

May 27, 2016

SUBJECT: FAP Route 10A (IL 111/IL 267) Project HSR-0010(079) Section 129-R-2-HSR Jersey County Contract No. 76H63 Item No. 128, June 10, 2016 Letting Addendum A

NOTICE TO PROSPECTIVE BIDDERS:

Attached is an addendum to the plans or proposal. This addendum involves revised and/or added material.

- 1. Replaced the Schedule of Prices
- 2. Revised page iii of the Table of Contents to the Special Provisions
- 3. Added pages 170-186 to the Special Provisions
- 4. Revised sheets 14 and 22 to the Plans

Prime contractors must utilize the enclosed material when preparing their bid and must include any Schedule of Prices changes in their bidding proposal.

Bidders using computer-generated bids are cautioned to reflect any and all Schedule of Prices changes, if involved, into their computer programs.

Very truly yours,

Maureen M. Addis, P.E. Acting Bureau Chief of Design & Environment

a alsochere AE,

By: Ted B. Walschleger, P. E. Engineer of Project Management

cc: Jeffrey L. Keirn, Region 5, District 8; Tim Kell; Estimates

CWR

State Job # - C-98-016-15

County Name -JERSEY- -Code -83 - -District -8 - -Section Number -129-R-2-HSR

Project Number HSR-0010/079/ *REVISED: MAY 25, 2016 Route FAP 10A AND DAVID LN

ltem Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
X0200002	PCC BASE COURSE 4"	SQ YD	9,910.000				
X0323569	STEEL POST REMOVAL	EACH	2.000				
X0325003	REM EX VALVE & VAULT	EACH	6.000				
X0326390	CONCRETE SLAB REMOVAL	SQ YD	36.000				
X0326747	SANITARY FORCE MAIN 6	FOOT	979.000				
X0327548	SEW AIR VAC VALV COMP	EACH	2.000				
X0839900	SAN SEW REMOV 6	FOOT	915.000				
X1200068	FORCE MN BYPASS PUMP	L SUM	1.000				
X1200069	STEEL CASINGS 12 SS	FOOT	20.000				
X5010523	REM CONC END SEC	EACH	2.000				
X5610700		FOOT	2,432.000				
X5610746	WM LINE STOP 6	EACH	3.000				
X5610748		EACH	2.000				
X5630706		EACH	2.000				
	CONN TO EX W MAIN 8	EACH	2.000				

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ltem Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
X5631106	CONN TO EX F MAIN 6	EACH	1.000				
X6020290	MAN TA 7D SPL F&G	EACH	1.000				
X6020399	CONNECT EX MANHOLE	EACH	1.000				
X6026050	SANITARY MANHOLE ADJ	EACH	1.000				
X6050040	REMOV MANHOLES SPL	EACH	1.000				
X6660445	ROW/PROPERTY CORNERS	EACH	33.000				
X7010216	TRAF CONT & PROT SPL	L SUM	1.000				
X7040125	PIN TEMP CONC BARRIER	EACH	2,028.000				
X7801004	WR THPL PM LINE 4	FOOT	5,510.000				
X7801024	WR THPL PM LINE 24	FOOT	44.000				
X7830060	GRV RCSD PM LTR & SYM	SQ FT	154.000				
X7830070	GRV RCSD PVT MRKG 5	FOOT	15,196.000				
X7830074	GRV RCSD PVT MRKG 7	FOOT	186.000				
X7830076	GRV RCSD PVT MRKG 9	FOOT	11.000				
X7830078	GRV RCSD PVT MRKG 13	FOOT	249.000				

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ltem Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
X7830090	GRV RCSD PVT MRKG 25	FOOT	142.000				
Z0007601	BLDG REMOV NO 1	L SUM	1.000				
Z0007602	BLDG REMOV NO 2	L SUM	1.000				
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.000				
Z0016702	DETOUR SIGNING	L SUM	1.000				
Z0022800	FENCE REMOVAL	FOOT	1,047.000				
Z0034105	MATL TRANSFER DEVICE	τον	196.000				
Z0044500		EACH	1.000				
Z0044800		EACH	2.000				
Z0048665		L SUM	1.000				
*ADD Z0049901		L SUM	1.000				
Z0051398		EACH	3.000				
Z0056648		FOOT	56.000				
Z0058048		SQ YD	4,999.000				
	STEEL CASINGS 12	FOOT	4,999.000				

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ltem Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
Z0067400	STEEL CASINGS 14	FOOT	26.000				
Z0077803	REMOV WOOD POST	EACH	5.000				
20100110	TREE REMOV 6-15	UNIT	370.000				
20100210	TREE REMOV OVER 15	UNIT	302.000				
20101000	TEMPORARY FENCE	FOOT	10.000				
20200100	EARTH EXCAVATION	CU YD	12,098.000				
20201200	REM & DISP UNS MATL	CU YD	15,873.000				
20400800	FURNISHED EXCAVATION	CU YD	4,625.000				
20800150	TRENCH BACKFILL	CU YD	152.000				
21001000	GEOTECH FAB F/GR STAB	SQ YD	5,643.000				
25000210	SEEDING CL 2A	ACRE	7.500				
25000400	NITROGEN FERT NUTR	POUND	673.000				
25000500	PHOSPHORUS FERT NUTR	POUND	673.000				
25000600	POTASSIUM FERT NUTR	POUND	673.000				
25100115	MULCH METHOD 2	ACRE	5.250				

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ltem Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
25100630	EROSION CONTR BLANKET	SQ YD	10,969.000				
28000250	TEMP EROS CONTR SEED	POUND	2,196.000				
28000305	TEMP DITCH CHECKS	FOOT	592.000				
28000400	PERIMETER EROS BAR	FOOT	1,180.000				
28000500	INLET & PIPE PROTECT	EACH	33.000				
28100127	STONE RIPRAP CL B4	SQ YD	174.000				
28200200	FILTER FABRIC	SQ YD	174.000				
30300108	AGG SUBGRADE IMPR 8	SQ YD	5,643.000				
31100300	SUB GRAN MAT A 4	SQ YD	1,738.000				
31101900	SUB GRAN MAT C	TON	470.000				
35100100	AGG BASE CSE A	TON	913.000				
35101100	AGG BASE CSE A 12	SQ YD	11,857.000				
35101400	AGG BASE CSE B	TON	461.000				
40200800	AGG SURF CSE B	TON	349.000				
40201000	AGGREGATE-TEMP ACCESS	TON	1,450.000				

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ltem Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
40600275	BIT MATLS PR CT	POUND	2,841.000				
40600990	TEMPORARY RAMP	SQ YD	133.000				
40603315	HMA SC "C" N70	TON	215.000				
40800025	BIT MATLS PR CT	POUND	2,816.000				
40800050	INCIDENTAL HMA SURF	TON	248.000				
42000200	PCC PVT 7	SQ YD	1,423.000				
42000400	PCC PVT 9	SQ YD	8,948.000				
42400100	PC CONC SIDEWALK 4	SQ FT	156.000				
44000100	PAVEMENT REM	SQ YD	15,001.000				
44000200	DRIVE PAVEMENT REM	SQ YD	2,013.000				
44000600	SIDEWALK REM	SQ FT	208.000				
44004250	PAVED SHLD REMOVAL	SQ YD	2,585.000				
48100700	AGGREGATE SHLDS A 8	SQ YD	4,240.000				
48203029	HMA SHOULDERS 8	SQ YD	17.000				
48300200	PCC SHOULDERS 7	SQ YD	253.000				

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ltem Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
48300400	PCC SHOULDERS 9	SQ YD	2,749.000				
50100100	REM EXIST STRUCT	EACH	1.000				
50102400	CONC REM	CU YD	1.600				
50104400	CONC HDWL REM	EACH	4.000				
50105220	PIPE CULVERT REMOV	FOOT	800.000				
542A0223	P CUL CL A 1 18	FOOT	302.000				
542A0229	P CUL CL A 1 24	FOOT	186.000				
542A1081	P CUL CL A 2 36	FOOT	112.000				
5421D012	P CUL CL D 1 12 TEMP	FOOT	513.000				
5421D024	P CUL CL D 1 24 TEMP	FOOT	50.000				
54213657	PRC FLAR END SEC 12	EACH	2.000				
54213663	PRC FLAR END SEC 18	EACH	16.000				
54213669	PRC FLAR END SEC 24	EACH	9.000				
54213681	PRC FLAR END SEC 36	EACH	2.000				
	PRC FL END S EQ RS 30	EACH	1.000				

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ltem Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
54217700	R C PIPE TEE 36P 24R	EACH	1.000				
54248510	CONCRETE COLLAR	CU YD	2.000				
550A0090	STORM SEW CL A 1 18	FOOT	157.000				
550A0120	STORM SEW CL A 1 24	FOOT	54.000				
550A4300	SS CL A 1 EQRS 30	FOOT	12.000				
56100600	WATER MAIN 6	FOOT	25.000				
56100700	WATER MAIN 8	FOOT	2,414.000				
56104900	WATER VALVES 6	EACH	1.000				
56105000	WATER VALVES 8	EACH	2.000				
56400500	FIRE HYDNTS TO BE REM	EACH	4.000				
56400825	FIRE HYD W/A V VB & T	EACH	4.000				
56500300	DOM MET VLTS ADJ	EACH	1.000				
56500400	DOM MET VLTS REM	EACH	18.000				
56500500	DOM MET VLTS	EACH	11.000				
60236200	INLETS TA T8G	EACH	2.000				

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ltem Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
60248900	VV TA 5 DIA T1F CL	EACH	5.000				
60265900	VV ADJ NEW T1F CL	EACH	1.000				
60500060	REMOV INLETS	EACH	2.000				
63500105	DELINEATORS	EACH	24.000				
66600105	FUR ERECT ROW MARKERS	EACH	38.000				
66700205	PERM SURV MKRS T1	EACH	19.000				
66900200	NON SPL WASTE DISPOSL	CU YD	5,900.000				
66900450	SPL WASTE PLNS/REPORT	L SUM	1.000				
66900530	SOIL DISPOSAL ANALY	EACH	9.000				
67000400	ENGR FIELD OFFICE A	CAL MO	8.000				
67100100	MOBILIZATION	L SUM	1.000				
70103815	TR CONT SURVEILLANCE	CAL DA	45.000				
70106800	CHANGEABLE MESSAGE SN	CAL MO	16.000				
70200100	NIGHT WORK ZONE LIGHT	L SUM	1.000				
70300100	SHORT TERM PAVT MKING	FOOT	936.000				

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ltem Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
70300150	SHRT TRM PAVT MK REM	SQ FT	314.000				
70300210	TEMP PVT MK LTR & SYM	SQ FT	123.000				
70300220	TEMP PVT MK LINE 4	FOOT	61,267.000				
70300240	TEMP PVT MK LINE 6	FOOT	4,295.000				
70300280	TEMP PVT MK LINE 24	FOOT	181.000				
70400100	TEMP CONC BARRIER	FOOT	2,952.000				
70400200	REL TEMP CONC BARRIER	FOOT	1,343.000				
70600250	IMP ATTN TEMP NRD TL3	EACH	9.000				
70600350	IMP ATTN REL NRD TL3	EACH	2.000				
72000100	SIGN PANEL T1	SQ FT	76.000				
72400100		EACH	7.000				
72400200	REMOV SIN PAN ASSY TB	EACH	6.000				
72400500		EACH	8.000				
72400600		EACH	8.000				
	WOOD SIN SUPPORT	FOOT	333.000				

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ltem Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
78009000	MOD URETH PM LTR-SYM	SQ FT	154.000				
78009004	MOD URETH PM LINE 4	FOOT	15,196.000				
78009006	MOD URETH PM LINE 6	FOOT	186.000				
78009008	MOD URETH PM LINE 8	FOOT	11.000				
78009012	MOD URETH PM LINE 12	FOOT	249.000				
78009024	MOD URETH PM LINE 24	FOOT	142.000				
78100100	RAISED REFL PAVT MKR	EACH	100.000				
78200011	BARR WALL REF TYPE C	EACH	69.000				
78300100	PAVT MARKING REMOVAL	SQ FT	31,244.000				
80500020		EACH	1.000		 		• · · · · · · · · · · · · · · · · · · ·
89000100		EACH	1.000				

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76H63

THIS IS THE TOTAL BID \$

NOTES:

- 1. Each PAY ITEM should have a UNIT PRICE and a TOTAL PRICE.
- 2. The UNIT PRICE shall govern if no TOTAL PRICE is shown or if there is a discrepancy between the product of the UNIT PRICE multiplied by the QUANTITY.
- 3. If a UNIT PRICE is omitted, the TOTAL PRICE will be divided by the QUANTITY in order to establish a UNIT PRICE.
- 4. A bid may be declared UNACCEPTABLE if neither a unit price nor a total price is shown.

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BUILDING REMOVAL - CASE IV (NO ASBESTOS) (BDE)

Effective: September 1, 1990

Revised: April 1, 2010

BUILDING REMOVAL: This work shall consist of the removal and disposal of one building, together with all foundations, retaining walls, and piers, down to a plane 1 ft (300 mm) below the ultimate or existing grade in the area and also all incidental and collateral work necessary to complete the removal of the building in a manner approved by the Engineer. Any holes, such as basements, shall be filled with a suitable granular material. The building is identified as follows:

<u>Bldg. No.</u>	Parcel <u>No.</u>	Location	Description	
2	8T1S626	33882 Woodgate Court Brighton, IL 62012	Storage Shed	

Discontinuance of Utilities: The Contractor shall arrange for the discontinuance of all utility services and the removal of the metering devices that serve the building according to the respective requirements and regulations of the City, County, or utility companies involved. The Contractor shall disconnect and seal, in an approved manner, all service outlets that serve the building he/she is to remove.

Signs: Immediately upon execution of the contract and prior to the wrecking of any structures, the Contractor shall be required to paint or stencil, in contrasting colors of an oil base paint, on all four sides of each residence and two opposite sides of other structures, the following sign:

PROPERTY ACQUIRED FOR HIGHWAY CONSTRUCTION TO BE DEMOLISHED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION VANDALS WILL BE PROSECUTED

The signs shall be positioned in a prominent location on the structure so that they can be easily seen and read and at a sufficient height to prevent defacing. The Contractor shall not paint signs nor start demolition of the building prior to the time that the State becomes the owner of the respective building.

Basis of Payment: This work will be paid for at the contract lump sum unit price for BUILDING REMOVAL, numbers as listed above, which price shall be payment in full for complete removal of the buildings and structures, including any necessary backfilling material as specified herein.

The lump sum unit price(s) for this work shall represent the cost of demolition. Any salvage value shall be reflected in the contract unit price for this item.

Notifications: The "Demolition/Renovation Notice" form, which can be obtained from the IEPA office, shall be completed and submitted to the address listed below at least ten days prior to commencement of any demolition activity.

Asbestos Demolition/Renovation Coordinator Illinois Environmental Protection Agency Division of Air Pollution Control P. O. Box 19276 Springfield, Illinois 62794-9276 (217)785-1743

Notices shall be updated if there is a change in the starting date or the amount of asbestos changes by more than 20 percent.

Submittals:

- A. All submittals and notices shall be made to the Engineer except where otherwise specified herein.
- B. Prior to starting work, the Contractor shall submit proof of written notification and compliance with the "Notifications" paragraph.

BUILDING REMOVAL - CASE II (NON-FRIABLE ASBESTOS ABATEMENT) (BDE)

Effective: September 1, 1990

Revised: April 1, 2010

BUILDING REMOVAL: This work shall consist of the removal and disposal of <u>one</u> building(s), together with all foundations, retaining walls, and piers, down to a plane 1 ft (300 mm) below the ultimate or existing grade in the area and also all incidental and collateral work necessary to complete the removal of the building(s) in a manner approved by the Engineer. Any holes, such as basements, shall be filled with a suitable granular material. The building(s) are identified as follows:

Bldg. No.	Parcel No.	Location	Description
1	8T1S626	33882 Woodgate Court Brighton, IL 62012	1 story masonry structure with basement and an asphalt shingled roof

Discontinuance of Utilities: The Contractor shall arrange for the discontinuance of all utility services and the removal of the metering devices that serve the building(s) according to the respective requirements and regulations of the City, County, or utility companies involved. The Contractor shall disconnect and seal, in an approved manner, all service outlets that serve the building(s) he/she is to remove.

Signs: Immediately upon execution of the contract and prior to the wrecking of any structures, the Contractor shall be required to paint or stencil, in contrasting colors of an oil base paint, on all four sides of each residence and two opposite sides of other structures, the following sign:

PROPERTY ACQUIRED FOR HIGHWAY CONSTRUCTION TO BE DEMOLISHED BY THE ILLINOIS DEPARTMENTOF TRANSPORTATION VANDALS WILL BE PROSECUTED

The signs shall be positioned in a prominent location on the structure so that they can be easily seen and read and at a sufficient height to prevent defacing. The Contractor shall not paint signs nor start demolition of any building(s) prior to the time that the State becomes the owner of the respective building(s).

The Contractor has the option of removing the non-friable asbestos prior to demolition or demolishing the building(s) with the non-friable asbestos in place. Refer to the Special Provisions titled "Asbestos Abatement (General Conditions)" and "Removal and Disposal of Non-Friable Asbestos Building No. 1", contained herein.

Basis of Payment: This work will be paid for at the contract lump sum unit price for BUILDING REMOVAL, numbers as listed above, which price shall be payment in full for complete removal of the buildings and structures, including any necessary backfilling material as specified herein. The lump sum unit price(s) for this work shall represent the cost of demolition and disposal assuming all non-friable asbestos is removed prior to demolition. Any salvage value shall be reflected in the contract unit price for this item.

<u>EXPLANATION OF BIDDING TERMS</u>: Two separate contract unit price items have been established for the removal of the building. They are:

- 1. BUILDING REMOVAL NO. 1
- 2. REMOVAL AND DISPOSAL OF NON-FRIABLE ASBESTOS, BUILDING NO. 1

The Contractor shall have two options available for the removal and disposal of the non-friable asbestos.

The pay item for removal and disposal of non-friable asbestos will not be deleted regardless of the option chosen by the Contractor.

ASBESTOS ABATEMENT (GENERAL CONDITIONS): This work consists of the removal and disposal of non-friable asbestos from the building(s) to be demolished. All work shall be done according to the requirements of the U.S. Environmental Protection Agency (USEPA), the Illinois Environmental Protection Agency (IEPA), the Occupational Safety and Health Administration (OSHA), the Special Provision for "Removal and Disposal of Non-Friable Asbestos, Building No. 1", and as outlined herein.

Sketches indicating the location of Asbestos Containing Material (ACM) are included in Appendix A. Also refer to the Materials Description Table in Appendix B for a brief description and location of the various materials. Also included is a Materials Quantities Table in Appendix C. This table states the ACM is non-friable and gives the approximate quantity. The quantities are given only for information and it shall be the Contractor's responsibility to determine the exact quantities prior to submitting his/her bid.

The work involved in the removal and disposal of non-friable asbestos if done prior to demolition, shall be performed by a Contractor or Sub-Contractor prequalified with the Illinois Capital Development Board.

The Contractor shall provide a shipping manifest, similar to the one shown in Appendix D, to the Engineer for the disposal of all ACM wastes.

Permits: The Contractor shall apply for permit(s) in compliance with applicable regulations of the Illinois Environmental Protection Agency. Any and all other permits required by other federal, state, or local agencies for carrying on the work shall be the responsibility of the Contractor. Copies of the permit(s) shall be sent to the district office and the Engineer.

Notifications: The "Demolition/Renovation Notice" form, which can be obtained from the IEPA office, shall be completed and submitted to the address listed below at least ten days prior to commencement of any asbestos removal or demolition activity. Separate notices shall be sent for the asbestos removal work and the building demolition if they are done as separate operations.

Asbestos Demolition/Renovation Coordinator Illinois Environmental Protection Agency Division of Air Pollution Control P. O. Box 19276 Springfield, Illinois 62794-9276 (217) 785-1743

Notices shall be updated if there is a change in the starting date or the amount of asbestos changes by more than 20 percent.

Submittals:

- A. All submittals and notices shall be made to the Engineer except where otherwise specified herein.
- B. Submittals that shall be made prior to start of work:
 - 1. Submittals required under Asbestos Abatement Experience.
 - 2. Submit documentation indicating that all employees have had medical examinations and instruction on the hazards of asbestos exposure, on use and fitting of respirators, on protective dress, on use of showers, on entry and exit from work areas, and on all aspects of work procedures and protective measures as specified in Worker Protection Procedures.
 - 3. Submit manufacturer's certification stating that vacuums, ventilation equipment, and other equipment required to contain airborne fibers conform to ANSI 29.2.
 - 4. Submit to the Engineer the brand name, manufacturer, and specification of all sealants or surfactants to be used. Testing under existing conditions will be required at the direction of the Engineer.
 - 5. Submit proof that all required permits, site locations, and arrangements for transport and disposal of asbestos-containing or asbestos-contaminated materials, supplies, and the like have been obtained (i.e., a letter of authorization to utilize designated landfill).

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- 6. Submit a list of penalties, including liquidated damages, incurred through non- compliance with asbestos abatement project specifications.
- 7. Submit a detailed plan of the procedures proposed for use in complying with the requirements of this specification. Include in the plan the location and layout of decontamination units, the sequencing of work, the respiratory protection plan to be used during this work, a site safety plan, a disposal plan including the location of an approved disposal site, and a detailed description of the methods to be used to control pollution. The plan shall be submitted to the Engineer prior to the start of work.
- 8. Submit proof of written notification and compliance with the "Notifications" paragraph.
- C. Submittals that shall be made upon completion of abatement work:
 - 1. Submit copies of all waste chain-of-custodies, trip tickets, and disposal receipts for all asbestos waste materials removed from the work area;
 - 2. Submit daily copies of work site entry logbooks with information on worker and visitor access;
 - 3. Submit logs documenting filter changes on respirators, HEPA vacuums, negative pressure ventilation units, and other engineering controls; and
 - 4. Submit results of any bulk material analysis and air sampling data collected during the course of the abatement including results of any on-site testing by any federal, state, or local agency.

Certificate of Insurance:

- A. The Contractor shall document general liability insurance for personal injury, occupational disease and sickness or death, and property damage.
- B. The Contractor shall document current Workmen's Compensation Insurance coverage.
- C. The Contractor shall supply insurance certificates as specified by the Department.

Asbestos Abatement Experience:

- A. Company Experience. Prior to starting work, the Contractor shall supply evidence that he/she has been prequalified with the Illinois Capital Development Board and that he/she has been included on the Illinois Department of Public Health's list of approved Contractors.
- B. Personnel Experience:
 - 1. For Superintendent, the Contractor shall supply:
 - a. Evidence of knowledge of applicable regulations in safety and environmental protection is required as well as training in asbestos abatement as evidenced by the successful completion of a training course in supervision of asbestos abatement as specified in 40 CFR 763, Subpart E, Appendix C, EPA Model Contractor Accreditation Plan. A copy of the certificate of successful completion shall be provided to the Engineer prior to the start of work.
 - b. Documentation of experience with abatement work in a supervisory position as evidenced through supervising at least two asbestos abatement projects; provide names, contact, phone number, and locations of two projects in which the individual(s) has worked in a supervisory capacity.
 - 2. For workers involved in the removal of asbestos, the Contractor shall provide training as evidenced by the participation and successful completion of an accredited training course for asbestos abatement workers as specified in 40 CFR 763, Subpart E, Appendix C, EPA Model Contractor Accreditation Plan. A copy of the certificate of successful completion shall be provided to all employees who will be working on this project.

<u>ABATEMENT AIR MONITORING</u>: The Contractor shall comply with the following:

- A. Personal Monitoring. All personal monitoring shall be conducted per specifications listed in OSHA regulation, Title 29, Code of Federal Regulation 1926.58. All area sampling shall be conducted according to 40 CFR Part 763.90. All air monitoring equipment shall be calibrated and maintained in proper operating condition. Excursion limits shall be monitored daily. Personal monitoring is the responsibility of the Contractor. Additional personal samples may be required by the Engineer at any time during the project.
- B. Interior Non-Friable Asbestos-Containing Materials. The Contractor shall perform personal air monitoring during removal of all non-friable Transite and floor tile removal operations. The Engineer will also have the option to require additional personal samples and/or clearance samples during this type of work.

- C. Exterior Non-Friable Asbestos-Containing Materials. The Contractor shall perform personal air monitoring during removal of all non-friable cementitious panels, piping, roofing felts, and built up roofing materials that contain asbestos.
- The Contractor shall conduct downwind area sampling to monitor airborne fiber levels at a frequency of no less than three per day.
- D. Air Monitoring Professional
 - All air sampling shall be conducted by a qualified Air Sampling Professional supplied by the Contractor. The Air Sampling Professional shall submit documentation of successful completion of the National Institute for Occupational Safety and Health (NIOSH) course #582 - "Sampling and Evaluating Airborne Asbestos Dust".
 - 2. Air sampling shall be conducted according to NIOSH Method 7400. The results of these tests shall be provided to the Engineer within 24 hours of the collection of air samples.

<u>REMOVAL AND DISPOSAL OF NON-FRIABLE ASBESTOS, BUILDING NO. 1</u>: The Contractor has the option of removing and disposing of the non-friable asbestos prior to demolition of the building(s) or demolishing the building(s) with the non-friable asbestos in place.

Option #1 - If the Contractor chooses to remove all non-friable asbestos prior to demolition, the work shall be done according to the Special Provision titled "Asbestos Abatement (General Conditions)".

Option #2 - If the Contractor chooses to demolish the building with the non-friable asbestos in place, the following provisions shall apply:

- 1. Continuously wet all non-friable ACM and other building debris with water during demolition.
- 2. Dispose of all demolition debris as asbestos containing material by placing it in lined, covered transport haulers and placing it in an approved landfill.

This work will be paid for at the contract unit price per lump sum for REMOVAL AND DISPOSAL OF NON-FRIABLE ASBESTOS, BUILDING NO. 1, as shown.

Added 5-27-16

The cost for this work shall be determined as follows:

Option #1 - Actual cost of removal and disposal of non-friable asbestos.

Option #2 - The difference in cost between removing and disposing of the building if all non- friable asbestos is left in place and removing and disposing of the building assuming all non-friable asbestos is removed prior to demolition.

The cost of removing and disposing of the building, assuming all non-friable asbestos is removed first, shall be represented by the pay item "BUILDING REMOVAL NO. 1".

Regardless of the option chosen by the Contractor, this pay item will not be deleted, nor will the pay item BUILDING REMOVAL NO. 1 be deleted.

APPENDIX A

LOCATION MAPS FOR ASBESTOS CONTAINING MATERIAL

Added 5-27-16



Added 5-27-16



Added 5-27-16



Added 5-27-16

APPENDIX B

MATERIAL DESCRIPTION TABLE

Material	% And Type Of	Location, Description, Sample		
Description	Asbestos	Number (If Applicable)		
Building No. 1 – Residential Building at 33882 Woodgate Court				
6" OD Transite		Furnace exhaust		
chimney pipe	20-25% ACM	Non-Friable. Good condition.		
chinney pipe		Sample 11-33-34-35		
		Basement windows		
Window glazing	1-5% ACM	Non-Friable. Good condition		
		Sample 12-36-37-38		
		Chimney flue vents		
Black sealant	5-10% ACM	Non-Friable. Good condition		
		Sample 15-45-46-47		
Window		Exterior garage window and door		
	1-5% ACM	Non-Friable. Good condition		
caulking		Sample 17-51-52-53		

APPENDIX C

MATERIAL QUANTITIES TABLE

The following are approximate quantities of ACM to be removed from the building indicated. These material quantities do not indicate the cleaning required to remove asbestos debris and resulting contamination from the work area.

Building 1 – Residential Building at 33882 Woodgate Court

Material	Location	Quantity Present	Friable
6" OD transite chimney pipe	Furnace exhaust	12 FT	No
Window glazing	Basement windows	36 FT	No
Black sealant	Chimney flue vents	4 FT	No
Window caulking	Exterior garage windows and doors	130 FT	No
Contractor mobilization		1	

APPENDIX D

SHIPPING MANIFEST

	Och				
1.	Work Site Name and Mailing Address	Owner's Na	ame	Owner's No.	Telephone
2.	2. Operator's Name and Address			Operator's No.	Telephone
3.	 Waste Disposal Site (WDS) Name, Mailing Address and Physical Site Location 			WDS Telephone No.	
4.	4. Name and Address of Responsible Agency				
5.	Description of Materials				
6.	Containers	No.	Туре		
7.	Total Quantity	M ³	(Yd ³)		
8.	8. Special Handling Instructions and Additional Information				
9.	 OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations. 				
	Printed/Typed Name & Title	Signature		Month Day	y Year
	Transporter				
10.	. Transporter 1 (Acknowledge of Receipt	of Materials)			
	Printed/Typed Name & Title Address and Telephone No.	Signature		Month Day	y Year
11.	. Transporter 2 (Acknowledge of Receipt	of Materials))	·	
	Printed/Typed Name & Title Address and Telephone No.	Signature		Month Da	y Year
	Dispos	sal Site			
12.	Discrepancy Indication Space				
13.	. Waste Disposal Site Owner or Operator Covered		n of Receipt		

By This Manifest Except As Noted in Item 12

Printed/Typed Name & Title	Signature	Month Day Year
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APPENDIX D

INSTRUCTIONS

Waste Generator Section (Items 1-9)

- 1. Enter the name and the facility at which asbestos waste is generated and the address where the facility is located. In the appropriate spaces, also enter the name of the owner of the facility and the owner's phone number.
- 2. If a demolition or renovation, enter the name and address of the Company and authorized agent responsible for performing the asbestos removal. In the appropriate spaces, also enter the phone number of the operator.
- 3. Enter the name, address and physical site location of the waste disposal site (WDS) that will be receiving the asbestos materials. In the appropriate spaces, also enter the phone number of the WDS. Enter "on-site" if the waste will be disposed of on the generator's property.
- 4. Provide the name and address of the local, State or EPA Regional Office responsible for administering the asbestos NESHAP program.
- 5. Indicate the types of asbestos waste materials generated. If from a demolition or renovation, indicate the amount of asbestos that is:
 - Friable asbestos material
 - Nonfriable asbestos material
- 6. Enter the number of containers used to transport the asbestos materials listed in Item 5. Also enter one of the following container codes used in transporting each type of asbestos material (specify any other type of container used if not listed below):

DM – Metal drums, barrels DP – Plastic drums, barrels BA – 6 mil plastic bags or wrapping

- 7. Enter the quantities of each type of asbestos material removed in units of cubic meters (cubic yards).
- 8. Use this space to indicate special transportation, treatment, storage or disposal or Bill of Lading information. If an alternate waste disposal site is designated, note it here. Emergency response telephone numbers or similar information may be included here.
- 9. The authorized agent of the waste generator shall read and then sign and date this certification. The date is the date of receipt by transporter.

NOTE: The waste generator shall retain a copy of this form.