INVITATION TO BID

The Town of Scituate is currently accepting bids for:
FOUNDATIONS CONSTRUCTION FOR NEW POLICE STATION
1315 CHOPMIST HILL ROAD, SCITUATE, RHODE ISLAND

Sealed bids will be received in the Office of the Town Clerk, Town of Scituate, Scituate Town Hall, 195 Danielson Pike, Scituate, Rhode Island, until 3 p.m. on Monday, May 14, 2018 at which time they will be publicly opened and read aloud in the Town Council Chambers, Town Hall, 195 Danielson Pike, Scituate, Rhode Island.

The bid envelope should be clearly marked in the lower left-hand corner “FOUNDATION CONSTRUCTION FOR NEW POLICE STATION”.

The scope of work includes the following:

A. The limits of the proposed foundation including elevations and sewer/water penetration locations are shown on the Site Plans for a Proposed Municipal Police Station, Town of Scituate, Rhode Island, prepared by Joe Casali Engineering, Inc., dated April 26, 2018 and on Foundation Plans and associated written specifications, prepared by Richard Cardarelli, AIA, dated April 10, 2018. Site Plans and Foundation Plans are attached. Additional copies are available at the Building Official’s Office, 195 Danielson Pike, Scituate, Rhode Island for review.

B. Form footings and foundations and install rebar as shown on the Foundation Plans. Upon achieving design strength, strip concrete forms. Bidder will be responsible for coordination and all costs associated with engaging a Rhode Island Licensed and Qualified materials testing firm to perform all necessary Structural Special Inspections per the Rhode Island State Building Code, SBC-1. Coordinate with the Town Engineer, the Town Building/Zoning Official and the Design Engineer(s) of Record for all necessary Inspections.

C. Pour concrete footings and foundation walls as shown on the Foundation Plans. Coordinate with the Town Engineer, the Town Building/Zoning Official, the Design Engineer(s) of Record and the Architect of Record for all necessary Inspections.

D. All Foundation Construction shall be performed in accordance with the Rhode Island State Building Code, SBC-1, with all latest references, amendments and revisions.

This bid shall include all materials and labor as needed to complete this Work.

The Awarding Authority reserves the right to waive irregularities and to reject any or all bids, wholly or in part, to waive any informalities or defects in any or all bids and to make awards deemed in the best interest of the Town of Scituate.
Certificates of liability insurance acceptable to the Owner shall be filed with the Owner prior to commencement of the Work. These certificates and the insurance policies shall contain a provision that coverages afforded under these policies will not be canceled or allowed to expire until at least 30 days’ prior written notice has been given to the Owner.

Simultaneously, with execution of a contract, the Contractor shall furnish a performance bond for faithful performance of the contract and a payment bond for the payment of all persons performing labor and materials under this contract. The surety on such bonds shall be a surety company qualified to do business under the laws of the State of Rhode Island and satisfactory to the Owner. The performance bond shall remain in force for one (1) year after final acceptable of the work by the Owner.

Attention is called to the fact that not less than the prevailing wage rates shall be paid on this Project. Attention is also called to the requirements relating to Workmen’s Compensation and Equal Employment Opportunities.

Any individuals requiring interpreter services for the hearing impaired should call the Town Clerk no less than seventy-two (72) hours in advance of the bid opening.
CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING (R&D) OF ALL MATERIALS INDICATED ON THE PLANS.

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PROPOSED SCITUATE POLICE STATION
1354 CHOPMIST HILL ROAD
SCITUATE, RHODE ISLAND
AP 35, LOT 10

SCALE (FEET)
1 INCH = 10 FT

GRADING & DRAINAGE PLAN

REVISIONS:
NO.
DATE.
DESCRIPTION

JOE CASALI  ENGINEERING, Inc.
300 Post Road, Warwick, RI 02888
(401) 944-1300    (401)944-1313 FAX    WWW.JOECASALI.COM

PRELIMINARY, NOT FOR CONSTRUCTION
24" P.T. ON CONTINUOUS SILL SEALER

3/8" X 12" X 20 G/4" BEND STL. ANCHOR BOLT @ 300 1/2" FROM CORNERS.

12" 3,500 PSI CONCRETE FOUNDATION

UNDISTURBED VIRGIN SOIL, VERIFY FOR FOUNDATION CAPACITY. MIN. 3,000 PSI BEARING CAPACITY.

2" R12 ROD INSULATION X P.S. EXTEND FULL HEIGHT OF FOUNDATION WALL.

SEE NOTES AT RIGHT

SECTION A-A TYPICAL

SECTION A-A NOTES

"BURN FINISH" CONC. SLAB SEAL AND HARDEN IN UNFINISHED AREAS

4" 3,500 PSI CONC. SLAB WITH G61 W2.1
X 20.1 HAP 6 X 4' P. CRUSHED STONE ON 6" COMP. 2" CRUSHED STONE

4" 3,500 PSI CONC. SLAB WITH G61 W2.1
X 20.1 HAP 6 X 4' P. CRUSHED STONE ON 6" COMP. 2" CRUSHED STONE

SECTION B-B AT OHD

TYPICAL SLAB CONTROL JOINT DETAIL

TYP. WALL CORNER

TYP. WALL INTERSECTION
FOOTTING TYPE A

FOOTTING TYPE B

FOOTTING TYPE C

FOOTTING TYPE D

FOOTTING SCHEDULE

<table>
<thead>
<tr>
<th>TYPE</th>
<th>SIZE</th>
<th>REINFORCING</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>2x2x12</td>
<td>3-#4 E.W.</td>
</tr>
<tr>
<td>B</td>
<td>4x4x12</td>
<td>4-#4 E.W.</td>
</tr>
<tr>
<td>C</td>
<td>4x4x16</td>
<td>4-#8 E.W.</td>
</tr>
<tr>
<td>D</td>
<td>2x12 x CONTINUOUS</td>
<td>2-#8 x CONTINUOUS</td>
</tr>
</tbody>
</table>

SIMPSON STRONG TIE COL.
CONNECTOR ON TOP OF WALL
SEE STRUCTURAL
BY "TRUSS SUPPLIER"

SIMPSON STRONG TIE COL.
CONNECTOR SEE STRUCTURAL
BY "TRUSS SUPPLIER"

HAUNCH SLAB 2x4x12 DEEP
X CONTINUOUS w/ 3#5

3 #5 BARS x CONTINUOUS

2" X 12" DEEP X CONTINUOUS
DIVISION 3 CONCRETE

CONCRETE WORK

Codes and Standards: ACI 301 "Specifications for Structural "Building Code Requirements for Reinforced Concrete" as otherwise indicated.

Concrete Testing Service: Employ acceptable testing laboratory to perform materials evaluation, testing and design of concrete mixes.

Quality Control: Perform sampling and testing during concrete placement, as follows:

Sampling: ASTM C 172.

Slump: ASTM C 143, one of test for each load at point of discharge.

Air Content: ASTM C 173, one for each set of compressive strength Specimens.

Compressive strength: 3,500 psi, ASTM C 39, one set for each 50 cu. yds. or a fraction thereof of each class of concrete; one specimen tested at 7 days, one specimen tested at 28 days and one retained for later testing if required.

Aggregates: ASTM C 33, except local aggregates of proven durability may be used when acceptable to Architect.

Water: Drinkable


Water-Reducing Admixture: ASTM C 494; type as required to suit project conditions. Only use admixtures which have been tested and accepted in mix designs, unless otherwise acceptable.

03310-1

Related Materials:

Moisture Barrier: Clear 6 mils tick polyethylene.

Membrane-Forming Curing Compound: ASTM C 309, Type I.

Richard J. Cardarelli AIA Architects
Joint Fillers: See Division 7.

Form Materials:

Provide form materials with sufficient stability to withstand pressure of placed concrete without bow or deflection.

Reinforcing Materials:

Deformed Reinforcing Bars: ASTM A 615, Grade 60, unless otherwise indicated.

Welded Wire Fabric: ASTM A 185

Forming and Placing Concrete:

Ready-mix Concrete: ASTM C 94.

Formwork: Construct so that concrete members and structures are of correct size, shape, alignment, elevation and position.

Provide openings in formwork to accommodate work of other trades. Accurately place and securely support items built into forms.

Clean and adjust forms prior to concrete placement. Apply form release agents or wet forms, as required. Retighten forms during concrete placement if required to eliminate mortar leaks.

Reinforcement: Position, support, and secure reinforcement against displacement. Locate and support with metal chairs, runners, bolsters, spacers and hangers, as required. Install welded wire fabric in as long lengths as practicable, lapping at least one mesh. Set wire ties so ends are directed into concrete, not toward exposed concrete surfaces.

Joints: Provide construction, isolations, and control joints as indicated or required. Locate construction joints so as to not impair strength and appearance of structure. Place isolation and control joints in slabs-on-ground to stabilize differential settlement and random cracking.

Installation of Embedded Items: Set and build into work anchorage devices and other embedded items required for other work that is attached to, or supported by cast-in-place concrete. Use setting diagrams, templates and instructions provided by others for locating and setting.

Richard J. Cardarelli AIA Architects
Concrete Placement: Comply with ACI, placing concrete joints or sections. Do not begin placement until work of completed.

Consolidate placed concrete using mechanical vibrating equipment with hand rodding and tamping, so that concrete is worked around reinforcement and other embedded items and into forms.

Protect concrete from physical damage or reduced strength due to weather extremes during mixing, placement and curing.

    In cold weather comply with ACI 306.
    In hot weather comply with ACI 305.

Concrete finishes:

Exposed-to-view surfaces: Provide a smooth finish for exposed concrete surfaces and surfaces that are to be covered with a coating or covering material applied directly to concrete. Remove fins and projections, path defective areas with cement grout, and rub smooth.

Slab Trowel Finish: Apply trowel finish to monolithic slab surfaces that are exposed-to-view or are to be covered with resilient flooring, paint or other thin film coating. Consolidate concrete surfaces by finish troweling, free of trowel marks, uniform in texture and appearance.

Curing: Begin initial curing as soon as free water has disappeared from exposed surfaces. Where possible, keep continuously moist for not less than 72 hours. Continue curing by use of moisture-retaining cover or membrane-forming curing compound. Cure formed surfaces by moist curing until forms are removed. Provide protections as required to prevent damage to exposed concrete surfaces.

END OF SECTION
DIVISION 3 CONCRETE

CONCRETE WORK

Codes and Standards: ACI 301 "Specifications for Structural Concrete Building"; ACI 318 "Building code Requirements for Reinforced Concrete" comply with applicable provisions except as otherwise indicated.

Concrete Testing Service: Employ acceptable testing laboratory to perform materials evaluation, testing and design of concrete mixes.

Quality Control: Perform sampling and testing during concrete placement, as follows:

Samplings: ASTM C 172

Slump: ASTM C 143, one of test for each load at point of discharge.

Air Content: ASTM C 173, one for each set of compressive strength specimens.

Aggregates: ASTM C 33, except local aggregates of proven durability may be used when acceptable to Architect.

Water: Drinkable

Air-Entraining Admixture ASTM C 260 (4.5-6.5%)

Water-Reducing Admixture: ASTM C 494; type as required to suit project conditions Only use admixtures which have been tested and accepted in mix designs, unless otherwise acceptable.

03310-1

Related Materials:

Moisture Barrier: Clear 6 mils thick polyethylene.

Membrane-Forming Curing Compound: ASTM C 309, Type I

Below are fine aggregate gradations, revise to suit project:

3/8": 100%
No. 4: 95-100%
No. 8: 80-90%
No. 16: 50-75%
No. 30: 30-50%
No. 50: 10-20%
No. 100: 2-5%

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Coarse aggregate consisting of gravel or crushed stone, clean, hard, free from deleterious matter. Grade by weight to pass sieves as follows:

½": 100%
3/8": 30-50%
No. 4: 0-15%
No. 8: 0-5%


Topping Mix

Standard Topping:

Design mix to produce topping material with the following characteristics:

Compressive strength, 3500 psi at 28 days.

Slump; 3” maximum for concrete containing HRWR (super plasticizer) and 1” maximum for other concrete.

Maximum W/C ratio; 0.45.

Mixing:

Provide batch type mechanical mixer for mixing topping material at project site. Equip batch mixer with a suitable charging hopper, water storage tank, and a water measuring device. Use only mixers which are capable of mixing aggregates, cement and water into a uniform mix within specified time, and of discharging mix without segregation.
Mix each batch of 2 cu. yds. or less for at least 1-1/2 min. Increase mixing time 15 secs. for each additional cu. yd.

Ready-mixed topping may be used when acceptable by Architect. When acceptable, human ready-mix topping complying with requirements of ASTM C 94.

PART 3 – EXECUTION

Condition of Surfaces:

Topping Applied to Fresh Concrete: Do not begin placement of topping until water ceases to rise to surface, and water and laitance have been removed from base slab surface.

Topping Applied to Hardened Concrete: Remove dirt, loose material, oil, grease, paint or other contaminants, leaving a clean surface.

Prior to placing topping mixture, thoroughly dampen slab surface but do not leave standing water. Over dampened surface, apply specified bonding compound. Place topping mix after bonding compound has dried.

For reinforced toppings, provide necessary chairs or supports, and maintain position of reinforcing mesh as shown on drawings.

Joints: Mark location of joints in base slab so that joints in top course will be placed directly over them.

Placing and Compacting:

Spread topping mixture evenly over prepared base, bring to required level with straight-edge and strike-off. After placement do not work surface further until ready for floating. Begin floating when surface water has disappeared, or when concrete has stiffened sufficiently to permit operation of power driven floats. Consolidate surface with power-driven floats, or by hand-floating if area is small or inaccessible to power units.

Trowel Finish:

After floating, begin first trowel finish operation using power driven trowels. Continue troweling until surface is ready to receive final troweling.

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Curing and Protections:

Cure and protect topping applications and finishes as specified.

Performances:

Failure of concrete topping to bond to substrate (as evidenced by a hollow sound when tapped), or disintegration or other failure of topping to perform as a floor finish, will be considered failure of materials and workmanship. Repair or replace toppings in areas of such failures, as directed.

END OF SECTION

03320-4