NOTE TO CONSULTANTS: Edit with Track Changes turned on, any text in this section that appears in bold and italics then turn off the bold and italics for the final approved version. (Remove this Note).

PART 1 - GENERAL

1.01 GENERAL CONDITIONS:

A. As specified in Section 00 72 00

1.02 RELATED SECTIONS:

Section 03 21 13 - Shotcrete Concrete Reinforcement

1.03 SCOPE OF WORK:

A. This work includes the furnishing of all labor, materials, and equipment necessary for the proper and complete fabrication and installation for Shotcrete (hereafter called "Gunite") Concrete indicated or specified herein. The following areas of work are specified in this scope:

1. List

B. Gunite Quality Standard: Special attention to the Gunite rockwork quality. This project rockwork shall match in color, texture and contour, the adjacent work. Where rock work is below water level at display conditions, special attention to penetration and durability is required. The level of artistic detail (topology and seams, cracks and protrusions/depressions) may be less complex than that showing above water.

C. The Contractor shall provide a sketch of the Gunite reinforced concrete structural lattice work showing material and placement sufficient to prevent the temperature and shrinkage crack incidence as it relates to this exhibit and this ambient temperature regime within 5 days after award of bid. This sketch will be reviewed, approved and or amended to the satisfaction of the Engineer.

1.04 DEFINITION:

A. The Exhibit Gunite Contractor may only use application processes defined below.

1. Wet Mix Process shall consist of premixed fine aggregate, cement, and water pneumatically applied by suitable mechanism. Mix percentages shall be adjusted to reflect workability and provide for structural standards. See 1.07.

1.05 ENGINEER'S DIRECTION:

A. It is intended that the finished products of Work in this Section simulate natural formations and replicate the treatment of the adjacent exhibits in color, texture and formation. Reference the adjacent Gunite rock work, construction photos, the Engineer's directions and aesthetic intentions as specified herein.

B. To achieve these simulations the Gunite Contractor will coordinate and cooperate fully with the Engineer.

C. All Work in this Section will be performed under the direction of the Engineer.

D. The Engineer explicitly reserves the right to continuously monitor the work for aesthetic quality and to assume control of the work through direction of the Gunite Contractor's Job Superintendent until specified effects are achieved.

E. A MANDATORY pre-construction meeting will be scheduled to discuss the Engineer's intent for the rockwork appearance and finish and to outline the scope and schedule for this project.

1.06 PHOTOGRAPHS:

A. Color photographs displaying color, form and texture to be replicated will be provided to the Contractor by the Engineer. These Photographs shall form the basis for Gunite work. See attached.

B. Photo Examples of actual rockwork features provided by the Engineer illustrate the form and texturing of Gunite simulated basalt rock heavily encrusted with saltwater invertebrates included in the pool and habitat for this project. The Photographs are a part of the Exhibit Construction Documents. Shapes, forms, colors and textures shown in the Photographs take precedence over references made to these items in the Exhibit Construction Drawings and models.

1.07 STANDARDS:

A. Comply with the provisions of the following codes, specifications and standards. However, in case of conflict these Exhibit Specifications and Construction Drawings shall take precedence.

1. ASTM-618-73 - "Standard Specification for Fly Ash..."
2. ACI 318 - "Building Code Requirements for Reinforced Concrete"
3. ACI 347 - "Recommended Practice for Concrete Formwork"
4. ACI 506 - "Recommended Practice for Shotcreting"
5. ACI 614 - "Recommended Practice for Measuring, Mixing and Placing Concrete".

1.08 PROTECTION OF PROPERTY:

A. In addition to normal precautions for the protection of the public, workers and property, take special precautions to prevent contamination of soil with cement, paint, dye and other chemical materials.

B. Limit the area for working and storing chemical materials to areas within ten (10) horizontal feet of Gunite structures and other areas specifically approved by the Engineer.

C. Control runoff from mixing and placing operations. Channel runoff directly to an approved drainage system, or pond in an on-site location approved by the Engineer.

D. Dispose of waste material, rebound and cement and chemical containers off-site except as specifically allowed by these Specifications.

E. Cleanup is required, with tracking, splatter, and overspray and debris accumulation unacceptable. The Contractor must clean up ”as you go”, with at minimum a twice daily effort to render the work and staging space, the path between them and all equipment and materials stored neatly and all surfaces spotless. If additional staff act as laborers cleaning constantly to meet these very high standards are required, it is the Contractor’s responsibility to provide them and include that cost as well as all additional cost for equipment and disposal in the bid.

1.09 SUBMITTALS:

A. General: Two (2) working days prior to beginning work, submit description of planning, equipment and methods for Engineer’s approval, including the following:

1. Source for materials.
2. Proposed mix proportions.
3. Furnish representative samples of materials for materials testing, mix proportion testing, and preparation of pre-construction sample and test panels.

B. Samples:

1. The Gunite Contractor shall submit two (2) working days prior to beginning work 4' x 4' sample panels of the different textural treatments as listed below to the Engineer for approval.
   a. No Gunite shaping or texturing shall begin prior to Engineer’s approval of sample panels.
2. Sample panels shall represent the finished surfaces, texturing, coloring, etching, etc.
3. Panel shall not be removed until the completion of work.
4. Rejected sample panels shall be re-submitted for approval at no additional cost to the Owner.

1.10 QUALITY ASSURANCE:

A. General: To be awarded this project, the Bidder shall satisfy the following qualification requirements and submit documentation indicating compliance with the requirements within three days of the Engineer' request:

1. The Bidder shall have been in business for a minimum of five (5) years constructing projects which include Gunite rockwork. In addition, the Bidder shall have a minimum of five (5) years of experience in managing, administering, scheduling, and coordinating projects of a scale and complexity similar to this Project, OR;
2. The Job Superintendent who will be assigned to this Project shall have a minimum of five (5) years of experience performing and/or supervising Gunite rockwork projects. In addition, the Job Superintendent shall have a minimum of five (5) years of experience in managing, administering, scheduling, and coordinating projects of a scale and complexity similar to this project.

B. Information shall be submitted to satisfy the requirements of paragraph 1 and 2 above shall include:

Bidder Information:
A list of projects performed by the Bidder demonstrating that the Bidder meets the five (5) years of experience requirement for both the Gunite rock work and managing, administering, scheduling, and coordinating such projects of a scale and complexity similar to this Project. For each project listed, include the name of the owner, the telephone number and name of the Engineer who can verify the work performed by the Bidder, and a brief technical summary of the work including any pertinent details which are similar to this project, OR;

Superintendent Information:
A copy of the resume of the job superintendent who will be assigned to this Project, demonstrating that the superintendent has the required five (5) years of experience performing and/or supervising Gunite rock work and five (5) years of experience in managing, administering, scheduling, and coordinating projects of a scale and complexity similar to this Project, and a list of projects that the job superintendent performed and/or supervised. For each project listed, include the telephone number and name of the owner, the name of the owner's representative who can verify the work performed by the job superintendent, and a brief technical summary of the work including any pertinent details which are similar to this Project.

C. The information described above shall be delivered and or sent to the following person:

Seattle Parks & Recreation
Park Engineer – Engineering & Design Services
800 Maynard Avenue South – 3rd Floor
Seattle, WA 98134

Ph. (206) 233-7920; Fax #: (206) 233-3949

D. Responsibility for Testing: Routing testing services will be performed by a testing agency designated by the Engineer. These testing services will be performed at the expense of the Engineer.

E. The designated testing agency will:

1. Test the proposed materials, for compliance with Specifications.
2. Review and check proposed mix proportions.
3. Test pre-construction test specimens.
4. Secure production samples of materials at plants or stockpiles during construction and test for compliance with Specifications.
5. Test strength of the Gunite as work progresses.

F. Construction Testing: The designated testing agency will test the strength of the Gunite by one or more of the methods given in Paragraphs 1 and 2.

1. Cut cores from the structure and test in accordance with ASTM C42. A set of three cores shall be taken not less than once each shift or less than once for each 50 cu. yd. of Gunite placed through the nozzle. Cores shall be soaked in water for a minimum of 40 hrs. before testing.
2. Make one test panel with minimum dimensions of 18 x 18 x 3 in., gunned in the same position as the work represented, for every 50 cu. yd. of Gunite placed, but at least one panel per shift. Panels shall be gunned during the course of the work by the Contractor's regular nozzle man. Field cure panels in the same manner as the work, except that the test specimens shall be soaked in water for a minimum of 40 hours prior to testing. The designated testing agency will cut three 3-in. diameter cores or 3-in. cubes from each panel for testing.
3. When the length of a core is less than twice the diameter, apply the correction factors given in ASTM C42 to obtain the compressive strength of individual cores. The average compressive strength of three cores taken from the structure or test panel, representing a shift or 50 cu. yd. of Gunite, must equal or exceed 0.85 x specified strength with no individual core less than 0.75 x specified strength. The average of three cubes taken from a panel representing a shift or 50 cu. yd. of Gunite must equal or exceed specified strength with no individual cube less than 0.88 x specified strength.
4. Final acceptance of the Gunite will be based on results obtained from cores or sawed cubes. Use of data obtained from impact hammers, ultrasonic equipment, or other nondestructive testing devices will not be permitted for final acceptance of the Gunite. However, these data may be useful for determining uniformity of the Gunite.

1.11 WARRANTY:

A. Warranty work listed in this Section for a period of one (1) year from the date of Physical Completion.

B. Provide two (2) copies of the written Statement of Warranty, satisfactory to the Engineer prior to Physical Completion.

1.12 RODUCT DELIVERY AND STORAGE:

A. Take special care to avoid contamination of soils with spilled or discarded cement materials or other chemicals.

B. Properly deliver and handle materials to prevent contamination, segregation, or damage to materials.

C. Store cement in weather-tight enclosures to protect against dampness and contamination.

D. Prevent segregation and contamination of aggregates by proper arrangement and use of stockpiles.

E. Store admixtures properly to prevent contamination, evaporation, freezing, or other damage.

PART 2 - PRODUCTS

2.01 MATERIALS, GENERALS:

A. Asbestos Prohibition: No asbestos containing materials or equipment shall be used under this section. The Gunite Contractor shall insure that all materials and equipment incorporated in the project are asbestos-free.

2.02 EINFORCING MATERIALS:

A. Plastic Reinforcing Mesh: Expanded, polypropylene, plastic, bi-oriented netting, 3/4" x 1" mesh size, Tenax Cintoflex "M", as manufactured by Tenax Corp., Ph. (301) 725-5910, or approved equal.

B. Backer Mesh (for regulating Gunite thickness): Polypropylene, medium warp, medium fill, plain weave, "Leno" mesh as supplied by Great Western Bag Company, Phone (800) 331-2445), or approved equal.

C. Supporters for Reinforcement: Provide supports for reinforcement including bolsters, chairs, spacers and other devices for spacing supporting, and fastening reinforcing bars. All supporters located under water within the tanks shall be fabricated from fiberglass reinforced plastics, no metallic or steel supporters are

allowed within the tank. All supporters located within the Gunite rockwork one foot above the high water level may be metallic, but must be epoxy coated.

2.03 ONCRETE MATERIALS:

A. Portland Cement: ASTM C 150, Type II. Use only one brand of cement throughout the project.

2.04 AGGREGATES:

A. General:

1. Use normal weight aggregates conforming to ASTM C33 and as herein specified.
2. Aggregates shall be manufactured from natural rock or stone, washed gravel, either natural or crushed, clean, and free of deleterious substances and materials.

B. Structural Substrate: Mineral aggregate conforming to the following:

Sieve Size	Percent passing
3/4 in.	100
1/2 in.	80-95
3/8 in.	70-90
No. 4	50-70
No. 8	35-55
No. 16	20-40
No. 30	10-30
No. 50	5-17
No. 100	2-10

C. Texture Coat: Mineral aggregate conforming to the following:

Sieve Size	Percent passing
3/4 in	100
1/2 in.	100
3/8 in.	100
No. 4	95-100
No. 8	80-100
No. 16	50-85
No. 30	25-60
No. 50	10-30
No. 100	2-10

2.05 WATER:

A. Use fresh, clean, and potable mixing water free from oil, acid, organic matter or other deleterious substances.

2.06 ADMIXTURES:

A. Use accepted admixtures meeting the requirements listed below. Dissolve soluble admixtures in water before introduction into the overall mixture, except as otherwise accepted. Agitate liquid admixtures which settle.

B. Air-entraining admixtures conforming to ASTM C 260.

C. Calcium chloride conforming to ASTM D 98, in pre-dissolved flake or pellet form. Use only upon written authorization of the Engineer.

D. Fly ash and pozzolanic material conforming to ASTM C 618.

E. Color Additives: Pure Mineral Oxides, Frank B. Davis Company, Williams Co., L.M. Scofield., or approved equal.

2.07 MOISTURE RETAINING COVER:

A. Burlap: Cloth made from jute and weighing approximately 9 oz. per sq. yd. Used for moist curing and conforming to AASHTO M 182.

B. Membrane Forming Curing Compound: ASTM C 309

2.08 PROPORTIONING CONCRETE:

A. Submit for acceptance proportioning and test data from prior experience if available. If data from prior experience are not available or accepted, make and have tested specimens from three or more different mix proportions in accordance with 1.11 Quality Assurance. Submit recommended mix proportions and test results for acceptance.

B. Gunite shall have a compressive strength at twenty eight (28) days of fc' = 4000 psi. Proportions shall be selected on the basis of compressive strength tests of specimens continuously moist cured until testing at twenty eight (28) days. These specimens shall be cut from the Gunite test panels not earlier than 5 days after Gunite application. For mix acceptance purposes, average core strengths shall be at least equal to fc' for cores with L/D of 2.0. For cores with L/D between 1.0 and 2.0, use the correction factors given in ASTM C 42. For cube specimens, average strength shall be at least equal to fc'/0.85.

2.09 PVC POLYVINYL CHLORINE PROTECTION SHEET

A. Extruded PVC sheet, dark grey color with 1.3 FT-lbs./in. impact strength, 113 R Rockwell hardness and 1.45 g/cm3 density for protecting acrylic tank surfaces from Gunite rockwork and backforming (thickness 1/16” or thicker).

PART 3 - EXECUTION

3.01 GENERAL:

A. Gunite shall be placed in two separate applications.

1. Structural Substrate: The first application shall be a structural substrate, capable of maintaining the intended shape and supporting live and dead loads as specified or required by codes.

2. Texture coat: The second application shall produce the intended color and texture, and shall be placed only after bonding agent has been applied. Surface conditions must comply with specification requirements, where applicable.

3.02 PREPARATION OF SURFACES FOR STRUCTURAL SUBSTRATE:

A. Concrete Masonry Units: Concrete Masonry Units (CMU) for structural substrate shall be laid-up and trimmed to line and grade before placing Gunite. Dampen surfaces to receive Gunite. All CMU shall be solidly grouted.

3.03 FORMING GUNITE STRUCTURES:

A. General Backforming: No extra will be paid for Gunite backforming which is required because of misunderstandings of existing understructure that is integrated into the building structure. The Contractor is responsible for familiarizing himself/herself with the existing habitats and the integral structure furnished for Gunite backforming by pre-bid field visits and reviewing the Exhibit Construction Documents. Backforming cost shall be included in the Contract Price.

3.04 PROVISIONS FOR OTHER TRADES:

A. General:

1. Provide openings in Gunite formwork to accommodate work of other trades. Determine size and location of openings, vents, weep-holes, recesses, and chases from trades providing such items.
2. All non-sleeved piping shall be set by the appropriate contractor.
3. Sleeves shall be provided by the appropriate contractor and installed by the Contractor.
4. Accurately place and securely support items built into forms.

3.05 STEEL REINFORCEMENT:

A. Alternate Reinforcing Sizing: All Gunite structural steel reinforcement is shown on the Construction Drawings and supplemented in these Specifications. The Gunite

Sub-Contractor may, at his/her option, develop alternate reinforcement sizing and placement to facilitate his/her work provided;

1. Obtain written approval of the Engineer.
2. All structural calculations for alternate reinforcement are fully and clearly documented by a registered Structural Engineer, licensed in Washington.
3. Obtain required permits and approvals for such alternate sizing and placement, in a timely manner, without delaying the progress of the work, and at no additional expense to the Engineer.

B. General:

1. Clean reinforcement of all loose rust, mill scale, earth, ice, and other materials, which reduce or destroy bond with concrete.
2. Accurately position, support and secure reinforcement against displacement by construction or concrete placement operations. Locate and support reinforcing by metal chairs, runners, bolsters, spacers and hangers, as required.
3. Notify the Engineer upon completion of reinforcing and prior to placing Gunite.

C. Minimum Standards: The following minimum steel placement standards are supplemental to steel reinforcement schedules and notes on the Drawings.

1. Place # 3 bar as a key rod at intersections of plane surfaces.
2. Tack wire bars where they contact or cross each other. The bars must form a very rigid framework which workers can climb on in fastening other materials to the reinforcing.
3. Lap bars thirty (30) diameters at splices. However, a lap of four (4) inches will be allowed if one continuous fillet weld of three (3) inches in length is used to join bars at the splice.
4. Place and bend bars around circle and curves, openings, corners and angles to conform to the model. Bends are to be permanently shaped, not sprung into place. Follow the outline of the rock formations to eliminate excess non-reinforced Gunite outcroppings.
5. The tie bars and tie anchors which are exposed to air and which DO NOT come in contact with any backfill material shall be given a protective covering of asphalt coating or Rustoleum, or approved equal.
6. Tie bars and tie anchors which come in contact with backfill material shall be encased with a coating of Gunite. Steel shall be covered by a minimum of 1” of Gunite.
7. Use additional #3 bars diagonally across corners of openings and wherever Gunite formations act as beams. Place additional #3 bars at points of maximum stress, i.e. one in top and one in bottom extending 12” into supports.
8. Place mesh on steel reinforcing on side opposite the backup material and wire securely to the reinforcing bars at not less than twenty (20) inch intervals in

both directions. Overlap the mesh a minimum two (2) inches at adjacent ends.

9. Reinforcing bars placed over backer mesh shall be supported by slab bar bolsters, high chairs, etc. Spacing shall be No. 3 at 10" O.C.. Place pieces of truss loop below bar supports.
10. Place welded wire reinforcing mesh uniformly 1-1/2 to 2" from the bottom of Gunite slabs.

3.06 BATCHING AND MIXING CONCRETE:

A. Mixing Proportions: Control by weight batching, or by volume batching meeting the requirements of ASTM C 685.

B. Batching and Mixing Equipment: Use batching and mixing equipment capable of proportioning and mixing ingredients (except water in the case of dry-mix equipment) at a rate that will provide adequate production and with an accuracy that will insure uniformity of batches. Weighing equipment shall be capable of batching with the accuracy specified in ASTM C94. Volumetric equipment shall be capable of batching with the accuracy specified in ASTM C685.

C. Ready Mixed Concrete: Ready-mixed concrete shall comply with ASTM C94, except that it may be delivered to the Gunite equipment in the dry state if that equipment is capable of adding the water and mixing it satisfactorily with the dry ingredients, or with ASTM C 685, in which case the ingredients are delivered dry and proportioned and mixed at the site.

3.07 PLACING GUNITE:

A. General: Place Gunite using suitable delivery equipment and procedures that will result in Gunite in place meeting the requirements of this Specification.

B. Placement techniques:

1. Control thickness, method of support, air pressure, and/or water content of Gunite to preclude sagging or sloughing off. Discontinue Guniting or provide suitable means to screen the nozzle stream if wind or air currents cause separation of the nozzle stream during placement.
2. Dampen absorptive substrate surfaces prior to placement of Gunite to facilitate bond and to reduce the possibility of shrinkage cracking developing from premature loss of the mixing water.
3. Broom or scarify the surface of freshly placed Gunite to which, after hardening, additional layers of Gunite are to be bonded. Dampen surface just prior to application of succeeding layers.
4. First, fill with sound material corners and any area where rebound cannot escape or be blown free. Complete the corners between the web and the flanges of structural steel before application to the flat areas.

5. Provide a supply of clean, dry air adequate for maintaining sufficient nozzle velocity for all parts of the work and, if required, for simultaneous operation of a suitable blow pipe for clearing away rebound.

C. Placement around reinforcement:

1. Hold the nozzle at such distance and angle to place material behind reinforcement before any material is allowed to accumulate on its face. In the dry-mix process additional waste may be added to the mix when encasing reinforcement to facilitate a smooth flow of material behind the bars.
2. Do not place Gunite through more than one layer of reinforcing steel rods or mesh in one application unless demonstrated by preconstruction tests that steel is properly encased. Test to ascertain if any voids or sand pockets have developed around or behind reinforcement by probing with an awl or other pointed tool; by removal of randomly selected bars; or by coring or other suitable means.

D. Cover of Reinforcement:

1. Place Gunite to provide the following minimum cover over reinforcement:
   a. For Gunite used as linings or coatings: 1-1/2 in. for fine aggregate Gunite and 3 in. for coarse aggregate Gunite.
2. Minus tolerance on cover shall be 3/4 in., except that it shall not be greater than one-third of the specified cover.

E. Line and Thickness Control: Use adequate ground wires or other accepted means to establish the thickness, surface planes, and finish lines of the Gunite. Maintain specified tolerances by keeping ground wires secure and taut.

F. Placement Precautions:

1. Do not place Gunite if drying or stiffening of the mix takes place at any time prior to delivery to the nozzle. Do not use rebound or previously expended material in the Gunite mix.
2. Remove overspray or rebound prior to final set and before placement of Gunite material on such adjacent surfaces.
3. Rebound may be reused if it conforms to requirements for aggregate, but not in excess of 25% of the total aggregate in any batch.

3.08 REPAIR OF SURFACE DEFECTS:

A. Remove and replace Gunite which lacks uniformity, exhibits segregation, honeycombing, or lamination, or which contains any dry patches, slugs, voids, or sand pockets. Remove and replace damaged in-place Gunite.

B. Repair defective areas in accordance with procedure specified in 3.02 and 3.03.

C. Repair core holes in accordance with Chapter 9 of ACI 301. Do not fill core holes with Shotcrete.

D. Replace any Gunite which subsides after placement.

3.09 JOINTS:

A. Construction Joints:

1. Taper construction joints to a shallow edge form, about 1 in. thick, except where the joint will be subjected to compressive stress. In this case, use non-tapered joints and take special care to avoid or remove trapped rebound at the joint.
2. The entire joint shall be thoroughly cleaned and wetted prior to the application of additional Gunite.
3. Submit Shop Drawings of all construction joints located in each habitat for the Engineer's approval.
4. Make joints perpendicular to the main reinforcement. Continue reinforcement across joints.

B. Control Joints: Install control joints in accordance with the Shop Drawings. Do not extend reinforcement or other embedded metal items, which are bonded to the Gunite, continuously through control joints.

C. Aesthetic Joint Placement: Position construction and control joints to conform to the locations of natural occurring cracks and joints in the simulated rock and earth forms as shown in Drawings and Photographs.

3.10 FINISHES:

A. Structural Layer:

1. Provide natural gun finish on structural layers except those designated to receive cementitious waterproofing. Provide broom finish on areas to be waterproofed.
2. Do not scrape or cut to remove high spots until the Gunite has become stiff enough to withstand pull of the cutting device.

B. Texture Coat:

1. The Contractor will provide approved artisan(s) to perform texturing, shaping and coloring of the texture coat (Section 1.10, A., Quality Assurance, Referring to Qualification of Contractor, this Section).
2. The Texture Artists will be approved by the Engineer prior to beginning any work.

3. Finished product of the Texture coat shall simulate natural formations of basalt rock and mud banks as described in the Construction Drawings and Photographs.
4. Extend texture coat minimum 12 inches below finish grades.

C. Coloring:

1. Surface Applied Color:
   a. Color of rock shall match the color (in general and in detail) of natural materials displayed in the photographic samples.
   b. Color texture coat with integral color agents and by painting after final texturing. Staining and etching may be used in specific circumstances approved by the Engineer. Color shall be approved by the Engineer without exception otherwise.
   c. Paint shall be flat finish.
   d. Color mixes and application processes shall be approved by the Engineer prior to beginning of work.
   e. Samples: Submittals of rockwork panels will allow review of color.
   f. The Contractor shall be responsible for the blending of the coloration of the rockery with all adjacent surfaces, as directed by the Engineer.

3.11 CURING AND PROTECTION:

A. Initial Curing: Immediately after finishing, keep Gunite continuously moist for at least 24 hours. Use one of the following materials or methods.

1. Ponding or continuous sprinkling.
2. Absorptive mat or burlap fabric, sand, or other covering kept continuously wet.
3. Continuous seam (not exceed 150 F) or vapor mist bath
4. Curing compounds and application. Comply with ASTM C 309. On natural gun or flash finishes, use twice the normal application rate recommended by the manufacturer, or 100 sq. ft. per gal., whichever is less.
5. Do not use curing compounds on texture coat, structural layer which is to receive texture coat, or any surface against which additional Gunite or other cementitious finishing materials are to be bonded.
6. Employ positive measures, such as sandblasting, to remove over-sprayed curing compounds completely prior to the application of such additional materials.

B. Final Curing: Provide additional curing immediately following the initial curing and before the Gunite has dried. Continue the method used in initial curing retaining coverings as accepted.

END OF SECTION