CITY OF SANTA MARIA

REQUEST FOR PROPOSALS
FOR DEMOLITION AND
REPLACEMENT OF POOL DECK
CONCRETE

Issuing Office:
City of Santa Maria
Recreation and Parks Department
615 South McClelland Street
Santa Maria, CA. 93454

RELEASE DATE: JANUARY 21, 2020
SUBMIT CLARIFICATIONS: JANUARY 27, 2020
PROPOSAL DUE DATE: JANUARY 31, 2020
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REQUEST FOR PROPOSALS (RFP) FOR SERVICES

THE CITY OF SANTA MARIA, LOCATED IN SANTA BARBARA COUNTY, CALIFORNIA, INVITES PROPOSALS FOR THE PROJECT FURTHER DESCRIBED BELOW:

THE CITY OF SANTA MARIA IS REQUESTING PROPOSALS FOR CONCRETE DEMOLITION AND REPLACEMENT OF TWO AREAS OF THE PAUL NELSON POOL.

Proposal packages may be obtained on the City website at https://www.cityofsantamaria.org/bids

All communications and inquires shall be submitted in writing via email to:

City of Santa Maria
Recreation and Parks Department
Dennis Smitherman
Dsmitherman@cityofsantamaria.org
1. INTRODUCTION
The City of Santa Maria ("City") is requesting proposals for demolition and installation of concrete in two areas of the pool deck at the Paul Nelson Aquatic Center from a qualified contractor with previous pool work experience. The City will select one (1) supplier to provide equipment and materials for the Aquatic Center as outlined in this request.

2. SUBMITTALS
Interested parties shall submit one (1) hardcopy and one (1) electronic copy (sent to dsmitherman@cityofsantamaria.org) of the proposal. A separate, sealed envelope should contain the cost Proposal/Schedule of cost. All proposals must be received at the City by 4:00 p.m. PDT on January 31, 2020.

No proposals will be accepted after this time and date. Proposals will remain sealed and unopened. Proposals will not be publicly opened. Any proposal received after this time and date will be unopened and destroyed.

3. SCOPE OF PROJECT
This project consists of demolition and replacement of two areas of the pool deck which includes the following (using attached pool specifications, Attachment “D”)

- Area 1 is 41' x 38'.
  - Includes (4) 2' x 2' footings.
  - Includes demo and replace three (3) drain inlets and one (1) 6" drain pipe.
  - Includes installation of deco foam and deco sealant between pool structure and pool decking.
  - Includes (4) 14"x24" deep footings for slide structure

- Area 2 is 60' x 17' and 28'x20'.
  - Includes demo and replace of two (2) drain inlets and one (1) 6" drain pipe.
  - Includes installation of deco foam and deco sealant between pool structure and pool decking.

- All work is estimated per specs provided by Aqua Design Group and should be estimated at prevailing wage.

- All concrete spoils to be hauled off site.

4. DESIGN ELEMENT GUIDELINES & SPECIFICATIONS
Suppliers should base the installation on meeting all accessibility and safety standards as well as the guidelines and specifications listed in this RFP. Quality of components, cost, and appropriateness to location and target demographic must be taken into consideration.
Compliance with the Santa Maria Municipal Code and all other applicable laws is required.

Required Items:

1. Must provide a minimum of a 100% warranty for the cost of the repair or replacement for any work or product defects. Please include the duration of your warranty in response.

5. ASSEMBLY/INSTALLATION AND INSPECTION
The installation will be provided and managed by the Supplier. The Supplier must supply direct supervision from manufacturer or supply qualified and certified representatives familiar with installation. All tools and equipment required for installation shall be provided by the Supplier. The Supplier to provide response in determining the length of time needed to complete the proposed work. Working days will begin as outlined in the contract.

It is the requirement of this RFP that Suppliers shall provide and pay for equipment installation. A representative of the Supplier is required to conduct a post installation inspection of equipment upon completion to insure the proper installation of the equipment. If not properly installed, modifications must be submitted in writing to the City and remedied immediately. Co-inspection with the Supplier's representative of assembly and installation work will be conducted by the City following installation. The City will supply the punch list for final completion generated by this co-inspection. The Supplier shall submit to the City the manufacturer's certification of compliance and warranty following punch list completion.

Warranty: Upon completion of installation, the Supplier must provide documentation attesting the equipment has been installed meeting all specifications thereby warranted by manufacturer. Additionally, it is the Supplier's responsibility to provide to the City the manufacturer's warranty of installed equipment.

6. SCHEDULE AND DEADLINES
- Include a schedule of deliverables as well as any known critical deadlines.

- Cost Proposal/Schedule of Costs - Separate, Sealed Envelope
  Submit a detailed Cost Proposal/Schedule of Costs for all work to be performed for the project in a separate, sealed envelope. Cost Proposal/Schedule of Costs shall be a time-and-materials method of payment with a not-to-exceed limit, including specific rates of compensation and clearly depict all direct and indirect costs and how they would be applied.
• Pricing for all services shall be fully inclusive.

7. PROPOSAL FORMAT GUIDELINES
Interested entities are to provide the City of Santa Maria with a thorough proposal using the following guidelines:

• Proposal should be typed and should contain no more than 20 typed pages using a 12-point font size, including transmittal letter and resumes of key people, but excluding Index/Table of Contents, tables, charts, and graphic exhibits.

Each proposal will adhere to the following order and content of sections.

• Proposal should be straightforward, concise, and provide “layman” explanations of technical terms that are used.

• Emphasis should be concentrated on conforming to the RFP instructions, responding to the RFP requirements, and on providing a complete and clear description of the offer. Proposals which appear unrealistic in terms of technical commitments, lack of technical competence or are indicative of failure to comprehend the complexity and risk of this contract may be rejected.

The following proposal sections are to be included in the Proposer’s response:

i. Vendor Application Form and Cover Letter
Complete Attachment “A”, “Request for Proposal-Vendor Application Form” and attach this form to the cover letter. A cover letter, not to exceed two pages in length, should summarize key elements of the proposal. An individual authorized to bind the consultant must sign the letter. The letter must stipulate that the proposal price will be valid for a period of at least 180 days. Indicate the address and telephone number of the contractor’s office located nearest to Santa Maria, California, and the office from which the project will be managed.

ii. Background and Project Summary Section
The Background and Project Summary Section should describe your understanding of the City, the work to be done, and the objectives to be accomplished. Refer to the Scope of Work of this RFP.

iii. Staffing
Provide a list of leadership individuals.

iv. Qualifications
The information requested in this section should describe the qualifications of the firm or entity, key staff, and sub-contractors performing projects within the past
five years that are similar in size and scope to demonstrate competence to perform these services. Information shall include:

A summary of entity’s demonstrated capability, including length of time that your firm has provided the services being requested in this Request for Proposal.

v. Financial Capacity (for private or non-profit agencies only)
Provide the financial references to allow the City to reasonably formulate a determination about the financial capacity of the Proposer. Describe any administrative proceedings, claims, lawsuits, or other exposures pending against the Proposer (attachment “B”).

vi. Fee Proposal
All Proposers are required to use the form in Attachment “C” to be submitted with their proposal. Pricing instructions should be clearly defined to ensure fees proposed can be compared and evaluated. Proposals shall be valid for a minimum of 180 days following submission.

vii. Disclosure
Please disclose any and all past or current business and personal relationships with any current City of Santa Maria elected official, appointed official, City employee, or family member of any current City of Santa Maria elected official, appointed official, or City employee. Any past or current business relationship may not disqualify the firm from consideration. Disclose any pending litigation, fines/penalties or settlements which the proposers are responsible for.

8. CERTIFICATE OF INSURANCE
Include Certificate of Insurance carried by the firm, containing the insurance carrier, A.M. best ratings scope of coverage and limits, deductibles, and self-insured retention.

Minimum scope of insurance shall be at least as broad as: (i) Insurance Services Office Commercial General Liability coverage (occurrence form CG 0001), including products and completed operations, property damage, bodily injury and personal & advertising injury; (ii) Insurance Services Office Business Auto Coverage Form Number CA 00 01 covering any auto (Code 1), or if Consultant has no owned autos, covering hired (Code 8) and non-owned autos (Code 9); and (iii) Workers’ Compensation insurance as required by the State of California and Employer’s Liability Insurance.

Minimum limits shall be no less than: (i) General Liability $2,000,000 per occurrence for bodily injury, personal injury and property damage. If Commercial General Liability Insurance or other form with a general aggregate limit is used, either the general aggregate limit shall apply separately to this project/location (ISO CG 25 03 or 25 04) or
the general aggregate limit shall be twice the required occurrence limit; (ii) Automobile Liability $1,000,000 per accident for bodily injury and property damage; (iii) Workers’ Compensation: Statutory limits; (iv) Employer's Liability $1,000,000 per accident for bodily injury or disease; (v) Errors and Omissions Liability $1,000,000 per occurrence or claim, $2,000,000 aggregate.

9. TAXPAYER IDENTIFICATION NUMBER

Request for Taxpayer Identification Number and Certification
Include a completed and signed Form W-9 Request for Taxpayer Identification Number and Certification.

10. METHOD AND CRITERIA FOR SELECTION

A selection committee will evaluate and rank proposals based on specific criteria.

<table>
<thead>
<tr>
<th>CRITERIA</th>
<th>POINTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Demonstrated understanding of project</td>
<td>25</td>
</tr>
<tr>
<td>Experience with similar kinds of work</td>
<td>25</td>
</tr>
<tr>
<td>Demonstrated technical ability</td>
<td>25</td>
</tr>
<tr>
<td>Ability to meet requirements</td>
<td>25</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>100</strong></td>
</tr>
</tbody>
</table>

11. ACCEPTANCE OR REJECTION OF PROPOSAL

The City reserves the right to select the successful proposal(s) and negotiate an agreement as to the scope of services, the schedule for performance, duration of the services with the firm(s) whose proposal(s) is/are most responsive to the needs of the City, and compensation for services. The City reserves the right to further negotiate any aspect of an agreement.

Proposals shall be prepared and submitted in accordance with provisions of the RFP instructions and specifications. Any alteration, omission, addition, variance, or limitation of, from or to a proposal may be sufficient grounds for rejection of the proposal. The City has the right to waive any minor defects or irregularities in a proposal. The City may deem a proposal nonresponsive if any document or item necessary for the proper evaluation of the proposal is incomplete, improperly executed, indefinite, ambiguous, or missing.
Additionally, the City reserves the right to reject any and all proposals. The City may, for any reason, decide not to award the agreement(s) as a result of this RFP. If subsequent selection opportunities are issued, the City is under no obligation to advise any respondent to this RFP, although it is the City’s intent to notify all qualified respondents of any such plans.

12. RIGHT TO CHANGE OR AMEND REQUEST
The City reserves the right to change the terms and conditions of this RFP. The City will notify all proposers initially provided this RFP of any material changes via addendum by United States Postal Mail or by electronic method via email and/or its website, www.cityofsantamaria.org/bids. No one is authorized to amend any RFP requirements in any respect by an oral statement, or to make any representation or interpretation in conflict with these provisions.
“A”

AGENCY STATEMENT

Please complete and submit with your proposal response.

Name of business/agency: ________________________________

Business/agency address: ________________________________

Business phone__________ Email __________________________

Business/agency classification (check all that apply):

☐ Individual  ☐ Corporation  ☐ Non-profit  ☐ Partnership  ☐ Government agency

Federal tax number: ______________________________________

Name of Director: _________________________________________

Does the agency maintain insurance in amounts specified by the City contract?  ☐ Yes  ☐ No

If no, describe the differences: ________________________________

Are there claims pending against this insurance policy?  ☐ Yes  ☐ No

If yes, please explain the nature of the claims:

_____________________________________________________________________________________

_____________________________________________________________________________________

How long has the agency been in existence? ___

Is the agency licensed by the City to do business in the City of Santa Maria? _________

Proposal offers shall be good and valid until the City completes the award or rejects the proposals. Failure to concur with this condition may result in rejection of the offer. Does the agency accept this condition?  ☐ Yes  ☐ No

I certify that to the best of my knowledge, the information contained in this proposal is accurate and complete, and that I have the legal authority to commit this Agency to a contractual agreement.

SIGNATURE: ________________________________ Date: ________________________________

PRINT NAME AND TITLE OF SIGNER: ________________________________
“B”
Financial Review

Provide financial references to allow the City to reasonably formulate a determination about the financial capacity of the Proposer. Describe any administrative proceedings, claims, lawsuits, or other exposures pending against the Proposer.
COMPENSATION

Submit a compensation proposal in a separate sealed envelope. The compensation shall be broken down by component.
EXAMPLE OF AGREEMENT FOR PROFESSIONAL SERVICES

AGREEMENT FOR PROFESSIONAL SERVICES

This Agreement is made on, by and between, a California Corporation ("Contractor") and the City of Santa Maria, a California Municipal Corporation and charter city ("City"), in Santa Maria, California, based on the following recitals:

1. [insert text];
2. [insert text];
3. [Insert text].

NOW, THEREFORE, IT IS AGREED:

1. **Recitals true.** The above recitals are true.
2. **General.**
   2.01. **Term and Termination.** The term of this contract is [insert text], beginning on the date first written above. This contract may be extended by mutual consent of the parties. This contract may be terminated for breach of its terms or conditions, or because of discovery of any act which violates local, state or federal law. Termination is effective 14 days after deposit of notice as specified in this Agreement.
   2.02. **Services to be Performed.** Contractor shall determine the method, details and means of providing [insert text] services. More specifically, Contractor agrees to perform the specific services listed in Exhibit “A.”
   2.03. **City’s Duties.** City’s duties under this Agreement are to cooperate with Contractor in the performance of the contract and timely pay invoices.
   2.04. **Payment.** Payment terms under this Agreement are listed in Exhibit “B.”
   2.05. **Insurance.** Contractor shall provide insurance as listed in Exhibit “C.” [use 2016 insurance language]
   2.06. **Exhibits.** Exhibits “A,” “B,” and “C” are attached and incorporated.
3. **Contractor’s Obligations.**
   3.01. **Minimum Amount of Service.** Contractor shall devote sufficient time to perform services under this agreement efficiently and effectively. Contractor may represent, perform services for and be employed by additional individuals or entities, in Contractor’s sole discretion, as long as the performance of these extra-contractual services does not interfere with or present a conflict with City’s business.
   3.02. **Tools and Equipment.** Except as otherwise stated in this Agreement, Contractor will supply all tools and equipment necessary to perform this Agreement.
   3.03. **Status.** Contractor (including its employees) is an independent contractor. No employer/employee relationship exists between Contractor and the
City. Contractor's assigned personnel shall not be entitled to any benefits payable to employees of the City. The City is not required to make any deductions or withholdings from the compensation payable to Contractor under this agreement.

3.04. Indemnification. To the fullest extent permitted by law, the Consultant shall indemnify, defend (with independent counsel approved by the City) and hold harmless the City, and its directors, officers, and employees from and against all liabilities (including without limitation all claims, losses, damages, penalties, fines, and judgments, associated investigation and administrative expenses, and defense costs, including but not limited to reasonable attorneys’ fees, court costs and costs of alternative dispute resolution) regardless of nature or type that arise out of, pertain to, or relate to the negligence, reckless, or willful misconduct of the Consultant or the acts or omissions of an employee, agent or subcontractor of the Consultant. The provisions of this paragraph survive completion of the services or the termination of this contract. The provisions of this Section are not limited by the provisions of the Section relating to insurance.

4. Miscellaneous

4.01. Notices. All communication relating to the day-to-day activities of this Agreement shall be exchanged between a designated representative of the CITY and a representative of CONTRACTOR, listed below. All notices shall be addressed as follows unless a written change is filed with the City:

To City:

Attn.

110 East Cook Street
Santa Maria, CA  93454

To Contractor:

If the designated Representative or address of either party changes during the term of this agreement, a written notice shall be given to the other party prior to the effective date of change. Any written notices required under this agreement shall be effective five (5) days after deposit into United States mail, postage prepaid, addressed to the designated Representative, or upon confirmation of receipt of delivery if another notification process is used.

4.02. Compliance With Laws, etc. Contractor shall comply with all laws, including but not limited to the rules and policies of the City, in performing this agreement.

4.03. Integration. This agreement constitutes the entire agreement of the parties with respect to the subject matter. All modifications, amendments, or waivers of the terms of this agreement must be in writing and signed by the appropriate representatives of the parties.

4.04. Interpretation. This agreement shall be interpreted in accordance with the laws of the State of California.
4.05. Jurisdiction. Jurisdiction and venue of all disputes over the terms of this agreement shall be in the County of Northern Santa Barbara, State of California.

4.06. Warranty of authority. Each person signing this agreement on behalf of a party warrants that he or she has authority to do so.

4.07. No Waiver. Failure to enforce with respect to a default shall not be construed as a waiver.

4.08. Severability. The provisions of this agreement are severable. If any part of this agreement is held invalid by a court of competent jurisdiction, the remainder of the agreement shall remain in full force and effect unless amended or modified by mutual written consent of the parties.

4.09. Submittals. In addition to any other submittals required by this agreement, Contractor shall submit copies of its current business license and current certificate of workers compensation coverage to the City before beginning work on this project.

4.10 Prevailing Wage. Prevailing Wage. If applicable, Consultant and all subconsultants are required to pay the general prevailing wage rates of per diem wages and overtime and holiday wages determined by the Director of the Department of Industrial Relations under Section 1720 et seq. of the California Labor Code. The Director's determination is on file and open to inspection at www.dir.ca.gov and is referred to and made a part hereof; the wage rates therein ascertained, determined and specified are referred to and made a part hereof as though fully set forth herein.

IN WITNESS WHEREOF, this agreement is executed by the parties on the date first written above.

CONTRACTOR CITY OF SANTA MARIA

__________________________________  ________________________  
By: By:

APPROVED AS TO FORM:

City Attorney
EXHIBIT “A”
SCOPE OF WORK

Description
Upon the delivery of a signed copy of this agreement with this scope of work as Exhibit “A” attached, the contractor and staff shall proceed with the following scope.

Severability of Tasks
The City reserves the right of severability; any clause or task within these specifications may be deleted at the discretion of the Recreation and Parks Department. Adjustments to the contract costs will be made accordingly.
EXHIBIT “B”
PAYMENT

- Contractor shall provide final invoices within 30 days of work completed.
- City will process payments as submitted by the Contractor.
- City represented by the Director of Recreation and Parks or their appointee will administer the contract.
INSURANCE REQUIREMENTS

Contractor shall procure and maintain for the duration of the contract insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder by the Consultant, his/her agents, representatives, or employees. If the Consultant maintains broader coverage and/or higher limits than the minimums shown above, the City requires and shall be entitled to the broader coverage and/or higher limits maintained by the Contractor.

A. Minimum Scope of Insurance

Coverage shall be at least as broad as:

1. Insurance Services Office Commercial General Liability coverage (occurrence form CG 0001), including products and completed operations, property damage, bodily injury and personal & advertising injury.

2. Insurance Services Office Business Auto Coverage Form Number CA 00 01 covering any auto (Code 1), or if Consultant has no owned autos, covering hired (Code 8) and non-owned autos (Code 9).

3. Workers' Compensation insurance as required by the State of California and Employer's Liability Insurance.

4. Errors and Omissions liability insurance appropriate to the Consultant's profession. Architects' and engineers' coverage is to be endorsed to include contractual liability.

B. Minimum Limits of Insurance

Contractor shall maintain limits no less than:

1. General Liability - $2,000,000 per occurrence for bodily injury, personal injury and property damage. If Commercial General Liability Insurance or other form with a general aggregate limit is used, either the general aggregate limit shall apply separately to this project/location (ISO CG 25 03 or 25 04) or the general aggregate limit shall be twice the required occurrence limit.

2. Automobile Liability - $1,000,000 per accident for bodily injury and property damage.

4. Employer's Liability - $1,000,000 per accident for bodily injury or disease.

5. Errors and Omissions Liability - $1,000,000 per occurrence or claim, $2,000,000 aggregate.

C. Self-insured Retentions

Self-insured retentions must be declared to and approved by the City. The City may require the Consultant to purchase coverage with a lower retention or provide proof of ability to pay losses and related investigations, claim administration and defense expenses within the retention.

D. Other Insurance Provisions

The commercial general liability and automobile liability policies are to contain, or be endorsed to contain, the following provisions:

1. The City, its officers, officials, employees and volunteers are to be covered as additional insureds on the CGL policy with respect to liability arising out of work or operations performed by or on behalf of the Consultant including materials, parts or equipment furnished in connection with such work or operations. General liability coverage can be provided in the form or an endorsement to the Consultant's insurance (at least as broad as ISO Form CG 20 10 11 85 or both CG 20 10, CG 20 26, CG 20 33, or CG 20 38 and CG 20 37 forms if later revisions are used).

2. For any claims related to this project, the Consultant's insurance coverage shall be primary insurance coverage at least as broad as ISO CG 20 01 04 13 as respects the City, its officers, officials, employees and volunteers. Any insurance or self-insurance maintained by the City, its officers, officials, employees or volunteers shall be excess of the Consultant's insurance and shall not contribute with it.

3. Each insurance policy required by this clause shall be endorsed to state that coverage shall not be canceled or reduced, except with notice stating the title of this contract to the City. All notices provided pursuant to this Agreement shall be given to the City representative listed for notice in this agreement and shall specify the title of this Agreement. Notice may be given by overnight mail, facsimile with confirmation of receipt, or certified mail with return-receipt requested.
4. Consultant hereby grants to City a waiver of any right to subrogation which any insurer of said Consultant may acquire against the City by virtue of the payment of any loss under such insurance. Consultant agrees to obtain any endorsement that may be necessary to affect this waiver of subrogation, but this provision applies regardless of whether or not the City has received a waiver of subrogation endorsement from the insurer.

5. If any of the required policies provide claims-made coverage:
   a. The Retroactive Date must be shown, and must be before the date of the contract or the beginning of contract work.
   b. Insurance must be maintained and evidence of insurance must be provided for at least five (5) years after completion of the contract of work.
   c. If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a Retroactive Date prior to the contract effective date, the Consultant must purchase "extended reporting" coverage for a minimum of five (5) years after completion of work.

E. Acceptability of Insurers

Insurance is to be placed with insurers with a current A.M. Best's rating of no less than A[M], unless otherwise acceptable to the City.

F. Verification of Coverage

Consultant shall furnish the City with original certificates and amendatory endorsements of the applicable policy language effecting coverage required by this clause. All certificates and endorsements are to be received and approved by the City before work commences. However, failure to obtain the required documents prior to the work beginning shall not waive the Consultant's obligation to provide them. The City reserves the right to require complete, certified copies of all required insurance policies, including endorsements effecting the coverage required by these specifications at any time.

G. Special Risks or Circumstances

The City reserves the right to modify these requirements, including limits, based on the nature of the risk, prior experience, insurer, coverage, or other special circumstances.
SECTION 13 11 02

SWIMMING POOL CONCRETE

PART 1 GENERAL

1.01 WORK INCLUDED

A. Forming for cast-in-place concrete and shotcrete associated with swimming pools and pool decks.

B. Reinforcement for cast-in-place concrete and shotcrete associated with swimming pools and pool decks.

C. Cast-in-place concrete for swimming pool structures. Do not use waterproofing admixture of any kind.

D. Cast-in-place concrete for swimming pool decks with Xypex C-500 crystalline waterproofing admixture. Waterproofing admixture for swimming pool decks only.

E. Provide labor, materials and equipment as required to install sealant for all pool deck expansion joints, or any other caulking, as indicated on the aquatic Drawings and herein specified.

1.02 QUALITY ASSURANCE

A. Qualifications of Workers:

1. The entity performing the work of this Section shall have been successfully engaged in the respective trade for at least five (5) years immediately prior to commencement of the Work.

2. For actual construction operations, use only trained and experienced workers with a minimum of three (3) years experience with the materials and methods specified.

3. Provide at least one person who shall be present at all times during execution of the work of this Section, with a minimum of five (5) years experience with the type of materials being installed, the referenced standards, and who shall direct all Work performed under this Section.

B. Standards:

1. In addition to complying with the California Building Code (latest edition), comply with all pertinent recommendations contained in "Recommended Practice for Concrete Formwork," Publication ACI 347-78 of the American Concrete Institute.
2. In addition to complying with California Building Code (latest edition), comply with all pertinent recommendations contained in "Manual of Standard Practice for Detailing Reinforced Concrete Structures," Publication ACI 315-74 of the American Concrete Institute.

3. In addition to complying with all local codes and regulations, comply with all pertinent recommendations contained in American Society for Testing and materials (ASTM); ASTM C 920 “Standard Specification for Elastometric Joint Sealants.”

C. Tolerances: Construct all swimming pool concrete straight, true, plumb and square within a tolerance horizontally of one in 200 and vertically of one in 2000.

1.03 SUBMITTAL AND SUBSTITUTIONS

A. Provide submittals in conformance with the requirements of Section 01 33 00. Requests for substitution shall conform to requirements of Article 1.10.A of Section 13 11 00.

B. Samples and Certificates, Concrete Reinforcement:

1. Provide all data and access required for testing as described in Section 01 45 00 of the Specifications.
2. All material shall bear mill tags with heat number identification. Mill analysis and report shall be made available upon request.
3. Material not so labeled and identifiable may be required by the Owner to be tested by the testing laboratory selected by the Owner and at no additional cost to the Owner, in which case random samples will be taken for one series of tests from each 2-1/2 tons or fraction thereof of each size and kind of reinforcing steel.
4. Design mix from batch plant demonstrating previous use history and associated strengths at 28 days.
5. The Contractor shall submit a mix design stamped and signed by a licensed engineer for approval by the Owner’s Representative prior to any placement of concrete.
6. The Contractor shall submit a separate mix design stamped and signed by a licensed engineer for the swimming pool decks which contains the specified Xypex C-500 crystalline waterproofing admixture for approval by the Owner’s Representative prior to any placement of concrete.

C. Submit proof of qualifications as specified in Article 1.02.A of this Section.

D. Submit reinforcing shop drawings for pool walls, gutters, floors, dike walls and balance tank, etc. as shown on the construction drawing.

1.04 PRODUCT HANDLING
A. Delivery: Deliver materials to the Project Site in the manufacturer’s original unopened containers with all labels intact and legible.

B. Storage: Store materials under cover in a manner to prevent damage and contamination, and store only the specified materials at the Project Site.

C. Protection: Use all means necessary to protect the swimming pool concrete before, during, and after installation and to protect the installed Work specified in other Sections.

D. Replacements: In the event of damage, immediately make all repairs and replacements necessary to the approval of the Owner.

PART 2 PRODUCTS

2.01 CONCRETE FORMWORK

A. Form Materials:

1. Form Lumber: All form lumber in contact with exposed concrete shall be new except as allowed for reuse of forms in Part 3 of this Section, and all form lumber shall be one of the following, a combination thereof, or an equal approved in advance by the Owner’s Representative.

   a. "Plyform," Class I or II, bearing the label of the Douglas Fir Plywood Association; "Inner-Seal" Form as manufactured by Louisiana-Pacific, or approved equal.
   b. Douglas Fir-Larch, number two grade, seasoned, surfaced four sides.

2. Form Release Agent: Colorless, non-staining, free from oils; chemically reactive agent that shall not impair bonding of paint or other coatings intended for use.

B. Ties and Spreaders:

1. Type: All form ties shall be a type which do not leave an open hole through the concrete and which permits neat and solid patching at every hole.
2. Design: When forms are removed, all metal reinforcement shall be not less than two (2) inches from the finished concrete surface.
3. Wire Ties and Wood Spreaders: Do not use wire ties or wood spreaders.

C. Alternate Forming Systems: Alternate forming systems may be used subject to the advance approval of the Owner’s Representative.

2.02 CONCRETE REINFORCEMENT

A. Bars: Bars for reinforcement shall conform to “Specifications for Deformed Billet-Steel Bars for Concrete Reinforcement,” ASTM A-615, Grade 60.


C. Tie Wire: Tie wire for reinforcement shall conform to “Specifications for Cold-drawn Steel Wire for Concrete Reinforcement,” ASTM A-82 black annealed 16-gauge tie wire.

2.03 CAST-IN-PLACE CONCRETE

A. Concrete:

1. All concrete, unless otherwise specifically permitted by the Owner’s Representative, shall be transit-mixed in accordance with ASTM C94. Concrete for water retaining structures that do not receive a waterproofing finish such as ceramic tile or swimming pool plaster shall receive a topical waterproofing finish.

2. The control of concrete production shall be under the supervision of a recognized testing agency, selected by the Owner in accordance with Section 01 25 00 of the Specifications.

3. Quality: All concrete shall have the following minimum compressive strengths at twenty-eight (28) days and shall be proportioned within the following limits:

   a. 3,000 psi minimum compressive strength for cast-in-place concrete swimming pool structures.
   b. 4,000 psi minimum compressive strength for cast-in-place swimming pool decks with Xypex C-500 waterproofing admixture.
   c. 1” maximum size aggregate.
   d. 6.0 minimum sacks of cement per cubic yard.*
   e. Maximum water to cement ratio of 0.55.
   f. 4” maximum slump.
   g. Xypex Admix C-500 2% - 2.5% by weight of cement content. Contact Xypex Technical Services to confirm dosage. (To be used for swimming pool decks only.)
* For estimate only: to be determined by mix design.

4. Cement: All cement shall be Portland Cement conforming to ASTM C-150, Type II or V and shall be the product of one manufacturer.

5. Aggregates:
   b. Coarse Aggregate: Clean sound washed gravel or crushed rock. Crushing may constitute not more than 30% of the total coarse aggregate volume. Not more than 5% flat, thin, elongated or laminated material nor more than 1% deleterious material shall be present. 1” aggregate graded from 1/4” to 1”, fineness modulus 6.90 to 7.40. 1-1/2” graded from ½” to 1-1/2”, fineness modulus 7.80 to 8.20.
   c. Fine Aggregate: Washed natural sand of hard, strong particles and shall contain not more than 1% of deleterious material, fineness modulus 2.65 to 3.05.
   d. Aggregate must be certified, non-expansive from a “known” good source.

6. Water: Clean, fresh, free from acid, alkali, organic matter or other impurities liable to be detrimental to the concrete (potable).

7. Admixtures: Admixtures shall be used upon approval of the Owner’s Representative.
   c. Waterproofing admixture for swimming pool decks only: Xypex Admix C-500, No substitutions permitted. Conform to ASTM C494.

8. Xypex Admix C-500 Dosage: To be used for swimming pool decks only.
   a. General: Xypex Admix must be added to concrete mix at time of batching. It is important to obtain a homogeneous mixture of Xypex Admix with the concrete. Do not add dry Admix powder directly to wet mixed concrete as this could cause clumping and thorough dispersion may not occur.
   b. Dosage Rate: Under normal conditions, the crystalline waterproofing powder shall be added to the concrete mix at the following rates:
      1.) Xypex Admix C-500 2% – 2.5% by weight of cement content
   c. Weather Conditions: For mixing, transporting and placing concrete under conditions of high temperature or low temperature, follow concrete practices
such as those referred to in ACI 305R (Hot Weather Concreting) and ACI 306R (Cold Weather Concreting) or other applicable standards.

d. Concrete Batching & Mixing Procedures: Procedures for the addition of Xypex admixture will vary according to type of batch plant operation and equipment. Prior to the placement of any concrete, the concrete batch plant and the contractor shall be responsible to consult with the local Xypex representative concerning additional procedures for the addition, mixing and to confirm dosage.

Note: For enhanced chemical protection or for meeting specific project requirements or where the concrete mix design contains higher than 25% type F fly ash content or includes a portland cement/slag cement/type C fly ash blend, consult with manufacturer or its authorized representative to determine appropriate dosage rates.

B. Construction Joints: Use keyform for slab pour joints. Either preformed galvanized or PVC construction joint forms of a standard manufacturer may be used. Install per manufacturer's recommendations and tool edges of slabs.

C. Waterstops: PVC bulb-type for use between concrete pours / lifts, conforming with ASTM D 570, D 624, and D 638. Provide in configuration(s) as recommended by manufacturer for specific application. Greenstreak, W.R. Meadows, or approved equal.

D. Curing Materials:


2. Liquid Membrane (exposed slab): Clear methyl and butyl methacrylate non-staining, membrane forming, curing-sealing compound conforming to ASTM C309.

E. Cement Grout and Drypack:
1. **Cement Grout:** Mix 1 part by volume of Portland Cement, 1/2 part by volume of water and fine aggregate enough to make mixture flow under its' own weight.

2. **Drypack:** Mix 1 part by volume of Portland Cement, 1/2 part by volume of water and fine aggregate enough to make a stiff mix that will mold into a ball. Mix no more than can be used in 30 minutes.

### 2.04 JOINT SEALANT MATERIALS

A. **Caulking:** Multipart, non-sag gun grade polyurethane based sealant meeting the requirements of ASTM C920-02, Type S or M, Mamenco International, Pecora, Sika Corp., Sonneborn Building Products, Tremco or approved equal. Self leveling caulking materials are not allowed.

B. **Primer:** Non-staining type, recommended by sealant manufacturer to suit application.

C. **Joint Cleaner:** Non-corrosive and non-staining type, recommended by sealant manufacturer; compatible with joint forming materials.

D. **Sealant Backer Rod:** Provide compressible polyethylene or polyurethane backer rod as recommended by the sealant manufacturer.

E. **Bond Breaker Tape:** Provide polyethylene tape or other plastic tape as recommended by sealant manufacturer, to be applied to sealant-contact surfaces where bond to substrate or joint filler must be avoided for proper performance of sealant.

F. **Sand:** Cover the surface of the caulking with #30 silica sand.

### 2.05 OTHER MATERIALS

A. All other materials, not specifically described but required for proper completion of the work of this Section, shall be as selected by the Contractor subject to the advance review by the Owner’s Representative.

### PART 3 EXECUTION

#### 3.01 SURFACE CONDITIONS

A. **Inspection:**

1. Prior to all Work of this Section, carefully inspect the installed Work of other trades and verify that all such Work is complete to the point where this installation may properly commence.
2. Verify that all Work may be constructed in accordance with all applicable codes and regulations, the referenced standards, the original design, and in accordance with site specific Geotechnical Report.

B. Discrepancies:

1. In the event of discrepancy, immediately notify the Owner’s Representative.
2. Do not proceed with installation in areas of discrepancy until all such discrepancies have been fully resolved.
3. Failure to notify the Owner’s Representative and give written notice of discrepancies shall constitute acceptance by the Contractor of existing conditions as fit and proper to receive work.

3.02 CONCRETE FORMWORK

A. Construction of Forms:

1. General: Construct all required forms to be substantial, sufficiently tight to prevent leakage of concrete paste, and able to withstand excessive deflection when filled with wet concrete.

2. Layout:

   a. Form for all required cast-in-place concrete to the shapes, sizes, lines and dimensions indicated on the Drawings.
   b. Exercise particular care in the layout of forms to avoid necessity for cutting concrete after placement.
   c. Make proper provisions for all openings, offsets, recesses, anchorages, blocking and other features of the Work as shown or required.
   d. Perform all forming required for Work of other trades and do all cutting and repairing of forms required to permit such installation.
   e. Carefully examine the Drawings and Specifications and consult with other trades as required relative to providing for pipe and conduit penetrations, reglets, chases and other items in the forms.

3. Imbedded Items: Set all required steel frames, angles, bolts, inserts and other such items required to be anchored in the concrete prior to concrete being placed.

4. Bracings:

   a. Properly brace and tie the forms together so as to maintain position and shape and to ensure safety to workmen.
   b. Construct all bracing, supporting members and centering of ample size and strength to safely carry, without excessive deflection, all dead and live loads to which they may be subjected.
c. Properly space the forms apart and securely tie them together, using metal spreader ties that give positive tying and accurate spreading.

5. Wetting: Keep forms sufficiently wetted to prevent joints from opening up before concrete is placed.

B. Plywood Forms:

1. Design: Nail the plywood panels directly to studs and apply in a manner to minimize the number of joints.

2. Joints: Make all panel joints tight butt joints with all edges true and square.

C. Footing Forms:

1. Wood Forms: All footing forms shall be wood unless otherwise specifically approved by the Owner’s Representative, or as specified in paragraph 3.02(C)(2).

2. Earth Forms:
   a. Side walls for footings may be of earth provided the soil will stand without caving and the sides of the bank are made with a neat cut to the minimum dimensions indicated on the Drawings.
   b. For excavation and backfill of earth forms, conform with applicable provisions of Section 13 11 01.

D. Reuse of Forms:

1. Reuse of forms shall be subject to advance approval of the Owner’s Representative.

2. Except as specifically approved in advance by the Owner's Representative, reuse of forms shall in no way delay or change the schedule for placement of concrete from the schedule obtainable if all forms were new.

3. Except as specifically approved in advance by the Owner's Representative, reuse of forms shall in no way impart less structural stability to the forms nor less acceptable appearance to finished concrete.

E. Removal of Forms:

1. General:
2. Removal:

a. Use all means necessary to protect workers, passersby, the installed Work of other trades and the complete safety of the structure.
b. Cut nails and tie wires or form ties off flush, and leave all surfaces smooth and clean.
c. Remove metal spreader ties on exposed concrete by removing or snapping off inside the wall surface and pointing up and rubbing the resulting pockets to match the surrounding areas.
d. Flush all holes resulting from the use of spreader ties and sleeve nuts using water, and then solidly pack throughout the wall thickness with cement grout applied under pressure by means of a grouting gun; grout shall be one part Portland Cement to 2-1/2 parts sand; apply grout immediately after removing forms.

3.03 CONCRETE REINFORCEMENT

A. Bending:

1. General:

a. Fabricate all reinforcement in strict accordance with the Drawings.
b. Do not use bars with kinks or bends not shown on the Drawings.
c. Do not bend or straighten steel in a manner that will injure the material. (When opposite end is already encased in concrete.)

2. Design:

a. Bend all bars cold.
b. Make bends for stirrups and ties around a pin having a diameter of not less than two (2) times the minimum thickness of the bar.
c. Make bends for other bars, including hooks, around a pin having a diameter of not less than six (6) times the minimum thickness of the bar.

B. Placing:

1. General: Before the start of concrete placement, accurately place all concrete reinforcement, positively securing and supporting by concrete blocks, metal chairs or spacers, or by metal hangers.
2. Clearance:
   a. Preserve clear space between bars of not less than one and one-half (1-1/2) times the nominal diameter of the round bars.
   b. In no case let the clear space be less than one and one-half (1-1/2) inches nor less than one and one-third (1-1/3) times the maximum size of the aggregate.
   c. Provide the following minimum concrete covering of reinforcement:
      1) Concrete deposited against earth: three (3) inches minimum.
      2) Concrete below grade deposited against forms: two (2) inches minimum.
      3) Concrete elsewhere: As indicated on Drawings or otherwise approved by the Owner's Representative.

3. Splicing:
   a. Horizontal Bars:
      1) Place bars in horizontal members with minimum lap at splices sufficient to develop the strength of the bars.
      2) Bars may be wired together at laps except at points of support of the member, at which points preserve clear space described above.
      3) Whenever possible, stagger the splices of adjacent bars.
      4) Splice forty (40) bar diameters minimum.
      5) Provide non-contact lap slices for shotcrete.
   b. Wire Fabric: Make all splices in wire fabric at least one and one-half (1-1/2) meshes wide.
   c. Other Splices: Make only those other splices that are indicated on the Drawings or specifically approved by the Owner's Representative.

4. Dowels: Place all required steel dowels and securely anchor them into position before concrete is placed.

5. Obstructions: In the event conduits, piping, inserts, sleeves and other items interfere with placing reinforcement as indicated on the Drawings or otherwise required, immediately consult with the Owner's Representative and obtain approval of a new procedure prior to placing concrete.

C. Cleaning Reinforcement: Steel reinforcement, at the time concrete is placed around it, shall be free from rust scale, loose mill scale, oil, paint and all other coatings which will destroy or reduce the bond between steel and concrete. Bend down all tie wire away from the top of the pool deck. Maintain a 2" clear from top of concrete to the tie wire.
3.04 SHOTCRETE REINFORCEMENT

A. The maximum size of reinforcement shall be No. 5 bars unless it can be demonstrated by preconstruction tests that adequate encasement of larger bars can be achieved. When No. 5 or smaller bars are used, there shall be a minimum clearance between parallel reinforcement bars of 2-1/2 inches (64 mm). When bars larger than No. 5 are permitted, there shall be a minimum clearance between parallel bars equal to six diameters of the bars uses. When two curtains of steel are provided, the curtain nearest the nozzle shall have a minimum spacing equal to 12 bar diameters and the remaining curtain shall have a minimum spacing of six bar diameters.

B. Lap splices in reinforcing bars shall be by the non-contact lap splice method with at least 2 inches clearance between bars. The enforcement agency may permit the use of contact lap splices when necessary for the support of the reinforcing provided it can be demonstrated by means of preconstruction testing, that adequate encasement of the bars at the splice can be achieved, and provided that the splices are placed so that a line through the center of the two spliced bars is perpendicular to the surface of the shotcrete work.

3.05 CAST-IN-PLACE CONCRETE

A. Conveying and Placing Concrete:

1. Before placing concrete, mixing and conveying equipment shall be well cleaned, and the forms and space to be occupied by concrete shall be thoroughly cleaned and wetted. Ground water shall be removed until the completion of the work.

2. No concrete shall be placed in any unit of work until all formwork has been completely constructed, all reinforcement has been secured in place, all items to be built into concrete are in place, and form ties at construction joints tightened.

3. Concrete shall be conveyed from mixer to place of final deposit in such a way to prevent the separation or loss of ingredients. It shall be placed as nearly as practicable in its final position to avoid rehandling or flowing. Concrete shall not be dropped freely where reinforcing bars will cause segregation, nor shall it be dropped freely more than six (6) feet. Use tremies, spouts and dump boxes in deep sections. Vibrators are not acceptable for facilitating concrete transport.

4. Concrete shall be tamped and spaded to insure proper compaction into all parts of forms and around reinforcement. A mechanical vibrator shall be used to thoroughly compact the concrete. Vibration must be by direct action in the concrete and not against forms or reinforcement.

5. Mixing and transport time as indicated in ASTM C94 is required. If air temperatures are between 85° and 90° F the delivery time is to be reduced to 75 minutes. When air temperatures is in excess of 90° F the delivery time should be reduced to 60 minutes.

6. Truck mixes without batch certificates will be rejected.
B. Construction Joints / Expansion Joints: Construction joints and expansion joints shall be provided at locations and in the manner shown on the Drawings. With exception of existing concrete / new shotcrete joints, use PVC bulb-type waterstops appropriate for design condition between all concrete pours / lifts to avoid cold joints. Waterstops shall be placed in such a way to protect reinforcing steel from rust and oxidation. All expansion joints must be the full depth of the concrete section in which they are located.

C. Slab Finishes: Concrete slabs shall be compacted and screeded uniformly to grades shown. Push large aggregates below the surface with a screen tamper, screed and bull float. As soon as the surface becomes workable, it shall be wood floated, then finished as indicated on the Drawings to a uniform smooth, true surface in a neat and workmanlike manner. Carefully coordinate slab finish requirements with other trades (ceramic tile, pool plaster) to insure concrete finish is appropriate substrate for final finish material.

1. Contractor shall provide three mock-up deck samples, minimum 3’x 3’, with a wedge anchor installed in one sample. These (3) samples shall be constructed; one with a light broom finish, one (1) with a medium broom finish and one (1) with a heavy broom finish for determination and selection of an appropriate deck finish. Each sample shall be edged on all four sides to demonstrate a 3/4” radius edge. Anchor installation shall demonstrate acceptable interface between anchor and the top of deck. Deck samples shall remain on job site through final inspection for reference.

2. Pool Floor Slab: Heavy Wire Broom Finish.

D. Protection and Curing:

1. Concrete shall be protected from injurious action of the elements and defacement of any nature during construction.

2. All forms must be kept wet to prevent drying out of the concrete.

3. All concrete surfaces including footings must be kept wet for at least seven (7) days after concrete is placed.

4. Apply the appropriate curing materials, as specified in 2.03 of this Section, immediately after finishing slabs. Application shall be as specified by the manufacturer.

E. Form Removal:
1. Take care in removing forms so that surfaces are not marred or gouged and that corners are true, sharp and unbroken.
2. No steel spreaders, ties or other metal shall project from or be visible on any concrete surfaces.

F. Defective Work:

1. Should the strength of any concrete for any portion of the work indicated by tests of molded cylinders and core tests fall below minimum 28 days strength specified or indicated, concrete will be deemed defective work and shall be replaced.
2. Concrete work that is not formed as indicated, is not true to intended alignment, not plumb or level where so intended, not true to intended grades or elevations, not true to specified or selected finish, contains sawdust shavings, wood, or embedded debris, which exhibits cracks or contains fine or coarse sulfide particles, or expansive aggregates detrimental to performance or appearance of the concrete shall be deemed defective.
3. Promptly perform work required to replace and properly clean (by sandblasting if necessary) any defective concrete panels (control joint or expansion joint to control joint or expansion joint), at Contractor's expense, including all expense of additional inspection, tests, or supervision made necessary as a result of defective concrete.

3.06 EXPANSION JOINTS

A. Temperatures: Do not install sealants when air temperature is less than 40°F.

B. Tooling: Tool exposed joints to a slightly concave surface using slicking materials recommended by the manufacturer. The tooling procedure shall press sealant against the sides of the joint. No materials shall be left “feathered” out or smeared on the abutting materials. Completed joints shall have a uniform professional appearance.

C. Joint Construction: Sealant joint width, thickness and cross-sectional profile to be constructed in strict accordance with the sealant manufacturer’s recommendations.

D. Sand: At the appropriate time cover the sealant with sand to provide a sanded finish.

3.07 CLEAN-UP

A. Upon completion of the Work of this Section, immediately remove all swimming pool concrete materials, debris and rubbish occasioned by this Work to the approval of the Owner’s Representative.

END OF SECTION