TOWN OF DELHI
DELAWARE COUNTY, NEW YORK
5 Elm Street, Delhi, NY, 13753
607-746-8696

Request for Proposal Construction Services for the Delhi Pool Deck Extension

RFP Title:	**Delhi Pool Deck Extension**
ISSUER OF RFP:	**Town of Delhi** **Delaware County, New York** 5 Elm Street, Delhi, NY, 13753 607-746-8696
GOAL OF THE RFP:	The Town of Delhi is seeking proposals for the construction of additional concrete decking around the existing swimming pool.
DATE OF ISSUANCE:	January 10, 2022
COPIES AVAILABLE:	Prospective Bidders wishing copies of the RFP Documents (Bid Documents) should contact the Town Clerk's office at 607-746-3737 between the hours of 8:00am – 3:00pm, Monday through Friday. The Town of Delhi will mail and post to the website any addenda or written interpretations that it deems necessary. Bidders may not rely upon oral communications or interpretations from the Town of Delhi and the Town of Delhi shall not be bound by them.
BID DUE DATE:	Must be received on or before 3:00 p.m. February 14, 2022
PROJECT BUDGET:	$30,000
PROJECT TIMING:	Anticipated Award Date: February 14, 2022 Anticipated Date to Begin Construction: as soon as possible after awarded Site work completion by May 15, 2022
COPIES REQUIRED:	Number of copies required (6): Five (5) marked "Copies," with one (1) marked "Original."
SUBMIT TO:	Elsa Schmitz, Town Clerk Town of Delhi 5 Elm Street, Delhi, NY 13753

This is a formal request for bids. This is not an offer by The Town of Delhi to contract with any party responding to this request.
The Town of Delhi reserves the right to reject any and all proposals.
The Town of Delhi is an Equal Opportunity and Affirmative Action Employer

TOWN OF DELHI POOL DECK EXTENSION

PURPOSE: To secure qualified proposals for the construction of additional concrete decking around the existing swimming pool.

PROJECT: The project consists of additional pool decking to be built and located in the Village of Delhi, NY at:

The location is owned by Town of Delhi.

TOWN OF DELHI POOL DECK EXTENSION

BACKGROUND AND OTHER SITE INFORMATION:

Experience and construction qualifications must be specific to the Contractor, the experience of the Contractor's potential subcontractors or vendors will not be considered in accessing the Contractor's basic qualifications.

Proposals must be submitted on the bid forms provided and in a manner designated therein. Copies of such bid forms and of the instructions to bidders may be obtained at the office of the Town Clerks Office 5 Elm Street, Delhi, NY 13753. Acceptance of the bid will be contingent upon the fulfillment of this requirement by each bidder.

Electronic documents and Amendments are posted to www.townofdelhiny.com or Copies of the plans, RFP may be examined at the office of the Town Clerk, Town of Delhi, 5 Elm Street, Delhi, New York during regular business hours, Monday through Friday, from 9:00 AM to 3:00 PM. Contractor is responsible for ensuring that all Amendments are incorporated into its bid. To receive notification of Amendments via e-mail you must submit a request to be placed on the Plan holders List with the Town of Delhi Clerk. Amendment may have been issued prior to your placement on the plan holders list. Contact Elsa Schmitz, Town Clerk, at the phone number noted above or email at townclerk@townofdelhi.org for further information.

Any questions by prospective Bidders concerning interpretation of the Contract Documents (Bid Documents) must be submitted in writing to the Town of Delhi or their designated representative and should be in its possession no later than 10 calendar days before the date set for the receipt of bids. The Town of Delhi will mail any addenda or written interpretations that it deems necessary to Bidders who have taken out plans at the address given by them before the date set for receipt of affected bids. Bidders may not rely upon oral communications or interpretations from the Town of Delhi and the Town of Delhi shall not be bound by them.

The Town Board reserves the right to consider bids for a period of 45 days after their opening, during which time no bidder may withdraw his or her bid, and the right is reserved to the Town Board to accept or to reject any or all bids.

ALTERNATES

Each alternate bid shall include the name of the material, equipment or methods which it is to be substituted and a complete description of the proposed alternate including drawings, cuts, performance and test data and any other information necessary for an evaluation. A statement setting forth any changes in other materials, equipment or work that incorporation of the alternate would require shall be included.

The burden of proof of the proposed alternate is upon the Bidding Contractor's firm making the proposal. The Engineer's decision of approval or disapproval of a proposed alternate is final.

It will be the Bidding Contractor's responsibility to apply for and to obtain amendments, variances, or new permitted approvals from all necessary governmental agencies, State and Local, relative to the building structure and pool structure, in the event any alternate system is offered and subsequently approved by Owner, prior to start of project construction.

TOWN OF DELHI POOL DECK EXTENSION

PROPOSAL REQUIREMENTS

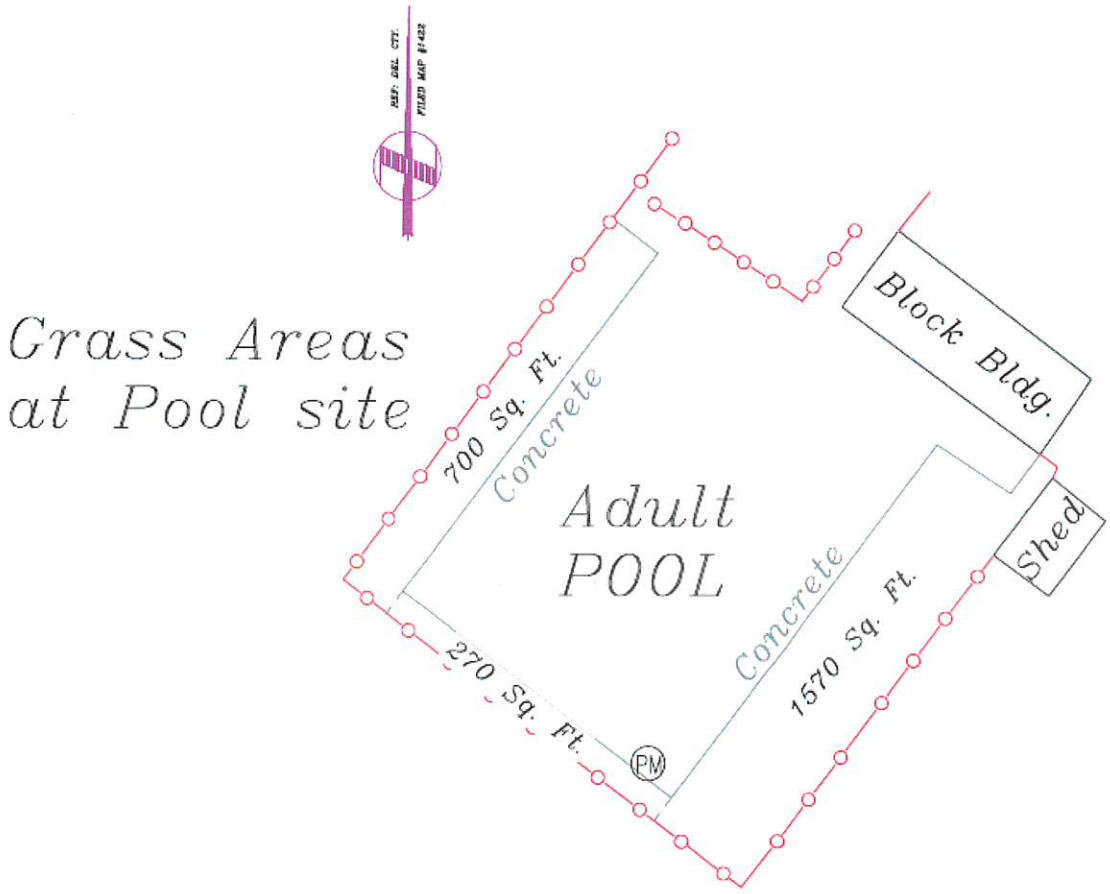
1. The Contractor must be licensed in the State of New York to do business.
   Proposals must include a "Guaranteed Maximum Price" for construction services. Contractor is required for maintaining the GMP budget throughout the life of the project and shall present updates to the Owner, as requested and needed for delivering the project.
2. Proposals must include a warranty period of at least one year on project.
3. Proposal(s) shall be submitted in a sealed envelope clearly marked with the company name.
4. The contractor must submit at a minimum 3 references for municipal projects completed in the last 5 years.
5. Contained within this package are a desired layout and requirements.

SCOPE OF WORK

The Contractor shall remove existing fence for access. The Contractor will excavate the area marked on the Diagram #1 to a depth of 12 inches. The Contractor shall install 8 inches of compacted DOT Subbase Course Optional Type 304.15 and 4 inches of 4,000 PSI concrete to match existing pool deck. The deck shall be sloped away from the pool to allow for drainage to the grass area. The new concrete deck will have PVC sleeves (size to be determined) installed for future umbrella locations. The fence and disturbed ground will be restored to its pre-construction condition.

TOWN OF DELHI POOL DECK EXTENSION

Diagram 1 -



TOWN OF DELHI POOL DECK EXTENSION

General Scope of Work

- Contractor is responsible for their own material storage, trash/waste removal, and communications, as needed to support the performance of this scope of work.
- Contractor is responsible for all hoisting and unloading of all equipment and materials associated with their contract work.
- Contractor shall take all precautionary measures that are necessary to prevent damages to the owner's property. Any damages caused as a result of the performance of this scope of work shall be repaired promptly and in a manner that restores such items to their original state. Any disturbance to the site surface shall be repaired and turf re-established with proper erosion control measures.
- Contractor shall execute the work by means of workmanship that meets or exceeds industry standards. Any work that is found to be deficient shall be repaired or removed and replaced as directed by the Owner and/or their representatives.
- Contractor shall provide a designated full-time on-site supervisor during the performance of this scope of work.
- This contractor is responsible for field verification and accommodation around any of the existing obstructions and obstacles, as they relate to the performance of this contract.
- Provide detailed project submittals (including shop drawings) for all materials, equipment, and relevant scope that are part of this project. Multiple paper copies and an electronic version shall be provided, as directed by the owner.
- Provide all support systems and fasteners, which may not be represented in the drawings and specifications, but are required for hanging or supporting contract items.
- Contractor shall provide pricing for any desired changes within (5) business days of receipt of request from the Owner and/or their representative. Pricing shall be broken down and detailed according to labor, materials, equipment, mark-up and all supporting documentation from vendors/suppliers, and second-tier contractors shall be provided with proposals.
- Submit daily field reports to Owner's project representative. These reports shall record daily manpower per trade designation, construction progress, any issues encountered, weather conditions, any safety concerns or precautionary measures, and other pertinent details that may arise. These reports shall also include photographs of on-site progress.
- Contractor shall provide a set of as-built drawings upon completing their scope of work. They shall also turnover any and all O&M manuals that pertain to devices or equipment that is part of the project.
- Attend progress and coordination meetings, as scheduled by the owner and/or other project parties.
- Perform work in strict compliance with all OSHA, local, state, and other safety requirements.
- All workers must wear leather safety shoes, hard hats, safety glasses, and any additional Personal Protective Equipment (PPE) as required for specific tasks, i.e. safety harnesses and lanyards, etc. All OSHA regulations and requirements are to be followed.

TOWN OF DELHI POOL DECK EXTENSION

- Time is of the essence on this project. This contractor is responsible for all efforts, methods, procedures and costs required to meet or better the schedule dates. If, at any time, it is determined by the Owner that this contractor is not on schedule for any reason within the control or responsibility of this contractor, this contractor shall increase its manpower or work such overtime as is required to bring the work back within the project schedule. Such additional efforts shall be performed at no additional cost to the Owner.
- Prevailing Wage Rates Apply. Certified payrolls are required to be submitted with payment applications.
- Contractor is to adhere to all current Covid 19 health requirements/regulations.

TOWN OF DELHI POOL DECK EXTENSION

BID FORMS

To:

In compliance with the Notice to Bidders, dated_____the undersigned hereby proposes to perform all work as indicated in the Contract Documents, for the completion of the Contract generally described as follows:

Contract G-1 - General Construction

For the prices stated in the Price Schedule, attached hereto.

In submitting this Bid, the undersigned agrees:

1. That the submission of this Bid constitutes an incontrovertible representation that he has complied with every requirement of the Instruction to Bidders.

2. To enter into and execute a Contract, if awarded on the basis of this bid, and to furnish Guarantee Bonds in accordance with the General Conditions of this Contract.

3. To accomplish the work in accordance with the Contract Documents.

4. To substantially complete the work within 30 calendar days and to have the work fully completed within 35 calendar days.

The undersigned acknowledges receipt of the following addenda_____

_____

Enclosed is Bid Security consisting of_____in the amount of _____

Date:_____

CORPORATE SEAL

Name of Bidder:_____

_____

Business Address:_____

_____

By:_____

Attest

Title:_____

Telephone No.:_____

PRICE SCHEDULE
CONTRACT QUANTITY DESCRIPTION* WITH TOTAL($)
/ITEM /UNITS PRICE WRITTEN IN WORDS IN FIGURES
G-1 Lump Sum General Construction Base Bid*

_____DOLLARS

G-1 TOTAL BASE BID $_____.00

Non-Collusive Bidding Certificate

NON-COLLUSIVE BIDDING CERTIFICATION REQUIRED BY SECTION 139-D OF THE STATE FINANCE LAW

SECTION 139-D, Statement of Non-Collusion in bids to the State:

BY SUBMISSION OF THIS BID, BIDDER AND EACH PERSON SIGNING ON BEHALF OF BIDDER CERTIFIES, AND IN THE CASE OF JOINT BID, EACH PARTY THERETO CERTIFIES AS TO ITS OWN ORGANIZATION, UNDER PENALTY OF PERJURY, THAT TO THE BEST OF HIS/HER KNOWLEDGE AND BELIEF:

[1] The prices of this bid have been arrived at independently, without collusion, consultation, communication, or agreement, for the purposes of restricting competition, as to any matter relating to such prices with any other Bidder or with anycompetitor;

[2] Unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the Bidder and will not knowingly be disclosed by the Bidder prior to opening, directly or indirectly, to any other Bidder or to any competitor; and

[3] No attempt has been made or will be made by the Bidder to induce any other person, partnership or corporation to submit or not to submit a bid for the purpose of restricting competition.

A BID SHALL NOT BE CONSIDERED FOR AWARD NOR SHALL ANY AWARD BE MADE WHERE [1], [2], [3] ABOVE HAVE NOT BEEN COMPLIED WITH; PROVIDED HOWEVER, THAT IF IN ANY CASE THE BIDDER(S) CANNOT MAKE THE FOREGOING CERTIFICATION, THE BIDDER SHALL SO STATE AND SHALL FURNISH BELOW A SIGNED STATEMENT WHICH SETS FORTH IN DETAIL THE REASONS THEREFORE:

[AFFIX ADDENDUM TO THIS PAGE IF SPACE IS REQUIRED FOR

STATEMENT.]

Subscribed to under penalty of perjury under the laws of the State of New York, this _____ day of_____, 20____as the act and deed of said corporation ofpartnership.

IF BIDDER(S) (ARE) A PARTNERSHIP, COMPLETE THE FOLLOWING:

NAMES OF PARTNERS OR PRINCIPALS	LEGAL RESIDENCE
_____	_____
_____	_____
_____	_____
_____	_____

IF BIDDER(S) (ARE) A CORPORATION, COMPLETE THE FOLLOWING:

NAME	LEGAL RESIDENCE
_____ President:	_____
_____ Secretary:	_____
_____ Treasurer:	_____
_____ President:	_____
_____ Secretary:	_____
_____ Treasurer:	_____

Identifying Data

Potential Contractor_____

Address_____
Street

_____
City, Town, etc.

Telephone_____ Title_____

If applicable, Responsible Corporate Officer

Name_____ Title_____

Signature_____

Joint or combined bids by companies or firms must be certified on behalf of each participant.

_____ _____
Legal name of person, firm or corporation Legal name of person, firm or corporation

By_____ _____
Name Name

_____ _____
Title Title

Address_____ Address_____
Street Street

_____ _____
City State/Zip

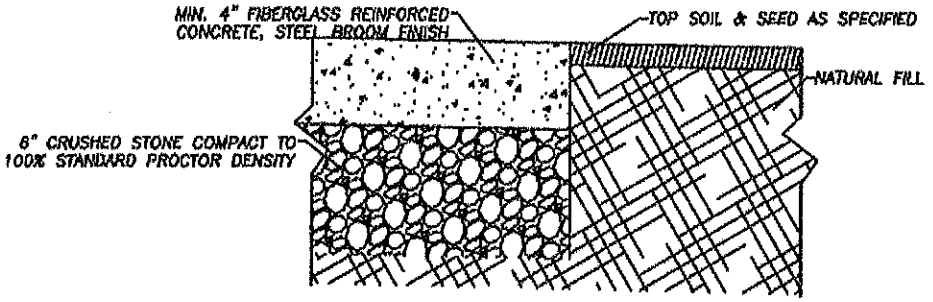
Agreement between Owner and Contractor

Contractor is required to sign agreement with the Town of Delhi.

Pool Deck Extension Details

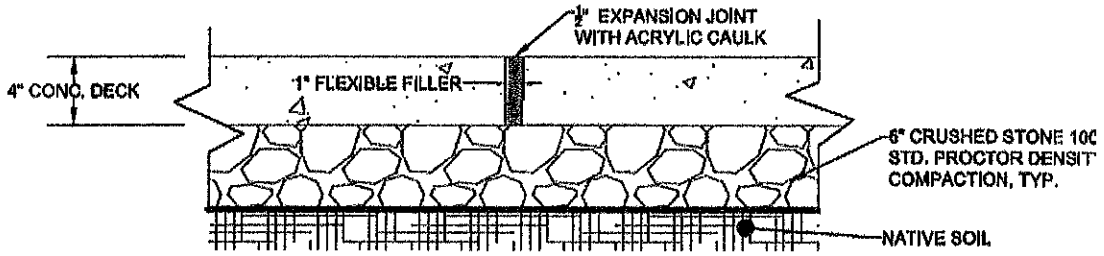
TYP. POOL DECK X-SECTION

NOT TO SCALE



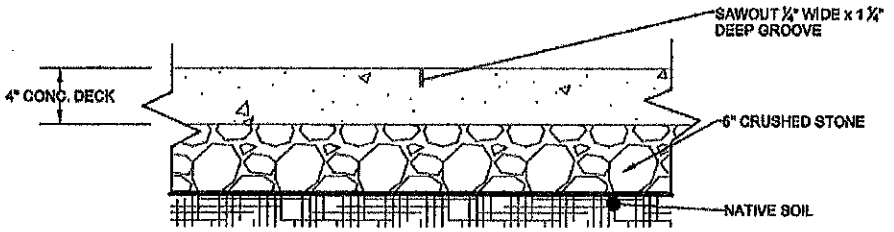
CONCRETE DECK EXPANSION JOINT

N.T.S.

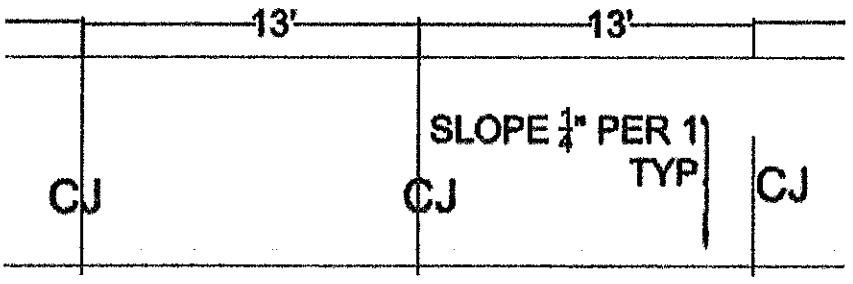


SAWED CONSTRUCTION JOINT DETAIL- CONCRETE DECK ONLY

N.T.S.



Control Joint (CJ)



PART 1 - GENERAL

1.1 Related Documents

A. Drawings and general provisions of Contract including Division 0 and Division 1 Specification sections apply to work specified in this section.

1.2 Description of Work

A. Providing cast-in-place concrete

1.3 Quality Assurance

A. Comply with the latest provisions of following codes, specifications and standards, except where more stringent requirements are shown or specified.
1. ACI 318 "Building Code Requirements for Reinforced Concrete"
2. "Details and Detailing of Concrete Reinforcement", ACI-315
3. Concrete Reinforcing Steel Institute, "Manual of Standard Practice"
4. Governing Building Code. Comply with all requirements of the governing building codes that are more stringent than above-referenced codes, standards and specifications
5. ACI SP-15 (84), Field Reference Manual. A copy of this publication must be kept in the field office at all times during concrete construction.

1.4 Submittals

A. Submit manufacturers' product data with application and installation instructions for proprietary materials and items, including reinforcement and forming accessories, admixtures, joint systems, curing compounds and other as requested by Engineer/Architect.

B. Submit shops drawings for fabrication, bending and placement of concrete reinforcement. Comply with ACI 315 "Details and Detailing of Concrete Reinforcement", A C I - 3 1 5 Structures" showing bar schedules, stirrup spacing, diagrams of bent bars, arrangement of concrete reinforcement. Include special reinforcement required and openings through concrete structures.

The shop drawings are interpretations of and are supplemental to the design drawings and specifications. Their intent is to demonstrate to the Engineer/Architect that this Contractor has understood the design concept and to provide the detailed information necessary for the fabrication, assembly and installation of the products or materials specified. Neither the shop drawings

nor comments placed on them by the Engineer/Architect shall be construed as being change orders. If any deviations, discrepancies or conflicts between the shop drawings and the design drawings and specifications are discovered, either prior to or after the shop drawings have been reviewed, the design drawings and specifications shall control and shall be followed.

C. Submit laboratory test reports for concrete materials and mix design test as specified.

D. Substitutions: Any request for product substitution must be submitted for review, with all necessary documentation, prior to time of bid. No requests for substitutions will be considered after bid has been received.

E. Throughout the Specifications, types of materials may be specified by manufacturer's name in order to establish standards of quality and performance and not for the purpose of limiting competition. Unless specifically stated otherwise, the bidder may assume the phrase "or approved equal", except that the burden is upon the bidder to provide such equality. If the bidder elects to prove such equality, it must request the Engineer/Architect's approval in writing to substitute such item for the specified item, stating the cost difference involved with supporting data and samples, if required, to permit a fair evaluation of the proposed substitute with respect to quality, serviceability, warranty and cost.

PART 2 - PRODUCTS

2.1 Form Materials

A. Forms for Concrete: Form concrete surfaces with plywood, lumber, metal or other acceptable material. Provide lumber dressed on at least two (2) edges and one (1) side for tight fit.

2.2 Reinforcing Materials

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

B. Steel Wire: ANSI/ASTM A 82, plain, cold-drawn steel.

C. Welded Wire Fabric: ANSI/ASTM A 185, welded steel wire fabric

D. Provide supports for reinforcement including bolsters, chairs, spacers and other devices for spacing, supporting and fastening reinforcing bars and

welded wire fabric in place. Use wire bar type supports complying with CRSI recommendations, unless otherwise acceptable.

E. For slabs-on-grade, use supports with sand plates on horizontal runners where base material will not support chair legs.

2.3 Concrete Materials

A. Portland Cement: ANSI/ASTM C 150, Type II

B. Normal Weight Aggregates: ANSI/ASTM C 33 and as herein specified. Provide aggregates from a single source for exposed concrete.

C. Water: Potable

D. Air-Entraining Admixture: ANSI/ASTM C 260

Water Reducing Admixture: "Eucon WR-7511 by the Euclid Chemical Co., "Pozzolith 20ON" by Master Builders or "Plastocrete 16011 by Sika Chemical Corp. The admixture shall conform to ASTM C 494, Type A and not contain more chloride ions than are present in municipal drinking water.

Water Reducing, Retarding Admixture: "Eucon Retarder-7511 by the Euclid Chemical Co., "Pozzolith 10OXR" by Master Builders or "Plastiment" by Sika Chemical Corp. The admixture shall conform to ASTM C494, Type D and not contain more chloride ions than are present in municipal drinking water.

High Range Water Reducing Admixture (Superplasticizer): "Eucon 3711 by the Euclid Chemical Co. or "Sikament" by Sika Chemical Corp. The admixture shall conform to ASTM C494, Type F or G, and not contain more chloride ions than are present in municipal drinking water.

Non-Corrosive, Non-Chloride Accelerator: "Accelguard 8011 by the Euclid Chemical Co. or approved equal. The admixture shall conform to ASTM C 494, Type C or E and not contain more chloride ions than are present in municipal drinking water. The admixture manufacturer must have long-term non-corrosive test data from an independent testing laboratory (of at least a year's duration) using an acceptable accelerated corrosion test method such as that using electrical potential measures.

Prohibited Admixtures: Calcium chloride, thiocyanates or admixtures containing more than 0.05% chloride ions are not permitted.

Certification: Written conformance to the above-mentioned requirements and the chloride ions content of the admixture will be required from the admixture manufacturer prior to mix design review by the Engineer/Architect.

2.4 Related Materials

A. Moisture-Retaining Cover: One of the following, complying with ANSI/ASTM C 171:
   1. Waterproof paper
   2. Polyethylene film
   3. Polyethylene-coated burlap

B. Curing and Sealing Compound: ASTM C-309, Type I. The compound shall be a clear styrene acrylate type, 30% solids content minimum, and have test data from an independent testing laboratory indicating a maximum moisture loss of 0.030 grams per sq. cm. when applied at a coverage rate of 300 square feet per gallon. Compound shall be "Super RezSeal" by the Euclid Chemical Company, "Masterkurell by Master Builders, or "Hydrozo 30%11 by Hydrozo Coating. Inc. Manufacturer's Certification Required. Sodium Silicate compounds are prohibited.

C. Dissipating Resin Curing Compound: The compound shall be a dissipating resin type compound, conforming to ASTM C-309, Type I, "Kurez DR" by the Euclid Chemical Co., or approved equal. The film must chemically break down in a two to four week period.

D. Bonding Agent: For new work against any existing concrete, the existing shall be coated with 100% solids, epoxy resin, bonding agent, Sika "Sikadur Hi-Mod", Sonneborn "Sonobond" or Euclid Chemical Company, "Euco Epoxy #452 MV".

E. Bonding Materials: The compound shall be polyvinyl acetate, rewettable type, "Euco Weld" by the Euclid Chemical Co. or "Weldcretell by the Larsen Co. Use only in areas not subject to moisture.

F. Bonding Admixture: The compound shall be latex, nonwettable type, "SBR Latex" or "Flex-Con" by the Euclid Chemical Co. or "Daraweld C" by W. R. Grace.

G. Patching Mortar: "Euco Epoxy #460 Mortar" by the EuclidChemical Co. or "Sik-adur Lo-Mod" by Sika Chemical Corporation. The compound shall be epoxy type, 100% solids, suitable for use on dry or damp surfaces.

H. Patching Compound: Free-flowing, polymer-modified cementitious coating, "Euco Thin Coat" by the Euclid Chemical Co. or "Sika Top 12111" by the Sika Chemical Company.

I. Epoxy Joint Filler: Shall be a three (3) component, 100% solids compound with a minimum shore D hardness of 50, "Euco Epoxy #600 or #700 by the Euclid Chemical Company or "Sikadur Lo-Mod Mortar" by Sika Chemical Company.

J. Non-Shrink Grout: The grout shall conform to CRD C-621-83, "Corps of Engineers Specification for Non-Shrink Grout". The grout shall be "Hi-Mod" (non-catalyzed metallic) or "Euco N-S" (non-metallic) by the Euclid Chemical Co. or "Embeco 63611" (non-catalyzed metallic) or "Masterflow 713" (non-metallic) by Master Builders. The grout manufacturer shall furnish test data from an independent laboratory indicating that the grout when placed at a fluid consistency shall achieve 95% bearing under a 4' x 4' base plate.

K. Metallic Aggregate Hardener: The hardener shall be formulated, processed and packaged under stringent quality control at the manufacturer's owned and controlled factory. The hardener shall be a combination portland cement, graded ion aggregate, coloring pigments (if required) and plasticizing admixtures. The metallic hardener shall be "Eucoplate HD" by the Euclid Chemical Company or "Masterplate 20011" by Master Builders.

L. Mineral Aggregate Hardener: The hardener shall be formulated, processed and packaged under stringent quality control at the manufacturer's owned and controlled factory. The hardener shall be a combination portland cement, graded quartz aggregate, coloring pigments (if required) and plasticizing admixtures. The mineral hardener shall be "Surflex" by Euclid Chemical Company or "Mastercron" by Master Builders.

M. Exterior Joint Sealant: "Eucolastic" by the Euclid Chemical Company or "Gardox" by W.R. Meadows. The sealant shall be a two component urethane joint sealant compound.

N. Penetrating Anti-Spalling Sealer: The sealer shall be a siloxane-based compound which has a 96% chloride-ion screen and a repellency factor of 92% when tested in accordance with NCHRP #244, Test Method. In addition, the sealertreated concrete must exhibit no scaling when exposed to 125 cycles of freezing and thawing in accordance with ASTM C-672. The tests must be by an independent testing laboratory. The manufacturer shall offer a three-year warranty bond issued by an insurance company in the amount agreed upon by the manufacturer and the owner. The product shall be "Euco-Guard"

by the Euclid Chemical Company or approved equal. The slab must be cured by a continuous moist curing method approved by the Engineer/Architect or by using "Kurez DR" by the Euclid Chemical Company.

2.5 Proportioning and Design of Mixes

A. Prepare design mixes for each type and strength of concrete by either laboratory trial batch or field experience methods as specified in ACI Section 3.9. If trial batch method is used, use an independent testing facility acceptable to Engineer/Architect for preparing and reporting proposed mix designs. The testing facility shall not be the same as used for field quality control testing unless otherwise acceptable to Engineer/Architect. When a concrete production facility does not have field test records for calculation of standard deviation, the required average strength shall be a least 1200 psi greater than the specified design strength.

B. Submit written reports to Engineer/Architect of each proposed mix for each class of concrete at least fifteen (15) days prior to start of work. Do not begin concrete production until Engineer/Architect has reviewed mixes.

C. Allowable concrete strength at 28 days:

Location	Required 28 day compressive strength	Maximum Water Cement Ratio	Entrained Air Content
Footing, piers, grade beams, caisson and all other below grade	3000	---	4.5% - 7.5%
Interior slabs on: grade, structural slabs, beams, columns, walls	4000	.50	4.5% - 7.5%
Concrete subjected to freezing and thawing	4000	.50	4.5% - 7.5%
Exterior slabs subjected to de-icers	4500	.45	4.5% - 7.5%
Reinforced concrete subjected to de-icers, salt spray or brackish water	5000	.40	4.5% - 7.5%
Exterior topping thin section	4000	.50	4.5% - 7.5%
Interior stair pans	3000	---	optional

NOTE: All aggregate sizes shall be #1/2, except for thin sections use #1 and for stair pans use #1A size.

D. All concrete shall contain the specified water-reducing or water-reducing retarding admixture and/or high-range water reducing admixture (super-

plasticizer). All concrete slabs, placed at air temperatures below 50 degrees F shall contain the specified non-corrosive non-chloride accelerator. All concrete required to be air-entrained shall contain an approved air-entraining admixture. All pumped concrete, concrete for industrial slabs, architectural concrete, concrete required to be watertight and concrete with a water-cement ratio below 0.50 shall contain the specified high-range water-reducing admixture (superplasticizer).

E. Concrete Proportions and Consistency - The proportions of the concrete shall produce a mixture that will work readily, with the placement method used, into corners and angles of forms and around reinforcement. Segregation of materials in the mixture shall not be permitted not collection of excess free water on the surface.

F. All concrete containing the high-range water-reducing admixture (superplasticizer) shall have a minimum slump of 8" unless otherwise approved by the Engineer/Architect. The concrete shall arrive at the job site at a slump of 2" to 3", be verified, then the high-range water-reducing admixture added to increase the slump to the approved level. All other concrete shall have a maximum slump of 3" for slabs and 4" for other members. This maximum slump may not be exceeded except by the job-site addition of the specified high-range water-reducing admixture (superplasticizer). In those portions of the structures where member dimensions and/or congestion due to reinforcing steel prevent the proper placement and consolidation of the concrete at the maximum slump specified, superplasticizer shall be used by the Contractor in lieu of increasing the slump of non-superplasticized concrete by the addition of water.

2.6 Concrete Mixing

A. Ready-Mix Concrete - Comply with requirements of ANSI/ASTM C 94 and as herein specified:
1. Delete references for allowing additional water to be added to batch for materials with insufficient slump. Addition of water to the batch will not be permitted.

B. During hot weather, or under conditions contributing to rapid setting of concrete, a shorter mixing time than specified in ANSI/ASTM C 94 may be required:
1. When air temperature is between 85 degrees F (30 degrees C) and 90 degrees F (32 degrees C), reduce mixing and delivery time from 12 hours to 75 minutes, and when air temperature is above 90 degrees F (32 degrees C), reduce mixing and delivery time to 60 minutes.

PART 3 – EXECUTION

3.1 Forms

A. Design, erect, support, brace and maintain formwork to support vertical and lateral loads that might be applied until such loads can be supported by concrete structures. Construct formwork so concrete members and structures are of correct size, shape, alignment, elevation and position.

B. Design formwork to be readily removable without impact, shock or damage to cast-in-place concrete surfaces and adjacent material.

C. Construct forms to sizes, shapes, lines and dimensions shown and to obtain accurate alignment, location, grades, level and plumb work in finished structures. Provide for openings, offsets, sinkages, keyways, recesses, molding, rustications, reglets, chamfers, blocking, screeds, bulkheads, anchorages and inserts and other features required in work. Use selected materials to obtain required finishes. Solidly but joints and provide back-up at joints to prevent leakage of cement paste.

D. Form Ties - Factory-fabricated, adjustable-length, removable or snapoff metal form ties, designed to prevent form deflection and to prevent spalling concrete surfaces upon removal.
   1. Unless otherwise indicated, provide ties so portion remaining within concrete after removal is at least 2" inside concrete.
   2. Unless otherwise shown, provide form ties which will not leave holes larger than 1" in diameter in concrete surface.

E. Provisions for Other Trades - Provide openings in concrete formwork to accommodate work of other trades. Determine size and locations of openings, recesses and chases from trades providing such items. Accurately place and securely support items built into forms.

F. Cleaning and Tightening - Thoroughly clean forms and adjacent surfaces to receive concrete. Remove chips, wood, sawdust, dirt or other debris just before concrete is placed. Re-tighten forms and bracing after concrete placement is required to eliminate mortar leaks and maintain proper alignment.

3.2 Placing Reinforcement

A. Comply with Concrete Reinforcing Steel Institute's recommended practice for "Placing Reinforcing Bars". for details and methods of reinforcement placement and supports, and as herein specified.

B.

B. Clean reinforcement of loose rust and mill scale, earth, ice and other materials which reduce or destroy bond with concrete.

C. Accurately position, support and secure reinforcement against displacement by formwork, construction or concrete placement operations. Locate and support reinforcing by metal chairs, runners, bolsters, spacers and hangers as required.

D. Place reinforcement to obtain at least minimum coverage for concrete protection. Arrange, space and securely tie bars and bar supports to hold reinforcement in position during concrete placement operations. Set wire ties so ends are directed into concrete, not toward exposed concrete surfaces.

E. Install welded wire fabric in as long lengths as practicable. Lap adjoining pieces at least one full mesh and lace splices with wire. Offset end laps in adjacent widths to prevent continuous laps in either direction.

3.3 Joints

A. Locate and install construction joints, which are not shown on drawings, so as not to impair strength and appearance of the structure, as acceptable to Engineer/Architect.

B. Place construction joints perpendicular to the main reinforcement. Continue reinforcement across construction joints, except for slabs on grade.

C. Construct isolation joints in slabs-on-ground at points of contact between slabs-on-ground and vertical surfaces, such as column pedestals, foundation walls, grade beams and elsewhere as indicated.

D. Construct contraction joints (control joints) in slabs-onground to form panels of patterns as shown. Control joints shall be sawn to a depth of 1/4 of the thickness of the slab, but not less than 1ö deep.

3.4 Installation of Embedded Items

A. Set and build into anchorage devices and other embedded items required for other work that is attached to, or supported by, cast-in-place concrete. Use setting drawings, diagrams, instructions and directions provided by suppliers of items to be attached thereto.

B. Cover pipes and/or conduits, within 12" of finished surface of concrete, with wire mesh reinforcement and extend at least 1" on each side of them. Minimum cover shall be 1" (Section 6.3, ACI 318 shall be followed).

C. Set edge forms or bulkheads and intermediate screed strips for slabs to obtain required elevations and contours in finished slab surface. Provide and secure units sufficiently strong to support types of screed strips by use of strike-off templates or accepted compacting type screeds.

3.5 Preparation of Form Surfaces

A. Coat contact surfaces of forms with a form-coating compound before reinforcement is placed.

B. Thin form-coating compounds only with thinning agent of type and in amount and under conditions of form coating compound manufacturer's directions. Do not allow excess form-coating materials to accumulate in forms or to come into contact with concrete surfaces against which fresh concrete will be placed manufacturer's instructions.

3.6 Cold Weather Placing

A. When air temperature has fallen to or is expected to fall below 40 degrees F provide adequate means to maintain temperature in area where concrete is being placed at 70 degrees F for three (3) days or 50 degrees F for seven (7) days after placing. Avoid sudden thermal shock due to rapid heating or cooling. Avoid rapid dryout due to overheating.

B. Protect concrete work from physical damage or reduced strength which could be caused by frost, freezing actions, or low temperatures, in compliance with ACI 306 and as herein specified.

C. When air temperature has fallen to or is expected to fall below 40 degrees F (4 degrees C), uniformly heat water and aggregates before mixing to obtain a concrete mixture temperature of not less than 50 degrees F(10 degrees C) and not more than 80 degrees F (27 degrees C) at point of placement.

D. Do not use frozen materials or materials containing ice or snow. Do not place concrete on frozen subgrade or on subgrade containing frozen materials.

E. Do not use calcium chloride, salt and other materials containing antifreeze agents or chemical accelerators, unless otherwise accepted in mix designs.

3.7 Hot Weather Placing

A. When hot weather conditions exist that would seriously impair quality and strength of concrete, place concrete in compliance with ACI 305 and as herein specified.

B. Cool ingredients before mixing to maintain correct temperature at time of placement below 90 degrees F (32 degrees C). Mixing water may be chilled or chopped ice may be used to control temperature provided water equivalent of ice is calculated to total amount of mixing.

C. Cover reinforcing steel with water-soaked burlap if it becomes too hot, so that steel temperature will not exceed the ambient air temperature immediately before embedment in concrete.

D. Wet forms thoroughly before placing concrete.

E. Use water-reducing retarding admixtures (Type D) when required by high temperatures, low humidity, or other adverse placing conditions.

3.8 Concrete Placement

A. Before placing concrete, inspect and complete formwork installation, reinforcing steel and items to be embedded or cast - in. Notify other crafts to permit installation of their work; coordinate with other trades in setting such work. Moisten wood forms immediately before placing concrete where form coatings are not used.

B. Coordinate the installation of joint material and moisture barriers with placement of forms and reinforcing steel.

C. Comply with ACI 304 and as herein specified.

D. Deposit concrete continuously or in layers of such thickness that no concrete will be placed on concrete which has hardened sufficiently to cause the formation of seams or planes of weakness. If a section cannot be placed continuously, provide construction joints as herein specified. Deposit concrete as nearly as practicable to its final location to avoid segregation.

E. Deposit concrete in forms in horizontal layers not deeper than 24" and in a manner to avoid inclined construction joints. Where placement consists of several layers, place each layer while preceding layer is still plastic to avoid cold joints.

F. Consolidate placed concrete by mechanical vibrating equipment supplemented by hand-spacing, rodding or tamping; use equipment and procedures for consolidation of concrete in accordance with ACI recommended practices.

G. Do not use vibrators to transport concrete inside forms. Insert and withdraw vibrators vertically at uniformly spaced locations no farther than visible effectiveness of machine. Place vibrators to rapidly penetrate placed layer and at least six inches (6") into preceding layer. Do not insert vibrators into lower layers of concrete that have begun to set. At each insertion limit duration of vibration to time necessary to consolidate concrete and complete embedment of reinforcement and other embedded items without causing segregation of mix.

H. Deposit and consolidate slabs in a continuous operation, within limits of construction joint, until the placing of a panel or section is completed.

I. Consolidate concrete during placing operations so that concrete is thoroughly worked around reinforcement and other embedded items and into corners.

J. Bring slab surfaces to correct level with straightedge and strikeoff. Use bull floats or darbies to smooth surface, free of humps or hollows. Do not disturb slab surfaces prior to beginning finishing operations.

3.9 Floor Finish Tolerances

A. ACI Committee 117 recommends the use of the finish tolerances contained in "Standard Tolerances for Concrete Construction and Materials (ACI 117-81), taking into consideration the intended use of the floor and construction materials used. Committee 117, working in conjunction with Committees 301, 302, and 318 hopes to provide a better defined finish tolerance and measuring techniques in the near future.

3.10 Finish of Formed Surfaces

A. Rough Form Finish: For formed concrete surf aces not exposed-to-view in the finish work or concealed by other construction, unless otherwise indicated. This is the concrete surface having texture imparted by form facing material used, with tie holes and defective area repaired and patched and fins and other projections exceeding one quarter inch (3") in height rubbed down or chipped off.

B. Related Unformed Surfaces: At top of walls, horizontal offset surfaces occurring adjacent to formed surfaces, strikeoff smooth and finish with a texture matching adjacent formed surfaces. Continue final surface treatment

of formed surfaces uniformly across adjacent unformed surfaces, unless otherwise indicated.

3.11 Monolithic Slab Finishes

A. Apply float finish to monolithic slab surfaces to receive trowel finish and other finishes as hereinafter specified and slab surfaces which are to be covered with membrane or elastic waterproofing, membrane or elastic roofing or sandbed terrazzo and as otherwise indicated.

B. After screeding, consolidating and leveling concrete slabs, do not work surface until ready for floating. Begin floating when surface water has disappeared or when concrete has stiffened sufficiently to permit operation of power-driven floats, or both. Consolidate surface with power-driven floats or by hand-floating if area is small or inaccessible to power units. Check and level surface plane to a tolerance not exceeding one-half inch (2") in ten feet (10') when tested with a ten foot (10') straightedge. Variances are not additive. Cut down high spots and fill low spots. Uniformly slope surfaces to drains. Immediately after leveling, refloat surfaces to a uniform, smooth, granular texture.

C. Apply trowel finish to monolithic slab surfaces to be exposed-to-view and slab surfaces to be covered with resilient flooring, paint or other thinfilm finish coating system.

D. Finish all slabs, interior and exterior, to a tolerance as stated below. Differences in evaluation, between two points, shall not exceed 0.16" in 12", 0.38" in 5' and 2" in 10'. All floor surfaces shall be within +/- :" of finished floor elevations designated on plans. If variations greater than this exist, the Engineer/Architect may direct the Contractor to grind the surfaces to bring them within the requirements. Patching of low spots shall not be permitted. Grinding shall be done as soon as possible, preferably within three (3) days, but not until the concrete is sufficiently strong to prevent dislodging coarse aggregate particles.

E. After floating, begin first trowel finish operation using a power-driven trowel. Begin final troweling when surface produces a ringing sound as trowel is moved over surface. Consolidate concrete surface by final hand-troweling operation, free of trowel marks, uniform in texture and appearance, and with a surface plane tolerance not exceeding one-quarter inch (3") or one-half inch (2") in ten feet (10') when tested with a ten foot (10') straightedge. Grind smooth surface defects that would telegraph through applied floor covering system.

F. Apply non-slip broom finish to exterior concrete platforms, steps and ramps and elsewhere as indicated.

G. Immediately after trowel finishing, slightly roughen concrete surface by brooming with fiber bristle broom perpendicular to main traffic route. Coordinate required final finish with Engineer/Architect before application.

H. Sealer Dustproofer Finish: Apply a second coat of the specified clear, styrene acrylate type curing and sealing compound to all new interior floor slabs which are schedules to be left exposed. The compound shall be applied just prior to completion of project.

3.12 Concrete Curing and Protection

A. Protect freshly placed concrete from premature drying and excessive cold or hot temperatures.

B. Curing and Protection: surfaces not in contact with forms - Curing shall be by application of the specified curing and sealing compound, the specified dissipating resin-type compound or by application of waterproof sheet materials conforming to ASTM C 171-80. Liquid membrane-forming curing and sealing compounds shall be applied in accordance with the manufacturer's recommendations. Interior slabs with resilient tile, carpet or left exposed and all exterior slabs, sidewalks, curbs, etc. shall be cured with the specified clear curing and sealing compound. Any membrane curing compound used in floor slabs receiving applied finish flooring shall be guaranteed by the manufacturer, in writing, not to impair bonding of adhesive. For slabs which are to receive terrazzo, bonded cementitious materials, epoxy or urethane coatings, liquid floor hardener, waterproofing, use a curing treatment of moisture-retaining covers or the specified dissipating resin-type curing compound. The curing compounds must be applied immediately after final finishing. For curing by the waterproof sheet material, the concrete must be continually moist-cured for a minimum of 7 days. The curing process must begin immediately after final finishing.

For concrete to be cured by waterproof sheet materials conforming to ASTM C-171, place the sheets in the widest practicable width with sides and ends lapped at least three inches (3") and sealed by waterproof tape or adhesive. Immediately repair any holes or tears during curing period using cover material and waterproof tape.

3.13 Miscellaneous Concrete Items

A. Fill in holes and openings left in concrete structures for passage of work by other trades, unless otherwise shown or directed, after work of other trades is in place. Mix, place and cure concrete as herein specified, to blend with in-place construction. Provide other miscellaneous concrete filling shown or required to complete work.

B. Provide concrete grout for reinforced masonry lintels and bond beams where indicated on drawings and as scheduled. Maintain accurate location of reinforcing steel during concrete placement.

C. Epoxy Joint Filler: All interior joints in areas receiving a mineral aggregate hardener and as otherwise noted on the drawings shall be filled with the specified epoxy joint filler. The joint filler shall be mixed and installed in strict accordance with the directions of the manufacturer. The joints shall not be filled sooner than 90 days after the slab placed.

END OF SECTION

TESTING LABORATORY SERVICES

The Contractor shall be responsible for the cost of any and all testing services that will be rendered in accordance with these Specifications or required in the field by the Town.

Concrete cylinders supplied by the Contractor will be properly filled. Three (3) cylinders will be taken per every three (3) loads of concrete delivered to the project site. The Contractor will be responsible for obtaining a laboratory report from an accredited testing laboratory showing the 28-day strength of the sample. Tests results shall be submitted to the project representative by the testing laboratory.

JOB DESCRIPTION Carpenter - Heavy&Highway **DISTRICT** 2

ENTIRE COUNTIES
Broome, Cayuga, Chemung, Chenango, Cortland, Delaware, Herkimer, Jefferson, Lewis, Madison, Oneida, Onondaga, Oswego, Otsego, Schuyler, Seneca, St. Lawrence, Steuben, Tioga, Tompkins, Yates

WAGES

Per hour	07/01/2021
Carpenter	$ 33.13
Piledriver	33.13
Diver-Wet Day	58.13
Diver-Dry Day	34.13
Diver-Tender	34.13

NOTE ADDITIONAL AMOUNTS PAID FOR THE FOLLOWING WORK LISTED BELOW (per hour worked):
- When project owner mandates a single irregular work shift, the employee will receive an additional $2.00 per hour. A single irregular work shift can start any time from 5:00 p.m. to 1:00 a.m.
- State or Federal designated hazardous site, requiring protective gear shall be an additional $2.00 per hour.
- Certified welders when required to perform welding work will receive an additional $1.50 per hour.

ADDITIONAL NOTES PERTAINING TO DIVERS/TENDERS:
- Divers and Tenders shall receive one and one half (1 1/2) times their regular diver and tender rate of pay for Effluent and Slurry diving.
- Divers and tenders being paid at the specified rate for Effluent and Slurry diving shall have all overtime rates based on the specified rate plus the appropriate overtime rates (one and one half or two times the specified rate for Slurry and Effluent divers and tenders).
- The pilot of an ADS or submersible will receive one and one-half (1 1/2) times the Diver-Wet Day Rate for time submerged.
- All crew members aboard a submersible shall receive the Diver-Wet Day rate.
- Depth pay for Divers based upon deepest depth on the day of the dive (per diem payment):
  - 0' to 50' no additional fee
  - 51'to 100' additional $.50 per foot
  - 101'to 150' additional $0.75 per foot
  - 151'and deeper additional $1.25 per foot
- Penetration pay for Divers based upon deepest penetration on the day of the dive (per diem payment):
  - 0' to 50' no additional fee
  - 51' to 100' additional $.75 per foot
  - 101' and deeper additional $1.00 per foot
- Diver rates applies to all hours worked on dive day.

Four (4), ten (10) hour days may be worked at straight time during a week, Monday thru Friday, provided the project duration is more than forty (40) hours.
NOTE - In order to use the '4 Day/10 Hour Work schedule', as your normal schedule, you must submit an 'Employer Registration for Use of 4 Day/10 Hour Work Schedule,' form PW30.1; and there must be a dispensation of hours in place on the project. If the PW30.1 is not submitted you may be liable for overtime payments for work over 8 hours per day.

SUPPLEMENTAL BENEFITS
Per hour:

Journeyman	$ 24.20

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (5, 6) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
In the event a Holiday falls on a Saturday, the Friday before will be observed as a Holiday. If a Holiday falls on a Sunday, then Monday will be observed as a Holiday. Employee must work scheduled work day before and after the Holiday.

REGISTERED APPRENTICES
ALL APPRENTICES indentured prior to 01/01/2016
Wages per hour (One year terms at the following percentage of journeyman's base wage):

1st	2nd	3rd	4th
55%	60%	70%	80%

Supplemental Benefits per hour:

$ 12.15	$ 12.15	$ 14.80	$ 14.80

CAPRENTER APPRENTICES Indentured after 01/01/2016
Wages per hour (1300 hour terms at the following percentage of journeyman's base wage):

1st	2nd	3rd	4th	5th
55%	60%	65%	70%	80%

Supplemental Benefits per hour:

$ 12.15	$ 12.15	$ 14.80	$ 14.80	$ 14.80

PILEDRIVER/DOCKBUILDER APPRENTICES indentured after 01/01/2016

Wages per hour (1300 hour terms at the following percentage of journeyman's base wage):

1st	2nd	3rd	4th
55%	60%	70%	80%

Supplemental Benefits per hour:

$ 12.15	$ 12.15	$ 14.80	$ 14.80

NOTE ADDITIONAL AMOUNTS PAID PER HOUR WORKED TO APPRENTICES FOR SPECIFIC TYPES OF WORK PERFORMED:

- When project owner mandates a single irregular work shift, the employee will receive an additional $2.00 per hour. A single irregular work shift can start any time from 5:00 p.m. to 1:00 a.m.
- State or Federal designated hazardous site, requiring protective gear shall be an additional $2.00 per hour.
- Certified welders when required to perform welding work will receive an additional $1.50 per hour.

JOB DESCRIPTION Teamster - Heavy&Highway **DISTRICT** 2

ENTIRE COUNTIES
Broome, Delaware

PARTIAL COUNTIES
Chenango: Only the Townships of Smithville, Greene, Coventry, Oxford, Afton, Bainbridge and Guilford.
Otsego: Only the Townships of Butternuts, Laurens, Maryland, Milford, Morris, Oneonta, Otego, Unadilla and Worchester.
Tioga: Only the Townships of Nichols, Tioga, Candor, Richford, Berkshire, Newark Valley and Owego.

WAGES
Per hour:

GROUP #1: Warehousemen, Yardmen, Truck Helpers, Pickups, Panel Trucks, Flatboy Material Trucks (straight jobs), Single Axle Dump Trucks, Dumpsters, Material Checkers and Receivers, Greasers, Truck Tiremen, Mechanic Helpers and Parts Chasers, Tandems and Batch Trucks, Mechanics, Dispatcher. Semi-Trailers, Low-boy Trucks, Asphalt Distributor Trucks, Agitator, Mixer Trucks and Dumpcrete type vehicles, Truck Mechanic, Fuel Trucks.

GROUP #2: Specialized Earth Moving Equipment-Euclid type or similar off-highway where not self-loading. Straddle (Ross) Carrier, and self-contained concrete mobile truck. Off-highway Tandem Back-Dump, Twin Engine Equipment and Double-Hitched Equipment where not self-loading.

	07/01/2021
Group #1	$ 28.11
Group #2	28.20

NOTE - An additional $1.50 per hour shall be paid to an employee who performs hazardous waste removal work on a City, County, State and/or Federally designated waste site where employee is required to use or wear personal protective equipment.

SUPPLEMENTAL BENEFITS
Per hour:

$ 25.72

OVERTIME PAY
See (B, E, Q, X) on OVERTIME PAGE

HOLIDAY
Paid: See (5, 6) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
If a holiday falls on Sunday, it will be celebrated Monday.

JOB DESCRIPTION Laborer - Heavy&Highway **DISTRICT** 11

ENTIRE COUNTIES
Orange, Sullivan, Ulster

PARTIAL COUNTIES
Delaware: Only the Townships of Andes, Bovina, Middletown, Roxbury,Franklin, Hamden, Stamford, Delhi, Kortright, Harpersfield,Meredith, and Davenport.
Greene: Only the Township of Catskill.

WAGES
CLASS 1: Flagperson, gateperson.

CLASS 2: General laborer, chuck tender, nipper,powder carrier, magazine tender, concrete men, vibrator men, mason tender, mortar men, traffic control, custodial work, temporary heat, pump men, pit men, dump men, asphalt men, joint setter, signalman, pipe men, riprap, dry stone layers, jack hammer, bush hammer, pavement breaker, gunnite nozzle, men on mulching & seeding machines, all seeding & sod laying, landscape work, walk behind self-propelled power saws, grinder, groover, walk behind rollers and tampers of all types, burner men, filling and wiring of baskets for gabion walls, chain saw operator, railroad track laborers, power buggy & pumpcrete opers., plaster & acoustic pump, power brush cutter, retention liners, walk behind surface planer, chipping hammer, manhole, catch basin or inlet installing, mortar mixer, laser men. *Micropaving and crack sealing.

CLASS 3: Asbestos, toxic, bio remediation and phyto remediation, lead or hazardous materials abatement when certification or license is required, Drilling Equipment Only Where a Separate Air Compressor Unit Supplies Power.

CLASS 4: Asphalt screedman, blaster, all laborers involved in pipejacking and boring operations not exceeding more than 10 feet into pipe, boring or drilled area.

WAGES: (per hour)	07/01/2021	06/01/2022	06/01/2023	06/01/2024
Class 1	$ 37.40	$ 39.05	$ 40.80	$ 43.45
Class 2	41.80	43.30	44.80	47.15
Class 3	46.15	47.75	49.40	51.85
Class 4	51.15	52.90	54.47	56.90

* When laborers are performing micro paving, crack sealing or slurry application when not part of asphalt prep operations laborers shall receive an additional $2.50 per hour over rate.

SHIFT DIFFERENTIAL: Night work and irregular shift require 20% increase on wages for all Government mandated night and irregular shift work.

Four (4), ten (10) hour days may be worked at straight time during a week, Monday thru Thursday. Friday may be used as a make-up day. NOTE - In order to use the '4 Day/10 Hour Work schedule', as your normal schedule, you must submit an 'Employer Registration for Use of 4 Day/10 Hour Work Schedule,' form PW30.1; and there must be a dispensation of hours in place on the project. If the PW30.1 is not submitted you may be liable for overtime payments for work over 8 hours per day.

SUPPLEMENTAL BENEFITS

Per hour:				
Journeyman	$ 30.78	$ 31.53	$ 32.28	$ 32.28
Shift	36.27	37.09	37.96	37.96

OVERTIME PAY
See (B, E, P, *R, **S, ***T, X) on OVERTIME PAGE
*For Mon-Fri Holidays, Double Benefits to be paid for all hours worked.
**For Saturday Holidays, Two and one Half Benefits for all hours worked.
***For Sunday Holidays, Triple Benefits for all hours worked.

HOLIDAY
Paid: See (5, 6, 15, 25) on HOLIDAY PAGE
Overtime: See (5, 6, 15, 25) on HOLIDAY PAGE

REGISTERED APPRENTICES
(1000) hour terms at the following wages.

	07/01/2021	06/01/2022
1st term	$ 21.45	$ 22.22
2nd term	25.35	26.26
3rd term	29.25	30.30
4th term	33.15	34.34

Supplemental Benefits per hour:		
All Terms Regular	$ 25.98	$ 27.03
All Terms Shift Rate	30.40	TBD

JOB DESCRIPTION Operating Engineer - Building / Heavy&Highway **DISTRICT** 11

ENTIRE COUNTIES
Delaware, Orange, Rockland, Sullivan, Ulster

WAGES
CLASS A5: Cranes, Derricks and Pile Drivers 100 tons or more and Tower Cranes, with 140ft boom and over.
CLASS A4: Cranes, Derricks and Pile Drivers 100 tons or more and Tower Cranes, with 100ft to 139ft boom.
CLASS A3: Cranes, Derricks and Pile Drivers 100 tons or more and Tower Cranes with a boom under 100ft.
CLASS A2: Cranes, Derricks and Pile Drivers less than 100 tons with 140ft boom and over.
CLASS A1: Cranes, Derricks and Piler Drivers less than 100 tons with a 100ft to 139ft boom.

CLASS A: Cranes, Derricks and Pile Drivers less than 100 tons with a boom under 100ft.; Autograde Combn. Subgrader, Base Material Spreader and Base Trimmer (CMI and Similar Types); Autograde Pavement profiler (CMI and Similar Types); Autograde Pavement Profiler and Recycle type (CMI and Similar Type); Autograde Placer-Trimmer-Spreader Comb. (CMI & Similar types); Autograde Slipform Paver (CMI & Similar Types); Central Power Plants (all types); Chief of Party; Concrete Paving Machines; Drill (Baur, AMI and Similar Types); Drillmaster, Quarrymaster (Down the Hole Drill), Rotary Drill, Self-Propelled Hydraulic Drill, Self-Powered Drill; Draglines; Elevator Graders; Excavator; Front End Loaders (5 yds.and over); Gradalls; Grader-Rago; Helicopters (Co-Pilot); Helicopters (Communications Engineer);Juntann Pile Driver; Locomotive (Large); Mucking Machines; Pavement & Concrete Breaker, i.e., Superhammer & Hoe Ram; Roadway Surface Grinder; Prentice Truck; Scooper (Loader and Shovel); Shovels; Tree Chopper with Boom; Trench Machines (Cable Plow); Tunnel Boring Machine; Vacuum Truck

CLASS B: "A" Frame; Backhoe (Combination); Boom Attachment on Loaders (Rate based on size of Bucket) not applicable to Pipehook; Boring and Drilling Machines; Brush Chopper, Shredder and Tree Shredder, Tree Shearer; Bulldozer(Fine Grade); Cableways; Carryalls; Concrete Pump; Concrete Pumping System, Pump Concrete and Similar Types; Conveyors (125 ft. and over); Drill Doctor (duties incl. Dust Collector Maintenance); Front End Loaders (2 yds. but less than 5 yds.); Graders (Finish); Groove Cutting Machine (Ride on Type); Heater Planer; Hoists (all type Hoists, shall also include Steam, Gas, Diesel, Electric, Air Hydraulic, Single and Double Drum, Concrete, Brick Shaft Caisson, Snorkel Roof, and/or any other Similar Type Hoisting Machines, portable or stationary, except Chicago Boom Type); Long Boom Rate to be applied if Hoist is "Outside Material Tower Hoist"**; Hydraulic Cranes-10 tons and under; Hydraulic Dredge; Hydro-Axe; Hydro Blaster; Jacks-Screw Air Hydraulic Power Operated Unit or Console Type (not hand Jack or Pile Load Test Type); Log Skidder; Pans; Pavers (all) concrete; Plate and Frame Filter Press; Pumpcrete Machines,Squeeze-crete & Concrete Pumping (regardless of size); Scrapers; Side Booms; "Straddle"Carrier-Ross and similar types; Winch Trucks (Hoisting); Whip Hammer

CLASS C: Asphalt Curbing Machine; Asphalt Plant Engineer; Asphalt Spreader; Autograde Tube Finisher and Texturing Machine (CMI & Similar types); Autograde Curecrete Machine (CMI & Similar Types); Autograde Curb Trimmer & Sidewalk, Shoulder, Slipform (CMI & Similar Types); Bar Bending Machines (Power); Batchers, Batching Plant and Crusher on Site; Belt Conveyor Systems; Boom Type Skimmer Machines; Bridge Deck Finisher; Bulldozer(except fine grade); Car Dumpers (Railroad); Compressor and Blower Type Units (used independently or mounted on dual purpose Trucks, on Job Site or in conjunction with jobsite, in Loading and Unloading of Concrete, Cement, Fly Ash, Instacrete, or Similar Type Materials); Compressors (2 or 3 in Battery); Concrete Finishing Machines; Concrete cleaning decontamination machine operator; Concrete Saws and Cutters (Ride-on type); Concrete Spreaders (Hetzel, Rexomatic and Similar Types); Concrete Vibrators; Conveyors (under 125 feet); Crushing Machines; Directional Boring Machines; Ditching Machine-small (Ditch-witch, Vermeer, or Similar type); Dope Pots (Mechanical with or without pump); Dumpsters; Elevator; Fireman; Fork Lifts (Economobile, Lull and Similar Types of Equipment); Front End Loaders (1 yd.and over but under 2 yds.); Generators (2 or 3 in Battery); Giraffe Grinders; Grout Pump; Gunnite Machines (excluding nozzle); Hammer Vibrator (in conjunction with Generator); Heavy Equipment Robotics Operator Technician; Hoists-Roof, Tugger, Aerial Platform Hoist & House Cars; Hoppers; Hopper Doors (power operated); Hydro Blaster; Hydralic Jacking Trailer; Ladders (motorized); Laddervator; Locomotive-dinky type; Maintenance -Utility Man; Master Environmental Maintenance Technician; Mechanics; Mixers (Excepting Paving Mixers); Motor Patrols; Pavement Breakers (small self propelled ride on type-also maintains compressor hydraulic unit); Pavement Breaker-truck mounted; Pipe Bending Machine (Power); Pitch Pump; Plaster Pump (regardless of size); Post Hole Digger (Post Pounder & Auger); Rod Bending Machines (Power); Roller-Black Top; Scales (Power); Seaman pulverizing mixer; Shoulder widener; Silos; Skidsteer (all attachments); Skimmer Machines (boom-type); Steel Cutting Machine (service & maintain); Tam Rock Drill; Tractors; Transfer Machine; Captain (Power Boats); Tug Master (powerboats); Ultra High Pressure Waterjet Cutting Tool System operator/maintenance technician; Vacuum Blasting Machine; Vibrating Plants (used in conjunction with unloading); Welder and Repair Mechanics

CLASS D: Brooms and Sweepers; Chippers; Compressor (single); Concrete Spreaders (small type); Conveyor Loaders (not including Elevator Graders); Engines-large diesel (1620 HP) and Staging Pump; Farm Tractors; Fertilizing Equipment (Operation & Maint. of); Fine Grade Machine (small type); Form Line Graders (small type); Front End Loader (under 1 yard); Generator (single); Grease, Gas, Fuel and Oil supply trucks; Heaters (Nelson or other type incl. Propane, Natural Gas or Flowtype Units); Lights, Portable Generating Light Plants; Mixers (Concrete, small); Mulching Equipment (Operation and Maintenance of); Pumps (2 or less than 4 inch suction); Pumps (4 inch suction and over incl. submersible pumps); Pumps (Diesel Engine and Hydraulic-immaterial of power); Road Finishing Machines (small type); Rollers-grade, fill or stone base; Seeding Equip. (Operation and Maintenance of); Sprinkler & Water Pump Trucks (used on jobsite or in conjunction with jobsite); Steam Jennies and Boilers-irrespective of use; Stone Spreader; Tamping Machines, Vibrating Ride-on; Temporary Heating Plant (Nelson or other type, incl. Propane, Natural Gas or Flow Type Units); Water & Sprinkler Trucks (used on or in conjunction with jobsite); Welding Machines (Gas, Diesel, and/or Electric Converters of any type, single, two, or three in a battery); Wellpoint Systems (including installation by Bull Gang and Maintenance of)

CLASS E: Assistant Engineer/Oiler; Drillers Helper; Maintenance Apprentice (Deck Hand); Maintenance Apprentice (Oiler); Mechanics' Helper; Tire Repair and Maintenance; Transit/Instrument Man

WAGES:(per hour)

	07/01/2021	07/01/2022 Additional
Class A5	$ 62.52 plus 3.00*	$ 2.25
Class A4	61.52 plus 3.00*	
Class A3	60.52 plus 3.00*	
Class A2	58.02 plus 3.00*	
Class A1	57.02 plus 3.00*	
Class A	56.02 plus 3.00*	
Class B	54.43 plus 3.00*	
Class C	52.52 plus 3.00*	
Class D	50.89 plus 3.00*	
Class E	49.18 plus 3.00*	
Safety Engineer	56.76 plus 3.00*	
Helicopter:		
Pilot/Engineer	57.84 plus 3.00*	
Co Pilot	56.02 plus 3.00*	
Communications Engineer	56.02 plus 3.00*	
Surveying:		
Chief of Party	56.02 plus 3.00*	
Transit/Instrument Man	49.18 plus 3.00*	
Rod/Chainman	46.60 plus 3.00*	

Additional $0.75 for Survey work Tunnel under compressed air.
Additional $0.50 for Hydrographic work.

*The $3.00 is added to the Class Base Wage for all hours worked. Additionally, the $3.00 is subject to the V-Code listed on the OVERTIME CODE Sheet.

**Outside Material Hoist (Class B) receives additional $ 1.00 per hour on 110 feet up to 199 feet total height, $ 2.00 per hour on 200 feet and over total height.

- SHIFT WORK: On all Government mandated irregular or off shift work, an additional 15% on straight time hours.

- On HAZARDOUS WASTE REMOVAL or ASBESTOS REMOVAL work, or any state or federally DESIGNATED HAZARDOUS WASTE SITE:

For projects bid on or before April 1, 2020...Where the Operating Engineer is in direct contact with hazardous material and when personal protective equipment is required for respiratory, skin and eye protection, the Operating Engineer shall receive the hourly wage plus an additional twenty percent (20%) of that wage for the entire shift.

For projects bid after April 1, 2020...On hazardous waste removal work of any kind, including state or federally designated site where the operating engineer is required to wear level A, B, or C personal protection the operating engineer shall receive an hourly wage rate of his regular hourly wage plus $5.00 per hour. An operating engineer working at a hazardous waste removal project or site at a task requiring hazardous waste related certification, but who is not working in a zone requiring level A, B, or C personal protection, shall receive an hourly wage rate of his regular rate plus $ 1.00 per hour. This shall also apply to sites where the level D personal protection is required.

SUPPLEMENTAL BENEFITS
Per hour:

Journeyman	$ 32.45

SHIFT WORK: On all Government mandated irregular or off shift work, an additional 15% on straight time hours.

OVERTIME PAY
See (B, E, Q, *V, X) on OVERTIME PAGE
*15% premium is also required on shift work benefits

HOLIDAY
Paid: See (5, 6, 10, 13, 15) on HOLIDAY PAGE
Overtime: See (5, 6, 10, 13, 15) on HOLIDAY PAGE
Holidays falling on Sunday will be celebrated on Monday.

REGISTERED APPRENTICES
(1) year terms at the following percentage of journeyman's wage.

1st year	60% of Class wage plus $3.00*
2nd year	70% of Class wage plus $3.00*
3rd year	80% of Class wage plus $3.00*
4th year	90% of Class wage plus $3.00*

*The $3.00 is added to the Class Base Wage for all hours worked. Additionally, the $3.00 is subject to the V-Code listed on the OVERTIME CODE Sheet.

Supplemental Benefits per hour:

Apprentices	$ 32.45

JOB DESCRIPTION Mason - Heavy&Highway **DISTRICT** 5

ENTIRE COUNTIES
Allegany, Broome, Chautauqua, Chemung, Chenango, Cortland, Delaware, Genesee, Livingston, Monroe, Ontario, Orleans, Otsego, Schuyler, Seneca, Steuben, Tioga, Tompkins, Wayne, Wyoming, Yates

PARTIAL COUNTIES
Cattaraugus: Enitre county except in the Township of Perrysburg and the Village of Gowanda only the Bricklayer classification applies.
Erie: Only the Bricklayer classification applies.
Niagara: Only the Bricklayer classification applies.

WAGES

Per hour:	07/01/2021
Heavy & Highway:	
Cement Mason	$ 32.53
Bricklayer	32.53

Four (4), ten (10) hour days may be worked at straight time during a week, Monday thru Thursday. Friday may be used as a make-up day.

NOTE - In order to use the '4 Day/10 Hour Work schedule', as your normal schedule, you must submit an 'Employer Registration for Use of 4 Day/10 Hour Work Schedule,' form PW30.1; and there must be a dispensation of hours in place on the project. If the PW30.1 is not submitted you may be liable for overtime payments for work over 8 hours per day.

SUPPLEMENTAL BENEFITS
Per hour:

Journeyman	$ 23.13

OVERTIME PAY
See (B, E, E2, Q) on OVERTIME PAGE

HOLIDAY

Paid:	See (1) on HOLIDAY PAGE
Overtime:	See (5, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES
Wages per hour:

1500 hour terms at the following percentage of Journeyman's wage:

1st	2nd	3rd	4th
50%	60%	70%	80%

Supplemental benefits per hour:

1st term	$ 14.13
2nd - 4th term	23.13