TOWN OF SIMSBURY

DEPARTMENT OF PUBLIC WORKS
933 HOPMEADOW STREET
SIMSBURY, CT 06070

INVITATION TO BID

FOR

DPW TRUCK WASH BAY

The Town of Simsbury is soliciting bids for a DPW TRUCK WASH BAY. Work includes the construction of a wash bay structure for a truck wash facility to be located within an existing salt shed at the Simsbury Public Works facility at 66 Town Forest Road. Major elements of work include concrete slab and knee walls, timber framing, insulation, sheathing and weatherproofing of the inside of the structure using PVC wall panels. Work is limited to the structure and will not include any electrical, mechanical or wash systems.

Sealed proposals will be accepted by Sean Kimball, Director of Finance, 933 Hopmeadow Street (Rt. 10/202), Simsbury, CT until 10:00 a.m., AUGUST 16, 2016.

Specifications and bidding documents may be obtained electronically via the Town’s web site at the following link:  www.simsbury-ct.gov/public-bids-and-rfp. Bid documents will not be mailed or faxed.
1. **Project Overview:**

The Town of Simsbury is soliciting bids for the construction of a wash bay structure for a drive through Truck Wash that will be approximately 23.25’ wide x 92’ long x 17’ high. This structure will be constructed within an existing wood framed salt storage building and consist of a concrete slab and knee walls, wood framing, OSB sheathing, insulation, and PVC wall panels. Access doors along the length of the structure will be required to allow access into the mechanical and storage spaces located between the wash bay and the existing salt storage shed.

The furnishing of electrical, mechanical and/or equipment related to the wash facility are not included in the scope of work for this project. These items will be constructed under separate bids being managed by the Town. Coordination with the Town and the other contractors working on site will be considered essential to the work in this engagement and shall constitute part of the work product.

All work is to be as specified and shown on the attached drawings prepared by Silva Associates and conform to standard industry practices.

2. **Scope of Work:**

**General Conditions:**

The proposed structure will provide for a 23.25’ wide x 92’ long x 17’ high structure to house a mechanical truck wash system.

Contractor will supply all labor & equipment required for the construction of the structure. Other contractors working for the Town will provide mechanical wash systems, heating, lighting, and other related work items. Contractor is responsible for coordinating other work being done on site through the Owner.

Contractor will be required to obtain a building permit for this structure. The cost for Town portion of building permits will be waived and the State fees of the building permit ($0.26/$1,000 construct cost), will still apply.

**Demolition:**

All work for this project will be done inside of an existing timber framed salt storage building. Portions of a timber wall that had been used to separate the two sides of the salt shed will need to be removed to allow for the new structure to be installed. Contractor is required to submit a demolition plan outlining the methods and limits of removal. Care is to be exercised to avoid damaging portions of the structure to remain.
Portions of the existing asphalt “floor” will need to be removed for the associated work. Removal shall be limited to the areas of work and edges shall be saw cut to provide a clean edge of pavement. Care shall be taken not to undermine any asphalt to remain.

**Earth Work:**

Compacted Fill Material shall consist of 3/8” crushed stone within 5’ feet of each end of the truck wash and recycled aggregate for all other locations. Crushed Stone shall meet CDOT 816 specifications. Recycled Aggregate will be provided by the owner from our stock pile on site. Contractor is responsible for moving materials from the stock pile to the work site.

**Concrete Work:**

See Specifications

**Timber Framing:**

Dimensional lumber shall be Douglas Fir Larch No. 2. For lumber used in exterior applications or in direct contact with concrete, preservative treated (pressure treated) lumber shall be used. All lumber to meet the structural requirements listed on the contract drawings.

**Wood Sheathing:**

APW Rated Sheathing as specified on the contract drawings.

**Doors:**

Interior doors are to be provided by the Owner, and installed by the contractor.

Exterior doors are not included in the scope of this project.

**PVC Sheathing and Waterproofing:**

The interior of the structure (walls and ceiling) shall be covered with RELINE R3 by Nuform (or approved equal) PVC wall paneling system including associated trim to provide a waterproof barrier suitable for a car/truck wash. System is to be installed in accordance with manufactures recommendations.

**3. Key Event Dates:**

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
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<tbody>
<tr>
<td>Invitation to Bid Issued</td>
<td>7/28/16</td>
</tr>
<tr>
<td>Pre-Bid Conference</td>
<td>10:00 AM on site 8/4/16</td>
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<tr>
<td>Proposals Due</td>
<td>10:00 AM 8/16/16</td>
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<tr>
<td>Commencement of Work - Within ten (10) calendar days of Notice to Proceed</td>
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4. Bid Submission Instructions:

   A. One (1) original and one (1) copy of all bids must be submitted in a sealed envelope with the bidder’s name on the outside of the envelope and clearly marked “Sealed Bid for Town of Simsbury – DPW TRUCK WASH BAY”. If forwarded by mail or courier, the sealed envelope must be addressed to “Sean Kimball, Director of Finance, 933 Hopmeadow Street (Rt. 10/202), Simsbury, CT 06070”. Bids must be at the office of the Director of Finance prior to 10 a.m., August 16, 2016. Postmarks are NOT an acceptable waiver of this policy. Once the first bid is opened, all bids are deemed final and no corrections or alterations may be made.

   B. Ditto marks or words such as “SAME” must not be used for the bid to be considered.

   C. All information must be submitted in ink or typewritten. Errors, alterations or corrections must be shown on both the original and all required copies and each must be initialed by the person signing the bid.

   D. Bids are considered valid for ninety (90) days after bids are opened. Bidders may not withdraw, cancel or modify their bid during this ninety (90) day period after bids are opened.

   E. An authorized person representing the legal entity of the bidder must sign bids.

   F. The inability to meet any specified requirement(s) must be stated in writing and attached to the bid form, or written on the bid form. If no exceptions are noted, it shall be assumed that the terms of the Invitation to Bid have been accepted.

   G. The Town of Simsbury reserves the right to waive any minor informality in a bid when such a waiver is in the best interest of the Town.

   H. **Non-Collusion:** Respondents are to include a completed NON-COLLUSION AFFIDAVIT OF BIDDER – form is attached to this RFP. The Term “Bidder” is to indicate “Respondent” on this form.

   I. **Conflict of Interest:** Respondents are to complete the Town of Simsbury Acknowledgement form relating to Conflict of Interest. Form and a link to the related section of the Town Charter is attached to this RFP.

5. Questions:

Any questions about this project should be directed to: Mr. Thomas J. Roy, Director of Public Works by fax (860) 408-5416, or by mail Department of Public Works, PO Box 495, Simsbury, CT 06070. To receive consideration, such questions must be received at least five (5) business days before the established date for receipt of bids. No oral interpretations shall be made to any respondent as to the meaning of any of the bid documents. Every request for an interpretation shall be made in writing.
The Town will respond to all appropriate questions received via an addendum available to all prospective bidders. Such addenda will become part of this Invitation to Bid and the resulting contract. At least two (2) days prior to the receipt of bids, the Town will post a copy of any addenda to its website, located at: www.simsbury-ct.gov/finance/pages/public-bids-and-rfp. It shall be the responsibility of each bidder to determine whether addenda have been issued, and if so, to download copies directly from the Town’s website.

6. **Presumption of Bidder Being Fully Informed:**

At the time the first bid is opened, each bidder is presumed to have read and is thoroughly familiar with all bidding documents as well as all contract documents for this project. Failure or omission of the bidder to receive or examine any documentation or information concerning this bid shall in no way relieve any bidder from obligations with respect to their bid.

7. **Pre-Bid Conference:**

A non-mandatory pre-bid meeting will be held at the project site (66 Town Forest Road) at the time and date listed in Section 3 – Key Event Dates of this Invitation to Bid.

Interested bidders may visit the site at inspect the site at other times by appointment only. To schedule an appointment, please contact Patricia LaBissoniere at 860.658.3222 at least 3-days prior to the bid opening. Questions will not be answered during any inspections not associated with the official pre-bid meeting.

8. **Interpretation of Acceptable Work:**

The specifications, bidding and contract documents are to be interpreted as meaning those acceptable to the Town of Simsbury. The Town will issue any substantive changes or interpretations in writing as an addendum.

9. **Tax Exemptions:**

The bidder shall be aware that the Town of Simsbury is exempt from Federal Excise Taxes and Connecticut Sales and Use Taxes. Appropriate tax exempt forms will be provided to the successful bidder(s) as part of the contract award process.

10. **Insurance Requirements:**

The firm must carry insurance under which the Town is named as an additional insured, as follows:

Such insurance must be by insurance companies licensed to write such insurance in Connecticut against the following risks with the following minimum amounts and minimum durations.

A. Workman's Compensation, as required by State Statute & $100,000 employers liability limit.

B. Public Liability, Bodily Injury Liability and Property Damage
Liability as follows:

- Injury or death of one person: $2,000,000
- Injury to more than one person in a single accident: $1,000,000
- Property damage in one accident: $1,000,000
- Property damage in all accidents: $2,000,000

C. Automobile and Truck (Vehicular) Public Liability, Bodily Injury Liability and Property Damage Liability as follows:

- Injury or death of one person: $1,000,000
- Injury to more than one person in a single accident: $1,000,000
- Property damage in one accident: $1,000,000
- Property damage in all accidents: $1,000,000

Insurance under B, and C above must provide for a 30 day notice to the Town of cancellation/or restrictive amendment.

Insurance under B and C above must be for the whole duration of the contract and for twelve (12) months after acceptance of the project by the Town.

Subcontractors must carry A, B, and C in the same amounts as above for the duration of the project and until acceptance by the Town.

Certificates of insurance must be submitted to the Director of Public Works prior to the signing of the contract and within ten days of notification of award of contract. Should any insurance expire or be terminated during the period in which the same is required by this contract, the Director of Public Works shall be notified and such expired or terminated insurance must be replaced with new insurance and a new certificate furnished to the Director of Public Works.

Failure to provide the required insurance and certificates may, at the option of the Town, be held to be a willful and substantial breach of this contract.

11. Substitution for Name Brands:

Should brand name items appear in this bid, the bidder must attach specifications for any substitutions and explain how the substitution compares with the specifications of the named brand. The decision on whether to use the substitution or the named brand rests solely with the Town of Simsbury.

12. Awarding the Bid:

The Town reserves the right to accept any bid or any part of bids, to reject any, all, or any part of bids, and to waive formalities and informalities in the bidding process. The Town at its discretion will award the bid to the lowest responsible bidder. That bidder is the person or firm who is qualified and competent to do the work, whose past performance is satisfactory to the Town and whose bid documents comply with the procedural requirements stated herein.

13. Rejection and/or Cancellation of Bids:

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DPW Truck Wash Bay
The Town reserves the right to reject or cancel any and all bids, or any part of any or all bids, if such action is deemed to be in the best interest of the Town.

14. **Delivery Arrangements:** Not applicable

15. **Bid Bond:** Not applicable

16. **Performance Bond:** Not applicable

17. **W-9 Form**

The successful bidder must provide the Town of Simsbury with a completed W-9 Form prior to commencing work.

18. **Submittals:**

The Bidder shall, as soon as practicable, but not exceed ten (10) calendar days, after notification of selection of the award of the bid, furnish to the Owner, in writing the following:

A. Designation of the Work to be performed by the Contractor’s own forces
B. Names of the manufacturers, products and suppliers of the principal items of materials proposed for the work
C. Project work schedule

19. **Agreement Documents:**

The Agreement Documents are defined as:
- The Standard Instructions to Bidders
- The Agreement as executed
- The General Specifications
- Plans prepared by Silva Associates
- Any Addenda, if issued

END OF STANDARD INSTRUCTION TO BIDDERS
SECTION 03 30 00 - CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

1.1 SUMMARY
A. Section includes cast-in-place concrete, including formwork, reinforcement, concrete materials, mixture design, placement procedures, and finishes, for the following:
   1. Footings.
   2. Foundation walls.

1.2 ACTION SUBMITTALS
A. Product Data: For each type of product indicated.
B. Design Mixtures: For each concrete mixture, as prepared by a qualified Concrete Testing Agency. Submit alternate design mixtures when characteristics of materials, Project conditions, weather, test results, or other circumstances warrant adjustments.
C. Steel Reinforcement Shop Drawings: Placing drawings that detail fabrication, bending, and placement. Include bar sizes, lengths, material, grade, bar schedules, stirrup spacing, bent bar diagrams, bar arrangement, splices and laps, mechanical connections, tie spacing, hoop spacing, and supports for concrete reinforcement.
D. Anchor Rod Shop Drawings: Detail placement drawings meeting requirements of Salt Storage Shed manufacturer.
E. Construction Joint Layout: As indicated on the Drawings.

1.3 INFORMATIONAL SUBMITTALS
A. Qualification Data: For testing agency.
B. Material Certificates: For each of the following, signed by manufacturers:
   1. Cementitious materials.
   2. Admixtures.
   3. Steel reinforcement and accessories.
   4. Wall treatments.
   5. Bonding agents.
6. Adhesive.
7. Repair materials.

C. Material Test Reports: For the following, from a qualified testing agency, indicating compliance with requirements:
   1. Aggregates. Include service record data indicating absence of deleterious expansion of concrete due to alkali aggregate reactivity.

1.4 QUALITY ASSURANCE

A. Testing Agency Qualifications: The Town at its own discretion may hire an independent testing agency for testing.

B. Manufacturer Qualifications: A firm experienced in manufacturing ready-mixed concrete products and that complies with ASTM C 94/C 94M requirements for production facilities and equipment.

C. Source Limitations: Obtain each type or class of cementitious material of the same brand from the same manufacturer's plant, obtain aggregate from single source, and obtain admixtures from single source from single manufacturer.
   1. Meet the requirements of Form 816 Article 1.20-1.06.01.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Steel Reinforcement: Deliver, store, and handle steel reinforcement to prevent bending and damage. Avoid damaging coatings on steel reinforcement.

PART 2 - PRODUCTS

2.1 FORM-FACING MATERIALS

A. Forms for Exposed Finished Concrete: Form-facing panels that will provide continuous, true, and smooth concrete surfaces. Furnish in largest practicable sizes to minimize number of joints.
   1. Plywood, metal, metal-framed plywood faced, or other approved panel materials.
   2. Exterior-grade plywood panels, suitable for concrete forms, complying with DOC PS 1.

B. Forms for Unexposed Finished Concrete: Plywood, lumber, metal, or another approved material. Provide lumber dressed on at least two edges and one side for tight fit.

D. Form-Release Agent: Commercially formulated form-release agent that will not bond with, stain, or adversely affect concrete surfaces and will not impair subsequent treatments of concrete surfaces. Comply with local regulations controlling use of volatile organic compounds (VOCs).

E. Form Ties: Factory-fabricated, adjustable length, removable or snap-off metal or glass-fiber-reinforced plastic form ties designed to resist lateral pressure of fresh concrete on forms and to prevent spalling of concrete on removal.
   1. Provide units that will leave no corrosible metal closer than 1-1/2 inches to the plane of exposed concrete surface.
   2. Provide ties that, when removed, will leave holes no larger than 1 inch in diameter in concrete surface.

2.2 STEEL REINFORCEMENT

A. Reinforcing Bars: ASTM A 615/A 615M, Grade 60, deformed.

B. Epoxy-Coated Reinforcing Bars: ASTM A 775/A 775M, epoxy coated, with less than 2 percent damaged coating in each 12-inch bar length.

C. Epoxy-Coated Wire: ASTM A 884/A 884M, Class A, Type 1 coated, as-drawn, plain-steel wire, with less than 2 percent damaged coating in each 12-inch wire length.

2.3 REINFORCEMENT ACCESSORIES

A. Epoxy Repair Coating: Liquid, two-part, epoxy repair coating; compatible with epoxy coating on reinforcement and complying with ASTM A 775/A 775M.

B. Bar Supports: Bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening reinforcing bars and welded wire reinforcement in place. Manufacture bar supports from steel wire, plastic, or precast concrete according to CRSI's "Manual of Standard Practice," of greater compressive strength than concrete and as follows:
   1. For concrete surfaces exposed to view where legs of wire bar supports contact forms, use CRSI Class 1 plastic-protected steel wire or CRSI Class 2 stainless-steel bar supports.
   2. For epoxy-coated reinforcement, use epoxy-coated or other dielectric-polymer-coated wire bar supports.

2.4 CONCRETE MATERIALS

A. Cementitious Material: Use the following cementitious materials, of the same type, brand, and source, throughout Project:
   1. Portland Cement: ASTM C 150, Type I or II, gray.
a. Do not use air entraining cement.

b. Allowed supplement includes the following:

1) Fly Ash: ASTM C 618, Class F or C. (See "CONCRETE MIXTURES, GENERAL" for percentage limits.)

B. Normal-Weight Aggregates: ASTM C 33, Class 3S coarse aggregate or better, graded. Provide aggregates from a single source with documented service record data of at least 10 years' satisfactory service in similar applications and service conditions using similar aggregates and cementitious materials.

1. For exposed exterior surfaces, do not use fine or coarse aggregates that contain substances that cause spalling

2. Provide documentation that aggregates are non-reactive with alkalines in accordance with ASTM C 289 and C 227.

3. Local aggregates not complying with ASTM C 33 that have been shown to produce concrete of adequate strength and durability by special tests or actual service may be used when acceptable to the Engineer


2.5 ADMIXTURES


B. Chemical Admixtures: Provide admixtures certified by manufacturer to be compatible with other admixtures and that will not contribute water-soluble chloride ions exceeding those permitted in hardened concrete. Do not use calcium chloride or admixtures containing calcium chloride.

1. Water-Reducing Admixture: ASTM C 494/C 494M, Type A.

2. Water-Reducing and Retarding Admixture: ASTM C 494/C 494M, Type D.

3. High-Range, Water-Reducing Admixture: ASTM C 494/C 494M, Type F.

C. Non-Set-Accelerating Corrosion-Inhibiting Admixture: Commercially formulated, non-set-accelerating, anodic inhibitor or mixed cathodic and anodic inhibitor; capable of forming a protective barrier and minimizing chloride reactions with steel reinforcement in concrete.

2.6 INTERIOR WALL SURFACE TREATMENT

A. Penetrating Sealer: Minimum 30 percent solid solution.

1. Apply at a rate of not less than 125 square feet/gallon.

2. Available Products include, but are not limited to the following:

   a. MasterProtect H440 HZ (formerly Hydrozo Clear 40 VOC), and MasterProtect H400 (formerly Hydrozo Enviroseal 40) by BASF.
b. Protectosil Chem-Trete BSM 400 by Evonik Industries.
c. Masterseal SL40 by Master Builders.
d. Penetrating Sealer 40 - by Sonneborn Building Products.

2.7 CURING MATERIALS

A. Absorptive Cover: AASHTO M 182, Class 2, burlap cloth made from jute or kenaf, weighing approximately 9 oz./sq. yd. when dry.

B. Moisture-Retaining Cover: ASTM C 171, polyethylene film or white burlap-polyethylene sheet.

C. Water: Potable.

2.8 RELATED MATERIALS

A. Barrier Sheet: Polyethylene sheet, ASTM D 4397, not less than 10 mils thick.

B. Bonding Agent: ASTM C 1059/C 1059M, Type II, non-redispersible, acrylic emulsion or styrene butadiene.

C. Epoxy Bonding Adhesive: ASTM C 881, two-component epoxy resin, capable of humid curing and bonding to damp surfaces, of class suitable for application temperature and of grade to suit requirements, and as follows:
   1. Types I and II, non-load bearing, for bonding hardened or freshly mixed concrete to hardened concrete.

2.9 CONCRETE MIXTURES, GENERAL

A. Prepare design mixtures for each type and strength of concrete, proportioned on the basis of laboratory trial mixture or field test data, or both, according to ACI 301.
   1. Use a qualified independent testing agency for preparing and reporting proposed mixture designs based on laboratory trial mixtures.

B. Cementitious Materials: Limit percentage, by weight, of cementitious materials other than portland cement in concrete as follows:
   1. Fly Ash: 15 percent.

C. Limit water-soluble, chloride-ion content in hardened concrete to 0.15 percent by weight of cement.

D. Admixtures: Use admixtures according to manufacturer's written instructions and only when approved by the Engineer.
   1. Use water-reducing, high-range water-reducing or plasticizing admixture in concrete, as required, for placement and workability.
2. Use water-reducing and retarding admixture when required by high temperatures, low humidity, or other adverse placement conditions.

3. Use water-reducing admixture in pumped concrete, concrete required to be watertight, and concrete with a water-cementitious materials ratio below 0.50.

4. Use corrosion-inhibiting admixture in concrete mixtures as follows:
      1) Dosage: 4 gallons per cubic yard.

2.10 CONCRETE MIXTURES FOR BUILDING ELEMENTS

A. Footings and Foundation Walls: Proportion normal-weight concrete mixture as follows:
   1. Minimum Compressive Strength: **5000 psi** at 28 days.
   2. Maximum Water-Cementitious Materials Ratio: 0.45.
   3. Slump Limit: Not less than 1-inch and not more than 3-inches before adding high-range water-reducing admixture or plasticizing admixture.
   4. Air Content: 6 percent, plus or minus 1.5 percent at point of delivery for 1-inch nominal maximum aggregate size.

2.11 FABRICATING REINFORCEMENT

A. Fabricate steel reinforcement according to CRSI's "Manual of Standard Practice."

2.12 CONCRETE MIXING

A. Ready-Mixed Concrete: Measure, batch, mix, and deliver concrete according to ASTM C 94/C 94M, and furnish batch ticket information.
   1. When air temperature is between 85 and 90 deg F, reduce mixing and delivery time from 1-1/2 hours to 75 minutes; when air temperature is above 90 deg F, reduce mixing and delivery time to 60 minutes.

PART 3 - EXECUTION

3.1 FORMWORK

A. Design, erect, shore, brace, and maintain formwork, according to ACI 301, to support vertical, lateral, static, and dynamic loads, and construction loads that might be applied, until structure can support such loads.

B. Construct formwork so concrete members and structures are of size, shape, alignment, elevation, and position indicated, within tolerance limits of ACI 117.
C. Limit concrete surface irregularities, designated by ACI 347 as abrupt or gradual, as follows:
   1. Class A, 1/8 inch for concrete surfaces exposed to view.
   2. Class B, 1/4 inch for other concrete surfaces.

D. Construct forms tight enough to prevent loss of concrete mortar.

E. Fabricate forms for easy removal without hammering or prying against concrete surfaces. Provide crush or wrecking plates where stripping may damage cast concrete surfaces. Provide top forms for inclined surfaces steeper than 1.5 horizontal to 1 vertical.
   1. Install keyways, reglets, recesses, and the like, for easy removal.
   2. Do not use rust-stained steel form-facing material.

F. Provide temporary openings for cleanouts and inspection ports where interior area of formwork is inaccessible. Close openings with panels tightly fitted to forms and securely braced to prevent loss of concrete mortar. Locate temporary openings in forms at inconspicuous locations.

G. Chamfer exterior corners and edges of permanently exposed concrete.

H. Form openings, chases, offsets, sinkages, keyways, reglets, blocking, screeds, and bulkheads required in the Work. Determine sizes and locations from trades providing such items.

I. Clean forms and adjacent surfaces to receive concrete. Remove chips, wood, sawdust, dirt, and other debris just before placing concrete.

J. Retighten forms and bracing before placing concrete, as required, to prevent mortar leaks and maintain proper alignment.

K. Coat contact surfaces of forms with form-release agent, according to manufacturer's written instructions, before placing reinforcement.

3.2 EMBEDDED ITEMS

A. Place and secure anchorage devices and other embedded items required for adjoining work that is attached to or supported by cast-in-place concrete. Use setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.

   1. Install anchor rods, accurately located, to elevations required and complying with tolerances in Section 7.5 of AISC's "Code of Standard Practice for Steel Buildings and Bridges."
3.3 REMOVING AND REUSING FORMS

A. General: Formwork for sides of beams, walls, columns, and similar parts of the Work that does not support weight of concrete may be removed after cumulatively curing at not less than 50 deg F for 24 hours after placing concrete. Concrete has to be hard enough to not be damaged by form-removal operations and curing and protection operations need to be maintained.

   1. Leave formwork for structural elements that support weight of concrete in place until concrete has achieved at least 70 percent of its 28-day design compressive strength.

B. Clean and repair surfaces of forms to be reused in the Work. Split, frayed, delaminated, or otherwise damaged form-facing material will not be acceptable for exposed surfaces. Apply new form-release agent.

C. When forms are reused, clean surfaces, remove fins and laitance, and tighten to close joints. Align and secure joints to avoid offsets. Do not use patched forms for exposed concrete surfaces unless approved by Engineer.

3.4 STEEL REINFORCEMENT

A. General: Comply with CRSI's "Manual of Standard Practice" for placing reinforcement.

B. Clean reinforcement of loose rust and mill scale, earth, ice, and other foreign materials that would reduce bond to concrete.

C. Accurately position, support, and secure reinforcement against displacement. Locate and support reinforcement with bar supports to maintain minimum concrete cover. Do not tack weld crossing reinforcing bars.

D. Set wire ties with ends directed into concrete, not toward exposed concrete surfaces.

E. Epoxy-Coated Reinforcement: Repair cut and damaged epoxy coatings with epoxy repair coating according to ASTM D 3963/D 3963M. Use epoxy-coated steel wire ties to fasten epoxy-coated steel reinforcement.

3.5 JOINTS

A. General: Construct joints true to line with faces perpendicular to surface plane of concrete.

B. Construction Joints: Install so strength and appearance of concrete are not impaired, at locations indicated or as approved by Engineer.

   1. Place joints perpendicular to main reinforcement. Continue reinforcement across construction joints unless otherwise indicated.
2. Form keyed joints as indicated. Embed keys at least 1-1/2 inches into concrete.
3. Space vertical joints in walls as indicated.
4. Use a bonding agent at locations where fresh concrete is placed against hardened or partially hardened concrete surfaces.

3.6 SHEET BARRIER

A. Place, protect, and repair sheet barrier according to ASTM E 1643 and manufacturer's written instructions.
   1. Install at locations indicated on Drawings.

3.7 CONCRETE PLACEMENT

A. Before placing concrete, verify that installation of formwork, reinforcement, and embedded items is complete and that required inspections have been performed.
B. Do not add water to concrete during delivery, at Project site, or during placement unless approved by Engineer.
C. Deposit concrete continuously in one layer or in horizontal layers of such thickness that no new concrete will be placed on concrete that has hardened enough to cause seams or planes of weakness. If a section cannot be placed continuously, provide construction joints as indicated. Deposit concrete to avoid segregation.
   1. Deposit concrete in horizontal layers of depth to not exceed formwork design pressures and in a manner to avoid inclined construction joints.
   2. Consolidate placed concrete with mechanical vibrating equipment according to ACI 301.
   3. Do not use vibrators to transport concrete inside forms. Insert and withdraw vibrators vertically at uniformly spaced locations to rapidly penetrate placed layer and at least 6 inches into preceding layer. Do not insert vibrators into lower layers of concrete that have begun to lose plasticity. At each insertion, limit duration of vibration to time necessary to consolidate concrete and complete embedment of reinforcement and other embedded items without causing mixture constituents to segregate.
D. Cold-Weather Placement: Comply with ACI 306.1 and as follows. Protect concrete work from physical damage or reduced strength that could be caused by frost, freezing actions, or low temperatures.
   1. When average high and low temperature is expected to fall below 40 deg F for three successive days, maintain delivered concrete mixture temperature within the temperature range required by ACI 301.
   2. Do not use frozen materials or materials containing ice or snow. Do not place concrete on frozen subgrade or on subgrade containing frozen materials.
3. Do not use calcium chloride, salt, or other materials containing antifreeze agents or chemical accelerators unless otherwise specified and approved in mixture designs.

E. Hot-Weather Placement: Comply with ACI 301 and as follows:

1. Maintain concrete temperature below 90 deg F at time of placement. Chilled mixing water or chopped ice may be used to control temperature, provided water equivalent of ice is calculated to total amount of mixing water. Using liquid nitrogen to cool concrete is Contractor's option.

2. Fog-spray forms, steel reinforcement, and subgrade just before placing concrete. Keep subgrade uniformly moist without standing water, soft spots, or dry areas.

3.8 FINISHING FORMED SURFACES

A. Forms for Unexposed Finished Concrete: As-cast concrete texture imparted by form-facing material with tie holes and defects repaired and patched. Remove fins and other projections that exceed specified limits on formed-surface irregularities.

B. Forms for Exposed Finished Concrete: As-cast concrete texture imparted by form-facing material, arranged in an orderly and symmetrical manner with a minimum of seams. Repair and patch tie holes and defects. Remove fins and other projections that exceed specified limits on formed-surface irregularities.

C. Related Unformed Surfaces: At tops of walls, horizontal offsets, and similar unformed surfaces adjacent to formed surfaces, strike off smooth and finish with a texture matching adjacent formed surfaces. Continue final surface treatment of formed surfaces uniformly across adjacent unformed surfaces unless otherwise indicated.

3.9 MISCELLANEOUS CONCRETE ITEMS

A. Filling In: Fill in holes and openings left in concrete structures after work of other trades is in place unless otherwise indicated. Mix, place, and cure concrete, as specified, to blend with in-place construction. Provide other miscellaneous concrete filling indicated or required to complete the Work.

3.10 CONCRETE PROTECTING AND CURING

A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 306.1 for cold-weather protection and ACI 301 for hot-weather protection during curing.

B. Formed Surfaces: Cure formed concrete surfaces. If forms remain during curing period, moist cure after loosening forms. If removing forms before end of curing period, continue curing for the remainder of the curing period.
C. Unformed Surfaces: Begin curing immediately after finishing concrete.

D. Cure concrete according to ACI 308.1, by one or a combination of the following methods:
   1. Moisture Curing: Keep surfaces continuously moist for not less than seven days with the following materials:
      a. Water.
      b. Continuous water-fog spray.
      c. Absorptive cover, water saturated, and kept continuously wet. Cover concrete surfaces and edges with 12-inch lap over adjacent absorptive covers.
   2. Moisture-Retaining-Cover Curing: Cover concrete surfaces with moisture-retaining cover for curing concrete, placed in widest practicable width, with sides and ends lapped at least 12 inches, and sealed by waterproof tape or adhesive. Cure for not less than seven days. Immediately repair any holes or tears during curing period using cover material and waterproof tape.

3.11 CONCRETE SURFACE REPAIRS

A. Defective Concrete: Repair and patch defective areas when approved by Engineer. Remove and replace concrete that cannot be repaired and patched to Engineer's approval.

B. Patching Mortar: Mix dry-pack patching mortar, consisting of one part portland cement to two and one-half parts fine aggregate passing a No. 16 sieve, using only enough water for handling and placing.

C. Repairing Formed Surfaces: Surface defects include color and texture irregularities, cracks, spalls, air bubbles, honeycombs, rock pockets, fins and other projections on the surface, and stains and other discolorations that cannot be removed by cleaning.
   1. Immediately after form removal, cut out honeycombs, rock pockets, and voids more than 1/4 inch in any dimension to solid concrete. Limit cut depth to 1 inch. Make edges of cuts perpendicular to concrete surface. Clean, dampen with water, and brush-coat holes and voids with bonding agent. Fill and compact with patching mortar before bonding agent has dried. Fill form-tie voids with patching mortar or cone plugs secured in place with bonding agent.
   2. Repair defects on surfaces exposed to view by blending white portland cement and standard portland cement so that, when dry, patching mortar will match surrounding color. Patch a test area at inconspicuous locations to verify mixture and color match before proceeding with patching. Compact mortar in place and strike off slightly higher than surrounding surface.
   3. Repair defects on concealed formed surfaces that affect concrete's durability and structural performance as determined by Engineer.
D. Repairing Unformed Surfaces: Test unformed surfaces, such as floors and slabs, for finish and verify surface tolerances specified for each surface. Correct low and high areas. Test surfaces sloped to drain for trueness of slope and smoothness; use a sloped template.

1. Repair finished surfaces containing defects. Surface defects include spalls, popouts, honeycombs, rock pockets, crazing and cracks in excess of 0.01 inch wide or that penetrate to reinforcement or completely through unreinforced sections regardless of width, and other objectionable conditions.

2. After concrete has cured at least 14 days, correct high areas by grinding.

3. Repair defective areas, except random cracks and single holes 1 inch or less in diameter, by cutting out and replacing with fresh concrete. Remove defective areas with clean, square cuts and expose steel reinforcement with at least a 3/4-inch clearance all around. Dampen concrete surfaces in contact with patching concrete and apply bonding agent. Mix patching concrete of same materials and mixture as original concrete except without coarse aggregate. Place, compact, and finish to blend with adjacent finished concrete. Cure in same manner as adjacent concrete.

4. Repair random cracks and single holes 1 inch or less in diameter with patching mortar. Groove top of cracks and cut out holes to sound concrete and clean off dust, dirt, and loose particles. Dampen cleaned concrete surfaces and apply bonding agent. Place patching mortar before bonding agent has dried. Compact patching mortar and finish to match adjacent concrete. Keep patched area continuously moist for at least 72 hours.

E. Perform structural repairs of concrete, subject to Engineer's approval, using epoxy adhesive and patching mortar.

F. Repair materials and installation not specified above may be used, subject to Engineer's approval.

3.12 INTERIOR WALL SURFACE TREATMENT

A. Apply coating of penetrating sealer in accordance with manufacturer’s written instructions.

1. Apply at vertical concrete wall surfaces facing the interior of the Salt Storage Shed, from top of footing to top of wall, and to top of concrete walls.

3.13 FIELD QUALITY CONTROL

A. Testing and Inspecting: The Owner will engage a qualified testing and inspecting agency to perform field tests and inspections and prepare test reports.

1. Materials and installed work may require testing and retesting at any time during progress of work. Retesting of rejected materials for installed work shall be done at the Contractor’s expense.
B. Inspections:
   1. Steel reinforcement placement.
   2. Concrete placement, including conveying and depositing.
   3. Curing procedures and maintenance of curing temperature.

C. Concrete Tests: Testing of composite samples of fresh concrete obtained according to ASTM C 172 shall be performed according to the following requirements:
   1. Testing Frequency: Obtain one composite sample for each day's pour of each concrete mixture exceeding 5 cu. yd., but less than 25 cu. yd., plus one set for each additional 50 cu. yd. or fraction thereof.
      a. When frequency of testing will provide fewer than five compressive-strength tests for each concrete mixture, testing shall be conducted from at least five randomly selected batches or from each batch if fewer than five are used.
   2. Slump: ASTM C 143/C 143M; one test at point of placement for each composite sample, but not less than one test for each day's pour of each concrete mixture. Perform additional tests when concrete consistency appears to change.
   3. Air Content: ASTM C 231, pressure method, for normal-weight concrete; one test for each composite sample, but not less than one test for each day's pour of each concrete mixture.
   4. Concrete Temperature: ASTM C 1064/C 1064M; one test hourly when air temperature is 40 deg F and below and when 80 deg F and above, and one test for each composite sample.
   5. Compression Test Specimens: ASTM C 31/C 31M.
      a. Cast and laboratory cure two sets of two standard cylinder specimens for each composite sample.
   6. Compressive-Strength Tests: ASTM C 39/C 39M; test one set of two laboratory-cured specimens at 7 days and one set of two specimens at 28 days.
      a. Test one set of two field-cured specimens at 7 days and one set of two specimens at 28 days.
      b. A compressive-strength test shall be the average compressive strength from a set of two specimens obtained from same composite sample and tested at age indicated.
   7. Strength of each concrete mixture will be satisfactory if every average of any three consecutive compressive-strength tests equals or exceeds specified compressive strength and no compressive-strength test value falls below specified compressive strength by more than 500 psi.
   8. Test results shall be reported in writing to Engineer, concrete manufacturer, and Contractor within 48 hours of testing. Reports of compressive-strength tests shall contain Project identification name and number, date of concrete
placement, name of concrete testing and inspecting agency, location of concrete batch in Work, design compressive strength at 28 days, concrete mixture proportions and materials, compressive breaking strength, and type of break for both 7- and 28-day tests.

9. Nondestructive Testing: Impact hammer, sonoscope, or other nondestructive device may be permitted by Engineer but will not be used as sole basis for approval or rejection of concrete.

10. Additional Tests: Testing and inspecting agency shall make additional tests of concrete when test results indicate that slump, air entrainment, compressive strengths, or other requirements have not been met, as directed by Engineer. Testing and inspecting agency may conduct tests to determine adequacy of concrete by cored cylinders complying with ASTM C 42/C 42M or by other methods as directed by Engineer.

11. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.

12. Correct deficiencies in the Work that test reports and inspections indicate do not comply with the Contract Documents.

End of Section
BID FORM
DPW TRUCK WASH BAY

Pursuant to and in compliance with the “Invitation to Bid” and Standard Instructions to Bidders relating thereto, the undersigned, having visited the sites and carefully examined all Bidding Documents and complete General Specifications together with all Addenda issued and received prior to the scheduled closing time for receipt of Bids, hereby offers and agrees as follows:

- To provide all labor, materials, and anything else reasonably necessary to complete all work per the attached specifications.
- If awarded this Contract, we will execute a Contract with the Town of Simsbury, Owner of the properties.

In submitting this BID, the BIDDER acknowledges that:

1. Each lump sum price includes all labor, materials, transportation, hauling, overhead, fees and insurances, profit, and all other costs to cover the finished work called for regarding the specified section of Town as stated in the Contract Documents. No additional payment of any kind in the form of a surcharge will be made for work accomplished under the lump sum prices, as bid.

2. No representation of warranty has been made by the OWNER that the estimated quantities used for comparison of BIDS will even approximate the actual quantities required to satisfactorily complete the WORK required under this CONTRACT.

3. Upon receipt of written notice of acceptance of this BID by the OWNER, the BIDDER shall execute the CONTRACT attached to these documents within ten (10) calendar days and other documents as required in these documents.

4. In regard to all conditions affecting the WORK to be done and the labor and materials to be furnished, this BID is based solely on the BIDDER’S investigations and findings and neither the OWNER nor its officers, employees or agents shall be held responsible for the accuracy of, or be bound by any information contained in these Contract Documents.

Submitted By: ____________________________________________

Company Phone

__________________________
Street City Zip

Authorized Signature: ____________________________________

Signature Printed Name

DPW Truck Wash Bay
BID FORM
DPW TRUCK WASH BAY

BID ITEM:

Construction of DPW Truck Wash Bay as specified in this Invitation to Bid and as show on the Contract Drawings prepared by Silva Associates: $ ______________ Lump Sum

Total in figures       Total in Words

Total Bid: $ ____________

All work will be paid as a Lump Sum for work complete and in place according to the contract documents. The Town reserves the right to hold a 5% retainage on all progress payments.

ANTICIPATED COMPLETION DATE: ______________________________________
Assuming 8/23/16 Notice to Proceed
Schedule is a factor in determining best value to the Town

Submitted By: _______________________________________________________

Company                  Phone

Street                City              Zip

Authorized Signature: ______________________________________________

Signature                  Printed Name
IF A SOLELY OWNED COMPANY:

Company Name _________________________________________
Address _________________________________________
Town _________________________________________
By _________________________________________

(Authorized Signature)

Title _______________________ Date _____________

IF A CORPORATION OR LIMITED LIABILITY COMPANY:

A corporation or limited liability company organized under the laws of
__________________________, composed of officers as follows:

____________________________   ____________________________
President              Secretary

____________________________   ____________________________
Vice President            Treasurer

IF A PARTNERSHIP:

A partnership doing business under the firm name and style of
__________________________, composed of partners as follows:

____________________________   ____________________________
Name & Title (if any)     Name & Title (if any)

____________________________   ____________________________
Name & Title (if any)     Name & Title (if any)

This Bill must bear the written signature of the BIDDER. If the BIDDER is a partnership, the Bid must be signed by a partner. If the BIDDER is a corporation or limited liability company, the Bid must be signed by a duly authorized officer of such corporation or Limited Liability Company.
BIDDER'S QUALIFICATIONS STATEMENT

The BIDDER shall answer all of the following questions, as part of the Bid, so that the OWNER can judge the BIDDER's ability, experience and facilities for performing the proposed work.

1. Name of BIDDER: __________________________________________________________

2. Bidder's Tax Identification Number: ____________________________________________

3. What year was company organized/formed? ______________________________________

4. How many years has the BIDDER been engaged in business under the present firm or trade name? ___________________________________________________________________

5. What is the general character or type of work you perform? __________________________
   __________________________________________________________________________

6. Has a claim ever been brought in court or to arbitration against the BIDDER for failure to complete any contracted work or default on a contract? ___________________________
   If yes, explain with whom and why: _____________________________________________
   __________________________________________________________________________
   __________________________________________________________________________

7. For other similar projects you have under contract at the present time: Attach list with description of work; the name of the client/owner with telephone number; and the approximate value of the work to be performed.
   NOTE: The BIDDER is required to have completed a minimum of five (5) similar projects as a demonstration of competency and experience for the project proposed herein. Such projects are to be listed below.

8. Attach a list of all projects that your present organization has completed within the past ten years or is presently working on, including name of project, owner and name and telephone number of the owner’s representative. Indicate here how many additional pages attached: ___ pages.

9. Attach a list of the names, addresses and the background/experience of all principal or key members of the BIDDERS organization, including its officers:
   Indicate the number of pages attached: _______ pages
   
   NOTE: If requested, the BIDDER agrees to furnish the OWNER with a detailed financial statement and other relevant information that may be required by the Town of Simsbury to properly evaluate the qualifications of the BIDDER.

DPW Truck Wash Bay
PROPOSED SUBCONTRACTORS

BIDDER intends to utilize the following subcontractors on this project:

If none, write “None” here: _______________________

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<tr>
<th>NAME AND ADDRESS OF SUBCONTRACTOR</th>
<th>DESCRIPTION OF WORK:</th>
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DPW Truck Wash Bay
NON-COLLUSION AFFIDAVIT OF BIDDER

State of ________________________________, County of _____________________, being first
duly sworn, disposes and says that:

1. He is the owner, officer, representative or agent of: _________________________________ the
   BIDDER that has submitted the attached BID;

2. The attached BID is genuine; it is not a collusive or sham BID.

3. He is fully informed respecting the preparation, and contents of, and knowledgeable of all
   pertinent circumstances respecting the attached BID.

4. Neither BIDDER nor any of its officers, partners, owners, agents, representatives, employees, or
   parties in interest, including this affiant, has in any way colluded, conspired, connived, or agreed,
   directly or indirectly, with any other bidder, firm or person to submit a collusive or sham BID in
   connection with the AGREEMENT for which the attached BID has been submitted or to refrain
   from bidding in connection with any contract, or has in any manner, directly or indirectly, sought
   by agreement, collusion, communication or conference with any other bidder, firm or person to
   fix the price or prices in the attached BID or of any other bidder, or to fix any overhead, profit or
   cost element of the BID prices or the bid price of any other bidder, or to secure through
   collusion, conspiracy, connivance or unlawful agreement any advantage against the Town of
   Simsbury or any other person interested in the proposed AGREEMENT.

5. The price(s) quoted in the attached BID are fair and proper and are not tainted by any collusion,
   conspiracy, connivance or unlawful agreement on the part of the BIDDER or any of its agents,
   representatives, owners, employees, or parties in interest, including this affiant; and

6. That no elected or appointed official or other officer or employee of the Town of Simsbury, who
   is directly or indirectly interested in this BID, or in the supplies, materials, equipment, work or
   labor to which it relates, or in any of the profits thereof.

   (Signed)_______________________
   (Name of Bidder)

Subscribed and sworn to before me this
_______ day of ____________, 2016

_______________________________
Title
My Commission expires _________, 20__

DPW Truck Wash Bay
ACKNOWLEDGEMENT FORM

I have read Section 1103 of the Charter of the Town of Simsbury, the Code of Ethics Ordinance, and the Guidelines issued thereunder. I understand my responsibilities as a Contractor retained by the Town of Simsbury, and I am in compliance with the Charter and the Code of Ethics. I have indicated in the space below any areas of conflict should they arise in matters before our board, commission, agency or department, and I agree to report any future conflicts under the provisions of Section 1103 of the Charter.

| Areas of Exception |

CONFLICTS OF INTEREST
SECTION 1103

CONFLICTS OF INTEREST. It is hereby declared to be the policy of the Town that any elected or appointed officer, any member of any board or commission or any employee of the Town who has a financial interest, direct or indirect, in any contract, transaction or decision of any officer or agent of the Town or any board or commission, shall disclose that interest to the Board of Selectmen, which shall record such disclosure upon the official record of its meetings. Such disclosure of a financial interest, direct or indirect, in any contract, transaction or decision of any officer or agent of the town or of any board or commission shall disqualify such elected or appointed official or such member of a board of commission or such town employee from participation in the awarding, assignment or discussion of said contract, transaction or decision. Violation by any such official, board or commission member or employee of the provisions of this section shall be grounds for his/her removal.

____________________________
Signature

____________________________
Name (Please Print)

____________________________
Date

A copy of the Town Code is available from the Office of the Town Clerk or is available online at http://www.simsbury-ct.gov/sites/simsburyct/files/file/towncode_1.pdf
STATEMENT OF BIDDERS COMPLIANCE WITH EQUAL EMPLOYMENT OPPORTUNITY LAW AND REGULATION INCLUDING EXECUTIVE ORDER NO. 3

This statement must be completed by the Bidder and shall accompany his bid for this project.

IT IS HEREBY CERTIFIED THAT:

NAME OF BIDDER: _________________________________________________

BUSINESS ADDRESS: _________________________________________________

To the extent required by law, the Bidder has complied on past Contracts and will fully comply on this project with all applicable laws and regulation regarding equal employment opportunities for minorities and women, and;

Has _____ has not ______ previously performed work under the conditions of the Governor’s Executive Order No. 3 of the State of Connecticut, or any preceding similar Executive Order with regards to Non-Discrimination.

_______________________________________
Signature

_______________________________________
Title

Subscribed and sworn to before me this
_______ day of __________, 2016

_______________________________________
Title

My Commission expires ________, 20__

IMPORTANT: THIS STATEMENT MUST BE SUBMITTED WITH BID

END OF SECTION