Asbestos Containing Material (ACM) in structure:

Bldg. Size:

of Flrs.

Age:

Present Use:

Prior Use:

Future Use (Demo):

4. IS ASBESTOS PRESENT? Y N**5. WORK HOURS:***

a.m.

p.m.

6. SCHEDULED DATE DEMOLITION:

Start:

Complete:

7. SCHEDULED DATE ASBESTOS REMOVAL:

Start:

Complete:

8. REGULATED ASBESTOS CONTAINING MATERIAL TO BE REMOVED (RACM):**NONFRIABLE ASBESTOS NOT TO BE REMOVED (Demolition):****NONFRIABLE ASBESTOS TO BE REMOVED:**

CATEGORY I

CATEGORY II

CATEGORY I

CATEGORY II

Pipes (Ln. Ft.)

Surface Area (Sq. Ft.)

Volume (Cu. Ft.)

9. ASBESTOS REMOVAL CONTRACTOR:

Address:

City:

State, Zip:

Contact:

Phone:

10. DEMOLITION CONTRACTOR:

Address:

City:

State, Zip:

Contact:

Phone:

11. OWNER NAME:

Address:

City:

State, Zip:

Contact:

Phone:

12. WASTE TRANSPORTER:

Address:

City:

State, Zip:

Contact:

Phone:

13. WASTE DISPOSAL SITE:

Address:

City:

State, Zip:

Landfill Permit #:

Phone:

Date Received:

Input to ACTS:

-AGENCY USE ONLY-

To Region 1 2 3

Post Mark Date:

To Cook/City:

Champaign:

LaSalle:

Springfield:

Rockford:

Moline:

Marion:

14. PROCEDURE, INCLUDING ANALYTICAL METHOD, USED TO DETECT THE PRESENCE OF ASBESTOS.

ILLINOIS LICENSE NUMBER OF INSPECTOR:

NAME OF ANALYTICAL TESTING LABORATORY:

**15. DESCRIPTION OF PLANNED DEMOLITION OR RENOVATION WORK:
METHODS TO BE EMPLOYED INCLUDING DEMOLITION OR RENOVATION TECHNIQUES.**

16. DESCRIPTION OF WORK PRACTICES AND ENGINEERING CONTROLS TO BE USED TO PREVENT EMISSIONS AT THE DEMOLITION OR RENOVATION SITE:

17. IS DEMOLITION ORDERED BY A GOVERNMENTAL AGENCY? Y N (If Yes, a signed copy of Order must be attached.)

Governmental representative ordering the activity:

Title:

Date of Order:

Ordered Demolition Date:

18. FOR EMERGENCY RENOVATIONS:

Date and Hour of Emergency:

Description of the Sudden, Unexpected Event (e.g. structure in danger of eminent collapse):

19. DESCRIPTION OF PROCEDURES TO BE FOLLOWED IN THE EVENT THAT UNEXPECTED ASBESTOS IS FOUND OR PREVIOUSLY NONFRIABLE ASBESTOS MATERIAL BECOMES CRUMBLLED, PULVERIZED, OR REDUCED TO POWDER.

20. I CERTIFY THAT AT LEAST ONE REPRESENTATIVE, TRAINED IN THE PROVISIONS OF 40 CFR PART 61, SUBPART M, SHALL BE ON-SITE DURING DEMOLITION OR RENOVATION, HAVING IN HIS OR HER POSSESSION, FOR INSPECTION, EVIDENCE THAT THE REQUISITE TRAINING HAS BEEN ACCOMPLISHED.

I CERTIFY THE ABOVE INFORMATION IS CORRECT. _____

Signature of Owner/Operator Date
(Original Signature Only, Photocopy Not Valid)

A FILING FEE OF \$150 MUST BE PAID WITH EACH INITIAL 10-WORKING DAY NOTIFICATION REQUIRED BY THE ASBESTOS NESHAP. MAKE CHECKS PAYABLE TO ILLINOIS EPA AND MAKE NOTATION THAT IT IS FOR THE 10-WORKING DAY NOTIFICATION FEE. CASH AND CREDIT CARDS ARE NOT ACCEPTABLE. IF THE FEE IS NOT SUBMITTED WITH THE NOTIFICATION, THE NOTIFICATION WILL BE DEEMED IMPROPERLY FILED.

*Not required under NESHAPS.

Mail this form to: IL Environmental Protection Agency, Attn: Asbestos Unit, P.O. Box 19276, Springfield, IL 62794-9276

**STATE OF ILLINOIS
ASBESTOS ABATEMENT PROJECT
NOTIFICATION FORM**

Projects greater than 3 sq./ft. and/or 3 In.ft. and ALL school projects shall be submitted to IDPH.
Projects greater than 160 sq./ft. and/or 260 In./ft. and demolition projects shall be submitted to IEPA.

Date: _____
Revision # _____
Item Number(s) Revised _____
* If revision, complete below.
Fax #(217)785-5897(IDPH ONLY)

This form shall be used for all Original and Revised Notifications submitted to ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, ILLINOIS DEPARTMENT OF PUBLIC HEALTH AND COOK COUNTY DEPARTMENT OF ENVIRONMENTAL CONTROL.

TYPE OF NOTIFICATION: (O-Original/R-Revised/C-Cancelled/D-Demolition/RN-Renovation)

Circle type of building below. Notice will not be accepted unless one and only one type of project is circled above. (circle one)

Friable School Project Non-friable School Floor Tile Project Both Friable & Non-friable School Project CPB (Friable & Non-friable) Project

* Change being made by: Owner's Representative Contractor Owner Project Designer (circle one)

1. FACILITY INFORMATION

FACILITY NAME _____ School Bldg. ID # _____

LOCATION OF ASBESTOS CONTAINING MATERIALS (ACM) IN STRUCTURE:

BLDG. SIZE sqft # of Flrs. AGE PRESENT USE

PRIOR USE Future Use (Demo)

ADDRESS _____

CITY _____ COUNTY _____ ZIP _____

CONTACT PERSON _____ PHONE _____

2. SCHOOL DISTRICT/FACILITY OWNER

District Name & Number: _____

Address: _____ City: _____

State, Zip: _____ Contact: _____ Phone: _____

copies of abatement permission and written verification of notification to all building occupants and users from the building owner or school board shall be submitted for public and private school facilities as required by section 855.350 of the IDPH asbestos code.

3. ASBESTOS CONTRACTOR:

Address: _____ City: _____

State, Zip: _____ Contact: _____ Phone: _____

4. DEMOLITION CONTRACTOR:

Address: _____ City: _____

State, Zip: _____ Contact: _____ Phone: _____

5. ABATEMENT INFORMATION

IS ASBESTOS PRESENT? Y N

DESCRIPTION OF PLANNED DEMOLITION OR RENOVATION WORK

METHODS TO BE EMPLOYED INCLUDING DEMOLITION OR RENOVATION TECHNIQUES.

DESCRIPTION OF WORK PRACTICES AND ENGINEERING CONTROLS USED TO PREVENT EMISSIONS AT THE DEMOLITION OR RENOVATION SITE

6. REGULATED ASBESTOS CONTAINING MATERIAL TO BE REMOVED (RACM)

	NON-FRIABLE ASBESTOS NOT TO BE REMOVED (Demolition)		NON-FRIABLE ASBESTOS TO BE REMOVED		TOTAL ASBESTOS TO BE REMOVED	NESHAPS (please circle one)
	CAT I	CAT II	CAT I	CAT II		
Pipes (Ln ft.)						Y N
Surface Area (Sqft.)						Y N
Volume (Cuft)						Y N

7. ABATEMENT DATES AND TIME

SCHEDULED DEMOLITION DATE Start FINISH

PHASE PROJECT? Yes No START FINISH FROM TO

If yes, list the approximate dates & times of the phases START FINISH FROM TO

WORKING WEEKENDS? Yes No START FINISH FROM TO

8. PROJECT DESIGNER ID#: _____ NAME: _____

PROJECT DESIGNER LICENSE# AND NAME IF THIS PROJECT WAS DESIGNED BY DESIGNER

9. INSPECTOR: ID# _____ NAME: _____

10. PROCEDURE, INCLUDING ANALYTICAL METHOD, USED TO DETECT THE PRESENCE OF ASBESTOS:

NAME OF ANALYTICAL TESTING LABORATORY:

11. ASBESTOS PROJECT MANAGER ID # NAME:

12. AIR SAMPLING PROFESSIONAL ID# NAME:

13. DISPOSAL SITE LANDFILL NAME

Address: City:

State, Zip: Landfill Permit# Phone:

14. WASTE TRANSPORTER NAME

Address: City:

State, Zip: Contact: Phone:

If the asbestos project is non-friable, please provide the following information:

15. TRAINING INFORMATION Name of personnel trained under OSHA 1926.1101 and name of the training course sponsor who is approved in Illinois must be provided below. Please attach copies of the individuals, OSHA 1926.1101 training course certificate with this notice. If the individuals are licensed as asbestos workers or supervisors, please indicate names and ID#'s (Do not include AHERA designed person training or maintenance 14 hour training.)

NAME TRAINING COURSE ID #'S

NAME TRAINING COURSE ID #'S

NAME TRAINING COURSE ID #'S

16. IS DEMOLITION ORDERED BY A GOVERNMENTAL AGENCY? Y N (If Yes, a signed copy of Order must be attached)

Governmental representative ordering the activity:

Title: Date of Order: Ordered Demolition Date:

17. FOR EMERGENCY RENOVATION

Date and hour of emergency (mm/dd/yy): AM/PM

Description of the sudden, unplanned event (e.g., structure in danger of imminent collapse):

18. Description of procedures to be followed in the event that unexpected asbestos is found or previously nonfriable asbestos material becomes crumbled, pulverized or reduced to powder.

19. THE ABOVE INFORMATION IS REQUIRED PER NESHAP 40 CFR-SUBPART M-61.145, REV. NOV. 20, 1990

ALL SECTIONS MUST BE COMPLETED TO AVOID NOTICE VIOLATION.

I CERTIFY THAT AT LEAST ONE REPRESENTATIVE TRAINED IN THE PROVISIONS OF 40 CFR PART 61, SUBPART M, SHALL BE ON SITE DURING

DEMOLITION OR RENOVATION, HAVING IN HIS OR HER POSSESSION FOR INSPECTION EVIDENCE THAT THE REQUISITE TRAINING HAS BEEN ACCOMPLISHED.

CERTIFICATE # NAME OF TRAINING COURSE

I CERTIFY THE ABOVE INFORMATION IS CORRECT.

SIGNATURE OF CONTRACTOR OR THE BUILDING OWNER'S REPRESENTATIVE Date

IL EPA - AGENCY USE ONLY

This form shall be mailed to IL EPA, P.O. Box 19276, Springfield, IL 62794-9276 (Original signature only, photocopy not valid) for ILEPA Only.)

Date Received Input to ACTS Post Mark Date To Cook/City

Champaign LaSalle Springfield Rockford Moline Marion

For Cook County Departmental Use Only. Mail form to Cook Cty. Dept. of Env. Control, 69 W. Washington #1900, Chicago, IL 60602-3004

Date Received CCDEC Post Mark Date Input Into Computer

Inspection Fee Received Inspection Priority TOP: HIGH: LOW: Must be Inspected

Date(s) of Inspections

Inspection Report Attached YES NO Violation copies attached YES NO

Submit this form to the Illinois Department of Public Health at 525 W. Jefferson St., Springfield, IL 62761 or fax to 217-785-5897

Printed by Authority of the State of Illinois

P.O.#533539 SM 3/03

(*USE FOR ALL **FRIABLE** ABATEMENT PROJECTS AND ALL **AHERA** (Asbestos Hazardous Emergency Response Act) PROJECTS)

1 GENERAL

1.1 WORK INCLUDES

- A. Base Bid: Asbestos Abatement Contractor provide: (*)
 - 1. Complete (*removal and disposal) (*encapsulation) (*enclosure) of all asbestos containing materials (ACM) shown on (*Drawings) (*Location Plan) (*Schedule). (*).

- B. Alternate Bids: (*)
 - 1. Asbestos Abatement Contractor provide: (*)
 - a. Alternate Bid No. ASB-(*): (*)
 - 1. Instead of specified (*enclosure), (*encapsulation), (*), completely (*encapsulate) (*remove and dispose of) all asbestos containing materials in areas (*) shown on (*Drawings) (*Location Plan) (*Schedule) (*).
 - b. (*Continue as appropriate.)

- C. By Others
 - 1. Architect/Engineer:
 - a. Perform duties of APM/ASP per IDPH Rules and Regulations.
 - b. Sign Waste Shipment Record for User.

 - 2. By Using agency:
 - a. Move all previously cleaned furnishings back into accepted areas.
 - b. Perform its responsibilities in accord with referenced Parts of the IDPH Rules and Regulations.
 - c. Appoint an Asbestos Materials Manager and one or more Asbestos Supervisors in accord with IDPH Rules and Regulations, Part 855.300.

1.2 RELATED WORK

A. Specified elsewhere: (*)

1. (*Specify all Division 2 through 16 sections that apply.)

1.3 DEFINITIONS

A. See AHERA (Asbestos Hazardous Emergency Response Act) (Abatement Act), Section 3., and IDPH Rules and Regulations, Part 855.20.

1.4 REGULATORY REQUIREMENTS

A. The AHERA (Asbestos Hazardous Emergency Response Act) (Illinois Asbestos Abatement Act), as amended (Illinois Revised Statutes, ch. 122, par. 1401 et seq.).

B. IDPH Rules and Regulations for the AHERA (Asbestos Hazardous Emergency Response Act) (Asbestos Abatement Act), as amended (77 Illinois Administrative Code, ch. I: Department of Public Health (IDPH) Subchapter p: Part 855, referred to here as rules and regulations.

C. The Illinois Response Action Contractor Indemnification Act, as amended (415 ILCS 100/2 et seq.). This contractor is considered a Response Action Contractor, and CDB (*will/will not) withhold five percent of all payments for deposit in the Response Action Contractor Indemnification Fund.

D. Federal Requirements:

1. NESHAP - National Emissions Standards for Hazardous Air Pollutants.

2. OSHA - Occupational Safety and Health Administration, 200 Constitution Avenue, Washington, DC 20210.

3. (*AHERA - Asbestos Hazard Emergency Response Act).

1.5 FIELD QUALITY CONTROL

A. Architect/Engineer:

1. Asbestos Project Manager (APM) will perform the duties and responsibilities specified in the IDPH Rules and Regulations.

2. Employ the Air Sampling Professional (ASP) in accord with the IDPH Rules and Regulations.

- B. Contractor:
 - 1. Provide air monitoring of own personnel. Provide a copy of all results to the APM within 24 hours.
 - 2. Pay any additional costs which arise from failure of clearance testing and may include costs for services of APM, ASP, laboratory, or A/E.
- C. (*IDPH,) CDB or the APM may issue emergency stop work orders to the Contractor. (*IDPH may additionally assess fines and penalties in accord with IDPH Rules and Regulations, Part 855.610.) (*For AHERA (Asbestos Hazardous Emergency Response Act) projects only.)

1.6 SUBMITTALS

- A. Make all submittals in accord with IDPH Rules and Regulations, Part 855.350 to Asbestos Project Manager.
 - 1. Submit documented evidence that each person, including contractor's supervisor, performing asbestos work holds a valid IDPH License and accreditation certificate in accord with IDPH Rules and Regulations, Parts 855.20, 855.100 and 855.120.
 - 2. Submit documented evidence of current medical surveillance records.
 - 3. Submit documented evidence of respirator training, most recent fit testing and written respiratory protection program.
- B. Complete contractor's information in sections 3, 4, 5, 7, 13, 14, 15, 17, 18 and 19 of the State of Illinois Asbestos Project Notification form included in Article 3.4.A. Ensure notification is postmarked or hand delivered to IEPA and USEPA at least ten working days prior to the start of any construction.
 - 1. Dale Halford
Illinois EPA
Division of Air Pollution
P.O. Box 19276
Springfield, IL 62794-9276
(217) 785-1743
 - 2. IDPH Asbestos Program
525 West Jefferson Street
Springfield, IL 62761
(217) 782-3517

3. Rudolph Trejo
 Cook County Department of Environmental Control
 69 West Washington Street, suite 1900
 Chicago, IL 60602-3004
 (312) 603-8200

C. Forward a copy of each submittal to the CDB Project Manager prior to the start of abatement. No submittal shall be made to IDPH unless AHERA (Asbestos Hazardous Emergency Response Act) projects.

- 1.7 PROTECTION Provide protection for personnel and building in accord with IDPH Rules and Regulations.
- 1.8 PROJECT/SITE CONDITIONS (*Reference by page numbers. Include in section 3.5.A complete information from Asbestos Sampling Report.)
- 1.9 SEQUENCING/SCHEDULING (*A/E: Coordinate sequence of work and schedule of operations with Using Agency occupancy/schedule, and to ensure that all asbestos work will be accomplished before other contractors arrive on site.)

III. PRODUCTS / EQUIPMENT

- 2.1 ASBESTOS ABATEMENT EQUIPMENT Use only materials and equipment complying with the IDPH Rules and Regulations, Parts 855.80 and 855.120.
- 2.2 ACCEPTABLE MANUFACTURERS/PRODUCTS (*Specify a minimum of 3 manufacturers for each product, i.e., wetting agents, encapsulants, etc. Include product name. This listing is not exclusive.)

A. *Wetting agent.

- | | | |
|----|-----------------------------|--------------|
| 1. | Better Working Environments | Super Wet |
| 2. | Certified Technologies | Certane 2075 |
| 3. | Eppert Oil Co. | Speedi-Wet |
| 4. | Foster Products Corp | 32-90 |

B. *Combination wetting agent - encapsulant.

- | | | |
|----|-----------------------------|-------------|
| 1. | Better Working Environments | 5000 |
| 2. | Certified Technologies | Certane 707 |
| 3. | Eppert Oil Co. | Fiber-Seal |
| 4. | Foster Products Corp | 32-60 |

- D. *Mastic remover. (Note - mastic removers must have a flash point greater than 200°F and a lower explosive limit greater than 5%.)
- | | | |
|----|------------------------|-----------------|
| 1. | Abatement Technologies | Citrus 200 Plus |
| 2. | Certified Technologies | Certane 77B |
| 3. | Eppert Oil Co. | 200 or A |
| 4. | Sentinel Chemical Co. | 7200 |
- E. *Lockdown Encapsulant
- | | | |
|----|-----------------------------|--------------|
| 1. | Better Working Environments | 3000 |
| 2. | Certified Technologies | Certane 1050 |
| 3. | Eppert Oil Co. | Fiber-Seal |
| 4. | Foster Products Corp | 32-60 |
- E *Bridging Encapsulant
- | | | |
|----|-------------------------|------------------|
| 1. | American Coatings Corp. | Cable Coating 2B |
| 2. | Certified Technologies | Certane 1000 |
| 3. | Eppert Oil Co. | #4 |
| 4. | Foster Products Corp | 32-86 |
- F. *Lagging
- | | | |
|----|--------------------------------|-------------|
| 1. | American Coatings Corp. | Elastocloth |
| 2. | Foster Products Corp. | Seal-Fas |
| 3. | International Air Filter, Inc. | Wrap'n Cure |
| 4. | A-B-C | Lag-Kloth |

3. EXECUTION

3.1 PREPARATION

- A. Perform all preparation work in accord with the IDPH Rules and Regulations.

3.2 PERFORMANCE

- A. Perform all asbestos work in accord with the IDPH Rules and Regulations:
1. Commencement of Work: 855.450
 2. Removal Procedures: 855.460
 3. Encapsulation Procedures: 855.500
 4. Enclosure Procedures: 855.510
 5. Glovebag Procedure: 855.480
 - (*) a. All Glovebag Procedures require 1 layer of 6 mil plastic containment with negative air system.
 - (*) b. Complete all Glovebag Procedures utilizing a minimum of powered air purifying respirators (PAPR).

- B. Demolition: Completely demolish (*entire) (*indicated portion) (*s) of existing (*building) (*s) () in accord with (*TO BE DETERMINED.)
- C. Variances/Alternatives: Contractor may request variances or alternative abatement methods or procedures in accord with the IDPH Rules and Regulations, Part 855.25. Submit variance requests to A/E. Do not perform any work involving variances or alternative methods until written approval from (*IDPH and) CDB is received. (*IDPH for AHERA (Asbestos Hazardous Emergency Response Act) projects.) An RFPCO shall be issued for all variances issued after bidding to adjust the price of the project to reflect any cost savings. (*Variances approved prior to bidding are included at the end of this section in Article 3.4.B. The variances shall be signed by the contractor and APM and included with the project notification form required by Article 1.6.B and in the APM project report.)
- D. Disposal :
 - 1. Label all bags or containers containing asbestos debris as follows- (*Fill in actual information.)
 NAME OF BUILDING AND FACILITY
 STREET ADDRESS
 CITY, STATE, AND ZIP CODE
 - 2. Whenever trucks or dumpsters are being loaded or unloaded with asbestos waste, post signs in accord with the NESHAP STANDARD- DANGER, ASBESTOS DUST HAZARD, CANCER AND LUNG DISEASE HAZARD, AUTHORIZED PERSONNEL ONLY.
 - 3. Transport all waste to an IEPA approved landfill. Complete a waste shipment record for each load of waste in accord with the NESHAP STANDARD. Return the record, signed by waste disposal site owner/operator to APM within 10 days after completion of project.

3.3 CLEANUP

- A. Perform all cleanup operations daily in accord with the IDPH Rules and Regulations.
 - 1. Clearance Air Monitoring and Analysis:
 - (*) a. PCM: 855.220 and 855.470
 - (*) b. TEM: In accord with AHERA (Asbestos Hazardous Emergency Response Act) Section 763.90. (*unless this is an AHERA (Asbestos Hazardous Emergency Response Act) project or designated by CDB, use PCM.)

3.4 ATTACHMENTS

- A. IEPA's Notification of Renovation and Demolition form. (A/E complete all sections except those to be completed by the contractor. See Article 1.6.A.)
- B. State of Illinois Asbestos Abatement Project Notification Form. (A/E complete all sections except those to be completed by the contractor. See Article 1.6.A.)
- C. Bulk Sample Analysis (Form 11 of A/E Manual of Procedures for Asbestos Inspection and Management Plan).
- D. Variances approved.

END 02082.



REC. NO. _____

NOTIFICATION OF DEMOLITION AND RENOVATION

IL 532 1296

APC 430

Illinois Environmental Protection Agency

P.O. Box 19276, Springfield, IL 62794-9276

Rev.06/03

THIS INFORMATION IS REQUIRED; NESHAP-40CFR-SUBPART M-61.145, Rev. Nov. 20, 1990**ALL SECTIONS MUST BE COMPLETED TO AVOID NOTICE VIOLATION****1. TYPE OF NOTIFICATION** (O-Original/R-Revised/C-Canceled):**2. TYPE OF OPERATION** (R-Renovation/D-Demo/A-Annual/O-Ordered Demo/E-Emergency Renovation):**3. FACILITY DESCRIPTION** (Building Name):

Address:

City:

County:

State:

ZIP:

Location of Asbestos Containing Material (ACM) in structure:

Bldg. Size:

of Flrs.

Age:

Present Use:

Prior Use:

Future Use (Demo):

4. IS ASBESTOS PRESENT? Y N**5. WORK HOURS:***

a.m.

p.m.

6. SCHEDULED DATE DEMOLITION:

Start:

Complete:

7. SCHEDULED DATE ASBESTOS REMOVAL:

Start:

Complete:

8. REGULATED ASBESTOS CONTAINING MATERIAL TO BE REMOVED (RACM):**NONFRIABLE ASBESTOS NOT TO BE REMOVED (Demolition):****NONFRIABLE ASBESTOS TO BE REMOVED:**

CATEGORY I

CATEGORY II

CATEGORY I

CATEGORY II

Pipes (Ln. Ft.)

Surface Area (Sq. Ft.)

Volume (Cu. Ft.)

9. ASBESTOS REMOVAL CONTRACTOR:

Address:

City:

State, Zip:

Contact:

Phone:

10. DEMOLITION CONTRACTOR:

Address:

City:

State, Zip:

Contact:

Phone:

11. OWNER NAME:

Address:

City:

State, Zip:

Contact:

Phone:

12. WASTE TRANSPORTER:

Address:

City:

State, Zip:

Contact:

Phone:

13. WASTE DISPOSAL SITE:

Address:

City:

State, Zip:

Landfill Permit #:

Phone:

Date Received:

Input to ACTS:

-AGENCY USE ONLY-

To Region 1 2 3

Post Mark Date:

To Cook/City:

Champaign:

LaSalle:

Springfield:

Rockford:

Moline:

Marion:

14. PROCEDURE, INCLUDING ANALYTICAL METHOD, USED TO DETECT THE PRESENCE OF ASBESTOS.

ILLINOIS LICENSE NUMBER OF INSPECTOR:

NAME OF ANALYTICAL TESTING LABORATORY:

**15. DESCRIPTION OF PLANNED DEMOLITION OR RENOVATION WORK:
METHODS TO BE EMPLOYED INCLUDING DEMOLITION OR RENOVATION TECHNIQUES.**

**16. DESCRIPTION OF WORK PRACTICES AND ENGINEERING CONTROLS TO BE USED TO PREVENT EMISSIONS AT THE
DEMOLITION OR RENOVATION SITE:**

17. IS DEMOLITION ORDERED BY A GOVERNMENTAL AGENCY? Y N (If Yes, a signed copy of Order must be attached.)

Governmental representative ordering the activity:

Title:

Date of Order:

Ordered Demolition Date:

18. FOR EMERGENCY RENOVATIONS:

Date and Hour of Emergency:

Description of the Sudden, Unexpected Event (e.g. structure in danger of eminent collapse):

**19. DESCRIPTION OF PROCEDURES TO BE FOLLOWED IN THE EVENT THAT UNEXPECTED ASBESTOS IS FOUND OR
PREVIOUSLY NONFRIABLE ASBESTOS MATERIAL BECOMES CRUMBLLED, PULVERIZED, OR REDUCED TO POWDER.**

**20. I CERTIFY THAT AT LEAST ONE REPRESENTATIVE, TRAINED IN THE PROVISIONS OF 40 CFR PART 61,
SUBPART M, SHALL BE ON-SITE DURING DEMOLITION OR RENOVATION, HAVING IN HIS OR HER POSSESSION,
FOR INSPECTION, EVIDENCE THAT THE REQUISITE TRAINING HAS BEEN ACCOMPLISHED.**

I CERTIFY THE ABOVE INFORMATION IS CORRECT. _____

Signature of Owner/Operator Date
(Original Signature Only, Photocopy Not Valid)

**A FILING FEE OF \$150 MUST BE PAID WITH EACH INITIAL 10-WORKING DAY NOTIFICATION REQUIRED BY
THE ASBESTOS NESHAP. MAKE CHECKS PAYABLE TO ILLINOIS EPA AND MAKE NOTATION THAT IT IS
FOR THE 10-WORKING DAY NOTIFICATION FEE. CASH AND CREDIT CARDS ARE NOT ACCEPTABLE. IF
THE FEE IS NOT SUBMITTED WITH THE NOTIFICATION, THE NOTIFICATION WILL BE DEEMED
IMPROPERLY FILED.**

*Not required under NESHAPS.

Mail this form to: IL Environmental Protection Agency, Attn: Asbestos Unit, P.O. Box 19276, Springfield, IL 62794-9276

**STATE OF ILLINOIS
ASBESTOS ABATEMENT PROJECT
NOTIFICATION FORM**

Projects greater than 3 sq./ft. and/or 3 In.ft. and ALL school projects shall be submitted to IDPH.
Projects greater than 160 sq./ft. and/or 260 In./ft. and demolition projects shall be submitted to IEPA.

Date: _____
Revision # _____
Item Number(s) Revised _____
* If revision, complete below.
Fax #(217)785-5897(IDPH ONLY)

This form shall be used for all Original and Revised Notifications submitted to ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, ILLINOIS DEPARTMENT OF PUBLIC HEALTH AND COOK COUNTY DEPARTMENT OF ENVIRONMENTAL CONTROL.

TYPE OF NOTIFICATION: (O-Original/R-Revised/C-Cancelled/D-Demolition/RN-Renovation)

Circle type of building below. Notice will not be accepted unless one and only one type of project is circled above. (circle one)

Friable School Project Non-friable School Floor Tile Project Both Friable & Non-friable School Project CPB (Friable & Non-friable) Project

* Change being made by: Owner's Representative Contractor Owner Project Designer (circle one)

1. FACILITY INFORMATION

FACILITY NAME _____ School Bldg. ID # _____

LOCATION OF ASBESTOS CONTAINING MATERIALS (ACM) IN STRUCTURE:

BLDG. SIZE sqft # of Flrs. AGE PRESENT USE

PRIOR USE Future Use (Demo)

ADDRESS _____

CITY _____ COUNTY _____ ZIP _____

CONTACT PERSON _____ PHONE _____

2. SCHOOL DISTRICT/FACILITY OWNER

District Name & Number: _____

Address: _____ City: _____

State, Zip: _____ Contact: _____ Phone: _____

copies of abatement permission and written verification of notification to all building occupants and users from the building owner or school board shall be submitted for public and private school facilities as required by section 855.350 of the IDPH asbestos code.

3. ASBESTOS CONTRACTOR:

Address: _____ City: _____

State, Zip: _____ Contact: _____ Phone: _____

4. DEMOLITION CONTRACTOR:

Address: _____ City: _____

State, Zip: _____ Contact: _____ Phone: _____

5. ABATEMENT INFORMATION IS ASBESTOS PRESENT? Y N

DESCRIPTION OF PLANNED DEMOLITION OR RENOVATION WORK

METHODS TO BE EMPLOYED INCLUDING DEMOLITION OR RENOVATION TECHNIQUES.

DESCRIPTION OF WORK PRACTICES AND ENGINEERING CONTROLS USED TO PREVENT EMISSIONS AT THE DEMOLITION OR RENOVATION SITE

6. REGULATED ASBESTOS CONTAINING MATERIAL TO BE REMOVED (RACM)	NON-FRIABLE ASBESTOS NOT TO BE REMOVED (Demolition)		NON-FRIABLE ASBESTOS TO BE REMOVED		TOTAL ASBESTOS TO BE REMOVED	NESHAPS (please circle one)
	CAT I	CAT II	CAT I	CAT II		
Pipes (Ln ft.)						Y N
Surface Area (Sqft.)						Y N
Volume (Cuft)						Y N

7. ABATEMENT DATES AND TIME

SCHEDULED DEMOLITION DATE Start FINISH

PHASE PROJECT?	Yes	No	START	FINISH	FROM	TO
If yes, list the approximate dates & times of the phases			START	FINISH	FROM	TO
WORKING WEEKENDS?	Yes	No	START	FINISH	FROM	TO

8. PROJECT DESIGNER ID#: _____ NAME: _____
PROJECT DESIGNER LICENSE# AND NAME IF THIS PROJECT WAS DESIGNED BY DESIGNER

9. INSPECTOR: ID# _____ NAME: _____

10. PROCEDURE, INCLUDING ANALYTICAL METHOD, USED TO DETECT THE PRESENCE OF ASBESTOS:

NAME OF ANALYTICAL TESTING LABORATORY:

11. ASBESTOS PROJECT MANAGER ID # NAME:

12. AIR SAMPLING PROFESSIONAL ID# NAME:

13. DISPOSAL SITE LANDFILL NAME

Address: City:

State, Zip: Landfill Permit# Phone:

14. WASTE TRANSPORTER NAME

Address: City:

State, Zip: Contact: Phone:

If the asbestos project is non-friable, please provide the following information:

15. TRAINING INFORMATION Name of personnel trained under OSHA 1926.1101 and name of the training course sponsor who is approved in Illinois must be provided below. Please attach copies of the individuals, OSHA 1926.1101 training course certificate with this notice. If the individuals are licensed as asbestos workers or supervisors, please indicate names and ID#'s (Do not include AHERA designed person training or maintenance 14 hour training.)

NAME TRAINING COURSE ID #'S

NAME TRAINING COURSE ID #'S

NAME TRAINING COURSE ID #'S

16. IS DEMOLITION ORDERED BY A GOVERNMENTAL AGENCY? Y N (If Yes, a signed copy of Order must be attached)

Governmental representative ordering the activity:

Title: Date of Order: Ordered Demolition Date:

17. FOR EMERGENCY RENOVATION

Date and hour of emergency (mm/dd/yy): AM/PM

Description of the sudden, unplanned event (e.g., structure in danger of imminent collapse):

18. Description of procedures to be followed in the event that unexpected asbestos is found or previously nonfriable asbestos material becomes crumbled, pulverized or reduced to powder.

19. THE ABOVE INFORMATION IS REQUIRED PER NESHAP 40 CFR-SUBPART M-61.145, REV. NOV. 20, 1990

ALL SECTIONS MUST BE COMPLETED TO AVOID NOTICE VIOLATION.

I CERTIFY THAT AT LEAST ONE REPRESENTATIVE TRAINED IN THE PROVISIONS OF 40 CFR PART 61, SUBPART M, SHALL BE ON SITE DURING

DEMOLITION OR RENOVATION, HAVING IN HIS OR HER POSSESSION FOR INSPECTION EVIDENCE THAT THE REQUISITE TRAINING HAS BEEN ACCOMPLISHED.

CERTIFICATE # NAME OF TRAINING COURSE

I CERTIFY THE ABOVE INFORMATION IS CORRECT.

SIGNATURE OF CONTRACTOR OR THE BUILDING OWNER'S REPRESENTATIVE Date

IL EPA - AGENCY USE ONLY

This form shall be mailed to IL EPA, P.O. Box 19276, Springfield, IL 62794-9276 (Original signature only, photocopy not valid) for ILEPA Only.)

Date Received Input to ACTS Post Mark Date To Cook/City

Champaign LaSalle Springfield Rockford Moline Marion

For Cook County Departmental Use Only. Mail form to Cook Cty. Dept. of Env. Control, 69 W. Washington #1900, Chicago, IL 60602-3004

Date Received CCDEC Post Mark Date Input Into Computer

Inspection Fee Received Inspection Priority TOP: HIGH: LOW: Must be Inspected

Date(s) of Inspections

Inspection Report Attached YES NO Violation copies attached YES NO

Submit this form to the Illinois Department of Public Health at 525 W. Jefferson St., Springfield, IL 62761 or fax to 217-785-5897

Printed by Authority of the State of Illinois

P.O.#533539 SM 3/03

1. GENERAL

1.1 WORK INCLUDES

- A. Base Bid: (*General/Roofing) Contractor:
 - 1. Remove and dispose of portions of existing roofing, including non-friable asbestos containing materials.
- B. By Others:
 - 1. A/E - Perform Air Monitoring
 - 2. A/E - Sign Waste Shipment Record for Owner

1.2 RELATED WORK SPECIFIED ELSEWHERE:

- A. 07*** - Roofing.
- B. (*Continue as appropriate).

1.3 REGULATORY REQUIREMENTS

- A. The Illinois Response Action Contractor Indemnification Act, as amended (415 ILCS 100/2 et seq.).
- 3. NOTE: This contractor is considered a Response Action Contractor. The (*A/E MUST SPECIFY) is to be considered the asbestos portion of the contract. The Contractor must include the estimated cost for the asbestos portion of the contract on the Bid Form as an informational item. CDB (*will/will not) withhold 5% of the amount stated on the Bid form for the asbestos portion of the contract for deposit in the Response Action Contractor Indemnification Fund.

1. Federal Requirements:

- 1. NESHAP - National Emissions Standards for Hazardous Air Pollutants.
 - 1. Notifications
 - 2. Disposal
- 2. OSHA - Occupational Safety and Health Administration, 200 Constitution Avenue, Washington, DC 20210.
 - 1. Exposure Limits
 - 2. Respiratory and Personal Protective Equipment
 - 3. OSHA Training
 - 4. Negative Exposure Assessment.

1.4 EXISTING CONDITIONS (*A/E describe conditions and include results of asbestos sampling report.)

1.5 QUALITY CONTROL

A. Air Monitoring:

1. Air monitoring will be performed by an independent air sampling professional (ASP) employed by the A/E to ensure that no employee is exposed to an airborne concentration of asbestos in excess of 0.1 f/cc [8-hour time weighted average permissible exposure limit (PEL)] or 1.0 f/cc [30-minute Excursion Limit (EL)].
2. (The A/E must determine if the ventilation system must remain in operation during the removal. If so,) (*Two air samples shall be taken within the ventilated area. If any of the air samples taken indicate an airborne asbestos fiber level above 0.1 f/cc and the initial background levels, the contractor shall stop work, clean the area by wet wiping. The ASP shall then retest the area taking a minimum of two air samples. After all samples fall below 0.1 f/cc, work may resume.)
3. If the initial air monitoring reveals that employee exposure is below the permissible exposure limit and excursion limit, sampling will be discontinued. Air sampling shall be resumed any time there are changes in the method of removal, changes in the workforce or power equipment is used in the removal process.

1.6 SUBMITTALS

- A. Complete contractor's information in sections 1, 5, 6, 7, 9, 10, 12 and 13 of the Notification of Demolition and Renovation Form included in Article 3.4. Ensure notification is postmarked or hand delivered to IEPA and USEPA at least ten working days prior to the start of any construction.
 1. Dale Halford
Illinois EPA
Division of Air Pollution
P.O. Box 19276
Springfield, IL 62794-9276
(217) 785-1743
 2. IDPH Asbestos Program
525 West Jefferson Street
Springfield, IL 62761
(217) 782-3517
 3. Rudolph Trejo
Cook County Department of Environmental Control
69 West Washington, suite 1900
Chicago, IL 60602-3004
(312) 603-8200
- B. Submit a copy of the notification form(s) to the CDB Project Manager and the A/E five (5) days prior to the start of work.

2. PRODUCTS

(Not Applicable)

3. EXECUTION

3.1 PREPARATION

- A. Shut down ventilation system and protect rooftop ventilation system intakes and exhausts by covering with one layer of 6-mil poly. (*The A/E shall determine if the ventilation system must remain in operation during the removal. If so, any roof intakes shall be extended to a height preventing fibers from entering the building.)
- B. Protect existing items not indicated to be demolished.
- C. Restricted Area:
 - 1. Establish a restricted area in all work areas where non-friable roofing ACM are to be removed. Post and limit access to the restricted area to authorized persons.
 - 2. Allow no eating, drinking, smoking, tobacco or gum chewing, or application of cosmetics.

3.2 RESPIRATORS:

- A. Upon request of the worker, the contractor shall provide the worker with a respirator and protective clothing.
- B. Whenever respirators are used, provide evidence of worker training, respirator fit testing, medical surveillance programs and written respiratory protection program.

3.3 NON-FRIABLE ASBESTOS REMOVAL

- A. Remove all designated roofing material in a careful manner.
- C. Cooperate with A/E in conducting air sampling.
- D. Cease work and change work methods when advised that air quality samples exceed OSHA limits.
- E. The use of powered tools, or high speed abrasive disc saws must be approved by the A/E and must be equipped with engineering controls that eliminate dust.
- F. Removal. Keep materials damp using water during removal, and adequately wet prior to disposal. Handle materials to minimize breaking. Utilize enclosed chutes or elevator equipment to lower the adequately wetted roofing materials to ground level to minimize breakage. Place bulk material in an enclosed truck or dumpster that has been lined with two layers of six mil poly with appropriate signage. Keep adequately wetted.

- G. Label all bags or containers containing asbestos debris as follows- (Fill in as appropriate).
- NAME OF BUILDING AND FACILITY
STREET ADDRESS
CITY, STATE. AND ZIP CODE
- H. Whenever trucks or dumpsters are being loaded or unloaded with asbestos waste, post signs in accord with the NESHAP STANDARD- DANGER, ASBESTOS DUST HAZARD, CANCER AND LUNG DISEASE HAZARD, AUTHORIZED PERSONNEL ONLY.
- I. Transport all waste to an IEPA approved landfill in an enclosed truck or dumpster. Complete a waste shipment record for each load of waste in accord with the NESHAP STANDARD. Return the record, signed by waste disposal site owner/operator to CDB PM within 10 days after completion of project.
- J. Upon completion of work, leave area in clean condition.

3.4 ATTACHMENTS

- A. IEPA's Notification of Renovation and Demolition form. (A/E complete all sections except those to be completed by the contractor. See Article 1.6.A.)
- B. State of Illinois Asbestos Abatement Project Notification Form. (A/E complete all sections except those to be completed by the contractor. See Article 1.6.A.)
- C. Bulk Sample Analysis (Form 11 of A/E Manual of Procedures for Asbestos Inspection and Management Plan).
- D. Variances approved.

END 02083



REC. NO. _____

NOTIFICATION OF DEMOLITION AND RENOVATION

IL 532 1296

APC 430

Illinois Environmental Protection Agency

P.O. Box 19276, Springfield, IL 62794-9276

Rev.06/03

THIS INFORMATION IS REQUIRED; NESHAP-40CFR-SUBPART M-61.145, Rev. Nov. 20, 1990**ALL SECTIONS MUST BE COMPLETED TO AVOID NOTICE VIOLATION****1. TYPE OF NOTIFICATION** (O-Original/R-Revised/C-Canceled):**2. TYPE OF OPERATION** (R-Renovation/D-Demo/A-Annual/O-Ordered Demo/E-Emergency Renovation):**3. FACILITY DESCRIPTION** (Building Name):

Address:

City:

County:

State:

ZIP:

Location of Asbestos Containing Material (ACM) in structure:

Bldg. Size:

of Flrs.

Age:

Present Use:

Prior Use:

Future Use (Demo):

4. IS ASBESTOS PRESENT? Y N**5. WORK HOURS:***

a.m.

p.m.

6. SCHEDULED DATE DEMOLITION:

Start:

Complete:

7. SCHEDULED DATE ASBESTOS REMOVAL:

Start:

Complete:

8. REGULATED ASBESTOS CONTAINING MATERIAL TO BE REMOVED (RACM):**NONFRIABLE ASBESTOS NOT TO BE REMOVED (Demolition):****NONFRIABLE ASBESTOS TO BE REMOVED:**

CATEGORY I

CATEGORY II

CATEGORY I

CATEGORY II

Pipes (Ln. Ft.)

Surface Area (Sq. Ft.)

Volume (Cu. Ft.)

9. ASBESTOS REMOVAL CONTRACTOR:

Address:

City:

State, Zip:

Contact:

Phone:

10. DEMOLITION CONTRACTOR:

Address:

City:

State, Zip:

Contact:

Phone:

11. OWNER NAME:

Address:

City:

State, Zip:

Contact:

Phone:

12. WASTE TRANSPORTER:

Address:

City:

State, Zip:

Contact:

Phone:

13. WASTE DISPOSAL SITE:

Address:

City:

State, Zip:

Landfill Permit #:

Phone:

Date Received:

Input to ACTS:

-AGENCY USE ONLY-

To Region 1 2 3

Post Mark Date:

To Cook/City:

Champaign:

LaSalle:

Springfield:

Rockford:

Moline:

Marion:

14. PROCEDURE, INCLUDING ANALYTICAL METHOD, USED TO DETECT THE PRESENCE OF ASBESTOS.

ILLINOIS LICENSE NUMBER OF INSPECTOR:

NAME OF ANALYTICAL TESTING LABORATORY:

**15. DESCRIPTION OF PLANNED DEMOLITION OR RENOVATION WORK:
METHODS TO BE EMPLOYED INCLUDING DEMOLITION OR RENOVATION TECHNIQUES.**

**16. DESCRIPTION OF WORK PRACTICES AND ENGINEERING CONTROLS TO BE USED TO PREVENT EMISSIONS AT THE
DEMOLITION OR RENOVATION SITE:**

17. IS DEMOLITION ORDERED BY A GOVERNMENTAL AGENCY? Y N (If Yes, a signed copy of Order must be attached.)

Governmental representative ordering the activity:

Title:

Date of Order:

Ordered Demolition Date:

18. FOR EMERGENCY RENOVATIONS:

Date and Hour of Emergency:

Description of the Sudden, Unexpected Event (e.g. structure in danger of eminent collapse):

**19. DESCRIPTION OF PROCEDURES TO BE FOLLOWED IN THE EVENT THAT UNEXPECTED ASBESTOS IS FOUND OR
PREVIOUSLY NONFRIABLE ASBESTOS MATERIAL BECOMES CRUMBLLED, PULVERIZED, OR REDUCED TO POWDER.**

**20. I CERTIFY THAT AT LEAST ONE REPRESENTATIVE, TRAINED IN THE PROVISIONS OF 40 CFR PART 61,
SUBPART M, SHALL BE ON-SITE DURING DEMOLITION OR RENOVATION, HAVING IN HIS OR HER POSSESSION,
FOR INSPECTION, EVIDENCE THAT THE REQUISITE TRAINING HAS BEEN ACCOMPLISHED.**

I CERTIFY THE ABOVE INFORMATION IS CORRECT. _____

Signature of Owner/Operator Date
(Original Signature Only, Photocopy Not Valid)

**A FILING FEE OF \$150 MUST BE PAID WITH EACH INITIAL 10-WORKING DAY NOTIFICATION REQUIRED BY
THE ASBESTOS NESHAP. MAKE CHECKS PAYABLE TO ILLINOIS EPA AND MAKE NOTATION THAT IT IS
FOR THE 10-WORKING DAY NOTIFICATION FEE. CASH AND CREDIT CARDS ARE NOT ACCEPTABLE. IF
THE FEE IS NOT SUBMITTED WITH THE NOTIFICATION, THE NOTIFICATION WILL BE DEEMED
IMPROPERLY FILED.**

*Not required under NESHAPS.

Mail this form to: IL Environmental Protection Agency, Attn: Asbestos Unit, P.O. Box 19276, Springfield, IL 62794-9276

**STATE OF ILLINOIS
ASBESTOS ABATEMENT PROJECT
NOTIFICATION FORM**

Projects greater than 3 sq./ft. and/or 3 In.ft. and ALL school projects shall be submitted to IDPH.
Projects greater than 160 sq./ft. and/or 260 In./ft. and demolition projects shall be submitted to IEPA.

Date: _____
Revision # _____
Item Number(s) Revised _____
* If revision, complete below.
Fax #(217)785-5897(IDPH ONLY)

This form shall be used for all Original and Revised Notifications submitted to ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, ILLINOIS DEPARTMENT OF PUBLIC HEALTH AND COOK COUNTY DEPARTMENT OF ENVIRONMENTAL CONTROL.

TYPE OF NOTIFICATION: (O-Original/R-Revised/C-Cancelled/D-Demolition/RN-Renovation)

Circle type of building below. Notice will not be accepted unless one and only one type of project is circled above. (circle one)

Friable School Project Non-friable School Floor Tile Project Both Friable & Non-friable School Project CPB (Friable & Non-friable) Project

* Change being made by: Owner's Representative Contractor Owner Project Designer (circle one)

1. FACILITY INFORMATION

FACILITY NAME _____ School Bldg. ID # _____

LOCATION OF ASBESTOS CONTAINING MATERIALS (ACM) IN STRUCTURE:

BLDG. SIZE sqft # of Flrs. AGE PRESENT USE

PRIOR USE Future Use (Demo)

ADDRESS _____

CITY _____ COUNTY _____ ZIP _____

CONTACT PERSON _____ PHONE _____

2. SCHOOL DISTRICT/FACILITY OWNER

District Name & Number: _____

Address: _____ City: _____

State, Zip: _____ Contact: _____ Phone: _____

copies of abatement permission and written verification of notification to all building occupants and users from the building owner or school board shall be submitted for public and private school facilities as required by section 855.350 of the IDPH asbestos code.

3. ASBESTOS CONTRACTOR:

Address: _____ City: _____

State, Zip: _____ Contact: _____ Phone: _____

4. DEMOLITION CONTRACTOR:

Address: _____ City: _____

State, Zip: _____ Contact: _____ Phone: _____

5. ABATEMENT INFORMATION IS ASBESTOS PRESENT? Y N

DESCRIPTION OF PLANNED DEMOLITION OR RENOVATION WORK

METHODS TO BE EMPLOYED INCLUDING DEMOLITION OR RENOVATION TECHNIQUES.

DESCRIPTION OF WORK PRACTICES AND ENGINEERING CONTROLS USED TO PREVENT EMISSIONS AT THE DEMOLITION OR RENOVATION SITE

6. REGULATED ASBESTOS CONTAINING MATERIAL TO BE REMOVED (RACM)	NON-FRIABLE ASBESTOS NOT TO BE REMOVED (Demolition)		NON-FRIABLE ASBESTOS TO BE REMOVED		TOTAL ASBESTOS TO BE REMOVED	NESHAPS (please circle one)
	CAT I	CAT II	CAT I	CAT II		
Pipes (Ln ft.)						Y N
Surface Area (Sqft.)						Y N
Volume (Cuft)						Y N

7. ABATEMENT DATES AND TIME

SCHEDULED DEMOLITION DATE Start FINISH

PHASE PROJECT? Yes No START FINISH FROM TO

If yes, list the approximate dates & times of the phases

WORKING WEEKENDS? Yes No START FINISH FROM TO

8. PROJECT DESIGNER ID#: _____ NAME: _____

PROJECT DESIGNER LICENSE# AND NAME IF THIS PROJECT WAS DESIGNED BY DESIGNER

9. INSPECTOR: ID# _____ NAME: _____

10. PROCEDURE, INCLUDING ANALYTICAL METHOD, USED TO DETECT THE PRESENCE OF ASBESTOS:

NAME OF ANALYTICAL TESTING LABORATORY:

11. ASBESTOS PROJECT MANAGER ID # NAME:

12. AIR SAMPLING PROFESSIONAL ID# NAME:

13. DISPOSAL SITE LANDFILL NAME

Address: City:

State, Zip: Landfill Permit# Phone:

14. WASTE TRANSPORTER NAME

Address: City:

State, Zip: Contact: Phone:

If the asbestos project is non-friable, please provide the following information:

15. TRAINING INFORMATION Name of personnel trained under OSHA 1926.1101 and name of the training course sponsor who is approved in Illinois must be provided below. Please attach copies of the individuals, OSHA 1926.1101 training course certificate with this notice. If the individuals are licensed as asbestos workers or supervisors, please indicate names and ID#'s (Do not include AHERA designed person training or maintenance 14 hour training.)

NAME TRAINING COURSE ID #'S

NAME TRAINING COURSE ID #'S

NAME TRAINING COURSE ID #'S

16. IS DEMOLITION ORDERED BY A GOVERNMENTAL AGENCY? Y N (If Yes, a signed copy of Order must be attached)

Governmental representative ordering the activity:

Title: Date of Order: Ordered Demolition Date:

17. FOR EMERGENCY RENOVATION

Date and hour of emergency (mm/dd/yy): AM/PM

Description of the sudden, unplanned event (e.g., structure in danger of imminent collapse):

18. Description of procedures to be followed in the event that unexpected asbestos is found or previously nonfriable asbestos material becomes crumbled, pulverized or reduced to powder.

19. THE ABOVE INFORMATION IS REQUIRED PER NESHAP 40 CFR-SUBPART M-61.145, REV. NOV. 20, 1990

ALL SECTIONS MUST BE COMPLETED TO AVOID NOTICE VIOLATION.

I CERTIFY THAT AT LEAST ONE REPRESENTATIVE TRAINED IN THE PROVISIONS OF 40 CFR PART 61, SUBPART M, SHALL BE ON SITE DURING

DEMOLITION OR RENOVATION, HAVING IN HIS OR HER POSSESSION FOR INSPECTION EVIDENCE THAT THE REQUISITE TRAINING HAS BEEN ACCOMPLISHED.

CERTIFICATE # NAME OF TRAINING COURSE

I CERTIFY THE ABOVE INFORMATION IS CORRECT.

SIGNATURE OF CONTRACTOR OR THE BUILDING OWNER'S REPRESENTATIVE Date

IL EPA - AGENCY USE ONLY

This form shall be mailed to IL EPA, P.O. Box 19276, Springfield, IL 62794-9276 (Original signature only, photocopy not valid) for ILEPA Only.)

Date Received Input to ACTS Post Mark Date To Cook/City

Champaign LaSalle Springfield Rockford Moline Marion

For Cook County Departmental Use Only. Mail form to Cook Cty. Dept. of Env. Control, 69 W. Washington #1900, Chicago, IL 60602-3004

Date Received CCDEC Post Mark Date Input Into Computer

Inspection Fee Received Inspection Priority TOP: HIGH: LOW: Must be Inspected

Date(s) of Inspections

Inspection Report Attached YES NO Violation copies attached YES NO

Submit this form to the Illinois Department of Public Health at 525 W. Jefferson St., Springfield, IL 62761 or fax to 217-785-5897

Printed by Authority of the State of Illinois

P.O.#533539 SM 3/03

GUIDELINES FOR ESTIMATING ASBESTOS ABATEMENT PROJECTS

The attached listing of asbestos abatement work items are provided as a guideline for use in preparing cost estimates during the design phase. It should be used as appropriated; modified or added to when required. The A/E is responsible for the estimate and these guidelines should not be construed as inclusive or the only method which may be used. An estimate of comparable detail is required regardless using CDB's Proposed Project Cost Budget (PPCB) form.

- ? Preparation - All costs for mobilization, set-up and area preparation prior to removal of any ACM. Note the inclusion of work items for demolition of non-contaminated building components to gain access to ACM. Verify that this demolition work is truly not contaminated by asbestos prior to including the costs in this section.

- ? Architectural Systems - This section is for cost of removal of ACM encountered in architectural systems or work normally installed as general work.

- ? Thermal Systems - This section is for cost of removal of ACM encounter in work originally installed as part of HVAC work, usually by the insulation subcontractor.

- ? Equipment Rental - The costs of capital equipment used on the project by the contractor. Either direct rental costs or allocation of costs for equipment owned by the contractor.

- ? Final Clean-up & Restoration - All costs, after removal of the bulk of the ACM to perform final removal and clean up, dismantling, and demobilization required to restore the facility for the owner's use.

- ? General Conditions - Project costs required by the general conditions and typically estimated by the size and/or duration of the project.

- ? Recapitalization - For summarizing the costs on the previous sections and adding insurance overhead, profit and contingency.

ESTIMATE RECAPITULATION

PROJECT ASBESTOS ABATEMENT ESTIMATE OUTLINE						ESTIMATE NO.			
LOCATION						SHEET NO.			
ARCHITECT/ENGINEER						DATE			
SUMMARY BY		RICES BY			CHECKED BY				
DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTALESTIMATED MATERIAL COST	UNIT PRICE	TOTALESTIMATED LABOR COST	UNIT PRICE	TOTAL	
Preclean		Square Ft.							
Protection		Square Ft.							
Temp. Partitions		Square Ft.							
Polyethylene		Square Ft.							
Remove Plaster		Square Ft.							
Remove Drywall		Square Ft.							
Remove Ceiling Tile		Square Ft.							
Remove & Clean Light Fixtures		Each							
Protect Grills & Registers		Each							
Remove Fireproofing		Square Ft.							
Remove Boiler Insulation		Square Ft.							
Remove Pipe Insulation by Size		Lineal Ft.							
Abate Fittings by Size		Each							
Remove Breaching of Flue Insulation		Square Ft.							
Remove Duct Insulation by Size		Lineal Ft.							
Glove Bags		Each							
Remove V.A.T.		Square Ft.							
Remove Mastic with Solvent		Square Ft.							
Remove Mastic Bead Blast		Square Ft.							
Remove Transite Pipe by Size		Lineal Ft.							
Remove Transite Board		Square Ft.							
Remove Contaminated Soil		S.F. / C.Y.							
Load & Haul Waste		Loads							
Dump Fee		Cubic Yd.							
Final Clean		Square Ft.							
Reinsulation Pipe or Duct by Size		Linear Ft.							
Reinsulate Fittings by Size		Each							
Patch Fireproofing		Square Ft.							
Encapsulate		Square Ft.							
Equipment (Pre-List)		Each							
Scaffolding Per Job									
Highlift									
Electrical with Lighting									
Mechanical - Heat, Vent & Plumbing									
General Conditions									
Overhead & Profit									
Bond & Insurance									
CAF									

INSTRUCTIONS FOR COMPLETING ASBESTOS ABATEMENT PROJECT SUMMARY

Purpose of Asbestos Abatement Project Summary

The state uses this information to determine what buildings were included in a particular CDB project. In addition, for each building in the project, the summary indicates the areas that were abated, the type and amount of materials and the percent of cost for each. Any change orders should be reflected on the summary. The summary should reflect the work actually completed as it may differ from the original scope of work. If any work in the project was not related to abatement of ACM or asbestos contaminated materials, the percent of the project cost should be indicated on the form.

Directions For Completing Project Summary [See corresponding numbers on attached Summary]

1. Enter CDB Project Number.
2. Enter CDB Building Name and Number.
3. Enter name and phone # of the person who prepared the form, as well as the date it was prepared.
4. Enter page numbers, i.e. 1 of 1, 1 of 3, etc. Use a separate form for each building.
5. If project costs for this building are not all ACM related, enter non ACM% on this line.
6. Enter location within building from which material was abated such as floor, wing, room, etc.
7. Enter the approximate amount in square feet, linear feet or number under the column of the type of material that was abated. USE A SEPARATE LINE FOR EACH DIFFERENT TYPE OF MATERIAL.
8. Enter the type of abatement (removal, enclosure, encapsulation or repair) that was performed.
9. Enter the percent of the total project cost that is associated with the abatement of this type of material. THE PERCENT OF COST MUST ADD UP TO 100% WHEN ALL PAGES ARE ADDED TOGETHER.

APM FINAL REPORT REQUIREMENTS

Within 60 days of final clearance testing, the Asbestos Project Manager will submit the Final Report to the following:

A/E :	1 copy
Contractor :	1 copy
Using Agency:	2 copies
CDB :	1 copy
I.D.P.H.:	1 copy (if applicable)

The A/E shall distribute the reports in electronic format with letters of transmittal sent to the CDB Project Manager.

Reports for IDPH-regulated projects shall be submitted on hard-copy, unbound, with tabs. The following information shall be provided on the front cover sheet:

Job Title	Building Name	Building No.
CDB Project Number		
Using Agency	City	County
APM/ASP	Name and Address	
Project Designer	Name and Address	Seal and Signature
Date	Date of Final Clearance	
CDB Logo		

The Final Report is to have a Table of Contents. Each Section of the Report is to be tabbed and titled. Pages within each Section are to be numbered. The report shall follow the IDPH format, shall be submitted to CDB and to the Using Agency in an electronic format and shall include the following:

- Section A) Project Manager's Report Form provided by IDPH.
- Section B) Items submitted by the Contractor under Section 833.350(a).
- Section C) For clearance air samples, include the location of the sample, start and end times of sampling, sampling air flow rate, volume of air sampled, name and address of laboratory performing the analysis and name and address of the analyst.
 - i) When final air clearance monitoring samples are analyzed by a laboratory using TEM, include a copy of the NVLAP certificate for airborne fiber analysis for the laboratory.
 - ii) When final air clearance monitoring samples are analyzed by PCM in a laboratory, include a copy of the Proficiency analytical Testing (PAT) program's year-to-date performance report for the laboratory.

- iii) When final air clearance monitoring samples are analyzed by an analyst outside of a laboratory, include a copy of the report of the performance testing under the Asbestos Analyst Registry (AAR) Program for the analyst for the testing round completed prior to the completion of the project, but not after the completion of the project.

- Section D) Names, license numbers, current training certificates and medical clearance certificate for asbestos abatement workers who conducted the abatement.

- Section E) Name, address and license number of the asbestos contractor.

- Section F) Names, addresses, license numbers, initial and current training certificates and certificate of medical clearance for the project designer, project manager and contractor's supervisor(s) and signature of the project manager.

- Section G) Name, signature and license number of each air sampling professional.

- Section H) Log of negative pressure measurements taken by the contractor for contained areas. The readable tape for the manometer shall serve as the log. This is only applicable to IDPH-regulated projects.

- Section I) Variance requests submitted to CDB and/or IDPH and the responses to those requests.

- Section J) Locations, times and results of background, personal and area air samples taken prior to and during the project.

- Section K) A detailed description, diagram or blueprint indicating the location of ACBM abated, locations of barriers and locations of decontamination enclosures.

- Section L) A detailed description of the project, including abatement methods employed, reasons for the project and for the selection of abatement methods, description of types and amounts of ACBM abated, and start and completion dates of the project.

- Section M) Daily log of observations made by the project manager, including a description of project activities, documentation of smoke-testing of barriers by the contractor, documentation of post-abatement visual inspection of each work area, and description of procedures used during clearance air sampling.

- Section N) Items submitted by the contractor under Section 855.350(c)(d).

- Section O) For cleaning performed in accordance with Sections 855.400(f)(1)(A), (D) and (E), include the names of persons performing the cleaning, the date and locations of the cleaning and the methods used.

Article 3 GUIDELINES FOR LEAD

3.1 General

The majority of paint manufacturers utilized lead (Pb) paint formulations prior to 1978. In 1978, the use of lead-based paint for residential use was banned; in 1990 lead-based paint was prohibited for CDB projects. Most paints today do not contain quantities of lead sufficient to be categorized as lead-based coatings; however, there are still some paints which do contain sufficient lead to be categorized as lead-based.

3.2 Sampling (paint chip) & Testing (XRF)

As required by the Professional Services Agreement, the A/E shall provide for the selective testing of materials to be affected by the project. The A/E shall recommend to CDB the number of samples to be taken, and written approval shall be issued by the CDB Project Manager prior to testing. Existing materials integral to the project shall be tested, as well as any adjacent materials that are affected by the construction. Such materials shall be categorized as CDB recommends: walls, ceilings and trim (windows, doors and frames) - 5 samples per category. Sampling shall be conducted by a licensed inspector. If sample analysis is required, then the laboratory used shall be accredited by the Environmental Lead Laboratory Accreditation Program.

Paint containing more than five-tenths of one percent ($\frac{1}{2}\%$ or .5%) lead by weight is considered lead-based paint (LBP). Costs incurred in the sampling and testing of materials are reimbursable expenses. Results of the testing shall be included in Section 02090 of the Project Manual.

3.3 Design

Should testing indicate the presence of LBP, regulations established by the Occupational Safety and Health Administration (OSHA) and the Illinois Environmental Protection Agency (IEPA) are applicable to the project. If the project site is utilized for either public housing or for day care purposes, then guidelines established by the U.S. Department of Housing and Urban Development (HUD) are applicable as well.

In the project documents, identify all LBP. The A/E shall indicate in 01010.2.B. of the Project Manual the existing conditions where lead paint is located. See the attached page of Section 01010. Specify remediation in Section 02090 - Lead-Based Paint Removal. IDPH notification is required only in residential and day care projects.

If asbestos abatement activities are being conducted in conjunction with lead remediation, then the A/E shall maximize all opportunities to combine similar activities and equipment items such as containment barriers and negative-air machines.

Clearance sampling shall be required following all LBP-related activities and shall conform to current HUD requirements. All interior LBP removal shall be conducted within containment areas. Critical barriers shall be maintained, drop cloths shall be utilized on floors and additional protection of adjacent finishes shall be provided as necessary. If removal is to occur adjacent to an occupied area, or if the site is to be re-occupied, then negative air pressure is required within the containment area. Containment utilizing opaque barriers may be required for all exterior removal.

3.4 Construction

The Lead Construction Standard (OSHA 1926.62) has been in effect since June 4, 1993 and all construction activities shall be conducted in accord with this standard. The permissible exposure limit (PEL) for lead is 50 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) and the action level is 30 $\mu\text{g}/\text{m}^3$. Both levels are for an 8-hour time weighted average (TWA). The OSHA standard also requires contractors to perform an exposure assessment for each project. It is the responsibility of the A/E to provide on-site representation during the critical activities.

3.5 Disposal

If demolition/construction debris containing LBP still adhered to the substrate is generated from a non-residential structure, the waste may be handled as general refuse. However, if the LBP is removed from the original substrate to which it was adhered, then the waste is a special waste. The waste shall be analyzed by the Toxicity Characteristic Leaching Procedure (TCLP). LBP waste that meets the definition of special waste is hazardous if it has a concentration of lead equal to or greater than 5.0 mg/l as determined by TCLP. In addition, other parameters shall be below the regulatory limits for toxicity and other characteristics and listings. The Resource Conservation Recovery Act (RCRA) establishes LBP regulations. The handling and disposal of hazardous waste shall be conducted in accordance with the RCRA regulations applicable to the activity being conducted. LBP waste shall be stabilized prior to disposal in a facility that is permitted by IEPA to accept the waste.

3.6 Transportation of LBP Waste.

Anyone who hauls or transports special waste shall have a current, valid waste hauling permit issued by the IEPA.

Note: Any person who is transporting special waste for a generator who generates less than 100 kilograms (220 pounds) of special LBP waste in a calendar month is exempt from this requirement. The Contractor shall submit all waste manifests to CDB with their respective pay request.

3.7 Indemnification

The State of Illinois will indemnify A/E's for testing and contractors for remediation in accord with the Response Action Contractor's Indemnification Act (RACIA).

3.8 Attachments.

- A. Section 01010 - Project Summary
- B. IDPH Notice of Commencement, Lead Abatement/Mitigation Project

DIVISION 1 - GENERAL REQUIREMENTS
Section 01010 - Project Summary

1. GENERAL

- A. STANDARD DOCUMENTS FOR CONSTRUCTION: CDB's September, 2002 edition of the "Standard Documents for Construction" apply to this project.
- B. IN-HOUSE ARCHITECT/ENGINEER: (OPTIONAL PARAGRAPH) The staff of (*Agency) has prepared the bidding and contract documents for the project and will assume duties of the A/E described in the Standard Documents for Construction.

2. GENERAL PROJECT INFORMATION

- A. DESCRIPTION:(*)
- B. EXISTING CONDITIONS:
 - 1. *Paint (*) in this project (*location and extent) has been determined to contain lead (Pb) as indicated in the documents. Any work which will disturb the paint (*) shall comply with OSHA 1926.62 (Lead Construction Standard) and EPA disposal regulations including TCLP testing when required.*
- C. RELATED WORK
 - 1. WORK BY OTHERS:
 - 2. FUTURE WORK:

3. CONTRACT TIME: See Section 01310 of the Standard Documents for Construction.

The Contractor shall complete all the work in accord with the Contract within * _____ consecutive calendar days from the date of the Notice of Award.

**NOTICE OF COMMENCEMENT
LEAD ABATEMENT/MITIGATION PROJECT**

Fax or mail this notice at least 10 working days or 14 calendar days prior to commencement of any lead abatement or mitigation projects

TO: Lead Abatement Program
Division of Environmental Health
Illinois Department of Public Health
525 W. Jefferson Street
Springfield, IL 62761
tel. (217) 782-3517
fax (217) 557-1188

Contractor Name: _____

Contractor Illinois ID Number: _____

Address of Lead Abatement Project: _____

Project Start Date: _____ Project Completion Date: _____

Owner's Name: _____

Owner's Address (if different than listed above) : _____

Phone: _____

Illinois Licensed Contractor/Supervisor: _____

Contractor/Supervisor Illinois ID Number: _____

Signature of Contractor's Authorized Representative

Phone: _____ Date: _____

Date Received

All environmental lead samples shall be analyzed by a laboratory on the National Lead Laboratory Accreditation Program List.

Article 4 UNDERGROUND STORAGE TANKS

4.1 UST/Regulatory Responsibilities

- A. The Office of the State Fire Marshall (OSFM) is charged with enforcing the regulations regarding USTs and ASTs in Illinois. Technical questions regarding USTs or ASTs should be addressed to that office. Permits are issued by the OSFM for tank removal, abandonment and new installations. Fire safety is handled by the Chicago Office of the Fire Marshal.
- B. Illinois Emergency Management Agency (IEMA) is notified when a release of product is discovered and forwards this information to the IEPA for eventual enforcement of clean-up. In case of fire hazards or life safety issues, they will be first line of authority.
- C. The Illinois Environmental Protection Agency (IEPA) will be involved with site classifications, site remedial activities and final approval of site cleanup.
- D. The Capital Development Board is the construction management arm of State Government, as such, the CDB is involved with A/E selection, contract administration, bid advertisement and project management.

4.2 Contract Person and Phone Numbers

IEPA: Cliff Wheeler or Russ Irwin 217/782-6761
(Environmental requirements)

OSFM: Dale Tanke or Bill Alderson 217/785-5878
(UST removal/installation permits)
Ken Woods 312/814-2693
(Fire safety issues or questions)

IEMA: 217/782-7860 (To report a release from an UST)
Must be reported within 24 Hrs.

CDB: Tom Heck 217/782-8698 (Environmental programs)
Stan Gralnick 217/782-1523 (Programming or funding questions)

4.3 Attachments.

- A. Document 00300 - Bid Form
- B. Section 02115 - Underground Storage Tank Removal
- C. Section 02120 - Excavation, Transportation and Disposal of Contaminated Soil
- D. Section 02130 - Removal of Contaminated Groundwater
- E. Section 13200 - Aboveground Storage Tank Installation

BIDDING & CONTRACT REQUIREMENTS

Document 00300 - Bid Form

NAME OF FIRM _____

FOR GENERAL WORK

BID FOR: CDB PROJECT NUMBER: (*__-__-__)

PROJECT TITLE: Removal and replacement of (*underground and/or aboveground) storage tanks.

BID TO: State of Illinois, Capital Development Board

THE BIDDER ACKNOWLEDGES THE FOLLOWING ADDENDA: (Failure to acknowledge may cause bid rejection.)

NO._____, DATED _____ NO._____, DATED _____ NO._____, DATED _____
NO._____, DATED _____ NO._____, DATED _____ NO._____, DATED _____

EACH BID SHALL INCLUDE:

- THE BID FORMS, INCLUDING THE PC-2 FORM (*, AND THE MBE/FBE FORM).
- BID SECURITY
- PRODUCT SUBSTITUTION FORM (at Bidder's option)

BASE BID: THE BIDDER AGREES TO PERFORM ALL WORK FOR THE ABOVE TRADE, EXCLUSIVE OF ALTERNATE BIDS, FOR THE SUM OF:

\$_____ DOLLARS (\$_____)

(*UNIT PRICES:)

ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE BID	COST EXTENSION
1.(*02120-Excavating, Transporting, & Disposal of Contaminated Soil	(*Ton)	(*)	x \$ _____ = \$ _____	
2.(*02130-Removal of Contaminated Water	(*Gal.)	(*)	x \$ _____ = \$ _____	
3.(*02223-Additional Backfilling & Compacting	(*CY)	(*)	x \$ _____ = \$ _____	
4.(*CONTINUE AS APPROPRIATE) (Requires Prior Written Approval By CDB)			x \$ _____ = \$ _____	

SUM OF ALL COST EXTENSIONS ARE INCLUDED IN THE BASE BID

\$_____

(*ALTERNATE BID NO.): (*ADD TO)(*DEDUCT FROM) THE BASE BID THE SUM OF:

\$_____DOLLARS (\$_____)

Note: Any qualifying or conditional statements included on the bid form or attached to the bid form may result in rejection of the bid unless rescinded by the bidder.

PRODUCT SUBSTITUTION FORM ATTACHED: ?

BIDDING & CONTRACT REQUIREMENTS

Document 00300 - Bid Form

THE BIDDER AGREES TO:

1. Hold this bid open for 60 calendar days after bid opening date or as required in the project manual.
2. Enter into and execute a contract with CDB if awarded on the basis of this bid.
3. Comply with the Contract Documents with respect to all bonds, insurance, work requirements and schedule.
4. Conform to the goals established for the utilization of minority and female workers and subcontractors/suppliers as included in the Contract Documents.
5. Pay CDB, as a Construction Administration Fee (\$*_____) as specified in Project Manual Section 01010 which is included in the Base Bid price.
6. Comply with the Contract Documents with respect to Contract Time as specified in Project Manual Section 01010.
7. Comply with the provisions in Article 46, Alternative Dispute Resolution of the SDC.
8. Complete the work in accordance with the contract time as specified in Project Manual Section 01010.
9. **IF APPLICABLE**, comply with the requirements of Project Manual or portion thereof as pursuant to the Response Action Contractor's Indemnification Act.

THE BIDDER MAKES THE FOLLOWING REPRESENTATIONS AND CERTIFICATIONS:

- A. A surety company has agreed to issue Bonds required by the Bid Documents for this work if this bid is accepted by CDB.
- B. The Bidder is not barred from contracting with any unit of state or local government as a result of violating the bid rigging or bid rotating provisions contained in 720 ILCS 5/33E-3 and 720 ILCS 5/33E-4.
- C. The Bidder is not barred from contracting with the State of Illinois as a result of a bribery conviction per 30 ILCS 505/10.2.

CONTRACTOR:

SIGNATURE:

Firm Name: _____

TITLE: _____

Address: _____

For Corporations only, Attested By:

FEIN: _____

Corporate Secretary

Telephone: _____

FAX: _____

Date: _____

DIVISION 2 - GENERAL REQUIREMENTS
Section 02115 - Underground Storage Tank Removal

1. GENERAL

1.1 REQUIREMENTS INCLUDE

A. General Contractor shall provide:

1. Licensed supervision of underground tank removal.
2. Reports, notices and acquisition of required permits.
3. Protection of persons and property.
4. Workers who have completed 40-hour OSHA hazardous material training.
5. Work area preparation.
6. Demolition work at:
 - a. Excavation and disposal of soils sufficient to remove underground tanks and piping.
 - b. Underground (*)-gallon gasoline tank, piping and accessories.
 - c. Underground (*)-gallon fuel tank, piping, and accessories. Tank was installed in (*) tank material of construction is steel.
 - d. Reinforced concrete anchor slab and accessories beneath tanks if present.
 - e. Pumps, motors, motor controls, electrical wiring and conduit, dispensers, concrete slab-on-grade, guard posts, and miscellaneous accessories.
7. Restore excavations with backfill and seed.

1.2 RELATED WORK

A. Specified Elsewhere:

1. 01010 - Project Summary.
2. 01060 - Regulatory Requirements.
3. 01200 - Project Meetings.
4. 01700 - Contract Closeout.
5. 01710 - Final Cleaning.
6. 02936 - Seeding.

1.3 WORK BY OTHERS

- A. Architect/Engineer will provide sampling and testing services for soils and groundwater contamination.
- B. Contractor shall notify A/E seven days in advance of tank removal at the following address:
 1. (*)

1.4 QUALITY ASSURANCE. Comply with applicable requirements of USEPA, IEPA, OSFM, and OSHA regulation.

1.5 REFERENCES

- A. Standards: Specified Standard, in effect at date of bidding documents, are hereby incorporated by reference to the same extent as if they were included herein in full. The Standards, or cited portions thereof, govern all underground storage tank removal.
- B. API - American Petroleum Institute.
- C.
- D. ANSI - American National Standards Institute, 1430 Broadway, New York City, NY 10018.
- E.
- 3. ASTM - American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.
- 4. Federal Standard:
 - a. OSHA - Occupational Safety and Health Administration, 200 Constitution Avenue, Washington, DC 20210.
 - b. USEPA - Environmental Protection Agency, 401 Main Street, SW, Washington, DC 20560.
- 5. State Standard: IEPA - Illinois Environmental Protection Agency: Illinois Administrative Code 35 Part 732 (Tank Regulations) and 35 Part 742 (Cleanup Objectives), effective July 1, 1997.

1.6 SUBMITTALS

- A. Before Start of Work: Submit the following to the A/E for review. No work shall begin until these submittals are returned with the A/E's action stamp indicating the submittal is satisfactory.
 - A. Notices: Submit notices required by federal, state, and local regulations together with proof of timely transmittal to agency requiring notice.
 - B. Permits: Obtain all building and special permits required for the underground storage tank removal work. The cost of these fees are the contractor's responsibility.
 - C. Licenses: Submit copies of all state and local licenses and permits necessary to carry out the work of this Contract.
 - D. Health and Safety Plan: Plan shall conform to applicable federal, state, and local laws, regulations and ordinances, including 29 CFR

1910.120 et.seq. Contractor personnel shall conform to Health and Safety Plan throughout performance of work.

- B. Manifests: Submit copies of all load tickets and manifests. Certifying destination, receipt, and disposal of demolition materials.
- C. Results: Submit copies of all laboratory test results.

1.7 NOTIFICATIONS

- A. Contractor shall notify A/E no less than seven (7) days prior to commencement of any work activities.
- B. The Contractor shall submit an application for a permit for removal of an Underground Storage Tank to the Office of the State Fire Marshall (OSFM) a minimum of forty-five (45) days prior to commencement of work activities.
- C. The Contractor shall submit notification to the local fire department thirty (30) days prior to commencement of work.
- D. The Contractor shall renotify the OSFM and the local fire department seventy-two (72) hours prior to commencement of work activities.
- E. The Contractor shall be required to file the EPA 7530-1 Notification of Closure of Underground Storage Tanks to the OSFM after tank removal.
- F. If release should occur, the Using Agency (with the assistance of the Contractor and A/E) is responsible for notifying the Illinois Emergency Services and Disaster Agency within twenty-four (24) hours of release.
- G. The A/E shall be present on site before any cutting, cleaning or tank removal can proceed.

1.8 UNDERGROUND OBSTRUCTIONS

- A. Known underground piping, foundations, and other underground obstructions in vicinity of new construction are shown on Drawing.
- B. Protect underground facilities encountered during excavation until it is determined whether they are active or inactive. Repair, without compensation, existing active facilities shown on Drawing damaged during operations.
- C. Notify A/E of unexpected subsurface conditions and discontinue Work in area until A/E provides notification to resume Work.

1.9 SEQUENCING/SCHEDULING

A. Perform all work in accord with approved Construction Schedule.

1.10 WARRANTY. Warrant all work in accord with General Conditions for a time period of one year.

2. PRODUCTS

2.1 FILL MATERIALS

- A. Fine aggregate: IDOT Standard FA-1.

3. EXECUTION

3.1 GENERAL REQUIREMENTS

- A. Remove existing construction as specified and shown.
- B. Perform removal in a manner which will minimize dust, noise, and other nuisance. Maintain haul routes for disposal of material clean and free of debris.
- C. Protect existing facilities from damage by falling debris, dust, and construction operations.
- D. Perform demolition operations in a manner that in no way endangers personnel, public, existing structures, utilities, roadways, or facilities not to be demolished.
- E. Contractor shall be responsible for damage to personnel, public, roadways, streets, structures, utilities, facilities, and equipment caused by operations and shall repair any damage at its own expense or replace items damaged beyond repair.
- F. Perform work in a manner which will provide the least interference and most protection to the public and existing construction. Contractor's operations are subject to approval prior to commencement of work.
- G. Materials to be removed will not be permitted to accumulate on site. Remove all demolition materials.
- H. Any portion of existing construction whether structural, or accessory, which has become unstable through removal of other parts of construction, shall be removed as soon as practicable, and no such unstable part shall be left free-standing or inadequately braced against causes of collapse at the end of each day's work.
- I. Backfill materials shall conform to requirements of this specification section.
- J. Do not operate vehicles or equipment on existing construction or roadways which could be damaged.
- K. No demolition shall be performed on piping, electrical circuits, or equipment until system has been isolated by Using Agency. Contractor shall verify isolation of system.

- L. Contractor shall relocate existing active miscellaneous piping, conduit, and electrical circuits and devices not detailed on Drawing.
- M. Replace construction removed to facilitate operations with construction of equal quality to that removed.

3.2 REMOVAL PROCEDURES

- A. Work shall be performed in accordance with American Petroleum Institute (API) Recommended Practice 1604 Removal and Disposal of Used Underground Petroleum Storage Tanks, 41 Illinois Administrative Code, and any referenced standards.
- B. Provide monitoring equipment at site as required by the Site Health and Safety Plan. Operate and maintain in accordance with manufacturer's recommendations. Monitoring equipment shall include an organic vapor detector and an explosimeter.
- C. Clearly identify exclusion zone around vapor hazard area in accordance with Site Health and Safety Plan and use only explosive proof equipment within exclusion zone.
- D. Regularly monitor atmosphere in excavation area and tank using an explosimeter until tank is removed from site. Monitor tank at bottom, middle, and top levels.
- E. Removal of remaining product:
 - 1. Contents shall be removed from tank and associated piping.
 - 2. Remove all liquid from tank using explosion proof pumps. All equipment must be bonded to tank and tank must be grounded to a separate ground when purging tank with compressed air or inert gas under pressure.
 - 3. Tank contents shall be properly disposed of in accordance with IEPA and IDOT regulations.
 - 4. Transport vehicles for tank contents shall not remain on-site for more than twenty-four (24) hour period.
 - 5. Disposal of tank contents, sludge, tank cleanings, wash water and cleaning solutions are a separate Contractor expense, not a reimbursable item, and not included in contaminated water unit price quantity.
- F. Excavation:
 - 1. During excavation, extreme caution shall be exercised in order to maintain the integrity of the Underground Storage Tank.
 - 2. Provide shoring and bracing where necessary to support existing construction and protect personnel during demolition in accordance with Occupational Safety and Health Agency's construction standard

1926.650-652. Additional standard or codes shall apply if more stringent.

3. Excavation shall be done in the presence of A/E who will check material for possible contamination using an organic vapor analyzer (OVA). Excavated material shall be placed in a separate stockpile pending disposal. The stockpile shall be located on an impermeable surface and shall be kept covered with plastic sheeting.
4. If a release is discovered, immediately notify Office of State Fire Marshal and A/E. Discontinue work until A/E provides notification to resume.

G. Removal of Mechanical Items:

1. Remove mechanical equipment and materials in areas shown and specified. Removal shall include, but not be limited to, fill, gauge, vent, and product delivery piping, valves, pumps, dispenser, concrete slab-on-grade, guard posts, and associated accessories.
2. Remove underground piping to building foundation and cap.
3. Pipe trenches shall remain open for inspection by OSFM tank specialist.

H. Removal of Electrical Items:

1. Remove electrical equipment and materials in areas shown and specified. Removal shall include, but not be limited to conduit, wiring, wiring devices, motors, motor controls, and associated controls for level and leak detectors.
2. For conduit and wiring extending beyond demolition area, remove conduit to nearest junction box or fitting, remove wire to its point of origin, and cover opening in box or fitting. Cap underground conduit at building foundation.
3. Electrical Connections: Do not remove any electrical connections until Using Agency de-energizes circuit. The contractor shall verify that de-energization has occurred and shall comply with lockout tagout requirements as stipulation by OSHA.

I. Underground Storage Tank Removal:

1. Do not initiate any tank removal until authorization has been given by O.S.F. M. On-site inspector.
2. Before tank is removed from excavation, plug or cap all accessible tank holes. One plug shall have 1/8 inch vent hole. Tank shall be positioned with vent plug on top of tank during subsequent transport and storage.
3. Complete excavation around tank. Remove tank from excavation and place on level surface. Use wood blocks to prevent movement of tank after removal and prior to loading for transport from site.
4. Spills or drips shall be contained to prevent contamination of soils during removal.

J. Underground Storage Tank Cleaning:

1. Tank cleaning procedures shall be conducted in accordance with API Recommended Practice 2015.
2. Cut holes in tank to facilitate tank cleaning. Total surface area of holes cut into tank shall be minimum of 2% of total surface area of tank, or a minimum of 9 square feet each opposite side or end. Contractor shall have a minimum of two fire extinguishers on-site during cutting of tank.
3. Tank cleaning activities shall take place within twenty-four (24) hours of tank removal from excavation site.

K. Soil Sampling:

1. A/E will assess tank closure including taking of samples from excavation area. If test results show no contamination, Contractor shall resume work. If soil contamination is present, discontinue work until A/E provides notification to resume.
2. CDB may elect to apply Unit Adjustment Prices for Contractor remediation of soil and groundwater contamination.

L. Backfilling Excavation:

1. Use structural fill, defined as fine aggregate conforming to IDOT Standard FA-1.
2. Place in 8" maximum lifts and compact to 95% maximum density as determined by ASTM D1557.

3.3 SALVAGE OF MATERIALS. Salvageable materials shall become property of Contractor and shall be removed from site as work progresses.

3.4 DISPOSAL OF MATERIALS

A. Contractor shall be responsible for proper disposal of all project derived waste material. This includes, but is not limited to, excess excavated material, nonsalvageable equipment and materials, tank, any sand, liquid, fuel, or sludge contained in tank, and cleaning water used to clean tank. Waste material shall be transported and disposed of using transporters and disposal facilities which possess all required federal, state or local licenses or permits. Submit manifests certifying destination, receipt, and disposal of demolition materials.

B. Burning of waste lumber and other materials or trash on site will not be permitted.

C. No material, obstructions, or debris shall be placed or allowed to accumulate within 15' of any fire hydrant. Fire hydrants shall be accessible at all times.

3.5 CLEANUP

- A. Maintain public streets, alleys, or other thoroughfares used in carrying out disposal free of litter or soil attributable to this operation. Equip and load trucks or other vehicles to prevent leakage, blowing off, or other escape of any portion of whatsoever is being hauled. Cost incurred by CDB or Using Agency in cleaning up such litter will be charged to Contractor and deducted from monies due or to become due it under this contract.
- B. Upon completion of demolition work, thoroughly clean area of materials not to remain. Cleanup activities shall be in accordance with IEPA LUST Guidance manual.
- C. Leave areas in clean condition.

END 02115.

DIVISION 2 - GENERAL REQUIREMENTS
Section 02120 - Excavation, Transportation and
Disposal of Contaminated Soil

1. GENERAL

1.1 REQUIREMENTS INCLUDE

A. (*Coordinating) (*General) Contractor shall provide:

1. Excavation of contaminated soils where indicated by Architect/Engineer (A/E).
2. Temporary placement of contaminated soils on site at areas indicated by Using Agency. Contaminated soils shall be placed on and covered by 6-mil polyethylene sheeting.
3. Loading of contaminated soils.
4. Transportation of contaminated soils to landfill for disposal.
5. Preparation of manifests.
6. Payment of landfill fees.
7. Acquisition of disposal permit.
8. Laboratory analysis required for permit acquisition.

1.2 RELATED WORK

A. Specified Elsewhere:

1. 01010 - Project Summary.
2. 01060 - Regulatory Requirements.
3. 02093 - Underground Storage Tank Abandonment-In-Place.
4. 02115 - Underground Storage Tank Removal.

1.3 SITE ASSESSMENT

A. Architect/Engineer (A/E) will conduct a site assessment of soils and/or groundwater as indicated in Section 02115 - Underground Storage Tank Removal.

1.4 REGULATORY COMPLIANCE

A. The Contractor shall perform the work under this section in accordance with the local, county, IEPA, USEPA, IDOT, and OSHA regulations.

1.5 SUBMITTALS

A. Disposal Facility Information:

1. Name.

2. Address.
 3. Phone Number.
 4. Site Contract.
 5. Illinois Facility Identification Number.
- B. Completed manifests.
- C. Weight tickets from facility.
- D. Permit.
- E. Laboratory analysis required for permit acquisition.
- 1.6 NOTIFICATIONS. Contractor shall notify A/E no less than seven (7) days prior to loading and transport of contaminated soils.
- 1.7 SEQUENCING/SCHEDULING. Perform all work in accord with approved Construction Schedule (See Section 01310).
- 1.8 PERMIT FEES. Contractor shall include in his unit price bid, the cost associated with obtaining a permit for the disposal of contaminated soils.
- 1.9 RECORD KEEPING
- A. Contractor shall provide documentation of labor, equipment, and materials used for excavation, transportation, and disposal of contaminated soil when requested to do so by CDB or A/E.
 - B. The documentation shall be in a format as required for CDB to complete Illinois Environmental protection Agency Underground Storage Tank Reimbursement forms.
- 1.10 PAYMENT. Payment will be made at the contract unit price specified for this section in accordance with Section 01026.

2. PRODUCTS

- 2.1 EXCAVATION, TRANSPORTATION AND DISPOSAL OF CONTAMINATED SOIL. For all work, use only materials and equipment complying with federal, state, county, and local rules and regulations.

3. EXECUTION

3.1 EXCAVATION

- A. Remove soil above and around underground storage tank in horizontal layers. A/E will field screen soil to determine if soil is contaminated.

- B. Place contaminated soils on 6-mil polyethylene sheeting until subsequent loading, transportation, and disposal.
- 3.2 LOADING. Load contaminated water from temporary stockpile into truck trailers for subsequent transportation and disposal.
- 3.3 TRANSPORTATION
- A. Transporter shall be licensed special waste hauler in the State of Illinois.
 - B. Provide and complete manifests required for transportation and disposal.
- 3.4 DISPOSAL
- A. Provide copies of weight tickets from landfill.
 - B. Provide copies of completed manifests executed by transporter and disposal facility.

END 02120.

DIVISION 2 - GENERAL REQUIREMENTS
Section 02130 - Removal of Contaminated Groundwater

1. GENERAL

1.1 REQUIREMENTS INCLUDE

A. (*Coordinating) (*General) Contractor shall provide:

1. Removal of perched contaminated water from underground storage tank excavations by pumping, bailing or other methods.
2. Temporary storage of contaminated water in IDOT approved 55-gallon drums or other IDOT approved containers.
3. Loading of contaminated water.
4. Transportation of contaminated water to an IEPA permitted disposal facility.
5. Preparation of manifests.
6. Payment of disposal facility fees.
7. Acquisition of disposal permits.
8. Laboratory analysis required for permit acquisition.
9. All labor, equipment, and materials required for the removal of contaminated water.

1.2 RELATED WORK

A. Specified Elsewhere:

1. 01010 - Project Summary.
2. 01060 - Regulatory Requirements.
3. 01410 - Testing Laboratory Services.
4. 02093 - Underground Storage Tank Abandonment-In-Place.
5. 02115 - Underground Storage Tank Removal.
6. 02120 - Excavation, Transportation and Disposal of Contaminated Soil.

1.3 SITE ASSESSMENT. Architect/Engineer (A/E) will conduct a site assessment of soils and/or groundwater in the underground storage tank excavation as indicated in Section 02115 - Underground Storage Tank Removal and Section 02093 - Underground Storage Tank Abandonment-In-Place.

1.4 REGULATORY COMPLIANCE. The Contractor shall perform the work under this section in accordance with the local, county, IEPA, IDOT, and OSHA regulations.

1.5 SUBMITTALS

- A. Disposal Facility Information:
 - 1. Name.
 - 2. Address.
 - 3. Phone Number.
 - 4. Site Contract.
 - 5. Illinois Facility Identification Number.
 - B. Completed manifests.
 - C. Weight tickets from facility.
 - D. Permit.
 - E. Laboratory analysis required for permit acquisition.
- 1.6 NOTIFICATIONS. Contractor shall notify A/E no less than seven (7) days prior to loading and transport of contaminated groundwater.
- 1.7 SEQUENCING/SCHEDULING. Perform all work in accord with approved Construction Schedule (See Section 01310).
- 1.8 PERMIT FEES. Contractor shall include in his unit price bid, the cost associated with obtaining a permit for the disposal of contaminated water.
- 1.9 RECORD KEEPING
- A. Contractor shall provide documentation of labor, equipment, and materials used for removal, transportation, and disposal of contaminated groundwater when requested to do so by CDB or A/E.
 - B. The documentation shall be in a format as required for CDB to complete Illinois Environmental protection Agency Underground Storage Tank Reimbursement forms.
- 1.10 PAYMENT. Payment will be made at the contract unit price per gallon for this section in accordance with Section 01026.

2. PRODUCTS

- 2.1 REMOVAL OF CONTAMINATED GROUNDWATER. For all work, use only materials and equipment complying with federal, state, county, and local rules and regulations.

3. EXECUTION

3.1 REMOVAL

- A. A/E will field screen perched water in underground storage tank excavation to determine if water is contaminated. A/E may elect to submit water samples to laboratory analysis. Excavations shall remain open while laboratory analysis is in progress.
- B. Contractor shall remove water from excavation by pumping, bailing, or other methods approved by A/E. The groundwater shall be placed in IDOT approved containers and may need to be temporarily stored on-site.

3.2 TEMPORARY ON-SITE STORAGE. If temporary on-site storage of contaminated water is required, place containers on-site at area indicated by Using Agency.

3.3 LOADING. Load contaminated water from temporary stockpile into truck trailers for subsequent transportation and disposal.

3.4 TRANSPORTATION

- A. Transporter shall be licensed special waste hauler in the State of Illinois.
- B. Provide and complete manifests required for transportation and disposal.

3.5 DISPOSAL

- A. Provide copies of weight/gallonage tickets from disposal facility.
- B. Provide copies of completed manifests executed by transporter and disposal facility.

END 02130.

DIVISION 13 - GENERAL REQUIREMENTS
Section 13200 - Aboveground Storage Tank Installation

1. GENERAL

1.1 REQUIREMENTS INCLUDE

A. (*Coordinating) (*General) Contractor shall provide:

1. Supervision of aboveground storage tank installation.
2. Acquisition of all state (OSFM), county, and local permits required for installation of aboveground storage tanks.
3. Reinforced concrete base slabs.
4. Miscellaneous equipment such as vents, fill pipes, hose filters, meters, pumps, hoses, nozzles, fittings, electrical grounding connections, anchor bolts, electrical work, and all other equipment necessary for complete installations.
5. All labor, equipment and materials required for aboveground storage tank installation.
6. (*A/E NOTE: Insert tank information here)

1.2 RELATED WORK

A. Specified Elsewhere:

1. 16001 - Electrical Work.

1.3 REGULATORY COMPLIANCE

- A. Contractor shall perform work under this Section in accordance with all local, county, IEPA, USEPA, OSFM, and OSHA regulations.
- B. Tank installer shall be registered with OSFM.

1.4 SUBMITTALS

- A. Outline drawings of tanks showing all critical dimensions and locations of fill pipes, fittings, and pumps.
- B. Installation instructions and warranty data.
- C. Operation and maintenance manuals for pumps and meters.
- D. Copies of aboveground storage tank installation permit.
- E. Manufacturer's tank shop test results.

1.5 NOTIFICATIONS

- A. Contractor shall submit application for installation of aboveground storage tank to OSFM, county and local officials no less than forty-five (45) days prior to commencement of work activities.
- B. Contractor shall renotify OSFM, county and local officials seventy-two (72) hours prior to commencement of work activities.

1.6 DELIVERY, STORAGE, AND HANDLING. Handle tanks in strict accordance with manufacturer's instructions. Lift tanks only at designated lift points and support tank in accordance with manufacturer's recommendations.

1.7 WARRANTIES

- A. Manufacturer shall warrant tank for period of one (1) year following date of substantial completion of work in accordance with General Conditions.
- B. Manufacturer shall warrant pumps for period of one (1) year following date of substantial completion.
- C. Contractor shall warrant that installation shall be free from defects for period of one (1) year following date of substantial completion of work in accordance with General Conditions.

1.8 PERMIT FEES. Contractor shall obtain, all aboveground storage tank installation permits.

2. PRODUCTS

2.1 ABOVEGROUND STORAGE TANKS

- A. Construction: Double-wall, carbon steel in conformance to UL 142.
- B. Shape: Cylindrical or rectangular, horizontal.
- C. Fittings: As required to meet Code requirements. Provide grounding connections.
- D. Capacity: Tanks shall be commercially available, standard manufactured nominal capacities.

1. (*Continue as appropriate)

E. Shop Painting:

- 1. Apply paints in shop prior to shipment in accordance with (*Specify as appropriate.)

- manufacturer's instructions.
- 2. Primer: Manufacturer's standard.
- 3. Finish Coat: Red gloss alkyd enamel.
- 4. Lettering: Apply white stenciled 2" high lettering or decals on each end of tanks to read "DIESEL FUEL, FLAMMABLE, KEEP FIRE AND FLAME AWAY" or "GASOLINE, FLAMMABLE, KEEP FIRE AND FLAME AWAY" as appropriate for tank contents.

F. UL Label: Tanks shall bear Underwriter's Laboratories UL 142 label.

G. Tank lifting lugs shall be capable of withstanding tank weight with safety factor of 3:1.

2.2 TANK ACCESSORIES

A. Tank Nozzles:

- 1. Vent.
- 2. Emergency vent.
- 3. Fill with lockable cap, drop tube and overflow prevention valve.
- 4. Pump/dispenser.
- 5. Interstitial monitoring/inspection.
- 6. Level gauge.
- 7. Other nozzles as required to meet applicable codes.

B. Dispensing Pump and Meter Assemblies:

- 1. Type: Top-mounted, suction type, electric operated, suitable for gasoline, gasohol, and diesel fuel. Cast iron, stainless steel and aluminum construction, padlockable, integral metering. UL listed.
- 2. Flow Meters: Electric operated with resettable counter measuring in 0.1 gallon increments plus non resettable totalizer showing cumulative use. Commercial style, not for retail use.
- 3. Flow Rate: 15 GPM.
- 4. Manufacturer: (*Specify)

C. Miscellaneous Accessories:

- 1. BUNA hoses, 3/4" diameter, 15' long with high hose retrievers.
- 2. Dispensing nozzles with automatic shutoff and anti-siphon valve.
- 3. Vent assembly, 2" diameter, 8' high minimum with brass screen; emergency vent assembly, 6" diameter.
- 4. Canister type fuel filters with cartridges.
- 5. Float type level gauges.
- 6. Other accessories required for a complete installation.

3. EXECUTION

3.1 INSPECTION. Verify that existing conditions are ready to receive work.

3.2 PREPARATION

- A. Prepare site in accordance with manufacturer's installation instructions.
- B. Construct concrete base slab.

3.3 INSTALLATION

- A. Install new aboveground storage tanks in accordance with all federal, state, county, and local rules and regulations for temporary and permanent installation.
- B. Fuel dispenser shall be mounted on end of tank.
- C. Bracket for mounting dispenser shall be installed by tank manufacturer.
- D. Dispenser shall be mounted not more than four (4) feet above concrete apron.
- E. Ground tanks to grounding rods in accordance with regulations.

3.4 TESTING

- A. Tanks shall be tested in accordance with manufacturer's installation requirements by Contractor under observation of Architect/Engineer and representative of Illinois Office of the State Fire Marshal prior to filling tanks with fuels. At a minimum, tanks shall be capable of holding 5 psi of air for test period of one hour in both annular space and tank interior. While tank is under pressure, tank and fittings shall be checked for leaks with soap/water mixture.

3.5 RESTORATION OF SURFACES

- A. Restore any scratched or scraped painted surfaces in accordance with manufacturer's instructions.

END 13200.

Article 5 PCBs

5.1 Federal Regulations. There are two primary Federal Laws which affect the disposal of PCB ballasts:

- A. Toxic Substances Control Act (TSCA)
- B. Superfund Law (Comprehensive Environmental Response, Compensation and Liability Act or "CERCLA")

TSCA states that it is permissible to dispose of non-leaking ballasts in a sanitary landfill, while Superfund prohibits the disposal of more than one pound of PCB's (16 or more ballasts) in a sanitary landfill. Prudent policy would follow the more stringent of the two regulations.

5.2 TSCA. TSCA does not regulate the disposal of non-leaking, intact "small capacitors", defined as containing less than three pounds of PCB dielectric fluid. Ballasts contain a small capacitor and are unregulated for disposal.

- A. The exceptions to this rule are as follows:
 - 1. If the capacitor or ballast is leaking
 - 2. If the asphalt potting material inside the ballast contains PCB's in excess of 50 ppm.
- B. If a ballast meets either criteria, it must be disposed of by incineration in a TSCA approved facility or a chemical waste landfill. For practical reasons it is better to incinerate them.

5.3 Superfund Laws. Under superfund laws, PCB's are listed as a hazardous substance. The release or "threat of release" of more than one pound of PCB's into the environment triggers a superfund notification and cleanup requirement.

Since 16 ballasts collectively contain roughly one pound of PCB's, a conservative interpretation is that 16 or more ballasts in a landfill triggers a superfund action.

5.4 State Regulations. It is recommended that the State Environmental Protection Agency be contacted for specific requirements for each project.

5.5 Identifying PCB Ballasts. Nearly all ballasts made prior to 1979 contain PCB's. Ballasts made after July 1, 1978 that do not contain PCB's are required to be clearly marked "No PCB's".

Most ballasts contain a date stamp in the metal base plate. Look for both the date stamp and the "No PCB's" marking. Unmarked ballasts should be classed as PCB ballasts. Sort PCB vs Non-PCB ballasts because of the difference in disposal or recycling cost.

5.6 Identifying Leakers. Most leaks are visible. If oil is visible on the surface of the ballast, it is a leaker. PCB oil is either clear or yellow. The presence of asphalt may indicate a leaker but is not a positive indication. If in doubt, treat as PCB contaminated.

5.7 Ballast Removal.

- A. Wear proper chemical resistant protective gloves and clothing.
 - 1. Clip off wire leads on the ballast as close as possible to the ballast.
 - 2. Pack ballasts in steel drums and label. Most people use 55 gallon drums.
 - 3. Leakers should be placed individually in double plastic bags before putting in drums.
- B. A drum can hold approximately 200 ballasts, but loaded drum weight should not exceed 750 pounds for safety purposes.

5.8 Drum Labeling. Check with the Illinois Environmental Protection Agency for latest requirements.

5.9 Disposal.

- A. Options
 - 1. Chemical waste landfill (recommended with reservations)
 - 2. Whole ballast incineration in PCB incinerator (recommended)
 - 3. Capacitor removal/incineration and recycling (recommended)
- B. Waste Manifests - the contractor shall submit all waste manifest to CDB with their respective pay requests.

5.10 PCB Leaks.

Because of the small amount of PCB's in a ballast notification is not required, unless the leak is into surface waters, sewers or drinking water. All leaks must be cleaned up and area decontaminated. All solvents, rags and other materials used in the cleanup must be properly disposed of as PCB waste.

5.11 Attachments.

- A. Section 16462 - PCB Containing Equipment Removal and Disposal

DIVISION 16 - ELECTRICAL
Section 16462 - PCB Containing Equipment
Removal and Disposal

1. GENERAL

1.1 WORK INCLUDES

A. Base Bid: (*)

1. Electrical/PCB Equipment Disposal Contractor provide: (*)
 - a. Testing and labeling of PCB filled electrical equipment as required by law.
 - b. Reclassification of PCB (*and/or) (*PCB contaminated) transformers identified on the drawing and in the Specification documents.
 - c. Remove and lawfully dispose or destroy PCB containing transformers including PCB and PCB contaminated transformer fluids as identified on the drawings and in the specification documents.
 - d. Provide all shipment and disposal tracking documentation required by law and specifications.
 - e. (*Continue as appropriate.)

B. Alternate Bids: (*) (*A/E: Coordinate with 01030.)

1. Electrical/PCB Equipment Disposal Contractor: (*)
 - a. Alternate Bid (*E-*): (*)
 - b. (*Continue as appropriate.)

1.2 RELATED WORK (*)

A. Specified Elsewhere:

1. (*)
2. (*Continue as appropriate)

1.3 QUALITY ASSURANCE (*)

A. Regulatory Requirements:

1. DOT Requirements: Transporting PCB and PCB contaminated materials shall be in accordance with Department of Transportation (DOT) Hazardous Materials Regulations in 49 CFR 171-179, and 40 CFR 390-397 as applicable. Also comply with State and Local requirements, including obtaining all necessary permits, licenses and approvals.
2. Environmental Protection Agency 40 CFR Chapter 1 (7-1-86 Editions, Part 761).

3. The Illinois Response Action Contractor Indemnification Act, as amended (Public Act 84-1445) hereinafter referred to as "the Indemnification Act." (Contractor for this project will be considered as a Response Action Contractor.)

1.4 REFERENCES. Specified references, or cited portions thereof, current at date of bidding documents unless otherwise specified, govern the work. In conflict between referenced standards and contract documents, notify Architect/Engineer immediately. Confirm notification in writing. Do not proceed with the work until Architect/Engineer issues written instructions.

1.5 SUBMITTALS (*)

A. In accord with 01340, submit:

1. Transformer Test Data.
2. Procedures for:
 - a. Reclassification
 - b. Removal
 - c. Disposal or destruction

2. PRODUCTS

2.1 TRANSFORMER REMOVAL AND DISPOSAL/DESTRUCTION (*)

- A. Provide labor, equipment, necessary packaging, materials, labels, placards and any and all materials, services and transportation necessary to safely remove and dispose of all PCB filled transformers including PCB and PCB contaminated transformer fluids in accordance with all Federal, State, and local laws, statutes, rules, regulations and ordinances.
- B. Provide competent and properly trained employees for safe and lawful transporting of the hazardous materials named in this bid proposal and assume full and complete responsibility for the competency, judgement, and actions of said employees at all times, and Using Agency will not assume, and will be under no obligation whatsoever for the same.
- C. Assume full liability for any spill, leak, or uncontrolled discharge from any item made a part of this bid proposal, once the contractor commences work. In event of any spill, leak, or uncontrolled discharge, contractor shall provide all necessary cleanup, labor, equipment, materials, and assume all associated costs resulting from the incident with all such cleanup material being transported and disposed of in accordance with all Federal, State, local statutes, laws, rules, regulations, and ordinances in effect at time of incident and cleanup operations.

- D. Provide to the Using Agency certificates of final disposal from the disposal facility indicating name, location, and EPA disposal number for all items in this bid proposal prior to any payment for services. Certificates shall be in a form acceptable to the Using Agency.
- E. Provide within ten (10) days after Notice of Award, the contractor's EPA permits for handling and disposal of these hazardous waste items and the DOT transportation permit numbers.
- F. Firms offering removal and disposal services as follows:
1. Retrotex: 1700 Gateway Boulevard, South East, Canton, Ohio 44704.
 2. Ohio Transformer Corp.: 1776 Construction Avenue, Post Office Box 191, Louisville, Ohio 44641.
 3. National Electric Service: 21400 Hamberg Avenue, Lakeville, Minnesota 55044.
 4. Set Liquid Waste Systems: 350 Sumac Road, Wheeling, Illinois 60090.
 5. U. S. Ecology: 9200 Shelbyville Road, Suite 526, Louisville, Kentucky.
 6. Westinghouse Electric Corp. 2145 Welsch Industrial Court, St. Louis, Missouri 63146.
 7. ENSR Corporation: 1660 Renoir Lane, Creve Coeur, Missouri 63146.
 8. Solomon Electric Supply, Inc.: Post Office Box 245, Soloman, Kansas 67480.
 9. DYNEX: 4751 Mustang Circle, St. Paul, Minnesota 55112.
 10. AmerEco: Route 1, Box 159, Kingsville, MO 64061
- G. Firms Offering: Removal and Destruction Services:
1. S.D. Myers, Inc., 180 South Avenue, Tallmadge, Ohio 44278
 2. Unison, Ashtabula, Ohio.
 3. Aptus, Coffeyville, Kansas.
- H. Inspect project site and examine all affected transformers in project. Be fully responsible for ascertaining the extent to which all sited and referenced regulatory requirements affect the required and specified work.

2.2 INTERRUPTION OF SERVICE

- A. The work shall be arranged so that the power outages are kept at a minimum and minimum time per outage. Whenever power outages are necessary, the Using Agency and Architect/Engineer shall be notified at least 15 days before. No power outages shall occur, unless this contractor is given written permission by the Using Agency.

- B. Where necessary, provide temporary power services while work is being performed. The Contractor shall furnish the required and specified equipment, material and labor for such temporary power service and shall fully coordinate such work with the Using Agency.

END 16462.