

**TOWN OF GLASTONBURY
INVITATION TO BID**

| <u>BID #</u> | <u>ITEM</u> | <u>DATE & TIME REQUIRED</u> |
|--------------|--|---------------------------------|
| GL-2016-14 | Glastonbury High School Pool Upgrades | December 15, 2015 @ 11:00 a.m. |

The Town of Glastonbury is currently seeking bids for Glastonbury High School Pool Upgrades.

Bid Forms may be downloaded from the Town's website at www.glastonbury-ct.gov or the State of Connecticut Department of Administrative Services website at www.das.state.ct.us at no cost. Forms are also available at the Office of the Purchasing Agent, Town Hall, 2155 Main Street, Glastonbury, Connecticut 06033, (second level) (interested bidders are asked to call 30 minutes prior to pick up).

Prevailing Wages: The contractor must comply with Section 31-53 of the Connecticut General Statutes as amended, including annual adjustments in prevailing wages.

An optional pre-bid meeting will be held at the project site on December 1, 2015 at 2:30 p.m. located at 330 Hubbard Street, Glastonbury, CT 06033 in the Community Use Office.

Bid Security shall be issued payable to the "Town of Glastonbury" in the form of a certified check or Bid Bond in an amount not less than 10% of the total amount of the base bid. The Bid Bond must be issued by a surety company licensed in the State of Connecticut. Cashier's checks will not be accepted.

The Town reserves the right to waive informalities or reject any part of, or the entire bid, when said action is deemed to be in the best interests of the Town. All Sealed Bids must be submitted to the Office of the Purchasing Agent no later than the time and date indicated. All bids will be publicly opened and read.

The Town of Glastonbury is an Affirmative Action/Equal Opportunity Employer. Minority/Women/Disadvantaged Business Enterprises are encouraged to bid.

Mary F. Visone
Purchasing Agent

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**Glastonbury High School Pool Upgrades
Information to Bidders**

Bid #GL-2016-14

1. Sealed bids (**one original and one copy**) on the attached Bid Forms will be received at the Office of the Purchasing Agent, Town Hall, 2155 Main Street, Glastonbury, Connecticut 06033 (second level). At the designated time of opening, they will be publicly opened, read, recorded and placed on file.
2. Whenever it is deemed to be in the best interest of the Town, the Town Manager, Purchasing Agent or designated representative shall waive informalities in any and all bids. The right is reserved to reject any bid, or any part of any bid, when such action is deemed to be in the best interest of the Town of Glastonbury.
3. The basis of award will be based on the lump sum bid of the lowest qualified and responsible bidder.
4. Bids will be carefully evaluated as to conformance with stated specifications.
5. **The envelope enclosing your bid should be clearly marked by bid number, time of bid opening and date.**
6. Specifications must be submitted complete in every detail, and when requested, samples shall be provided. If a bid involves any exception from stated specifications, they must be clearly noted as exceptions, underlined, and attached to the bid.
7. The Bid Documents contain the provisions required for the requested item. Information obtained from an officer, agent, or employee of the Town or any other person shall not affect the risks or obligations assumed by the Bidder or relieve him/her from fulfilling any of the conditions of the Bid.
8. Each bidder is held responsible for the examination and/or to have acquainted themselves with any conditions at the job site which would affect their work before submitting a bid. Failure to meet this criteria shall not relieve the Bidder of the responsibility of completing the Bid without extra cost to the Town of Glastonbury.
9. Any bid may be withdrawn prior to the above scheduled time for the opening of bids or authorized postponement thereof. Any bid received after the time and date specified shall not be considered. No bidder may withdraw a bid within sixty (60) days after the actual date of the opening thereof. Should there be reasons why a Bid cannot be awarded within the specified period, the time may be extended by mutual agreement between the Town and the bidder.
10. Each bid must be accompanied by a bid bond payable to the Town for ten percent (10%) of the total amount of the bid. The bid bond of the successful bidder will be retained until the payment bond and performance bond have been executed and approved, after which it will be returned. A certified check may be used in lieu of a bid bond. The Town of Glastonbury will not be liable for the accrual of any interest on any certified check submitted. Cashier's checks will not be accepted.
11. A 100% Performance and Payment bonds are required of the successful bidder. This bond shall cover all aspects of the specification and shall be delivered to the Purchasing Agent prior to the issuance of a purchase order. The Performance and Payment Bonds will be returned upon the delivery and acceptance of the bid items.

12. The bidder agrees and warrants that in the submission of this sealed bid, they will not discriminate or permit discrimination against any person or group of persons on the grounds of race, color, religion, national origin, sex, or physical disability including, but not limited to blindness, unless it is shown by such bidder that such disability prevents performance of that which must be done to successfully fulfill the terms of this sealed bid or in any manner which is prohibited by the laws of the United States or the State of Connecticut: and further agrees to provide the Human Relations Commission with such information requested by the Commission concerning the employment practices and procedures of the bidder. An Affirmative Action Statement will be required by the successful bidder.
13. Bidder agrees to comply with all of the latest Federal and State Safety Standards and Regulations and certifies that all work required in this bid will conform to and comply with said standards and regulations. Bidder further agrees to indemnify and hold harmless the Town for all damages assessed against the Town as a result of Bidder's failure to comply with said standards and/or regulations.
14. All correspondence regarding any purchase made by the Town of Glastonbury shall reference the Town's purchase order number. Each shipping container shall clearly indicate both Town purchase order number and item number.
15. Bidder is required to review the Town of Glastonbury Code of Ethics adopted July 8th, 2003 and effective August 1, 2003 and revised October 29, 2013 and effective November 28, 2013. Bidder shall acknowledge that they have reviewed the document in the area provided on the bid / proposal response page (BP). The selected Bidder will also be required to complete and sign an Acknowledgement Form prior to award. The Code of Ethics and the Consultant Acknowledgement Form can be accessed at the Town of Glastonbury website at www.glastonbury-ct.gov. Upon entering the website click on **Bids & Proposals Icon**, which will bring you to the links for the Code of Ethics and the Consultant Acknowledgement Form. If the Bidder does not have access to the internet a copy of these documents can be obtained through the Purchasing Department at the address listed within this bid / proposal.
17. **Non Resident Contractors (IF APPLICABLE):**
Upon award the Town is required to report names of nonresident (out of state) Contractors to the State of Connecticut, Department of Revenue Services (DRS) to ensure that Employment Taxes and other applicable taxes are being paid by Contractors. **A single surety bond for 5% of the entire contract price is required to be filed with DRS by any unverified nonresident prime or general contractor (if awarded) where the contract price for the project is \$250,000 or more.** The contractor will be required to promptly furnish to the Town a copy of the **Form AU-968 - Certificate of Compliance** issued by the State of Connecticut, DRS. See State of Connecticut **Notice SN 2012 (2)**.

18. Bidder shall include on a sheet(s) attached to its proposal a complete disclosure of all past and pending mediation, arbitration and litigation cases that the bidder or its principals (regardless of their place of employment) have been involved in for the most recent five years. Please include a statement of the issues in dispute and their resolution. Acceptability of Bidder based upon this disclosure shall lie solely with the Town.
19. Bidder or its principals, regardless of their place of employment, shall not have been convicted of, nor entered any plea of guilty, or nolo contendere, or otherwise have been found civilly liable or criminally responsible for any criminal offense or civil action. Bidder shall not be in violation of any State or local ethics standards or other offenses arising out of the submission of bids or proposals, or performance of work on public works projects or contracts.
20. For technical questions regarding this Bid, please contact David Sacchitella, Building Superintendent, at (860) 652-7706, email dave.sacchitella@glastonbury-ct.gov. For administrative questions regarding this Bid, please contact Mary F. Visone, Purchasing Agent at (860) 652-7588, email purchasing@glastonbury-ct.gov. The request must be received at least three (3) business days prior to the advertised response deadline. All questions, answers, and/or addenda, as applicable, will be posted on the Town's website at www.glastonbury-ct.gov (Upon entering the website click on Bids & Proposals Icon; click the Bid Title to view all bid details and document links). It is the respondent's responsibility to check the website for addenda prior to submission of any proposal.
21. An optional pre-bid site inspection will be held on **December 1, 2015 at 2:30 p.m.** Interested bidders are encouraged to attend. The pre-bid conference will begin at 2:30 p.m. located at 330 Hubbard Street, Glastonbury, CT 06033 in the Community Use Office.
22. **Prevailing Wage Rates:** Respondents shall comply with State Statutes concerning Employment and Labor Practices, if applicable, and Section 31-53 of the Connecticut General Statutes, as amended (Prevailing Wages). Wage Rate Determination for this project from the State of Connecticut is included in the Bid Documents. Certified payrolls for site labor shall be submitted weekly to the Town's Representative or his designee on the correct State of Connecticut form. The Town reserves the right to, without prior notice, audit payroll checks given to workers on site in order to ascertain that wages and fringe benefits are being paid as required by the State of Connecticut. Please make special note of the State requirement to adjust wage and fringe benefit rates on each July 1st following the original published rates.

NOTE that respondent is to include in its proposal all costs required by such annual increases in the PREVAILING RATES. NO escalation clauses are to be included in the respondent's proposal and NO escalation clauses will be in the Contract Agreement. Respondent is to anticipate any future increases and include these costs in the proposal response.

Contractors' invoices will not be paid if certified payrolls are incomplete, incorrect or not received in a timely manner.

All Apprentices must be registered with the State of Connecticut and their number shall not exceed the number allowed by law. Otherwise, all workers must be paid at least the Journeyman rate listed including benefits.

OSHA SAFETY AND HEALTH CERTIFICATION: Effective July 1, 2009: Any Mechanic, Laborer, or Worker, who performs work in a classification listed on the prevailing wage rate schedule on any public works project covered under C.G.S. Section 31-53, both on site and on or in the public building, must have completed a federal OSHA Safety and Health course within the last 5 years.

23. Each Bidder shall submit a list of similar projects completed within the last three years. In order to be eligible for consideration, the Bidder must have successfully completed a minimum of three (3) similar projects within the last three (3) years. Please provide project name and contact information for project coordinator (name, title, address, phone number). Please also provide contract value.
24. The Town of Glastonbury is dedicated to waste reduction and the practice of using and promoting the use of recycled and environmentally preferable products. Bidders are encouraged to submit bids responses that are printed double-sided (except for the signed proposal page) on recycled paper, and to use paper dividers to organize the bid for review. All bid pages should be secured with a binder clip, staple or elastic band, and shall not be submitted in plastic binders or covers, nor shall the bid contain any plastic inserts or pages. We appreciate your efforts towards a greener environment.

IMPORTANT:

- Failure to comply with general rules may result in disqualification of the Bidder.
- Municipal projects are exempt from Federal Excise Taxes, as well as, State of Connecticut Sales, Use and Service Taxes and should not be include in the Bidder's proposal.

1. Workmanship, Materials and Employees

- a) Wherever in this contract the word “Engineer” is used, it shall be understood as referring to the Building Superintendent of the Town of Glastonbury acting personally or through any assistants duly authorized.
- b) The entire work described herein shall be completed in accordance with the plans and specifications to the full intent and meaning of the same.
- c) The Contractor shall at all times enforce strict discipline and good order among his employees, and shall seek to avoid employing on the work any unfit person or anyone not skilled in the work assigned to him.

2. Superintendent

The Contractor shall keep on the work during its progress, in the absence of the Contractor, a competent Superintendent. The Superintendent shall be acceptable to the Engineer and shall fully represent the Contractor. All directions given to the Superintendent shall be binding as if given to the Contractor.

3. Preconstruction Meeting

A Preconstruction Meeting will be held with the Engineer, Contractor, Architect and any private utility company prior to commencing any work. It will be the obligation of the Contractor to arrange such a meeting.

4. Permits

All permits, licenses, and fees required for the performance of the Contract work shall be secured and paid for by the Contractor. Fees for the local building/electrical permit, except for the portion attributed to the State Building Official Education Fund (\$0.26/per \$1,000), will be waived.

5. Property Access

- a) The Contractor shall take all proper precautions to protect from injury or unnecessary interference, and provide proper means of access to abutting property where the existing access is cut off by the Contractor.

6. Protection of the Public and of Work and Property

- a) The Contractor shall continuously maintain adequate protection of all work from damage, and shall take all reasonable precautions to protect the Town from injury or loss arising in connection with the Contract.
- b) The Contractor shall adequately protect adjacent school property.
- c) The Contractor shall make good any damage, injury, or loss of his work and to the property of the Town resulting from lack of reasonable protective precautions.

7. Existing Improvements

The Contractor shall conduct his work so as to minimize damage to existing improvements. Except where specifically stated otherwise in the specifications, drawings, or as directed by the Architect/Engineer, it will be the responsibility of the Contractor to restore to their original condition, as nearly as practical, all improvements on public property.

8. Separate Contracts

The Engineer reserves the right to let other contracts in connection with this work. The Contractor shall afford other Contractors reasonable opportunity for the introduction and storage of their materials and the execution of their work, and shall properly connect and coordinate his work with theirs. Wherever work being done by the Town of Glastonbury's forces or by other contractors is contiguous to work covered by this Contract, the respective rights of the various interests involved shall be established by the Engineer to secure the completion of the various portions of the work.

9. Inspection of Work

- a) The Town shall provide sufficient personnel for the inspection of the work.
- b) The Architect/Engineer shall at all times have access to the work whenever it is in preparation or progress, and the Contractor shall provide proper facilities for such access and for inspection.
- c) If the specifications or the Engineer's instructions require any work to be specially tested or approved, the Contractor shall give the Engineer timely notice of its readiness for inspection and, if the inspection is by another authority other than the Engineer, of the date fixed for such inspection. Inspections by the Engineer shall be made promptly. If any work should be covered up without approval or consent of the Architect/Engineer, it must, if required by the Engineer, be uncovered for examination and properly restored at the Contractor's expense.
- d) Re-inspection of any work may be ordered by the Arcitector/Engineer. If such work is found to be in accordance with the Contract Documents, the Town shall pay the cost of re-inspection and replacement. If such work is not in accordance with the Contract Documents, the Contractor shall pay such cost.

10. Right to Increase or Decrease Work

The Town shall have the right to increase or decrease the amount of work herein specified as may be required.

11. Right of Engineer to Stop Work for Weather Conditions

Should the work, in the opinion of the Engineer, be in danger by reason of inclemency of weather, or could not be finished in time to prevent such danger, the Contractor shall cease operations upon order of the Engineer, and shall not resume them until ordered to do so by the Engineer when the weather conditions are favorable. The Contractor shall, upon such orders, discontinue work, remove all materials or appliances for or in use upon the work, and place the property in proper condition during the time the work is suspended as herein provided, without cost to the Town.

12. Contractor to be Responsible for Imperfect Work or Materials

Any unfaithful work or imperfect material shall be corrected upon the order of the Architect/Engineer. The acceptance and payment of the work does not in any manner relieve the Contractor of his obligation to perform the work in the proper manner herein specified.

13. Town May Notify Contractor if Work is not Carried on Satisfactorily

- a) If, in the opinion of the Engineer, the Contractor is not proceeding with the work at a sufficient rate of progress so as to finish in the time specified, or has abandoned said work, or is not complying with the terms and stipulations of the Contract and specifications, the Engineer may serve notice on the Contractor to adopt such methods as will insure the completion of the work in the time specified.
- b) If, within five (5) days after the Engineer has notified the Contractor that his work is not being carried on satisfactorily as before mentioned, the Engineer shall have the right to annul the Contract and manage the work under the direction of the Engineer, or re-let, for the very best interest of the Town as a new contract, the work under said new Contract shall be considered the responsibility of the defaulting Contractor.
- c) Additional costs incurred over and above the original Contract shall be borne by the Performance Bond.

14. Deductions for Uncorrected Work

- a) If the Engineer deems it inexpedient to correct work that has been damaged or that was not done in accordance with the Contract, an equitable deduction from the Contract price shall be made therefore.
- b) The Contractor shall promptly replace and re-execute his own work in accordance with the Contract and without expense to the Town.

1. NOTICE TO CONTRACTOR AND PROJECT SCOPE

- a) Intent of Contract: The intent of the Contract is to prescribe a complete work or improvement that the Contractor undertakes to do, in full compliance with the specifications, plans, special provisions, proposal, and Contract. The Contractor shall perform all work in close conformity with the lines, grades, typical cross-sections, dimensions, and other data shown on the plans or as modified by written orders, including the furnishing of all materials, implements, machinery, equipment, tools, supplies, transportation, labor, and all other things necessary to the satisfactory prosecution and completion of the project.
- b) The scope of the work includes but is not to the replacement of piping and improvements to the masonry for the GHS Pool.

2. COMMUNICATIONS

- a) All notices, demands, requests, instructions, approvals, proposals, and claims must be in writing.
- b) Any notice to, or demand upon, the contractor shall be sufficiently given if delivered at the office of the Contractor stated on the signature page of the Agreement (or at such other office as the Contractor may, from time to time, designate) in a sealed, postage prepaid envelope addressed to such office.
- c) All papers required to be delivered to the Town shall, unless otherwise specified in writing to the Contractor, be delivered to the Building Superintendent, 2143 Main Street, Glastonbury, CT 06033, and any notice to, or demand upon, the Town shall be delivered at the above address in a sealed, postage-prepaid envelope addressed to such office or to such other representatives of the Town, or to such other address as the Town may subsequently specify in writing to the Contractor for such purpose.
- d) Any such notice shall be deemed to have been given as of the time of actual delivery or, in the case of mailing, when the same should have been received in due course of post.
- e) The Building Superintendent, David Sacchitella, can also be reached at (860) 652-7706 or email dave.sacchitella@glastonbury-ct.gov.

3. PROJECT LOCATION

- a) 330 Hubbard Street, Glastonbury, CT 06033

4. USE OF PROPERTY BY OWNER

- a) All work must be coordinated with the Building Superintendent in advance.

5. TIME FOR COMPLETION

- a) The Pool will be made available to the Contractor from March 25, 2016 to May 15, 2016. Any work outside these times will be at the discretion and availability of the GHS staff.

6. USE OF PREMISES

- a) The Contractor shall confine his apparatus, storage materials, supplies, equipment, and operations to areas identified for this purpose by the Engineer.

7. PRE-BID SITE INSPECTION

- a) Each Contractor shall familiarize himself with the site and its conditions prior to submitting a bid. See Information to Bidder for optional pre-bid inspection details.

8. GUARANTEE

- a) The Contractor and each Subcontractor shall guarantee that all materials and workmanship shall be free from original defects or against injury from proper and usual wear, when used for purposes intended, for one year after date of final completion.
- b) If, in the Contractor's opinion, any work is called for in the specifications in such manner as to make it impossible to produce and guarantee a first-class piece of work, the Contractor shall refer the same to the Engineer before proceeding.

9. PROTECTION OF EXISTING UTILITIES

- a) Prior to opening an excavation, effort shall be made to determine whether underground installations, (i.e., sewer, water, fuel, electric lines, etc.) will be encountered and, if so, where such underground installations are located. Before starting any excavation, the Contractor shall submit to the Engineer plans or details showing the proposed method the Contractor will use to support and protect all existing utilities during construction. The furnishing of such plans and details shall not serve to relieve the contractor of any responsibility for the proper conduct of the work.
- b) When the excavation approaches the estimated location of such an installation, the exact location shall be determined by careful probing or hand digging, and when it is uncovered, proper supports shall be provided for the existing installation. Utility companies shall be contacted and advised of proposed work prior to the start of actual excavation.
- c) There will be no extra payment for submitting plans or details for supporting and protecting all existing utilities during construction.

10. SCHEDULE OF VALUES

- a) The Contractor shall submit to the Architect, within ten (10) days of the first of the Contract Award or the Pre-construction Meeting, a schedule of values allocating the entire Contract Sum to the various portions of the Work and prepared in such form and supported by such data to substantiate its accuracy as the Architect may require. This schedule, unless objected to by the Architect, shall be used as a basis for reviewing the Contractor's Applications for Payment. The Architect shall forward to the Owner the Contractor's schedule of values.

11. PAYMENTS

- a) Based upon Applications for Payment submitted to the Owner by the Contractor, and upon certification of the Project Application and Project Certificate for Payment or Application for Payment and Certificate for Payment by the Architect and issuance by the Architect, the Owner shall make progress payments on account of the Contract Sum to the Contractor as provided below and elsewhere in the Contract Documents.
- b) The period covered by each Application for Payment shall be one calendar month ending on the last day of the month.
- c) Each Application for Payment shall be based on the most recent schedule of values submitted by the Contractor in accordance with the Contract Documents. The schedule of values shall allocate the entire Contract Sum among the various portions of the Work and be prepared in such form and supported by such data to substantiate its accuracy as the Architect may require. This schedule, unless objected to by the Architect, shall be used as a basis for reviewing the Contractor's Applications for Payment.
- d) Applications for Payment shall show the percentage of completion of each portion of the Work as of the end of the period covered by the Application for Payment.
- e) Subject to the provisions of the Contract Documents, the amount of each progress payment shall be computed as follows:
 - Take that portion of the Contract Sum properly allocable to completed Work as determined by multiplying the percentage completion of each portion of the Work by the share of the total Contract Sum allocated to that portion of the Work in the schedule of values, less retainage of five percent (5%). Pending final determination of cost to the Owner of changes in the Work, amounts not in dispute may be included.
 - Add that portion of the Contract Sum properly allocable to materials and equipment delivered and suitably stored at the site for subsequent incorporation in the completed construction (or, if approved in advance by the Owner, suitably stored off the site at a location agreed upon in writing), less retainage of five percent (5%);
 - Subtract the aggregate of previous payments made by the Owner; and
 - Subtract amounts, if any, for which the Architect has withheld or nullified a Certificate for Payment.
- f) The progress payment amount shall be further modified under the following circumstances:
 - Add, upon Substantial Completion of the Work, a sum sufficient to increase the total payments to five percent of the Contract Sum, less such amounts as the Architect determines for incomplete Work and unsettled claims; and
- g) Reduction or limitation of retainage, if any, shall be as follows:
 - Except as may be otherwise required by laws, the retainage amount set forth herein shall be five percent (5%) at Substantial Completion and two and one half percent (2.5%) at Final

Completion and until the applicable warranty period has expired. No interest shall be credited to the Contractor when, and if, such retainages are released.

12. PROTECTION

- a) The Contractor shall be solely responsible for damage, loss or liability, due to the theft or vandalism when work is not in progress at night, weekends, or holidays.

13. APPROVED EQUALS

- a) Contractors proposing to use products different than those specified for consideration as an “approved equal” must submit documentation that clearly indicates that the alternative product(s) either meet or exceed those specified. The documentation must be submitted with the written bid. The Town reserves the right to reject bids that do not comply with this requirement. The Town’s decision with respect to products proposed for consideration as an “approved equal” shall be final and not subject to review.

14. SCHEDULE OF DRAWINGS

- a) The Contractor is hereby alerted that the plan set entitled “Glastonbury High School Pool Upgrades by Bargmann Hendrie & Archetype, Inc (BH+A) Architects is to be considered part of these specifications. A complete list of drawings is provided in the List of Drawings section of the project manual.

15. CHANGES IN THE WORK

- a) The Town reserves the right to perform portions of the work in connection with these plans and specifications. The reduction in the work to be performed by the Contractor shall be made without invalidating the Contract. Whenever work is done by the Town contiguous to other work covered by this Contract, the Contractor shall provide reasonable opportunity for the execution of the work and shall properly coordinate his work with that of the Town.

16. LAYOUT OF WORK (N/A)

- a) The Town shall provide stake-out of the work in accordance with the plans or as directed by the Engineer. The Contractor shall protect all stakes from damage or destruction and shall be responsible to assure that the grade stakes have not been altered prior to actual construction. The Town shall replace grade stakes that have been removed, at no cost to the Contractor, if their removal was caused by reasons beyond reasonable care and protection by the Contractor. If it is determined by the Engineer that the Contractor did not provide reasonable protection, the cost of re-staking will be deducted from any amounts due the Contractor in the performance of the work.

17. SUBMITTALS AND MATERIALS TESTING (N/A)

- a) The Contractor shall provide source and supply information, sieve analysis, and material samples for gravel fill, processed stone, and structural fill, and other granular materials to the Town for review and approval. The Town shall retain a lab for testing of these materials as required and shall perform in place compaction testing at no expense to the Contractor.

19. TEMPORARY FACILITIES

- a) Temporary electricity, water, and restroom facilities are not available on-site and will be provided by the Owner to the Contractor from the adjacent Academy Facility.

20. AS-BUILT DRAWINGS

- a) The Contractor will provide the as-built drawings prior to final payment. The contractor shall, however, coordinate closely with the Owner to ensure that any new underground utilities are not backfilled until such time as the Owner is able to record location, elevation and other relevant information needed to prepare the as-built drawing.
- b) Drawings shall include the following survey information at a minimum.
 - Building foundations with finish floor elevations; distances of foundation from property lines and to adjacent buildings.
 - Locations and elevations of all items installed by each respective prime contractor and their subcontractor.

A. RELATED DOCUMENTS

Drawings and general provisions of the Contract, including General Construction Specifications and Special Conditions, apply to this Section.

B. SUMMARY

1.0 This Section includes administrative and procedural requirements for submittals required for performance of the Work, including, but not limited to, the following:

- 1.1 Submittal schedule
- 1.2 Shop Drawings
- 1.3 Product Data
- 1.4 Samples
- 1.5 Quality assurance submittals
- 1.6 Proposed "Substitutions/Equals"
- 1.7 Warrantees
- 1.8 O & M Manuals

C. ADMINISTRATIVE SUBMITTALS

Refer to other Sections and other Contract Documents for requirements for administrative submittals. Such submittals include, but are not limited to, the following:

- 1) Permits
- 2) Applications for Payment
- 3) Performance and payment bonds
- 4) Contractor's construction schedule
- 5) Insurance certificates
- 6) List of subcontractors
- 7) Subcontractors/Suppliers FEIN #'s and Connecticut tax registration number

D. SUBMITTAL PROCEDURES

1.0 Coordination: coordinate preparation and processing of submittals with performance of construction activities. Transmit each submittal sufficiently in advance of performance of related construction activities to avoid delay.

1.1 Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.

1.2 Coordinate transmittal of different types of submittals for related elements of the Work so processing will not be delayed by the need to review submittals concurrently for coordination.

1.2.1 The Architect reserves the right to withhold action on a submittal requiring coordination with other submittals until all related submittals are received.

1.2.2 The Architect reserves the right to reject incomplete submittal packages.

1.3 Processing: To avoid the need to delay installation as a result of the time required to process submittals, allow sufficient time for submittal review, including time for re-submittals.

- i. Allow **fourteen (14)** calendar days for initial review. Allow additional time if the Architect must delay processing to permit coordination with subsequent submittals.
 - ii. If an intermediate submittal is necessary, process the same as the initial submittal.
- 1.4 Allow **fourteen (14)** calendar days for reprocessing each submittal.
- 1.5 No extension of Contract Time will be authorized because of failure to transmit submittals to the Architect sufficiently in advance of the Work to permit processing.
- 2.0 **Submittal Preparation:** Place a permanent label, title block of 8-1/2 inches x 11 inches cover page approved by the Architect, on each submittal for identification, indicate the name of the entity that prepared each submittal on the label or title block.
 - 2.1 The minimum number of copies required for each submittal shall be five (5) or as determined otherwise.
 - 2.2 Provide a space approximately 4 inches by 5 inches on the label, beside the title block or on the cover page on Shop Drawings to record the Contractor's review and approval markings and the action taken.
 - 2.3 Include the following information on the label for processing and recording action taken:
 - 2.3.1 Project Name and Bid Number
 - 2.3.2 Date
 - 2.3.3 Name and address of the Architect and Owner Representative
 - 2.3.4 Name and address of the Contractor
 - 2.3.5 Name and address of the subcontractor
 - 2.3.6 Name and address of the supplier
 - 2.3.7 Name of the manufacturer
 - 2.3.8 Number and title of appropriate Specification Section
 - 2.3.9 Drawing number and detail references, as appropriate
 - 2.3.10 Indicate either initial or resubmittal
 - 2.3.11 Indicate deviations from Contract Documents
 - 2.3.12 Indicate if "equal" or "substitution"
- 3.0 Submittal Transmittal: Package each submittal appropriately for transmittal and handling. Transmit each submittal from the Contractor to the Architect using a transmittal form. Copy the Owner on the transmittal. The Architect will return all submittals to the Contractor after action is taken with a complete copy of the submittal package. The Architect will not accept submittals received from sources other than the Contractor.
 - 3.1 On the transmittal, record relevant information and requests for data. On the form, or separate sheet, record deviations from Contract Document requirements, including variations and limitations. Include Contractor's certification that information complies with Contract Document requirements.

G. SUBMITTAL SCHEDULE

- 1.0 After development and review by the Owner and Architect acceptance of the Contractor's Construction schedule, prepare a complete schedule of submittals. Submit the schedule to the Architect for review and approval.
- 1.1 Coordinate Submittal Schedule with list of subcontracts, Schedule of Values, and list of products as well as the Contractor's Construction Schedule.
- 1.2 Prepare the schedule in chronological order. Provide the following information:
 - 1.2.1 Schedule date for the initial submittal
 - 1.2.2 Related section number
 - 1.2.3 Submittal category (Shop Drawings, Product Data, or Samples)
 - 1.2.4 Name of Subcontractor
 - 1.2.5 Description of the part of Work covered
 - 1.2.6 Scheduled date for resubmittal
 - 1.2.7 Scheduled date for the Architect's final release of approval

H. SHOP DRAWINGS

- 1.0 Submit newly prepared information drawn accurately to scale. Highlight, encircle, or otherwise indicate deviations from the Contract Documents. Do not reproduce Contract Documents or copy standard information as the basis of Shop Drawings. Standard information prepared without specific reference to the Project is not a Shop Drawing.
- 2.0 Shop Drawings include fabrication and installation Drawings, setting diagrams, schedules, patterns, templates and similar Drawings. Include the following information:
 - 2.1 Dimensions.
 - 2.2 Identification of products and materials included by sheet and detail number.
 - 2.3 Compliance with specified standards.
 - 2.4 Notation of coordination requirements.
 - 2.5 Notation of dimensions established by field measurement.
 - 2.6 Sheet Size: Except for templates, patterns and similar full-size Drawings, submit Shop Drawing son sheets at least 8-1/2 by 11 inches but no larger than 36 by 48 inches. Details shall be large scale and/or full size.
- 3.0 The Contractor shall review the Shop Drawings, stamp with his approval, and submit them with reasonable promptness and in orderly sequence so as to cause no delay in his Work or in the Work of any subcontractor. Shop Drawings shall be properly identified as specified for item, material, workmanship, and project number. At the submission, the Contractor shall inform the Architect, in writing of any deviation in the shop drawings from the requirements of the Contract Documents.
- 4.0 The Architect will review and comment on shop drawings only for conformance with the design concept of the project and with the information given in the contract Documents. Shop Drawings received by the Architect that indicate insufficient study of drawings and specifications, illegible portions or gross errors, will be rejected outright. Such rejections shall not constitute an acceptable reason for granting the Contractor additional time to perform the work.

- 5.0 The contractor shall make any corrections required by the Architect and shall resubmit the required number of corrected copies of Shop Drawings until fully reviewed.
- 6.0 The Architect's review and comments on Shop Drawings are to be used on the Project site.
- 7.0 Only final approved Shop Drawings are to be used on the Project site.
- 8.0 The Work installed shall be reviewed in accordance with the Shop Drawings and the drawings and specifications.

I. PRODUCT DATA

- 1.0 Collect Product Data into a single submittal for each element of construction or system. Product Data includes printed information, schedules, such as manufacturer's installation instructions, catalog cuts, standard color charts, roughing-in diagrams and templates, standard wiring diagrams, and performance curves.
- 1.1 Mark each copy to show applicable choices and options. Where printed Product Data includes information on several products that are not required, mark copies to indicate the applicable information.
- 1.2 **Submittals:** Submit five (5) copies of each required submittal. The Architect will retain one (1) and will return the other marked with action taken and corrections or modifications required.
- 1.3 **Distribution:** Furnish copies of final submittal to installers, subcontractors, suppliers, manufacturers, fabricators, and others required for performance of construction activities.
 - 1.3.1 Do not proceed with installation until a copy of Product Data is in the installer's possession.
 - 1.3.2 Do not permit use of unmarked copies of Product data in connection with construction.

J. SAMPLES

- 1.0 Submit full-size, fully fabricated samples cured and finished as specified and physically identical with the material or product proposed. Samples include partial sections of manufactured or fabricated components, cuts or containers of materials, color range sets, and swatches showing color, texture, and pattern.
- 1.1 Submit at least three (3) samples for review of size, kind, color, pattern, and texture. Refer to other specification Sections for requirements for Samples that illustrate workmanship, fabrication techniques, details of assembly, connections, operation, and similar construction characteristics.
- 1.2 **Preliminary Submittals:** Submit a full set of choices where Samples are submitted for selection of color, pattern, texture, or similar characteristics from a range of standard choices, unless otherwise noted in specification section.

K. QUALITY ASSURANCE SUBMITTALS

- 1.0 Submit quality-control submittals, including design data, certifications, manufacturer's instructions, manufacturer's field reports, and other quality-control submittals as required under other Sections of the specifications.
- 1.1 **Certifications:** Where other Sections of the Specifications require certification that a product, material, or installation complies with specified requirements, submit a notarized certification form from the manufacturer certifying compliance with specified requirements.

L. ARCHITECT'S ACTION:

- 1.0 Except for submittals for the record or information, where action and return is required, the Architect will review each submittal, mark to indicate action taken, and return promptly.
- 2.0 **Action Stamp:** The Architect will stamp each submittal with a uniform, action stamp. The Architect will mark the stamp appropriately to indicate the action taken, as follows:
 - 2.1 **Final Unrestricted Release:** When the Architect marks a submittal "No Exception," the Work covered by the submittal may proceed provided it complies with requirements of the contract documents.
 - 2.2 **Final-But-Restricted Release:** When the Architect marks a submittal "Make Corrections," the Work covered by the submittal may proceed provided it complies with notations or corrections on the submittal and requirements of the Contract Documents.
 - 2.3 **Returned for Resubmittal:** When the Architect marks a submittal "Rejected, or Revise and Resubmit," do not proceed with Work covered by the submittal, including purchasing fabrication, delivery, or other activity. Revise or prepare a new submittal according to the notations; resubmit without delay. Repeat if necessary to obtain different action mark.
 - 2.3.1 Do not use, or allow others to use, submittals marked "Rejected, or Revise and Resubmit" at the Project site or elsewhere where Work is in progress.

INSURANCE

The Bidder shall, at its own expense and cost, obtain and keep in force during the entire duration of the Project or Work the following insurance coverage covering the Bidder and all of its agents, employees and sub-contractors and other providers of services and shall name the **Town of Glastonbury, its Board of Education and their employees and agents as an Additional Insured** on a primary and non-contributory basis to the Bidders Commercial General Liability and Automobile Liability policies. **These requirements shall be clearly stated in the remarks section on the Bidders Certificate of Insurance.** Insurance shall be written with insurance carriers approved in the State of Connecticut and with a minimum Best's Rating of A-VIII. In addition, all carriers are subject to approval by the Town. Minimum Limits and requirements are stated below:

1) Worker's Compensation Insurance:

- Statutory Coverage
- Employer's Liability
- \$500,000 each accident/\$500,000 disease-policy limit/\$500,000 disease each employee
- A Waiver of Subrogation shall be provided in favor of the Town, its Board of Education and their employees and agents.

2) Commercial General Liability:

- Including Premises & Operations, Products and Completed Operations, Personal and Advertising Injury, Contractual Liability and Independent Contractors.
- Limits of Liability for Bodily Injury and Property Damage
Each Occurrence \$1,000,000
Aggregate \$2,000,000 (The Aggregate Limit shall apply separately to each job.)
- A Waiver of Subrogation shall be provided in favor of the Town, its Board of Education and their employees and agents.

3) Automobile Insurance:

- Including all owned, hired, borrowed and non-owned vehicles
- Limit of Liability for Bodily Injury and Property Damage: Per Accident \$1,000,000
- A Waiver of Subrogation shall be provided in favor of the Town, its Board of Education and their employees and agents.

4) Umbrella or Excess Liability:

- State in the Remarks Section that coverage is follow form
- Limits of Liability Each Occurrence \$1,000,000
Aggregate \$1,000,000

The Bidder shall direct its Insurer to provide a Certificate of Insurance to the Town before any work is performed. The Contractor shall be responsible to notify the Town 60 days in advance with written notice of cancellation or non-renewal. The Certificate shall evidence all required coverage. The Bidder shall provide the Town copies of any such insurance policies upon request.

INDEMNIFICATION

To the fullest extent permitted by law, the Bidder shall indemnify and hold harmless the Town of Glastonbury and Board of Education and their consultants, agents, and employees from and against all claims, damages, losses and expenses, direct, indirect or consequential (including but not limited to fees and charges of engineers, attorneys and other professionals and court and arbitration costs) to the extent arising out of or resulting from the performance of the Bidder's work, provided that such claim, damage, loss or expense is caused in whole or in part by any negligent act or omission by the Bidder, or breach of its obligations herein or by any person or organization directly or indirectly employed or engaged by the Bidder to perform or furnish either of the services, or anyone for whose acts the Bidder may be liable.

**Glastonbury High School Pool Upgrades
Bid Proposal**

**Bid #GL-2016-14
Due Date: December 15, 2015 @ 11:00 a.m.**



TOWN OF GLASTONBURY * 2155 MAIN STREET * GLASTONBURY * CT

BID / PROPOSAL NO: GL-2016-14 **DATE DUE:** 12-15-15

DATE ADVERTISED: 11-24-15 **TIME DUE:** 11:00 AM

NAME OF PROJECT: Glastonbury High School Pool Upgrades

In compliance with this Invitation to Bid, the Bidder hereby proposes to provide goods and/or services as per this solicitation in strict accordance with the Bid Documents, within the time set forth therein, and at the prices submitted with their bid response.

It is the responsibility of the Bidder to clearly mark the outside of the bid envelope with the Bid Number, Date and Time of Bid Opening, and it also THE RESPONSIBILITY OF THE BIDDER TO CHECK THE TOWN'S WEBSITE BEFORE SUBMITTING BID FOR ADDENDA POSTED PRIOR TO BID OPENING.

THE BIDDER ACKNOWLEDGES RECEIPT OF THE FOLLOWING ADDENDA AS REQUIRED:

Addendum #1 _____ (Initial/Date) **Addendum #2** _____ (Initial/Date) **Addendum #3** _____ (Initial/Date)

LUMP SUM BID:

Installation of improvements and upgrades to the Glastonbury High School Pool based on plans and specifications by Bargmann Hendrie + Archetype, Inc., dated 11/17/2015

TOTAL OF LUMP SUM BID \$ _____
(Numeric Amount)

(Written Amount)

CODE OF ETHICS:

I / We have reviewed a copy of the Town of Glastonbury's Code of Ethics and agree to submit a Consultant Acknowledgement Form if I / We are selected. Yes _____ No _____ *

*Bidder is advised that effective August 1, 2003, the Town of Glastonbury cannot consider any bid or proposal where the bidder has not agreed to the above statement.

Print Name, Title of Individual

Doing Business as (Trade Name)

Signature of Individual

Street Address

Date

City, State, Zip Code

E:mail Address

Telephone Number / Fax Number

Other Items Required with Submission of Bid Proposal

The following checklist describes items required for inclusion with the above-referenced bid proposal. It is provided for the convenience of the bidders and, therefore, should not be assumed to be a complete list.

- _____ Bid Bond (10%) per Section 10 of the Information for Bidders.
- _____ Disclosure of Past and Pending Mediation, Arbitration and Litigation cases against the Bidder or its Principals per Section 18 of the Information for Bidders.
- _____ List of similar projects completed within the past three years as per Section 23 of the Instructions for Bidders.
- _____ Checked the Town web site for addenda and acknowledged addenda on Page BP-1.
- _____ Acknowledged Code of Ethics on Page BP-1.
- _____ Clearly marked envelope with Bid Number, Bid Name, Bidder Name and Address, Date and Time of opening.

ATTENTION CONTRACTOR

- APPROVED FORM FOR YOUR FILES-NOTE ANY COMMENTS BOTTOM OF PAGE 2 - APPROVAL REQUIREMENTS
- APPLICATION DENIED-SEE BOTTOM PAGE 2

GLASTONBURY PUBLIC SCHOOLS

OFFICES OF DISTRICT SAFETY OFFICERS

Dr. Kenneth R. Roy
 Director of Environmental Health & Safety
 330 Hubbard St.
 Glastonbury, CT 06033-3099

Telephone: (860) 652-7200 Ext. 2002
 Fax: (860) 652-7275
 E-mail: royk@glastonburyus.org

CONTRACTOR COMPLIANCE PERMIT APPLICATION

Notice to Contractors:

In concert with, but not limited to, all OSHA General Industry and Construction standards, EPA, NFPA, AHERA, and building codes, contractors conducting work activities at/on any Glastonbury Public Schools District property are required to provide the following information:

NOTICE: THIS FORM MUST BE COMPLETED AND APPROVED 3 DAYS PRIOR TO COMMENCING ANY OPERATIONS. ALL CONTRACTORS AND SUB CONTRACTORS MUST SUBMIT THEIR OWN PERMIT APPLICATION.

Once approved, the form will be returned to the originator. Approval is conditional relative to noted specifications by GPS Safety Officer/Director of Environmental Health and Safety.

1. Project Information:

| |
|-----------------------------|
| Project Description: |
|-----------------------------|

| | | |
|----------------------------------|-------------------------|------------------------------|
| Location: | | |
| Start Date: | Completion Date: | |
| Contractor Safety Officer | Phone: | Fax: Email: |

Permit Prepared By:

Date Prepared:

| Project Scope | Yes | No | Comments |
|-------------------------|--------------------------|--------------------------|----------|
| Confined Spaces* | <input type="checkbox"/> | <input type="checkbox"/> | |
| Electrical Work** | <input type="checkbox"/> | <input type="checkbox"/> | |
| Forklift | <input type="checkbox"/> | <input type="checkbox"/> | |
| Hazardous Materials | <input type="checkbox"/> | <input type="checkbox"/> | |
| Ladders/Scaffolds | <input type="checkbox"/> | <input type="checkbox"/> | |
| Respirators | <input type="checkbox"/> | <input type="checkbox"/> | |
| Rigging/Lifting***** | <input type="checkbox"/> | <input type="checkbox"/> | |
| Welding*** | <input type="checkbox"/> | <input type="checkbox"/> | |
| Asbestos Management**** | <input type="checkbox"/> | <input type="checkbox"/> | |
| Other | <input type="checkbox"/> | <input type="checkbox"/> | |

- * Contractors need to secure, complete and submit a "Confined Space Permit" from the Director of Environmental Health and Safety for approval **3 days PRIOR** to doing any work in a Permit Required Confined Space Area.
- ** Contractors need to secure, complete and submit an "Energized Electrical Work Permit" from the Director of Environmental Health and Safety for approval **3 days PRIOR** to doing any energized electrical work.
- *** Contractors are required to secure, complete and submit a "Hot Work Permit" from the Director of Environmental Health and Safety for approval **3 days PRIOR** to doing any hot work (e.g., welding, etc.).
- **** Contractors need to secure the Asbestos Management Plan from the Director of Facilities prior to all construction/demolition work.
- ***** A safety plan must be submitted and approved for use of cranes.

2. Provide district safety officer with Safety Data Sheets (SDS) for all materials used on-site.

| LIST EITHER CHEMICAL OR TRADE NAME OF EACH ATTACHED SDS SHEET BELOW | |
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3. In cases of hazardous waste production, a written disposal plan must be provided to and approved by the district safety director, 5 days prior to initiation of work for those materials disposed of on site.
4. All contractors and/or their personnel are required **to be in compliance with all EPA, NFPA, AHERA and OSHA and other appropriate safety standards** when working on site (under the direction of a contractor’s project supervisor).
5. All on-site activities carried out by contractors, and/or their employees, must be done in such a manner as to **maintain a safe working environment** for all Glastonbury Public Schools’ employees, students and visitors.
6. Contractor employees found to be in non-compliance **may be removed from the District worksite** by the District Safety Officer.
7. Contractors found to be in non-compliance will be subject to **forfeiture of payment and/or contract termination**.
8. The district reserves the right to inspect the worksite **at any time** for safety compliance.
9. The district may require review of a contractors OSHA 200/300 log for a period of three (3) previous years.

Please type company name and address below

| | |
|--|--|
| | <p>RETURN TO:</p> <p>Dr. Kenneth Roy, Safety Compliance Officer</p> <p>E-mail: royk@glastonburyus.org</p> |
|--|--|

By signature, the contractor agrees to adhere to all components and the spirit of this document.

| Signature of Contractor | Title | Date |
|-------------------------|-------|------|
| | | |

| | |
|--|--|
| <p>INTERNAL USE ONLY</p> <p>APPROVAL STATUS: <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>GPS Safety Officer: _____ Date: _____</p> <p>c: <input type="checkbox"/> Maintenance Office File</p> <p> <input type="checkbox"/> Contractor</p> <p> <input type="checkbox"/> Safety Officer Roy</p> <p> <input type="checkbox"/> Building Principal/Supervisor</p> <p> <input type="checkbox"/> (Other)</p> <p> <input type="checkbox"/> (Other)</p> | <p><u>NOTE TO CONTRACTOR:</u> APPROVAL CONTINGENT ON THE FOLLOWING ITEMS:</p> |
|--|--|

Project: Glastonbury High School Pool Upgrades

**Minimum Rates and Classifications
for Building Construction**

ID# : B 21437

**Connecticut Department of Labor
Wage and Workplace Standards Division**

By virtue of the authority vested in the Labor Commissioner under provisions of Section 31-53 of the General Statutes of Connecticut, as amended, the following are declared to be the prevailing rates and welfare payments and will apply only where the contract is advertised for bid within 20 days of the date on which the rates are established. Any contractor or subcontractor not obligated by agreement to pay to the welfare and pension fund shall pay this amount to each employee as part of his/her hourly wages.

Project Number: GL-2016-14

Project Town: Glastonbury

State#:

FAP#:

Project: Glastonbury High School Pool Upgrades

| CLASSIFICATION | Hourly Rate | Benefits |
|--|--------------------|-----------------|
| 1a) Asbestos Worker/Insulator (Includes application of insulating materials, protective coverings, coatings, & finishes to all types of mechanical systems; application of firestopping material for wall openings & penetrations in walls, floors, ceilings | 35.75 | 28.82 |
| <hr/> | | |
| 1b) Asbestos/Toxic Waste Removal Laborers: Asbestos removal and encapsulation (except its removal from mechanical systems which are not to be scrapped), toxic waste removers, blasters.**See Laborers Group 7** | | |
| <hr/> | | |
| 1c) Asbestos Worker/Heat and Frost Insulator | 37.15 | 27.56 |

As of: Tuesday, November 17, 2015

Project: Glastonbury High School Pool Upgrades

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|----------------|-------|-------|
| 2) Boilermaker | 35.24 | 25.01 |
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|---|-------|-----------|
| 3a) Bricklayer, Cement Mason, Concrete Finisher (including caulking), Stone Masons | 32.50 | 28.74 + a |
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| 3b) Tile Setter | 33.75 | 24.21 |
|-----------------|-------|-------|

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| 3c) Terrazzo Mechanics and Marble Setters | 31.69 | 22.35 |
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| 3d) Tile, Marble & Terrazzo Finishers | 26.26 | 20.69 |
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| 3e) Plasterer | 32.50 | 29.45 |
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As of: Tuesday, November 17, 2015

Project: Glastonbury High School Pool Upgrades

-----LABORERS-----

| | | |
|---|-------|-------|
| 4) Group 1: Laborers (common or general), acetylene burners, carpenter tenders, concrete specialists, wrecking laborers, fire watchers. | 27.85 | 18.30 |
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|--|-------|-------|
| 4a) Group 2: Mortar mixers, plaster tender, power buggy operators, powdermen, fireproofers/mixer/nozzleman (Person running mixer and spraying fireproof only). | 28.10 | 18.30 |
|--|-------|-------|

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|--|-------|-------|
| 4b) Group 3: Jackhammer operators/pavement breaker, mason tender (brick), mason tender (cement/concrete), forklift operators and forklift operators (masonry). | 28.35 | 18.30 |
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| 4c) **Group 4: Pipelayers (Installation of water, storm drainage or sewage lines outside of the building line with P6, P7 license) (the pipelayer rate shall apply only to one or two employees of the total crew who primary task is to actually perform the mating of pipe sections) P6 and P7 rate is \$26.80. | 28.85 | 18.30 |
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| 4d) Group 5: Air track operator, sand blaster and hydraulic drills. | 28.60 | 18.30 |
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Project: Glastonbury High School Pool Upgrades

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| 4e) Group 6: Blasters, nuclear and toxic waste removal. | 30.85 | 18.30 |
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| 4f) Group 7: Asbestos/lead removal and encapsulation (except it's removal from mechanical systems which are not to be scrapped). | 28.85 | 18.30 |
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| 4g) Group 8: Bottom men on open air caisson, cylindrical work and boring crew. | 28.38 | 18.30 |
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|---|-------|-------|
| 4h) Group 9: Top men on open air caisson, cylindrical work and boring crew. | 27.86 | 18.30 |
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| 4i) Group 10: Traffic Control Signalman | 16.00 | 18.30 |
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| 5) Carpenter, Acoustical Ceiling Installation, Soft Floor/Carpet Laying, Metal Stud Installation, Form Work and Scaffold Building, Drywall Hanging, Modular-Furniture Systems Installers, Lathers, Piledrivers, Resilient Floor Layers. | 31.45 | 23.54 |
|---|-------|-------|

As of: Tuesday, November 17, 2015

Project: Glastonbury High School Pool Upgrades

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| 5a) Millwrights | 31.84 | 23.99 |
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| 6) Electrical Worker (including low voltage wiring) (Trade License required: E1,2 L-5,6 C-5,6 T-1,2 L-1,2 V-1,2,7,8,9) | 38.20 | 23.72+3% of gross wage |
|--|-------|------------------------|

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| 7a) Elevator Mechanic (Trade License required: R-1,2,5,6) | 47.96 | 28.385+a+b |
|---|-------|------------|

-----LINE CONSTRUCTION-----

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|-----------|-------|------------|
| Groundman | 24.37 | 6.5%+10.04 |
|-----------|-------|------------|

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|-----------------------|-------|------------|
| Linemen/Cable Splicer | 44.30 | 6.5%+17.70 |
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Project: Glastonbury High School Pool Upgrades

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| 8) Glazier (Trade License required: FG-1,2) | 35.08 | 19.35 + a |
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| 9) Ironworker, Ornamental, Reinforcing, Structural, and Precast Concrete Erection | 34.47 | 31.09 + a |
|---|-------|-----------|

----OPERATORS----

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|---|-------|-----------|
| Group 1: Crane handling or erecting structural steel or stone, hoisting engineer 2 drums or over, front end loader (7 cubic yards or over); work boat 26 ft. and over. (Trade License Required) | 37.55 | 23.05 + a |
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| Group 2: Cranes (100 ton rate capacity and over); Excavator over 2 cubic yards; Piledriver (\$3.00 premium when operator controls hammer); Bauer Drill/Caisson. (Trade License Required) | 37.23 | 23.05 + a |
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| Group 3: Excavator; Backhoe/Excavator under 2 cubic yards; Cranes (under 100 ton rated capacity), Grader/Blade; Master Mechanic; Hoisting Engineer (all types of equipment where a drum and cable are used to hoist or drag material regardless of motive power of operation), Rubber Tire Excavator (Drott-1085 or similar); Grader Operator; Bulldozer Fine Grade. (slopes, shaping, laser or GPS, etc.). (Trade License Required) | 36.49 | 23.05 + a |
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Project: Glastonbury High School Pool Upgrades

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| Group 4: Trenching Machines; Lighter Derrick; Concrete Finishing Machine; CMI Machine or Similar; Koehring Loader (Skooper). | 36.10 | 23.05 + a |
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| Group 5: Specialty Railroad Equipment; Asphalt Paver; Asphalt Reclaiming Machine; Line Grinder; Concrete Pumps; Drills with Self Contained Power Units; Boring Machine; Post Hole Digger; Auger; Pounder; Well Digger; Milling Machine (over 24" Mandrell) | 35.51 | 23.05 + a |
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| Group 5 continued: Side Boom; Combination Hoe and Loader; Directional Driller; Pile Testing Machine. | 35.51 | 23.05 + a |
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| Group 6: Front End Loader (3 up to 7 cubic yards); Bulldozer (rough grade dozer). | 35.20 | 23.05 + a |
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|--|-------|-----------|
| Group 7: Asphalt roller, concrete saws and cutters (ride on types), vermeer concrete cutter, Stump Grinder; Scraper; Snooper; Skidder; Milling Machine (24" and under Mandrell). | 34.86 | 23.05 + a |
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| Group 8: Mechanic, grease truck operator, hydroblaster; barrier mover; power stone spreader; welding; work boat under 26 ft.; transfer machine. | 34.46 | 23.05 + a |
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Project: Glastonbury High School Pool Upgrades

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| Group 9: Front end loader (under 3 cubic yards), skid steer loader regardless of attachments, (Bobcat or Similar): forklift, power chipper; landscape equipment (including Hydroseeder). | 34.03 | 23.05 + a |
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| Group 10: Vibratory hammer; ice machine; diesel and air, hammer, etc. | 31.99 | 23.05 + a |
|---|-------|-----------|

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|--|-------|-----------|
| Group 11: Conveyor, earth roller, power pavement breaker (whiphammer), robot demolition equipment. | 31.99 | 23.05 + a |
|--|-------|-----------|

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|-------------------------------|-------|-----------|
| Group 12: Wellpoint operator. | 31.93 | 23.05 + a |
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| Group 13: Compressor battery operator. | 31.35 | 23.05 + a |
|--|-------|-----------|

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| Group 14: Elevator operator; tow motor operator (solid tire no rough terrain). | 30.21 | 23.05 + a |
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Project: Glastonbury High School Pool Upgrades

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|--|-------|-----------|
| Group 15: Generator Operator; Compressor Operator; Pump Operator; Welding Machine Operator; Heater Operator. | 29.80 | 23.05 + a |
|--|-------|-----------|

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|---------------------------------------|-------|-----------|
| Group 16: Maintenance Engineer/Oiler. | 29.15 | 23.05 + a |
|---------------------------------------|-------|-----------|

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|---|-------|-----------|
| Group 17: Portable asphalt plant operator; portable crusher plant operator; portable concrete plant operator. | 33.46 | 23.05 + a |
|---|-------|-----------|

| | | |
|---|-------|-----------|
| Group 18: Power safety boat; vacuum truck; zim mixer; sweeper; (Minimum for any job requiring a CDL license). | 31.04 | 23.05 + a |
|---|-------|-----------|

-----PAINTERS (Including Drywall Finishing)-----

| | | |
|-----------------------|-------|-------|
| 10a) Brush and Roller | 31.52 | 19.35 |
|-----------------------|-------|-------|

As of: Tuesday, November 17, 2015

Project: Glastonbury High School Pool Upgrades

| | | |
|------------------------------------|-------|-------|
| 10b) Taping Only/Drywall Finishing | 32.27 | 19.35 |
|------------------------------------|-------|-------|

| | | |
|--------------------------------|-------|-------|
| 10c) Paperhanger and Red Label | 32.02 | 19.35 |
|--------------------------------|-------|-------|

| | | |
|----------------------|-------|-------|
| 10e) Blast and Spray | 34.52 | 19.35 |
|----------------------|-------|-------|

| | | |
|--|-------|-------|
| 11) Plumber (excluding HVAC pipe installation) (Trade License required: P-1,2,6,7,8,9 J-1,2,3,4 SP-1,2) | 40.62 | 28.91 |
|--|-------|-------|

| | | |
|---------------------------------------|-------|-----------|
| 12) Well Digger, Pile Testing Machine | 33.01 | 19.40 + a |
|---------------------------------------|-------|-----------|

| | | |
|--------------------------|-------|-------|
| 13) Roofer (composition) | 33.70 | 18.23 |
|--------------------------|-------|-------|

As of: Tuesday, November 17, 2015

Project: Glastonbury High School Pool Upgrades

| | | |
|---------------------------|-------|-------|
| 14) Roofer (slate & tile) | 34.20 | 18.23 |
|---------------------------|-------|-------|

| | | |
|--|-------|-------|
| 15) Sheetmetal Worker (Trade License required for HVAC and Ductwork: SM-1,SM-2,SM-3,SM-4,SM-5,SM-6) | 35.74 | 33.22 |
|--|-------|-------|

| | | |
|---|-------|-------|
| 16) Pipefitter (Including HVAC work) (Trade License required: S-1,2,3,4,5,6,7,8 B-1,2,3,4 D-1,2,3,4, G-1, G-2, G-8 & G-9) | 40.62 | 28.91 |
|---|-------|-------|

-----TRUCK DRIVERS-----

| | | |
|-------------|-------|-----------|
| 17a) 2 Axle | 28.58 | 20.24 + a |
|-------------|-------|-----------|

| | | |
|-------------------------------|-------|-----------|
| 17b) 3 Axle, 2 Axle Ready Mix | 28.68 | 20.24 + a |
|-------------------------------|-------|-----------|

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Project: Glastonbury High School Pool Upgrades

| | | |
|-----------------------|-------|-----------|
| 17c) 3 Axle Ready Mix | 28.73 | 20.24 + a |
|-----------------------|-------|-----------|

| | | |
|---|-------|-----------|
| 17d) 4 Axle, Heavy Duty Trailer up to 40 tons | 28.78 | 20.24 + a |
|---|-------|-----------|

| | | |
|-----------------------|-------|-----------|
| 17e) 4 Axle Ready Mix | 28.83 | 20.24 + a |
|-----------------------|-------|-----------|

| | | |
|--|-------|-----------|
| 17f) Heavy Duty Trailer (40 Tons and Over) | 29.03 | 20.24 + a |
|--|-------|-----------|

| | | |
|--|-------|-----------|
| 17g) Specialized Earth Moving Equipment (Other Than Conventional Type on-the-Road Trucks and Semi-Trailers, Including Euclids) | 28.83 | 20.24 + a |
|--|-------|-----------|

| | | |
|--|-------|-----------|
| 18) Sprinkler Fitter (Trade License required: F-1,2,3,4) | 41.37 | 20.37 + a |
|--|-------|-----------|

As of: Tuesday, November 17, 2015

Project: Glastonbury High School Pool Upgrades

| | | |
|---------------------------------|-------|------|
| 19) Theatrical Stage Journeyman | 25.76 | 7.34 |
|---------------------------------|-------|------|

Project: Glastonbury High School Pool Upgrades

Welders: Rate for craft to which welding is incidental.

**Note: Hazardous waste removal work receives additional \$1.25 per hour for truck drivers.*

***Note: Hazardous waste premium \$3.00 per hour over classified rate*

ALL Cranes: When crane operator is operating equipment that requires a fully licensed crane operator to operate he receives an extra \$2.00 premium in addition to the hourly wage rate and benefit contributions:

1) Crane handling or erecting structural steel or stone; hoisting engineer (2 drums or over)

2) Cranes (100 ton rate capacity and over) Bauer Drill/Caisson

3) Cranes (under 100 ton rated capacity)

Crane with 150 ft. boom (including jib) - \$1.50 extra

Crane with 200 ft. boom (including jib) - \$2.50 extra

Crane with 250 ft. boom (including jib) - \$5.00 extra

Crane with 300 ft. boom (including jib) - \$7.00 extra

Crane with 400 ft. boom (including jib) - \$10.00 extra

All classifications that indicate a percentage of the fringe benefits must be calculated at the percentage rate times the "base hourly rate".

Apprentices duly registered under the Commissioner of Labor's regulations on "Work Training Standards for Apprenticeship and Training Programs" Section 31-51-d-1 to 12, are allowed to be paid the appropriate percentage of the prevailing journeymen hourly base and the full fringe benefit rate, providing the work site ratio shall not be less than one full-time journeyman instructing and supervising the work of each apprentice in a specific trade.

The Prevailing wage rates applicable to this project are subject to annual adjustments each July 1st for the duration of the project.

Each contractor shall pay the annual adjusted prevailing wage rate that is in effect each July 1st, as posted by the Department of Labor.

It is the contractor's responsibility to obtain the annual adjusted prevailing wage rate increases directly from the Department of Labor's website.

The annual adjustments will be posted on the Department of Labor's Web page: www.ct.gov/dol. For those without internet access, please contact the division listed below.

The Department of Labor will continue to issue the initial prevailing wage rate schedule to the Contracting Agency for the project.

All subsequent annual adjustments will be posted on our Web Site for contractor access.

Contracting Agencies are under no obligation pursuant to State labor law to pay any increase due to the annual adjustment provision.

As of: Tuesday, November 17, 2015

Project: Glastonbury High School Pool Upgrades

Effective October 1, 2005 - Public Act 05-50: any person performing the work of any mechanic, laborer, or worker shall be paid prevailing wage

All Person who perform work ON SITE must be paid prevailing wage for the appropriate mechanic, laborer, or worker classification.

All certified payrolls must list the hours worked and wages paid to All Persons who perform work ON SITE regardless of their ownership i.e.: (Owners, Corporate Officers, LLC Members, Independent Contractors, et. al)

Reporting and payment of wages is required regardless of any contractual relationship alleged to exist between the contractor and such person.

~~Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clause (29 CFR 5.5 (a) (1) (ii)).

Please direct any questions which you may have pertaining to classification of work and payment of prevailing wages to the Wage and Workplace Standards Division, telephone (860)263-6790.

As of: Tuesday, November 17, 2015

Specifications for:

Glastonbury High School Piping Replacement

Addison Park

Prepared for:

Town of Glastonbury

2155 Main Street
Glastonbury, CT 06033

Prepared by:

Architect:

Bargmann Hendrie + Archetype, Inc.

300 A Street
Boston, MA 02210
617 - 350 - 0450 TEL.

November 17, 2015

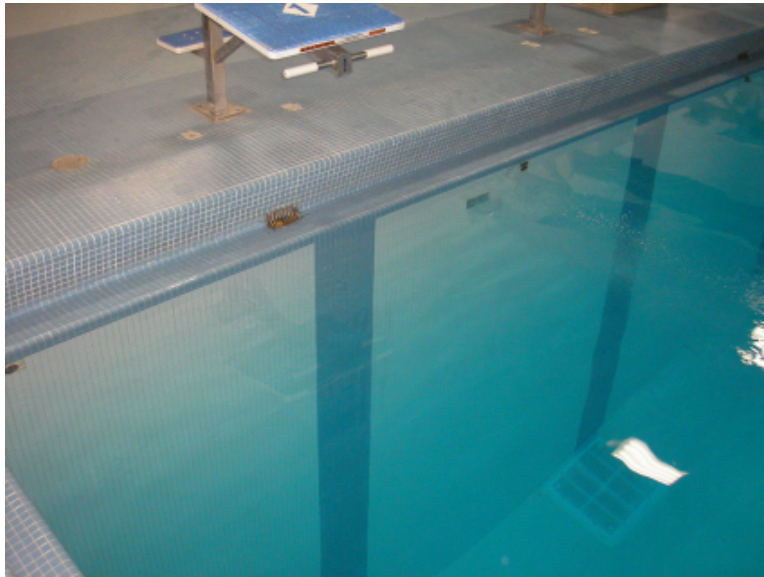


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| Section 131500- General Provisions for Swimming Pools | 2 pages |
| Section 131510- Pool Recirculation Piping and Appurtenances | 4 pages |
| Section 131520- Pool Structure | 5 pages |
| Section 131530- Pool Deck Equipment | 2 pages |

Drawing List

D102 – Demolition Plan
A100- New Work

Glastonbury High School Pool Piping Replacement
Glastonbury, CT

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SECTION 010100- SUMMARY OF WORK

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 WORK COVERED BY CONTRACT DOCUMENTS

- A. The Project consists of replacing the existing circulation piping, pool fittings, and associated repairs to the indoor pool.
 - 1. Project Location: Glastonbury High School, Glastonbury, CT.
- B. Contract Documents, we prepared for the Project by Bargmann Hendrie + Archetype, Inc., 300 A Street, Boston, MA.

1.3 SCOPE OF WORK

- A. Pool work under this contract includes, but is not limited to the following:
 - 1. Removal, salvage, relocation, and refurbishment of components indicated.
 - 2. Removal of existing gutter drains including through wall piping
 - 3. Removal of existing return water outlets
 - 4. Removal of abandoned floor supply outlet
 - 5. New swimming pool all piping required for a complete assembly including valves at new connection points to allow for isolation of piping.
 - 6. New connections to existing filter system supply and return
 - 7. Repair/restoration of existing pool structure
 - 8. Repair/restoration of pool tile
 - 9. Regrout Vertical Pool Walls
 - 10. Remove existing and provide new lane line anchors
 - 11. Remove and replace broken and cracked deck tiles indicated. Work also includes an area of 15 SQ.
 - 12. Remove and replace existing pool ladder assist ladders.

1.4 CONTRACTOR USE OF PREMISES

- A. General: During the construction period the Contractor shall have full use of the pool area for construction operations. The Contractor's use of the premises is limited only by the Owner's right to perform work or to retain other contractors on portions of the pool complex.
- B. Limit use of the premises to work in areas indicated. Do not disturb portions of the site beyond the areas in which the Work is indicated.

C. Temporary Facilities:

1. The Owner will designate toilet facilities within the pool building for use by the Contractor. Contractor shall maintain the facilities in good working order.
2. Contractor shall provide on-site superintendent with cellular phone service and the use of a digital camera.
3. Existing building power and water may be used by the Contractor. If additional power or voltage required to operated equipment; Contractor shall be responsible for providing this power.
4. Owner will drain pool down for the work and provide the water and chemicals required for start-up. Contractor shall recommend chemicals required to achieve proper water balance.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 01010

SECTION 131500– GENERAL PROVISIONS FOR SWIMMING POOLS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SCOPE:

- A. Pool work under this contract includes, but is not limited to the following:
 1. Removal, salvage, relocation, and refurbishment of components indicated.
 2. Removal of existing gutter drains including through wall piping
 3. Removal of existing return water outlets
 4. Removal of abandoned floor supply outlet
 5. New swimming pool all piping required for a complete assembly including valves at new connection points to allow for isolation of piping.
 6. New connections to existing filter system supply and return
 7. Repair/restoration of existing pool structure
 8. Repair/restoration of pool tile
 9. Regrout Vertical Pool Walls
 10. Remove existing and provide new lane line anchors
 11. Remove and replace broken and cracked deck tiles indicated. Work also includes an area of 15 SQ.
 12. Remove and replace existing pool ladder assist ladders

1.3 SUBMITTALS

- A. Refer requirements specified in Sections 131510 and 131520.
- B. Qualification Data specified in Quality Assurance Article of this Section.

1.4 POOL CONTRACTOR'S QUALIFICATIONS

- A. Pool Contractor shall, upon request, show five (5) pool projects similar in scope to this project completed in the last five (5) years, which upon investigation shall be found satisfactory.
- B. The Pool Contractor's superintendent and crews shall have spent the last five (5) years actively and continually in the business of swimming pool repairs, construction and maintenance.
- C. Due to the specialized nature of the specified work and products, all Swimming Pool contractor shall be required to have a minimum of five (5) years of operating history. The Swimming Pool Contractor must normally perform swimming pool repairs, construction and maintenance with his own employees.

- D. The Swimming Pool Contractor must maintain an in-house service organization to provide post-construction service and consultation. It must be completely staffed with people knowledgeable in the areas of pool and equipment operation and maintenance, and have a demonstrable expertise in the area of pool water chemistry. He must maintain an inventory of commonly needed spare parts.
 - E. The Swimming Pool Contractor shall furnish complete evidence that he has the facilities, equipment, personnel and financial capability to complete all phases of this section.
 - F. The Owner and Architect reserves the right to reject any swimming pool contractor if the evidence submitted by or investigated of, such pool contractor fails to satisfy the Owner and Architect that such pool contractor is properly qualified to carry out the obligations of the contract and to complete the work described, or if the Contractor does not meet the qualifications stated herein.
 - G. Other requirements pertaining to Equipment Quality Assurance are specified in Sections 131510 and 131520.
- 1.5 DELIVERY STORAGE & HANDLING, PROJECT CONDITIONS, WARRANTY, AND EXTRA MATERIALS
- A. Refer requirements specified in Sections 131510 and 131520.

PART 2 - PRODUCTS

- 2.1 REFER TO REQUIREMENTS SPECIFIED IN SECTIONS 131510 AND 131520.

PART 3 - EXECUTION

- 3.1 REFER TO REQUIREMENTS SPECIFIED IN SECTIONS 131510 AND 131520.

END OF SECTION 13150

SECTION 131510 - POOL RECIRCULATION PIPING AND APPURTENANCES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Provide all swimming pool piping and equipment necessary for a complete installation.
 - 1. Selective demolition, salvage, and relocation of the following:
 - 2. New piping between swimming pool and filtration equipment.
 - 3. New gutter drains
 - 4. New return water inlets
 - 5. New connections to existing filtration system including isolation valves.
 - 6. All piping, valves, fittings, and appurtenances required for a complete installation.
 - 7. Piping labels on all piping
 - 8. Appurtenances

1.3 REFERENCES

- A. NSF: National Sanitation Foundation
- B. NSPI: National Spa & Pool Institute
- C. ANSI: American National Standards
- D. ASTM: American Society for Testing & Materials
 - 1. ASTM C-581
 - 2. ASTM Specification D- 2150
- E. NEC: National Electric Code (NFPA 70)
- F. UL: Underwriters Laboratories

1.4 PROPRIETARY NAMES

- A. Due to the specialized nature of certain components required for this project, these specifications, in some instances, refer to various components by trade or manufacturers name.
- B. Whenever a proprietary (trade) name is used within this Specification Section, it is used for informational purposes to describe a standard of required function, dimension, appearance and quality. References to materials by trade name, make or model number shall not be construed as limiting competition. The Contractor may at his option, elect to use the products and/or

services of alternate manufacturers. Contractor shall submit appropriate information requesting alterante products as follows:

1.5 SUBMITTALS

- A. Product Data: Provide product data for the following:
 - 1. Piping, valves, and piping appurtenances
 - 2. Pool fittings, hangers and supports
 - 3. Miscellaneous accessories required for a complete installation

1.6 WARRANTIES

- A. Unless otherwise specified, workmanship is to be guaranteed first class and carry a one (1) year warranty.

PART 2 - PRODUCTS

2.1 POOL PIPING

- A. Piping: The piping which connects recirculation piping to the pool shall be polyvinyl chloride (PVC) piping, Schedule 80, Class 200, with matching fittings.
- B. Pipe Fittings: Wherever plastic pipe is used, all fitting shall be heavy weight Class 200 , of the same manufacturer as PVC pipe used by the Pool Contractor. Provide hangers or stands where required.

2.2 VALVES

- A. Small Valves: Valves up to and including two (2) inches in size shall be Gate Valves, all brass with treaded ends for ferrous pipe. They shall be 125 lb. non-rising stem type.
- B. Large Valves: Valves three (3) inches and larger shall be iron-body bronze mounted, and shall conform to AWWA Standard C-500. Valves shall have a flanged or mechanical joints ends as required for the piping in which they are installed. Valves shall be designed for a minimum water working pressure of 125 lb. per square inch.

2.3 POOL FITTINGS

- A. Pool fittings are available through the following manufacturers:
 - 1. Standard Bronze
 - 2. Hayward
 - 3. Pentair
 - 4. Sta-Rite Pool/Spa Products
 - 5. Or approved equal
- B. Filtered Water Return Fittings

1. Basis of Design: Pentair Products: 542423 & 540028
 - a. Provide 2 inch slip body for Schedule 40 PVC, white. Provide 1 1/2inch threaded directional eyeball fitting , 1 inch opening white .
- C. Gutter Drains: Cast Bronze drain and grate sized to match existing.
 1. Basis of Design; Standard Bronze Company. www.standardbronze.com
 2. 2-inch outlet.

2.4 MISCELLANEOUS MATERIALS

- A. Piping Labels: Pressure sensitive vinyl markers complying with OSHA and ANSI specifications for background and colors. Provide Seton Opti-Code Pipe Markers, or approved equal. Provide labels in size required for piping. Color code label types using white letters on green, red, yellow, and blue fields. Text with directional arrows may include:
 1. Filtered Water
 2. Suction

PART 3 - EXECUTION

3.1 PIPING AND VALVES

- A. The Contractor shall furnish and install new piping and fittings as shown on the project drawings and contractor shop drawings.
- B. Piping arrangement shall be in accordance with the drawings.

3.2 INSTALLATION OF PIPING

- A. Pipe openings shall be closed with caps or plugs during installation. Equipment and pool fittings shall be tightly covered and projected against dirt, water and chemicals or mechanical injury. At the completion of the work, the fittings, materials and equipment shall be thoroughly cleaned and adjusted for proper operation.
- B. Handling: Pipe and accessories shall be handled in such a manner as to insure delivery to the trench in sound, undamaged condition.
- C. Cutting of Pipe: Shall be done in a neat and workmanlike manner without damage to the pipe. Cutting shall be done by means of mechanical cutter.
- D. Placing and Laying: Before installation, pipe shall be inspected for defects. The interior of the pipe shall be thoroughly cleaned of foreign matter and shall be kept clean during layout operation. When work is not in progress, open ends of pipe and fittings shall be securely closed so that no substance will enter the pipes or fittings.
- E. Threaded Joints: After cutting and before threading pipe shall be reamed and shall have burrs removed. Screw joints shall be made with graphite inert filler and oil or with an approved

graphite compound applied to male threads only. Threads shall be full-cut and not more than three threads on the pipe remain exposed. Caulking of threaded joints to stop or prevent leaks will not be permitted. Unions will be permitted where access is provided.

- F. Solvent Welded Joints: Shall be made in accordance with the manufacturer's recommendations. However, the following directions are considered when applying cement. The outer surface area of pipe and inner wall of fitting shall be clean and dry. Thinner is to be applied to the outer surface of the pipe and to the inner surface of the fitting.
1. Cement is to be applied to the outer surface of the pipe, or on the male sections of the fittings only. When the outside surface are of the pipe is satisfactorily covered with cement, allow ten seconds open time to elapse before inserting pipe end into fitting. After full insertion of pipe into fitting, turn fitting about the pipe end approximately 1/8 to 1/4 turn. Wipe off excess cement at the joint in a cove bead. Use only approved cement and thinners for making joints.
 2. All joints shall remain completely undisturbed for a minimum of ten minutes from time of joining the pipe and fitting. If necessary to apply pressure to newly made joint, limit to 10% of rated pipe pressure, four hours after joining. Do not exceed this level for the first 24 hours after the joints has been made.
 3. Carefully handle all pipe and move as little as possible for 24 hours after joining.
 4. Protect plastic pipe from exposure to aromatic hydrocarbons, halogenated hydrocarbons, esters and ketones that attack the material. Protect pipe from mechanical damage and long exposure to sunlight during storage.
- G. Testing: After piping is laid, the joints completed leaving joints exposed for examination, the newly laid line shall be subjected to a hydrostatic pressure for a period of two hours.
1. A water test shall be applied to a gravity drain piping systems, either in their entirety or in sections. All openings shall be tightly plugged and each system filled with water and tested with at least a 10 foot head of water. The water shall be kept in the system, or in the portion under test for at least 15 minutes before the inspection starts. The system shall then be proved tight at all joints.

3.3 POOL FILLING

- A. Contractor shall work with Owner to coordinate pool and filling including dosing of pool until proper water balance and temperature is established..
- B. Upon completion of the installation coordinate with the Owner to chlorinate, acidulate, and properly balance the pH content of the water. Initial water balance shall be as follows:
- | | |
|---------------------|---------------|
| 1. pH | 7.5 - 7.16 |
| 2. alkalinity | 80 - 120 PPM |
| 3. calcium hardness | 200 - 350 PPM |
| 4. chlorine | 1.0 PPM |

3.4 MISCELLANEOUS FILTER ROOM EQUIPMENT

- A. Install stainl piping labels according to manufacturer's recommendations.

END OF SECTION 131510

SECTION 131520- POOL STRUCTURE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SCOPE OF WORK:

- A. Pool repair work includes:
 1. Remove section of pool tile and structure to accommodate removal of gutter drain and filtered water supply fittings.
 2. Restoration/Reconstruction of pool structure
 3. Restore pool tile at removed areas
 4. Clean and RegROUT Vertical Walls of Pool

1.3 DEFINITIONS

- A. Remove: Detach items from existing construction and legally dispose of them off-site, unless indicated to be removed and salvaged or removed and reinstalled.
- B. Remove and Salvage: Detach items from existing construction and deliver them to Owner.
- C. Remove and Reinstall: Detach items from existing construction, prepare them for reuse, and reinstall them where indicated.
- D. Existing to Remain: Existing items of construction that are not to be removed and that are not otherwise indicated to be removed, removed and salvaged, or removed and reinstalled.

1.4 SUBMITTALS

- A. Pool Tank Repair: Submit product data for each
- B. Tile: Submit product data and samples of pool tile.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver cementitious materials to site in manufacturer's standard packages. Immediately upon delivery to site, store in waterproof area. No cementitious or other material that has become caked or hardened will be permitted in the work.
- B. All materials shall be adequately protected during construction.

- C. Tile and finishes shall be protected from dirt that might be blown onto the fresh surfaces, using canvas, or other covering so to protect the surfaces until they have set.

1.6 WARRANTIES

- A. Provide a five (5) year warranty covering 100% repair of any defects, cracks, in the tile of the pool.

PART 2 - PRODUCTS

2.1 POOL AND FLOOR TILE

- A. Ceramic Mosaic Tile: Standard grade, unglazed and glazed conforming to ANSI A137.1, certified by manufacturer for pool use. Provide glazed tile to match existing glazed tile.
- B. Size: 1 by 1 , 2 by 1, and 2 by 2 inch to match existing patterns. Nominal thickness is 1/4 inch. Provide bullnose, cone and special shapes to match existing.
- C. Provide full range of colors contained in price groups 1 through 6 required to match existing. Colors shall be selected by Architect.
- D. Acceptable manufacturers: American Olean Tile Company, Dal-Tile Corporation, United States Tile Company, or approved equal.

2.2 MORTAR AND GROUT FOR TILE

- A. All materials in accordance with Tile Council of America (TCA) installation system P601-Swimming Pools.
- B. Portland Cement: ASTM C-150, Type 1.
- C. Sand: ASTM C-144.
- D. Lime: ASTM C-206 Type S or ASTM C-207 Type S.
- E. Water: Potable.
- F. Scratch Coat and Mortar Bed (Pool Walls and Gutter) : 1 part Portland cement, 1/2 part lime, and 4 parts dry sand or 5 parts damp sand.
- G. Bond Coat: Latex modified Portland cement mortar for pools.
- H. Pool Grout: Latex modified Portland cement mortar, ANSI A118.6. color shall be white.

2.3 REPAIR MATERIAL FOR TANK

- A. Cement Grout: Where required, use mixture of Portland cement and fine aggregates. Mixture shall non-metallic, non-shrink, and prepackaged mixture.
- B. Product: Sika Grout 212 as manufactured by Sika Corporation or equal. Mixing shall be done in accordance with manufacturers guidelines.

2.4 HYDROPHILIC WATERPROOFING

- A. Provide hydrophilic rubber waterstop as supplied by Greenstreak, HYDROTITE profile style number RSS-1006 D or equal.
- B. The waterstop shall be a combination of chloroprene rubber and chloroprene rubber modified to impart hydrophilic properties.
- C. The waterstop shall have a delay coating to inhibit initial expansion due to moisture present in fresh concrete.

PART 3 - EXECUTION

3.1 SELECTIVE DEMOLITION, GENERAL

- A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:
 - 1. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping, to minimize disturbance of adjacent surfaces. Temporarily cover openings to remain.
 - 2. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
 - 3. Dispose of demolished items and materials promptly.
- B. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by Architect, items may be removed to a suitable, protected storage location during selective demolition and cleaned and reinstalled in their original locations after selective demolition operations are complete.

3.2 SELECTIVE DEMOLITION PROCEDURES FOR SPECIFIC MATERIALS

- A. Concrete: Demolish in small sections. Cut concrete to a depth of at least **3/4 inch (19 mm)** at junctures with construction to remain, using power-driven saw. Dislodge concrete from reinforcement at perimeter of areas being demolished, cut reinforcement, and then remove remainder of concrete indicated for selective demolition. Neatly trim openings to dimensions indicated.

3.3 DISPOSAL OF DEMOLISHED MATERIALS

- A. General: Except for items or materials indicated to be reused, salvaged, reinstalled, or otherwise indicated to remain Owner's property, remove demolished materials from Project site and legally dispose of them in an EPA-approved landfill.

3.4 WATERSTOP INSTALLATION

- A. Cut coil ends square with shears or sharp blade to fit splices together without overlaps.
- B. Splices shall be sealed using cyanacrylate adhesive.
- C. Seal watertight any exposed cells of HYDROTITE using LEAKMASTER.
- D. Follow approved manufacturer recommendations.

3.5 REPAIR MATERIAL

- A. Install horizontal patching material in accordance to manufacturer's recommendation.
- B. Install vertical and overhead patching material in multiple lifts in accordance to manufacturer's recommendation.

3.6 TILE INSTALLATION, GENERAL

- A. Tile Blending: For tile exhibiting color variations within the ranges selected during sample submittals, verify that tile has been blended in factory and packaged accordingly so that tile units taken from one package show the same range in colors as those taken from other packages and match approved samples.
- B. ANSI Tile Installation Standard: Comply with parts of ANSI 108 series of tile installation standards included under "American National Standard Specifications for the Installation of Ceramic Tile" that apply to type of setting and grouting materials and methods indicated.
- C. TCA Installation Guidelines: TCA "Handbook for Ceramic Tile Installation method p-60l.
- D. Grout tile to comply with the requirements of ANSI A108.10.

3.7 CLEANING AND REGROUTING

- A. Pool and the pool decks shall be cleaned and regROUTED.
- B. Note that in the pool, all of the cleaning compounds, cleaning acid and rinse water used for the work must be pumped out of the bottom of the pool and out of the scum gutters, and discharged into the sanitary drains. Solid waste shall be prevented from going to the building drain lines and shall be properly disposed of separately. All pool bottom drains and overflow gutter drains shall be plugged throughout the execution of the work.

- C. Cleaning
 - 1. Use strong detergent and stiff brushes to scrub each pool and completely remove all oily deposits. Rinse thoroughly and dispose of water.
 - 2. Use a mild acid solution and stiff brushes to scrub each pool again. Remove all loose material from all joints. Remove sound material from joints, sufficient to provide space for new grouting. Depth shall be at least 1/8-in. Rinse thoroughly to completely neutralize the acid cleaner. Pump out and properly dispose of all cleaner, water and debris from joints.
 - 3. Using suitable means, remove grout not removed by the above method, wherever grout patches prevent new installation.

- D. Re-grout with materials and methods specified and approved.

END OF SECTION 13151

Glastonbury High School Pool Piping Replacement
Glastonbury, CT

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SECTION 13152 - SWIMMING POOL DECK EQUIPMENT

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SCOPE OF WORK

- A. Furnish and install deck equipment and anchorages as specified work includes:
 1. New ladder assist railings
 2. Recessed racing line anchors
 3. Connect anchors to common bonding grid of pool

1.3 SUBMITTALS

- A. Product Data: Within 15 calendar days after the Contractor has received the Owner's Notice to Proceed, submit:
- B. Shop drawings of railings in sufficient detail to show design criteria, fabrication, installation, anchorage, and the interference of the work of this Section with the work of adjacent trades.

1.4 GUARANTEES

- A. Manufacturers shall provide their standard guarantees for work under this section. However, such guarantees shall be in addition to and not in lieu of all other liabilities, which manufacturers and Contractor may have by law or by other provisions of the Contract Documents.

PART 2 - PRODUCTS

2.1 GENERAL

- A. General: Equipment is based on a specific manufacturer's model to establish standard of quality and shall not limit the use of other manufacturers' products.
- B. Acceptable Manufacturers of Deck and Safety Equipment:
 1. Paragon Aquatics, Website: <http://www.paragonaquatics.com>
 2. S.R. Smith Inc. Website <http://www.srsmith.com>.
 3. Spectrum Pool Products, Website: <http://www.spectrumproducts.com>.
 4. Recreonics, Inc. Website <http://www.recreonics.com>.
 5. Lincoln Equipment, Inc., Website <http://www.lincolnaquatic.com>.

6. Standard Bronze Company Website: <http://www.standardbronzeco.com>.
7. or approved equal.

2.2 Deck Equipment

- A. Lane Line Anchors: Recessed, 4 inch square, 3/8 inch stainless steel cross bar meeting YMCA specifications. Standard Bronze number 5454, or equal.
- B. Grab Rails at Recessed Ladder: KDI Paragon "Figure 4" Style, ID No. 30102
- C. Escutcheon Covers For Grab Rails: KDI Paragon ID No. 28301, "Deluxe" style; satin chrome plated bronze casting.

PART 3 - EXECUTION

3.1 INSPECTION

- A. The Swimming Pool Subcontractor shall examine all work prepared by others which is to receive the work of this Section and shall report any noted defects effecting this work of this Section to the Architect.

3.2 INSTALLING EQUIPMENT

- A. For equipment specified in this Section, install in strict accordance with the manufacturer's recommendations, anchoring firmly into position.
- B. Verify that each item is properly installed and properly operating. Make required adjustments to achieve optimum operation.
- C. Bond all metal components according to the National Electric Code (NEC).

END OF SECTION 131530

POOL PIPING GENERAL NOTES

The new piping is the same size as the existing steel in PVC. It is the intent of the work to reuse the existing cast in place dovetail slot hanger locations with new pipe hangers; contractor may reuse existing hangers that are in good condition.

BONDING
All new metal components within the pool must be tied back to the existing pool structures common bonding grid

DEMOLITION NOTES

- D10 Remove existing tile and sufficient amount of pool structure to remove the existing bronze drain outlet and steel piping within the pool structure. Typical for 20 Locations.
- D20 Remove existing tile and sufficient amount of pool structure to remove the existing steel/PVC filtered water return inlets and steel piping within the pool structure. Typical for 16 locations.
- D30 Remove existing tile and sufficient amount of pool structure to remove the abandoned vacuum fitting and steel piping within the pool structure. Typical for 2 locations.
- D40 Remove existing steel gutter drain, filtered water return, and former vacuum piping. Existing hanger system may be used; salvaging of hanger assembly is at the contractor's discretion.
- D50 Remove existing tile and sufficient amount of pool structure to remove abandoned floor filtered water return and cut steel pipe a minimum of 2 inches below concrete surface.
- D60 Remove existing piping and valve protruding from floor. Fill former supply to floor returns with grout. Provide permanent cap at top of pipe.

ARCHITECT

bh+a
Bargmann Hendrie + Archetype, Inc.
300 A Street
Boston, MA 02210
617 350-0450 Tel

PROJECT NAME

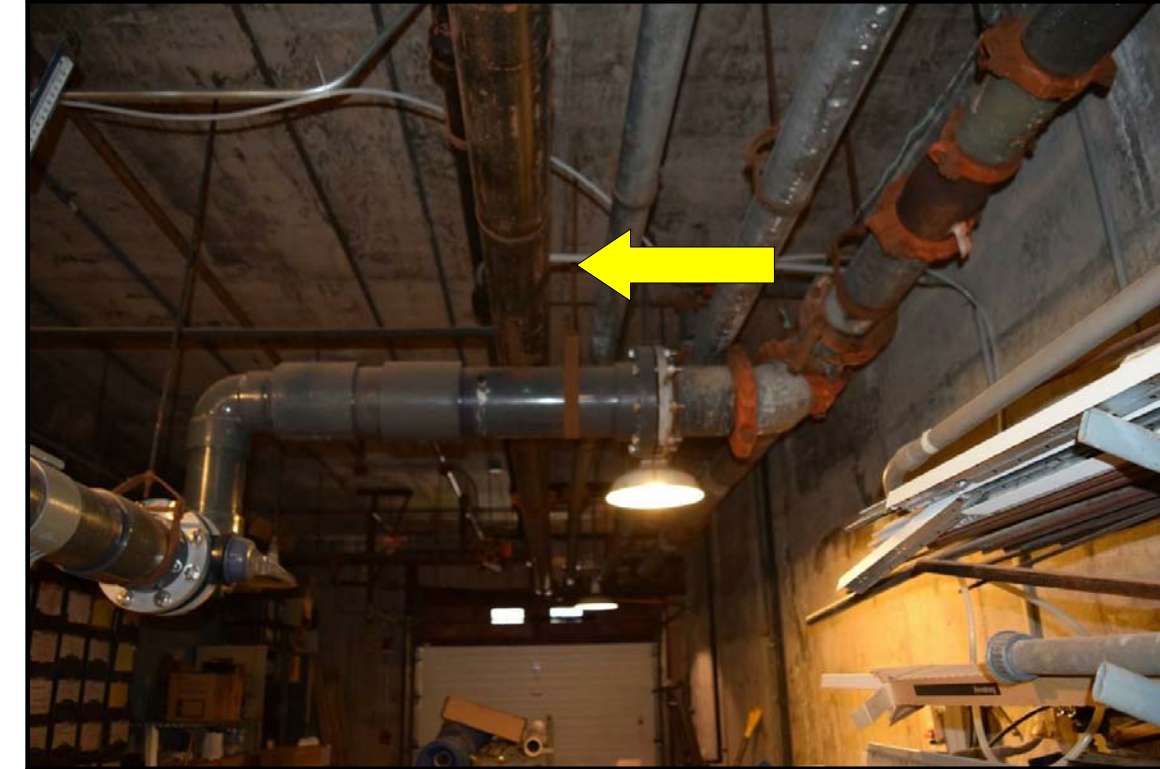
Glastonbury High School Pool Piping Repair

CLIENT

Town Of Glastonbury

PROJECT TEAM

CONNECTION POINT TO FILTER SYSTEM



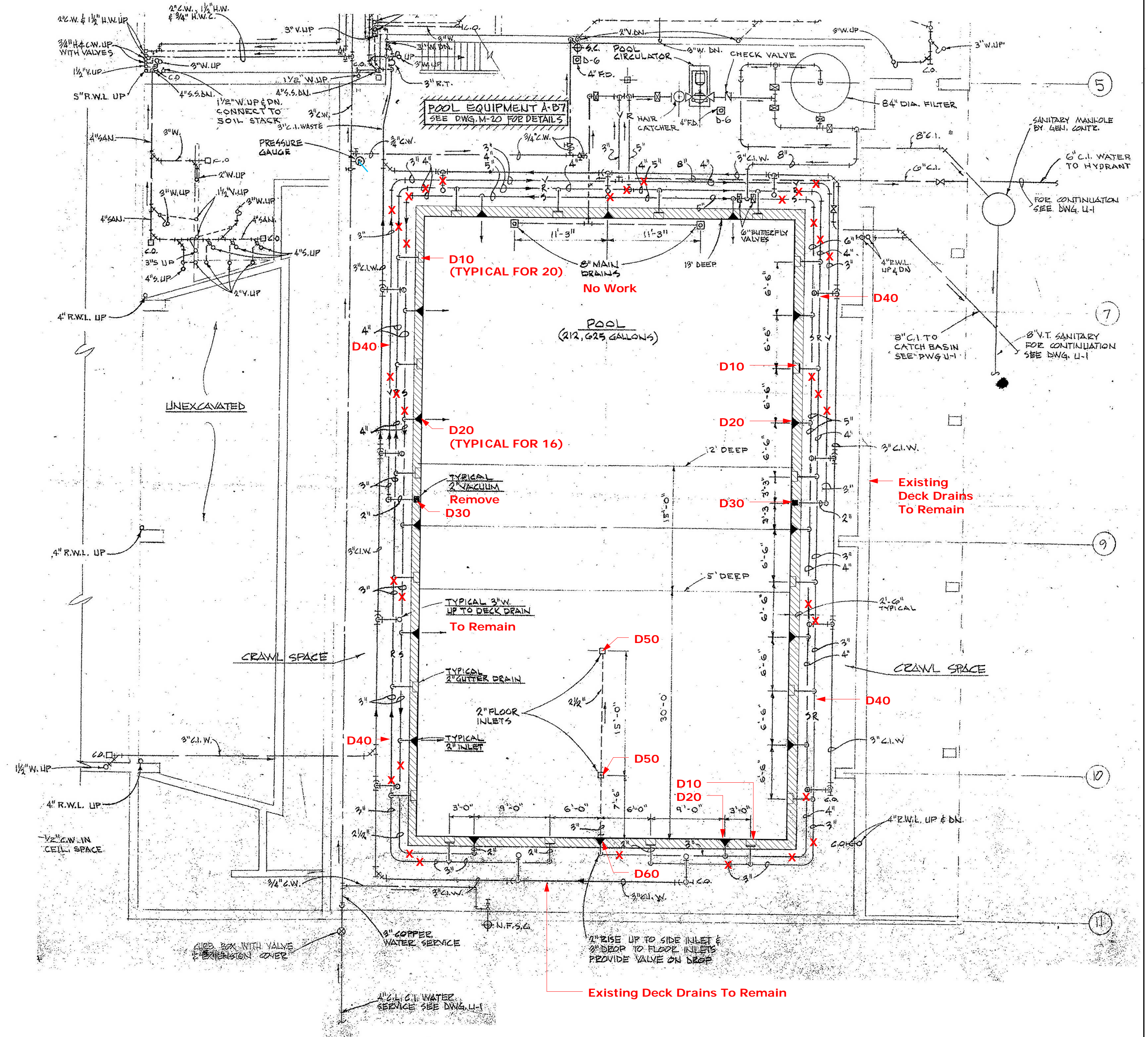
TYPICAL FILTERED WATER RETURN PIPING



KEYED NOTE D60: FORMER FILTERED WATER RETURN TO ABANDONED FLOOR RETURNS



TYPICAL EXISTING GUTTER DRAIN PIPING



1 FIRST FLOOR PLUMBING DEMOLITION PLAN
1/8" = 1'-0"

REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
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DRAWING TITLE

Demolition Plan

DRAWING INFORMATION

| | |
|---------------|-------------------|
| DATE OF ISSUE | November 17, 2015 |
| DESCRIPTION | As Indicated |
| SCALE | JWP |
| DRAWN BY | GlastonburyHS.mt |
| PROJECT # | FILE NAME |

DRAWING NUMBER

D102

REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
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DRAWING TITLE

New Work

DRAWING INFORMATION

November 17, 2015
 DATE OF ISSUE

DESCRIPTION
 As Indicated
 SCALE
 PROJECT #
 JWP
 DRAWN BY
 GlastonburyHS.rvt
 FILE NAME

DRAWING NUMBER

A100

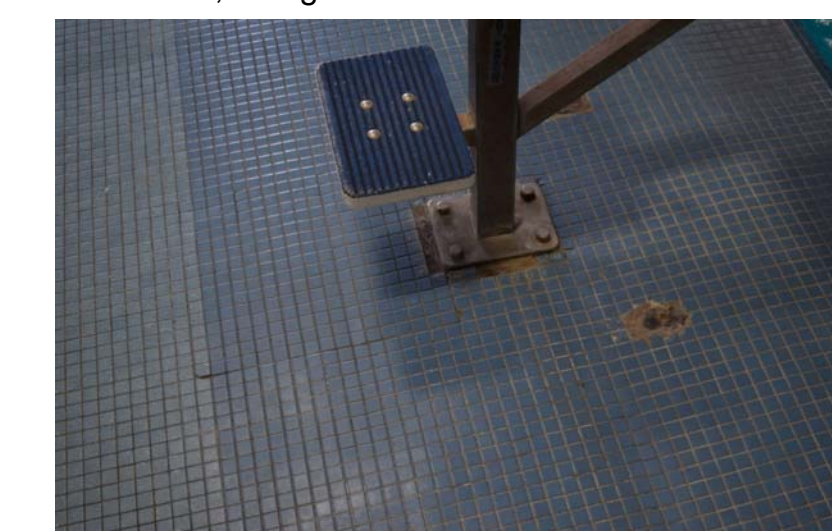
POOL PIPING GENERAL NOTES

The new piping is the same size as the existing steel in PVC. It is the intent of the work to reuse the existing cast in place dovetail slot hanger locations with new pipe hangers; contractor may reuse existing hangers that are in good condition.

BONDING
 All new metal components within the pool must be tied back to the existing pool structures common bonding grid

KEYED NOTES NEW WORK

- 13.1 Provide new gutter drain outlet fitting and piping connection through pool wall. Piping shall be PVC.
 - a. Pack annular ring of piping within wall with a hydrophilic waterstop material.
 - b. Provide concrete repair material to create solid structure around new piping.
 - c. Restore pool tile with new to match existing pattern and color.
- 13.2 Provide new filtered water return inlet fitting and piping connection through pool wall. Piping shall be PVC.
 - a. Pack annular ring of piping within wall with a hydrophilic waterstop material.
 - b. Provide concrete repair material to create solid structure around new piping.
 - c. Restore pool tile with new to match existing pattern and color.
- 13.3 Clean exposed edge of cut pipe and prime with an epoxy based steel primer.
 - a. Pack existing pipe with grout to seal.
 - b. Rebuild pool structure with concrete repair material
 - c. Restore pool tile with new to match existing pattern and color.
- 13.4 New racing line anchors (14 total).
- 13.5 Remove broken tiles, provide new tiles and grout in areas around drains (assume 15 sq. ft total area on deck to be field verified).
- 13.6 Remove broken tiles at racing platform base; provide new and grout (6 locations)
 Remove broken tiles around cast in place anchors (12 at deep end of pool), replace with cut tiles tight to the anchor, and grout.



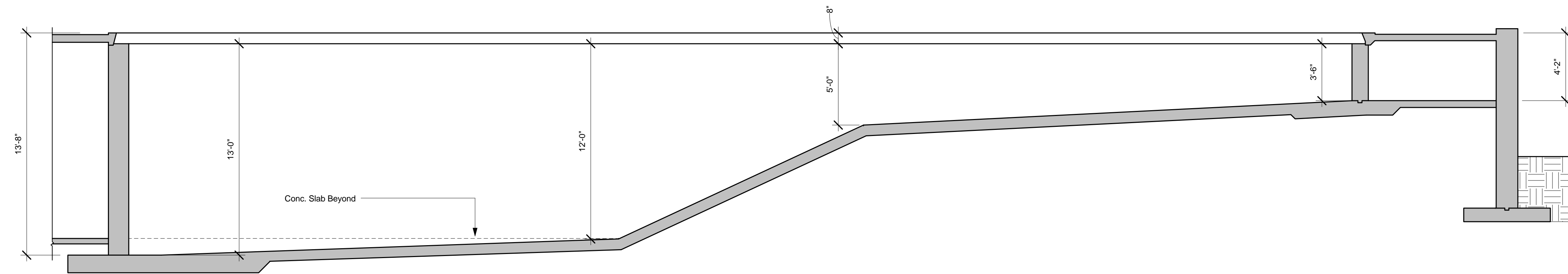
13.6.1 Remove broken tiles around cast in place anchors (12 at shallow end of pool), replace with cut tiles tight to the anchor, and grout.



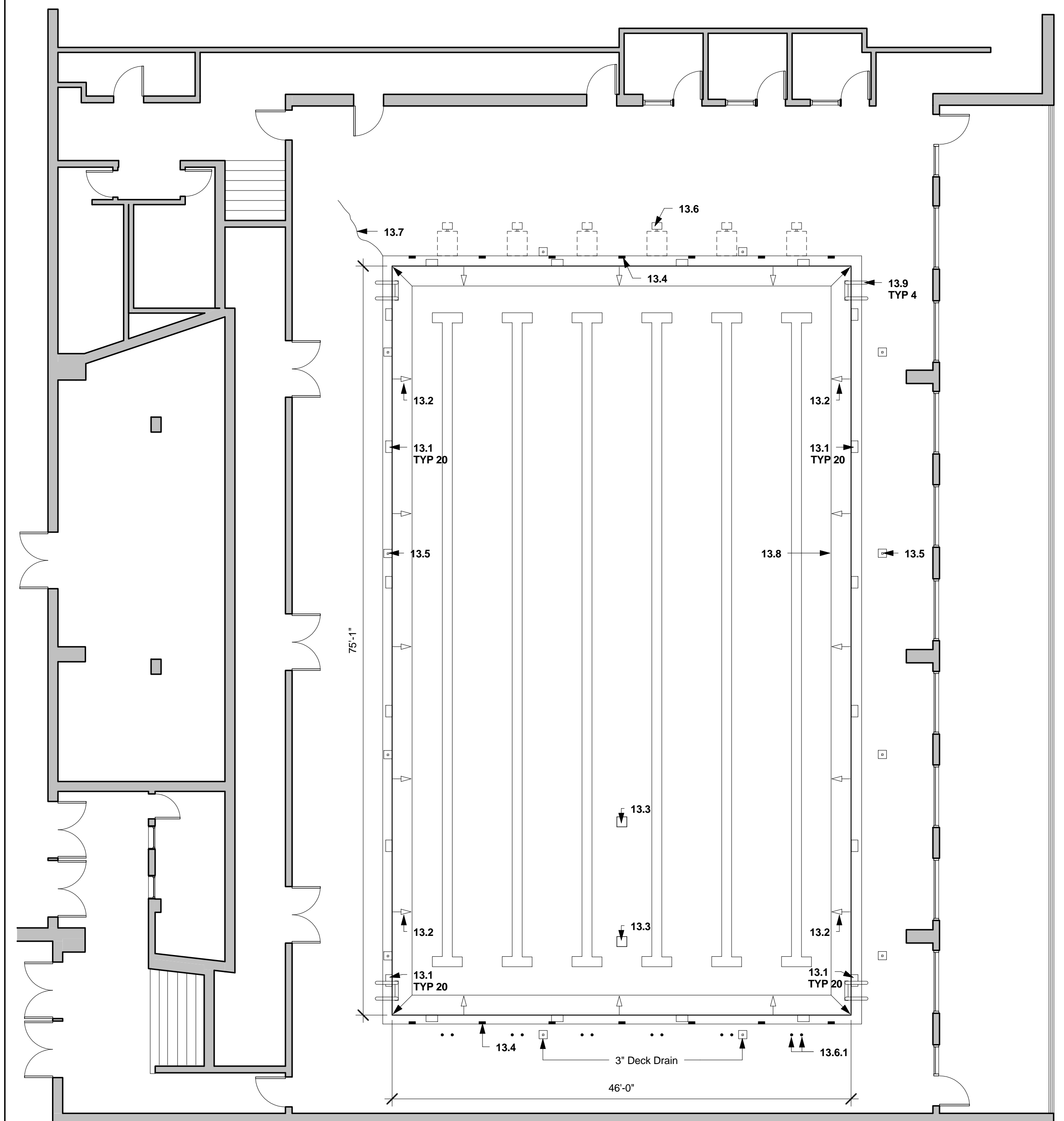
13.7 Remove broken tile along length of crack, repair cracked mortar bed, remove loose material;

13.8 Regrout vertical walls of pool, all 4 sides.

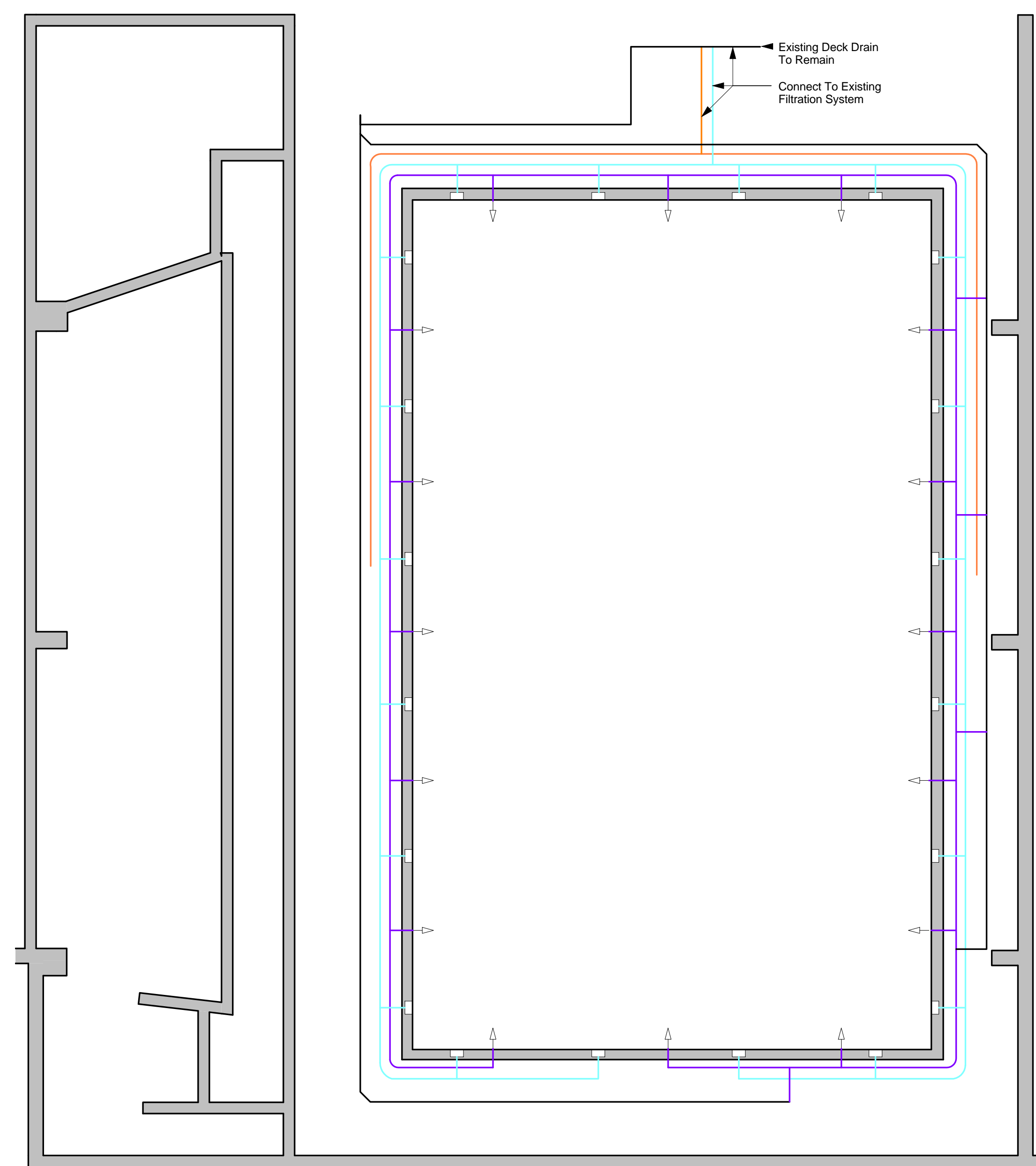
13.9 Remove existing assist rails; provide new in configuration to match existing; remove tile anchor socket, replace with cut tiles tight to the socket, and grout.



3 Existing Section At Pool
 1/4" = 1'-0"



1 FLOOR PLAN
 1/8" = 1'-0"



2 LOWER LEVEL PLAN
 1/8" = 1'-0"