

ADDENDUM NUMBER TWO
APPLING STREET DRAINAGE IMPROVEMENTS
FOR THE CITY OF CHATTANOOGA, TENNESSEE
Contract Number S-18-012-201

- Contract Documents

Q? A request for an extension of two weeks. This extension is to give material vendors more time to provide quotes. The June TDOT letting has put critical material providers behind on providing quotes for other projects.

A. The Bid Opening is extended until Thursday, July 11, 2019. The location and time are the same.

Q? Can you send me a copy of the bid items for the project referenced above? An excel sheet would work the best.

A. Yes, plan holders will be emailed the excel version.

Revised Section 00302-2 Bid Schedule.

Addition of Section 00840 Special Provision. Use only if applicable

Addition of TDEC Special Waste Application. Use only if applicable.

June 21, 2019

/s/Justin C. Holland, Administrator
City Of Chattanooga
Department of Public Works

Bid Schedule
Contract Number S-18-012
Applying Street Drainage Improvements
City of Chattanooga

Item	Description	Approx. Quantity	Unit of Measure	Unit Price	Amount
1	<u>Common Excavation</u>				
	a) Common Excavation (soil)	1500	CY	_____	_____
	b) Backfill / Borrow Excavation (soil)	1500	CY	_____	_____
	c) Undercut and Remove Unsuitable Material	50	CY	_____	_____
	d) Backfill and Compact Undercut areas with 3" size Surge Stone (Complete-in-Place)	25	CY	_____	_____
	e) Disposal of Contaminated (Non-Hazardous) Soil to Class 1 Permitted Landfill (Conditional- does not include excavation)	50	TON	_____	_____
	F) Special Utility Trenching as needed - Includes excavation up to 4'-8' deep x 2' wide trench and stone backfill up to subgrade. (Conditional- does not include excavation for drainage system or service lines)	150	LF	_____	_____
2	<u>Rock Excavation</u>				
	a) Rock Excavation - include the drilling and blasting incidental thereto and disposal of the excavated material	100	CY	_____	_____
3	<u>Concrete</u>				
	a) Class A Concrete (Formed in Place) - 4000 PSI includes furnishing all labor, materials, equipment, tools, plant services, etc. as incidental and as directed by the Engineer.	20	CY	_____	_____
	b) Class A Hi-Early (Formed in Place) - includes furnishing all labor, materials, equipment, tools, plant services, etc. as incidental and as directed by the Engineer.	20	CY	_____	_____
	c) Concrete Encasement City Std. SD-308.02, Placement at Existing Sanitary Sewer Lines intersecting Storm Drain Crossings where clearance is less than 18"	20	CY	_____	_____

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Item	Description	Approx. Quantity	Unit of Measure	Unit Price	Amount
4	<u>Concrete Reinforcement</u>				
	a) Concrete Reinforcement - Includes Furnishing, Bending, Placing, Tying, etc. as directed by the Engineer.	2,000	LB	_____	_____
5	<u>Pipe Sewer and Service Lines</u>				
	a) Pipe Sewer and Service Lines - sewer pipe, risers, service lines, and fittings as required, including trench excavation and backfill (Complete-in-Place / 25' Max Length)	2	EA	_____	_____
14	<u>Mineral Aggregate Base</u>				
	a) Mineral Aggregate Base - Chattanooga 100% Compaction Std. Proctor, Type 'A', Grading "D", 8-inch depth, (Complete-in-place).	25,000	SF	_____	_____
15	<u>Concrete Pavement Removal</u>				
	a) Unclassified demolition of existing pavement, curbs, sidewalks, pipes, walls, fences, conc. slabs, etc., incl. removal, disposal, and sawcutting where necessary - also including plugging pipes where required, and pipe removal within the Construction Limits (See demolition limits on Plans for McCutcheon Rd.)	25,000	SF	_____	_____
	b) Sawcutting Existing Asphalt per linear foot to create neat line in existing asphalt. (Complete-in-place).	200	LF	_____	_____
17	<u>Cement Concrete Curb, Gutter, or Combined Curb and Gutter</u>				
	a) Residential Mountable Extruded Concrete Curb City Standard (SD-203.02) - (Complete-in-Place).	300	LF	_____	_____
26	<u>Bituminous Plant Mix Binder (HOT MIX)</u>				
	a) 3.5" in depth Asphalt Binder - TDOT , Grading "B", (1½-inch Nominal Aggregate Size JMF) includes prime coat (Complete-in-place).	25,000	SF	_____	_____

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Item	Description	Approx. Quantity	Unit of Measure	Unit Price	Amount
27	<u>Asphaltic Concrete Surface (HOT MIX)</u>				
	a) 1.5" in depth Asphaltic concrete surface TDOT & CITY Std., Grading "E" (1/2-inch Nominal Aggregate Size JMF) for New Lanes and Resurfacing Existing Lanes, includes tack coat (Complete-in-place).	25,000	SF	_____	_____
31	<u>Concrete Pipe for Storm Sewers and Culverts</u>				
	a) 18" RCP Class III. Including excavation, bedding, backfill, connections to structures, etc. (complete-in-place)	80	LF	_____	_____
	b) 6'X4' Precast Concrete box Culvert Class III. (Select Fill Backfill outside of paving areas) Including excavation, bedding, backfill, connections to structures, etc. (complete-in-place)	204	LF	_____	_____
	c) 6'X4' Precast Concrete box Culvert Class III. (Compacted 33-P or Flowable Fill Backfill under Paved Areas) Including excavation, bedding, backfill, connections to structures, etc. (complete-in-place)	232	LF	_____	_____
	d) Upstream Poured in Place Headwall & Wingwall w/ Trash Rack (Variation of TDOT STS-15-17 & STD-15-55) see Detail Sheet 7 - Includes Excavation, Bedding, Backfill, Formed in place Concrete, Rebar, Fabricated Trash Rack, , Labor, and other Incidentals, etc. (Complete-in-Place).	1	EA	_____	_____
	e) Downstream Poured in Place Headwall (Variation of TDOT STS-15-17 & STD-15-55) see Detail Sheet 7 - Includes Excavation, Bedding, Backfill, Formed in place Concrete, Rebar, Fabricated Trash Rack, , Labor, and other Incidentals, etc. (Complete-in-Place).	1	EA	_____	_____
33	<u>Adjusting Manhole Frames</u>				
	a) Manhole/Utility Adjustment to Finished Grade - Includes Excavation, Backfill, Riser, Concrete, Brick, or any other Incidentals, etc., of manholes, water valves, etc. (Complete-in-place).	2	EA	_____	_____

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Item	Description	Approx. Quantity	Unit of Measure	Unit Price	Amount
34	<u>Catch Basins, Curb Inlets, Miscellaneous</u>				
	a) City Standard Drop Inlet (SD-607.01) - Includes Excavation, Bedding, Backfill, Brick, Frame and Grate (SD-608.02), 0'-6' in Depth, Labor, and other Incidentals, etc. (Complete-in-Place).	2	EA	_____	_____
	b) Junction Manholes 4' Dia. (SYM.- VARIATION) of City Std., SD-300.01 (see Detail Sheet 6) Includes Excavation as required, Placing Grouting, Backfill, Brick or Precast Structure, Frame and Cover, Labor, and other Incidentals, etc. (Complete-in-Place).	4	EA	_____	_____
	c) Core Box Culvert to receive RCP (as shown on plans)	1	EA	_____	_____
35	<u>Sodding and/or Seeding</u>				
	b) Permanent Seeding - Includes all Labor, Fertilizer, Straw and other incidentals (Complete-in-Place)	1,200	SY	_____	_____
36	<u>Topsoil</u>				
	a) 3 inch depth , Includes Labor and other incidentals, etc. (Complete-in-place).	1,200	SY	_____	_____
40	<u>Fence Relocation</u>				
	a) Remove and Replace , Includes Labor, storage, and replacement of existing metal decorative fencing and other incidentals. (Complete-in-place).	150	LF	_____	_____
70	<u>Rip-Rap</u>				
	a) Rock Riprap-Class A-1 - Includes geotextile filter fabric, Propex 104-F or Approved Equal size. (Complete-in-Place) 12" Min. Depth	250	SF	_____	_____
74	<u>Miscellaneous Materials</u>				
	a) Miscellaneous Materials (not included in other items such as add-mixtures, calcium chloride, etc.)	1	Allow	_____	\$10,000.00

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Item	Description	Approx. Quantity	Unit of Measure	Unit Price	Amount
75	<u>Milling</u>				
	a) Cold Mill Depth of 1-1/2" Bituminous Plant Mix Pavements	5,000	SF	_____	_____
98	<u>Slope Protection and Erosion Control</u>				
	a) Temporary Diversion Pipe Includes Excavation and Backfill, 30" ADS Pipe or approved equal, Installation and removal at project completion. Per TDEC ECS Handbook 7.42 (Complete-in-place)	1	EA	_____	_____
	b) Temporary Sandbag Cofferdam Includes Sand filled Sandbags (±300 bags ea.), Excavation if needed, Installation and removal at project completion. Per TDEC ECS Handbook 7.42 (Complete-in-place)	2	EA	_____	_____
	c) Dewatering Structure Includes Excavation and Installation, Wooden Stakes or Steel Posts, Staked Strawbales, Geotextile, #57 Stone, Dewatering pump usage, and Removal at project completion. Per TDEC ECS Handbook 7.21 (Complete-in-place)	2	EA	_____	_____
	d) Inlet Protection Includes Installation and removal at project completion. Per TDEC ECS Handbook 7.35 (Complete-in-place)	4	EA	_____	_____
	e) Construction Entrance Includes Geotextile, Washed Stone, Installation and removal at project completion. Per TDEC ECS Handbook 7.28 (Complete-in-place)	1	EA	_____	_____
	f) Filter socks Silt Sox or approved equal (Complete-in-place)	300	LF	_____	_____
	g) Geotextile - Turf Reinforcement Matting by Enkamat or approved equal, Including all Labor, seeding, topsoil, etc. (Complete-in-place)	1,200	SF	_____	_____
717	<u>Mobilization</u>				
	a) Mobilization, including bid bond, performance bond, payment bond, project signage, incidentals not included in other pay items, etc.	1	LS	_____	_____

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Item	Description	Approx. Quantity	Unit of Measure	Unit Price	Amount
1720	<u>Project Record Documents</u>				
	a) Location of Stormwater Structures installed and/or modified by this contract. As-built drawing development, professional certification, and submittal of Digital and Hard Copies	1	LS	_____	_____
2452	<u>Traffic Signs and Pavement Markings</u>				
	b) Striping - Thermoplastic Pavement Marking (6-inch wide lines - Complete-in-Place)	1	LM	_____	_____
	h) Temporary Striping TDOT Section 716	1	LM	_____	_____
100	<u>Traffic Control Devices (Temporary)</u>				
	a) Barrels (based on 50 barrels) Per MUTCD and approved Traffic Control Plan	1	LS	_____	_____
	b) Lights for traffic control barrels (based on lights for 50 barrels)	1	LS	_____	_____
	c) Specialty Signage (per sign) (Per MUTCD and approved Traffic Control Plan)	4	EA	_____	_____
	d) Traffic Control Detour Sign as directed by the City Engineer (based off plans provided by CDOT)	12	EA	_____	_____
	f) Temporary Water Filled Barrier Rail	125	LF	_____	_____
	g) Type 3 Barricades With Lights 8' min. width (per sign) (Per MUTCD and approved Traffic Control Plan)	4	EA	_____	_____
3575	<u>Flowable Controlled Low Strength Material for Abandoned Underground Pipe</u>				
	a) Flowable Fill	25	CY	_____	_____

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Item	Description	Approx. Quantity	Unit of Measure	Unit Price	Amount
Misc	<u>Allowance:</u>				
	Allowance Traffic Control (Misc. Items) As Directed by the Engineer, upon issuance of a CRF	1	Allow	_____	_____ \$5,000.00
	Incidentals as deemed necessary by the Project Coordinator or Engineer of Record to complete the project.	1	Allow	_____	_____ \$15,000.00
				Original Bid TOTAL	_____

SPECIAL PROVISION

SECTION 00840

CONSTRUCTION WASTE MANAGEMENT SPECIFICATION

PART 1 – GENERAL

1.1 SUMMARY

A. Section includes: Administrative and procedural requirements for construction waste management activities.

1.2 DEFINITIONS

A. Construction and Demolition (C&D) Waste: Includes all non-hazardous solid wastes resulting from construction, remodeling, alterations, repair, demolition and land clearing. Includes material that is recycled, reused, salvaged or disposed as garbage.

B. Salvage: Recovery of materials for on-site reuse or donation to a third party.

C. Reuse: Making use of a material without altering its form. Materials can be reused on-site or reused on other projects off-site. Examples include, but are not limited to the following: Grinding of concrete for use as aggregate material. Chipping of land clearing debris for use as mulch.

D. Recycling: The process of sorting, cleaning, treating, and reconstituting materials for the purpose of using the material in the manufacture of a new product.

E. Source-Separated C&D Recycling: The process of separating recyclable materials in separate containers as they are generated on the job-site. The separated materials are hauled directly to a recycling facility or transfer station.

F. Co-mingled C&D Recycling: The process of collecting mixed recyclable materials in one container on-site. The container is taken to a material recovery facility where materials are separated for recycling.

G. Approved Recycling Facility: Any of the following:

1. A facility that can legally accept C&D waste materials for the purpose of processing the materials into an altered form for the manufacture of a new product.

2. Material Recovery Facility: A general term used to describe a waste-sorting facility. Mechanical, hand-separation, or a combination of both procedures, are used to recover recyclable materials. Take co-mingled containers to an approved Material Recovery Facility.

1.3 SUBMITTALS

A. Waste Management Plan: Submit [3] three copies of the plan within [7] seven days of date established for the Notice to Proceed.

B. Waste Management Report: Concurrent with each Application for Payment, submit [3] three copies of report.

1.4 PERFORMANCE REQUIREMENTS

A. General: Divert a minimum of [**85 percent**] of all material that leaves the site shall be diverted from the C&D waste stream and or general waste stream, by weight, from the landfill by one, or a combination of the following activities:

1. Salvage
2. Reuse
3. Source-Separated C&D Recycling
4. Co-mingled C&D Recycling

B. C&D waste materials that can be salvaged, reused or recycled include, but are not limited to, the following and shall have a minimum set percentage that is to be converted to recycle, reuse and or salvaged:

Materials	Goal of % Diverted
1. Asphalt	98%
2. Asphalt shingles	90%
3. Concrete sidewalks and curbs	98%
4. Concrete floors and building foundations	98%
5. Concrete block (CMU) Painted	0%
6. Clay Brick	
a. Whole Bricks stacked and palletized	60%
b. Convert remaining bricks into an aggregate material	
7. Concrete Pilaster Caps	98%
8. Drywall	N/A

9. Fluorescent lights and ballasts	98%
10. Land clearing debris (vegetation, stumpage)	90%
11. Decorative Steel Fence and Post	98%
12. Metals ferrous	98%
13. Metals non-ferrous	98%
14. Insulation	80%
15. Wood – tree, brush, shrubs, etc. removal	95%
16. Wood – existing building products (clean denailed)	N/A
17. Plastic film (sheeting, shrink wrap, packaging)	98%
18. Window glass	98%
19. Window Units that can be reused and meets current energy requirements	N/A
20. Steel Doors	90%
21. Wood Doors	90%
22. Bathroom Fixtures	50%
23. Bathroom and Kitchen Faucets	50%
24. Electric wiring	90%
25. Field office waste and employee waste, including office paper, aluminum cans, glass, plastic bottles, and office cardboard, etc.	95%

1.5 QUALITY ASSURANCE

A. Regulatory Requirements: Conduct construction waste management activities in compliance with the Tennessee Department of Environment and Conservation (TDEC) rules and regulations and other applicable laws and ordinances.

B. Preconstruction Conference: Schedule and conduct meeting at Project site prior to construction activities.

1. Attendees: Inform the following individuals, whose presence is required, of date and time of meeting.

- a. Owner
- b. Engineer
- c. Contractor's superintendent
- d. Major subcontractors
- e. City Representatives – Land Development Offices, Traffic Engineering, Purchasing, Fire and Police, Economic and Community Development, etc.
- f. Utility Companies – AT&T, Comcast, EPB, Chattanooga Gas, Tennessee American Water Company, Chattanooga Waste Resources Division (sewer)
- g. Other concerned parties

2. Agenda Items: Review methods and procedures related to waste management including but not limited to the following:

- a. Review and discuss waste management plan including responsibilities of Waste Management Coordinator.
- b. Review requirements for documenting quantities of each type of waste and its disposition.
- c. Review and finalize procedures for materials separation and verify availability of containers and bins needed to avoid delays.
- d. Review procedures for periodic waste collection and transportation to recycling and disposal facilities.
- e. Review waste management requirements for each trade.

1.6 WASTE MANAGEMENT PLAN

A. General: Develop plan consisting of waste types, quantity by weight, methods of disposal, handling and transportation procedures. Include separate sections in plan for demolition and construction waste.

B. Organize the waste management plan in accordance with the sample plan included in this document with **Form No. 00840-(Sample)**, including the following information:

- 1. Types and estimated quantities, by weight, of C&D waste expected to be generated during demolition.

2. Proposed methods for C&D waste salvage, reuse, recycling and disposal during demolition including, but not limited to, one or more of the following:
 - a. Contracting with a deconstruction specialist to salvage materials generated,
 - b. Selective salvage as part of demolition contractor's work,
 - c. Reuse of materials on-site or sale or donation to a third party
3. Proposed methods for salvage, reuse, recycling and disposal during construction including, but not limited to, one or more of the following:
 - a. Requiring subcontractors to take their C&D waste to a recycling facility,
 - b. Contracting with a recycling hauler to haul recyclable C&D waste to an approved recycling or material recovery facility,
 - c. Processing and reusing materials on-site,
 - d. Self-hauling to a recycling or material recovery facility.
4. Name of recycling or material recovery facility receiving the C&D wastes.
5. Handling and Transportation Procedures: Include method that will be used for separating recyclable waste including sizes of containers, container labeling and designated location on Project site where materials separation will be located.

1.7 WASTE MANAGEMENT REPORT

A Waste Management Report: Submit a cumulative waste management report on the form included as **Form No. 00841-1**, including in this contract document, with each Application for Payment with the following attachments:

1. A record of the type and quantity, by weight, of each material Recycled, Reused and or Salvaged, or disposed of at a C&D.
2. Total quantity of waste recycled as a percentage of total waste.
3. Disposal Receipts: Copy of receipts issued by a disposal facility for C&D waste that is disposed in a landfill.
4. Recycling Receipts: Copy of receipts issued by an approved recycling facility.
 - a. For co-mingled materials, include weight tickets from the recycling hauler or material recovery facility and verification of the recycling rate for co-mingled loads at the facility.

5. Salvaged Materials Documentation: Types and quantities, by weight, for materials salvaged for reuse on site, sold or donated to a third party.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 CONSTRUCTION WASTE MANAGEMENT, GENERAL

- A. Provide containers for C&D waste that is to be recycled clearly labeled as such with a list of acceptable and unacceptable materials. The list of acceptable materials must be the same as the materials recycled at the receiving material recovery facility or recycling processor.
- B. The collection containers for recyclable C&D waste must contain no more than 10 percent non-recyclable material, by volume.
- C. Provide containers for C&D waste that is disposed in a landfill clearly labeled as such.
- D. Use detailed material estimates to reduce risk of unplanned and potentially wasteful cuts.
- E. To the greatest extent possible, include in material purchasing agreements a waste reduction provision requesting that materials and equipment be delivered in packaging made of recyclable material, that they reduce the amount of packaging, that packaging be taken back for reuse or recycling, and to take back all unused product. Insure that subcontractors require the same provisions in their purchase agreements.
- F. Conduct regular visual inspections of dumpsters and recycling bins to remove contaminants.

3.2 SOURCE SEPARATION

- A. General: Separate recyclable materials from C&D waste to the maximum extent possible. Separate recyclable materials by type.
 - 1. Provide containers, clearly labeled, by type of separated materials or provide other storage method for managing recyclable materials until they are removed from Project site.
 - 2. Stockpile processed materials on-site without intermixing with other materials. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.
 - 3. Stockpile materials away from demolition area. Do not store within drip line of remaining trees.

4. Store components off the ground and protect from weather.

3.3 CO-MINGLED RECYCLING

A. General: Do not put C&D waste that will be disposed in a landfill into a co-mingled C&D waste recycling container.

3.4 REMOVAL OF DEMOLITION WASTE MATERIALS NOT RECYLED, REUSED OR SALVAGED

A. Remove C&D waste materials from project site on a regular basis. Do not allow C&D waste to accumulate on-site.

B. Transport C&D waste materials off Owner's property and legally dispose of them.

C. Burning of C&D waste is not permitted.

PART 4 – CONTRACT REQUIREMENTS, QUALITY CONTROL AND ASSURANCE

4.1 CONTRACT REQUIREMENTS

A. In section 1.4 Performance Requirements, a minimum percentage of 85% of the C&D and general waste streams are to be diverted by methods of Recycle, Reuse, and Salvage (RRS).

B. Measure and Payment – In the Bid Schedule a line item is provided for the contractor to provide a lump sum value for the efforts to convert the demolition materials and other waste products into RRS material at the minimum rate of 85% diverted.

1. At the conclusion of the project, the percent diverted shall be calculated to determine the final percentage.

2. The final payment for the line item of RRS shall be determined by the final percentage. If the percentage is 85% but not greater than 90%, then the contractor shall be paid the bid price in full.

3. Incentive – If the contractor achieves 90% or greater diversion of waste material he shall be paid an additional 5% of his bid price for the RRS bid item.

4. Disincentive – If the contractor does not achieve the minimum 85% of diverted waste material, an amount equal to 5% of the bid price shall be deducted from the RRS pay item. For each additional 5% below the minimum 85%, an additional 5% shall be deducted from the RRS pay item.

C. Quality Control and Assurance

1. Contractor as part of the contract is responsible for providing a portable truck scale, and appurtenances so as to record the weight of each truck as it leaves the site on a Weight Ticket as well as recording the data to a database.
2. Owner shall provide a Scale Operator to perform all the duties required to record the daily data of materials leaving the site. The Scale Operator shall monitor the site so as to make sure that every truck leaving the site goes across the scales so as to measure and record the following:
 - a. Weight of the material
 - b. Truck ID No.
 - c. Driver ID No.
 - d. Type of material
 - e. Designation of RRS or C&D materials
 - f. Destination of the material
 - g. Date and time
3. As part of the Quality Control and Assurance, each load as it reaches its destination shall also receive a Weight Ticket Receipt that records the same data as in (a. – g.) above, along with a signature of the recipient. A copy of destination weight ticket receipts shall be given to the site Scale Operator either upon the return of the truck to the site, and or collected daily by the Contractor and turned over to the Scale Operator the following day.
4. At the conclusion of each pay period, the contractor shall submit the Waste Management Report with his pay application, along with copies of all of the Weight Ticket Receipts for the same pay period as a check and balance.

END OF SECTION



STATE OF TENNESSEE
 DEPARTMENT OF ENVIRONMENT AND CONSERVATION
 DIVISION OF SOLID WASTE MANAGEMENT
 WILLIAM R. SNODGRASS TENNESSEE TOWER
 312 ROSA L. PARKS AVENUE, 14TH FLOOR
 NASHVILLE, TN 37243

SW PERMIT # - OFFICE USE ONLY

SPECIAL WASTE TRANSFER

TO AVOID DELAYS, COMPLETE ALL SECTIONS OF THE APPLICATION. INCLUDE ALL SUPPORTING DOCUMENTATION.

<input type="checkbox"/> ORIGINAL APPROVAL LETTER ATTACHED	➡	ORIGINAL APPROVAL LETTER DATE	<input type="checkbox"/> TERMINATE ORIGINAL DESTINATION FACILITY APPROVAL
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A. GENERATING FACILITY

FACILITY NAME		NATURE OF BUSINESS	
SITE LOCATION ADDRESS - NO P.O. BOX NUMBERS!	CITY	STATE ZIP	COUNTY
MAILING ADDRESS	CITY	STATE ZIP	PHONE FAX
TECHNICAL CONTACT NAME	PHONE	FAX	EMAIL

B. CHARACTERIZATION OF WASTE

RULE 0400-12-01-.03(1)(b) REQUIRES A PERSON WHO GENERATES A WASTE MUST DETERMINE IF THAT WASTE IS A HAZARDOUS WASTE. RULE 0400-12-01-.03(5)(a)3 REQUIRES RECORDS TO DOCUMENT THE BASIS FOR THE HAZARDOUS WASTE DETERMINATION INCLUDING ANY TEST RESULTS, WASTE ANALYSIS AND FOR DETERMINATION BASED ON THE GENERATOR'S KNOWLEDGE OF MATERIALS AND PROCESSES.
THE HAZARDOUS WASTE DETERMINATION RECORDS MUST BE ATTACHED

1. CHECK ALL THAT APPLY <input type="checkbox"/> IGNITABLE <input type="checkbox"/> CORROSIVE <input type="checkbox"/> REACTIVE <input type="checkbox"/> TCLP HAZARDOUS <input type="checkbox"/> LISTED HAZ WASTE	2. NAME AND / OR DESCRIPTION OF WASTE
	3. DESCRIBE SPECIAL HANDLING PROCEDURES
	4. EPA HAZARDOUS WASTE CODES (LIST CODES IN THIS ORDER: P, D, F, U, AND K)

5. pH	6. RADIOACTIVE <input type="checkbox"/> YES <input type="checkbox"/> NO	7. FLASH POINT	8. INFECTIOUS <input type="checkbox"/> YES <input type="checkbox"/> NO	9. % SOLID	10. COLOR	11. PHYSICAL STATE <input type="checkbox"/> SOLID <input type="checkbox"/> SLUDGE <input type="checkbox"/> LIQUID <input type="checkbox"/> SLURRY
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C. GENERATION OF WASTE

(DESCRIBE THE PROCESS THAT GENERATES THE WASTE)

DESCRIBE HOW THE WASTE IS MANAGED (FOR EXAMPLE: STORED, PROCESSED/TREATED, DISPOSED ONSITE OR IF OFFSITE IDENTIFY FACILITY)

FD050219

C. GENERATION OF WASTE (CONTINUED)

FLOW DIAGRAM OF THE PROCESS DESCRIBED (USE ATTACHMENTS IF NECESSARY TO ILLUSTRATE WASTE GENERATION)

D. DISPOSAL

DISPOSAL FACILITY NAME PERMIT NUMBER OPERATOR / CONTACT NAME PHONE

DISPOSAL FACILITY ADDRESS CITY STATE ZIP TN COUNTY

1. RATE OF WASTE DISPOSAL

[Empty box for rate of waste disposal]

2. UNITS OF WASTE DISPOSAL

POUNDS CUBIC YARDS
 TONS _____

3. FREQUENCY OF WASTE DISPOSAL

ONE-TIME DAILY WEEKLY
 MONTHLY ANNUALLY _____

E. TRANSPORTATION OF WASTE

DIRECT HAUL TO THE LANDFILL OR PROCESSING FACILITY? YES NO
IF NO, PLEASE EXPLAIN:


F. SEND COMPLETED APPLICATION AND FEES TO:

STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF SOLID WASTE MANAGEMENT
WILLIAM R. SNODGRASS TENNESSEE TOWER
312 ROSA L. PARKS AVENUE, 14TH FLOOR
NASHVILLE, TN 37243

MAKE PAYABLE TO: "TREASURER, STATE OF TENNESSEE"
CHECK, MONEY ORDER OR CASHIER'S CHECK
INCOMPLETE APPLICATIONS WILL BE RETURNED

G. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.


SIGNATURE OF AUTHORIZED REPRESENTATIVE OF WASTE GENERATOR TITLE
PRINTED NAME DATE

OFFICIAL USE ONLY REVIEWER'S SIGNATURE DATE NOTES