

PROJECT MANUAL

for

Play Area Upgrades Mill Pond Park



123 Garfield Street
Newington, Connecticut

Prepared By:

TO Design LLC
114 West Main Street
New Britain, Connecticut

INVITATION TO BID

The Town of Newington will accept bids from experienced Contractors for **Play Area Upgrades at Mill Pond Park**. All bids must be submitted in accordance with Town specifications and on forms supplied by the Town. Bid forms and specifications are available in the Town Manager's Office, 131 Cedar Street, Newington, Connecticut 06111 and on line at the Town's website, www.newingtonct.gov under Doing Business, Bid Opportunities. Bids will be received in the Town Manager's Office and read publicly at 2:30 PM on *March 23, 2016*. A non-mandatory pre bid meeting will be held on *March 16, 2016* at 10:00 AM at the project site, 123 Garfield Street, Newington, CT. All drawings and specifications shall be obtained directly from the printer, Joseph Merritt and Co., 650 Franklin Ave., Hartford, CT 06114, telephone 860-296-2500, fax 860-947-3288. All bid documents must be obtained at this location. Addenda will be posted on the Town's website. A bid bond for 10% of the amount bid is required. The Town of Newington reserves the right to reject any or all bids.

Tanya Lane
Acting Town Manager

Bid No. 1, 2015-16

TOWN OF NEWINGTON

PLAY AREA UPGRADES AT MILL POND PARK

BID SPECIFICATIONS

INTENT

It is the intent of these specifications to select an experienced Contractor to complete Play Area Upgrades at Mill Pond Park

BID PROCEDURES

All bids shall be submitted on forms provided by the Town of Newington (hereafter the "Town") and addressed to the Town Manager's Office, Town Hall, 131 Cedar Street, Newington, CT 06111. Bids will be received until 2:30 P.M. on *March 23, 2016* in the Town Manager's Office, when they will be read publicly. Bids shall be in sealed envelopes clearly labeled "Bid No.1, 2015-16 Play Area Upgrades at Mill Pond Park". The Town reserves the right to waive informalities or to reject any or all bids when such action is deemed in the best interests of the Town. The Town reserves the right to delete such items as it deems necessary from these proposals. Bidders are directed to be certain that they understand the terms and conditions as specified in this bid. All exceptions of the bidder to the terms and specifications of this bid shall be made in writing and submitted in full with the Bid Form. It will be expected that all remaining terms and conditions expressed herein are acceptable and shall govern any resulting contract. The Town reserves the sole right to reject bids that contain exceptions which are unacceptable to the Town. All addenda will be posted on the Town's website, www.newingtonct.gov, under Doing Business, Bid Opportunities. Bidders are responsible for checking the website for the presence and content of any addenda. No bids may be withdrawn, in whole or in part, without the written consent of the Town.

AWARD

Unless all bids are rejected, the Town shall award the bid to the entity it determines to be the lowest responsible bidder. The lowest responsible bidder shall be defined as that person or firm whose bid to perform the work or provide the product(s) specified is lowest, who is qualified and competent to do the work or provide the product(s) specified, whose past performance of work is satisfactory to the Town, and whose bid documents comply with the procedural requirements stated herein or in any addenda. The award process may also include additional considerations such as the information provided on the Bid Form, the bidder's qualifications, approval of the bidder's Affirmative Action Plan by the Commission on Human Rights and Opportunities, and the bidder's perceived ability to fulfill its obligations as prescribed by these specifications. The Town may make such investigations as it deems necessary to determine the ability of

the bidder to perform the work, and the bidder shall furnish to the Town all such information and data for this purpose as the Town may request. The Town reserves the right to reject any or all bids if evidence submitted by or investigation of the bidder fails to satisfy the Town that such bidder is properly qualified to carry out the obligations of the contract resulting from the bid and to complete the work or deliver the item(s) contemplated therein. The Town will not accept the bid of a bidder whose firm, or any principal of the firm, is in default on the payment of taxes, licenses or other monies due the Town. As used in this section, a "principal" shall mean an individual who is a director, an officer, an owner, a limited partner or a general partner. As used in this section, "in default on the payment of taxes" shall mean the failure to pay taxes by the date such taxes are due and payable or the failure to be current with respect to a delinquent taxes payment schedule as set forth in a written agreement with the Revenue Collector.

BID PRICES

All bid prices shall be held firm by the Contractor throughout the term of the contract and will be construed as all-inclusive. There shall not be any unilateral imposition of additional surcharges for fuel or deliveries.

CONTRACTOR PERFORMANCE

Failure of the Contractor to adhere to the specifications, prices, terms or conditions of its Agreement with the Town may preclude the Contractor, at the Town's sole discretion, from bidding on future Town bids, in addition to any action that the Town may take as a result of the Contractor's failure to perform.

TERMINATION

All work done as a result of this bid shall be completed to the satisfaction of the Town Manager. The Town reserves the right to terminate this agreement upon ten (10) calendar days written notice of failure by the Contractor to provide service to the satisfaction of the Town Manager.

NONDISCRIMINATION

The Contractor shall agree and warrant that it will not discriminate or permit discrimination against any person or group of persons on the grounds of sex, race, color religion, age, marital status, ancestry, national origin, past history of mental disorder, mental disability or physical disability or other basis in any manner prohibited by the laws of the United States, the State of Connecticut, or the Town of Newington.

HOLD HARMLESS

The Contractor agrees to indemnify, defend and hold harmless the Town of Newington and its respective officers, employees, agents and/or servants against all demands, claims, actions or causes of actions, losses, damages, liabilities, costs and expenses, including without limitation, interest, penalties, court costs and reasonable attorney's fees, asserted against, resultant to, imposed upon or incurred by the Town of Newington resulting from or arising out of:

1. Any breach by the Contractor of the terms of the specifications, or
2. Any injuries (including death) sustained by or alleged to have been sustained by the officers, employees, agents and/or servants of the Town of Newington or the Contractor or subcontractors or material men, or
3. Any injuries (including death) sustained by or alleged to have been sustained by any member of the public or otherwise any or all persons, or
4. Any damage to property, real or personal, (including property of the Town of Newington or its respective officers, agents and servants)

caused in whole or in part by the acts or omissions of the Contractor, any subcontractor, or any material men or anyone directly or indirectly employed by them while engaged in the performance of any work for the Town of Newington.

HAZARDOUS MATERIALS

The Contractor, when providing, using, storing, delivering or disposing of any toxic, hazardous or potentially dangerous materials, shall advise the Town, in writing, of the condition of such hazardous materials in advance of conducting any work and is responsible for protecting the Contractor's own employees, those of the Town, and all its' agents from the hazards associated with such materials. The Contractor shall furnish direction, precautions, or training, provided or made available from the supplier of the materials, or other acceptable source, for use by all persons who may be subject to the hazard. The Contractor shall comply with all applicable regulations and laws. The Contractor shall dispose of any hazardous or toxic substances in accordance with all applicable regulations or laws, including E.P.A. and D.O.T., and shall provide the Town with the appropriate generator E.P.A. number. The Contractor shall do all things necessary to insure that there will be no discharge, spillage, uncontrolled loss, seepage or filtration of any hazardous or toxic waste on the site caused by the Contractor's operations. The Contractor is responsible for any and all costs and liabilities associated with the clean up of any such spillage, etc., or as required by any regulating authority, and holds the Town harmless against any current or future liabilities resulting from such an incident.

INSURANCE

The Contractor shall furnish a certificate of insurance to the Town Manager for the following insurance coverage within ten (10) days from contract execution. All insurance coverage shall be written with an insurance company licensed to conduct business in the State of Connecticut. Insurance coverage shall remain in full force for the duration of the contract term including any and all extensions. Such certificate of insurance shall specify that the Town of Newington will receive thirty (30) days notice of any cancellation, non-renewal or reduction in coverage and limits originally provided. All deductibles, if any, are the sole responsibility of the Contractor to pay and/or indemnify. The requirements of this section shall apply to the Contractor and to any and all subcontractors.

1. Commercial General Liability including Premises-Operations, Independent Contractors, Blanket Contractual, Products and Completed Operations:

\$1,000,000 Each Occurrence

\$1,000,000 Aggregate

Combined Single Limit for personal injury or property damage or both combined.

Property Damage Liability for the following hazards:

U – Underground Damage

Such policy shall name the Town as additional insured.

2. Comprehensive Automobile Liability covering owned, non-owned, hired or leased vehicles.

\$1,000,000 Each Accident

Combined Single Limit for bodily injury or property damage or both combined.

3. Workers Compensation Insurance in accordance with Connecticut State Statutes.

Employers Liability Limit - \$100,000.

BONDS

Within ten days following notice of any award the Contractor shall furnish Performance and Labor and Materials Payment bonds to the Town for the duration of the Contract, covering faithful performance of the Contract and the payment of obligations arising thereunder. Such bonds shall be equal to one hundred percent (100%) of the full amount of the Contract as a guarantee that the terms of the Contract shall be complied with in every particular. These bonds shall be issued from a surety company either licensed or approved by the State of Connecticut Insurance Commissioner and which has an A.M. Best's rating of A-VII or better. These bonds shall clearly state that on default by the Contractor the surety company shall pay all payables associated with this job that are outstanding. The form of said bonds shall be AIA Document A312 or equal. A bid bond in the amount of ten per cent (10%) of the amount bid shall accompany each bid. The bid bond shall be issued by a surety company either licensed or approved by the State of Connecticut Insurance Commissioner.

PAYMENT

Payment for the work associated with this bid shall be made within thirty (30) days by the Town, following the completion of all work invoiced to the satisfaction of the Town Manager and upon submission of an invoice to the Town of Newington Finance Department, 131 Cedar Street, Newington, CT 06111.

SEVERABILITY

In the event of any inconsistencies between applicable general laws and this bid, or any Agreement resulting from this bid, the applicable general laws shall prevail. In the event that any terms or provisions of this bid, or any Agreement resulting from this bid, shall be found to be invalid or unenforceable pursuant to judicial decree or decision, then such term(s) or provision(s) shall be deemed to be stricken and the remainder of this bid, or any Agreement resulting from this bid, shall be valid and enforceable according to its terms. The validity, interpretation and enforcement of any Agreement resulting from this bid shall be governed by the laws of the State of Connecticut.

DISPUTE RESOLUTION

The sole remedy for any claim, dispute, or other matter in question arising out of or related to any Agreement resulting from this bid will either be by mediation or by legal or equitable suit filed in Superior Court for the Judicial District of New Britain. No party shall be entitled to arbitration for any claim, dispute or other matter in question.

PROTECTION

Precaution for the protection of persons and property must be exercised at all times. The safety provisions of applicable laws, as well as building, fire and construction codes, shall be observed at all times. The Contractor shall take such additional safety and health measures as are reasonably necessary. The Contractor shall be responsible for ensuring pedestrian and traffic safety in all work zones.

STORAGE AND HANDLING

All materials and equipment shall be delivered, handled and stored in a manner which prevents the intrusion of foreign materials and damage by breakage or weather. Such storage, delivery, and handling shall not interfere with Town operations nor impede access to any public areas. All equipment shall be stored in a clean, dry location. Material which is damaged shall be replaced with new material at no additional cost to the Town.

CLEANUP

Removal of material to be replaced is the responsibility of the Contractor. All accumulated rubbish and debris shall be removed daily from the job site and adjacent areas by the Contractor. Any such rubbish and debris shall not be placed in the Town's dumpster but shall be transported by the Contractor from the premises. All dumpster and trash disposal costs shall be included in the bid price. Any inflammable rubbish shall not be burned on the premises but shall be hauled away.

The work area(s) shall be left clean and ready for use by the Town. If the Contractor fails to properly clean up the job site the Town may do so or may hire another firm of its choosing to do so. In either case, the cost of such cleanup shall be charged to the Contractor.

APPEARANCE

All work shall be performed in a workmanlike and professional manner and shall be left with a neat appearance. All disturbed areas shall be restored to their original condition. Any damage to a building resulting from this work shall be repaired by the Contractor at no additional cost to the Town. All preparation and installation shall be performed in conformance with manufacturer's guidelines and appropriate building and fire codes. All work shall be performed to the satisfaction of the Town Manager.

QUALIFICATIONS

The Contractor shall have demonstrated experience by having been in business (as the same business with the same name as submitted on the Bid Form) for at least three (3) years and by having successfully completed at least three (3) similar projects, as determined by the Town. If requested by the Town, the bidder shall provide a list of three similar projects, with telephone numbers and contact persons, prior to the award of this bid, and evidence of incorporation/business formation that will satisfy the requirements of this section. The Contractor and the Contractor's employees shall have the required background, license(s), technical knowledge, and equipment, labor force and satisfactory prior work history to perform this project in a satisfactory manner. Failure to meet the qualifications of this section alone is sufficient grounds for rejection of the bid by the Town.

COMPLETION

All work shall be completed within ninety (90) calendar days following the issuance of a Town purchase order to the Contractor. Failure of the Contractor to start work within the ninety day period, or to prosecute the work in a continuous manner following the start of work, shall be grounds for termination of the contract by the Town.

PERMITS

The Contractor and any subcontractors shall obtain a Building Permit from the Building Department, located in the Town Hall, prior to the start of any work. The Contractor and any subcontractors are also responsible for any other federal, state, regional or local permits and/or inspections required for installation.

QUESTIONS

Appointments outside the pre-bid conference to examine the work site shall be arranged with *Mike Hadvab, MHadvab@NewingtonCT.Gov*. All questions regarding this bid shall be addressed to *Phil Barlow, TO Design LLC, wparlow@todesignllc.com* in writing no later than three business days prior to the bid opening date. Any addenda shall be posted on the Town's website in accordance with the section on Bid Procedures above.

TIME OF WORK

No work will be allowed between the hours of 7:00 p.m. and 7:00 am Monday through Friday. No work will be allowed on Saturdays, Sundays or holidays unless authorized by the Town. If work is authorized, any inspection will be required at the Contractor's expense.

PRE-BID CONFERENCE AND SITE INSPECTION

For the benefit of all bidders wishing to submit bids, a non-mandatory pre-bid conference will be held at the site, located at 123 Garfield Street, Newington, CT at 10:00 AM on *March 16, 2016*. Each bidder is responsible for any information discussed or presented at the pre-bid conference. Each bidder shall examine the work site and become fully acquainted with existing conditions so that the bidder fully understands the facilities, difficulties, and restrictions involved with this project. Each bidder shall take all necessary measurements for this work. Failure of the bidder to become acquainted with the conditions at the job location shall in no way relieve the bidder from any obligation with respect to this bid or the resulting contract.

SECTION 00300

BID FORM

DATE: _____

To Whom It May Concern:

1. The undersigned bidder, having familiarized themselves, with the local conditions affecting the cost of the work, and with the Technical Specifications and Drawings, and addenda, if any therefore, as prepared by TO Design, LLC hereby proposes to construct and complete each separate trade for *Play Area Upgrades at Mill Pond Park*, all in accordance therewith for the sum of:

BASE BID IN NUMBERS:

BASE BID IN WORDS:

ADD ALTERNATE #1 – Play Structure upgrades

Lump Sum

ADD ALTERNATE #2 –removal of existing and installation of new retaining wall

Lump Sum

2. In submitting this bid, it is understood that the right is reserved by the Owner to reject any and all bids. If written notice of acceptance of this bid is mailed or delivered to the undersigned after the opening thereof, or at any time thereafter before this bid is withdrawn, the undersigned agrees to execute and deliver a contract in the prescribed form and furnish the required bond within ten (10) days after the Contract is presented to him for signature.
3. Each bid must contain the following items:
 - a) Form of Bid (all pages) with required signatures.
 - b) Certificate of Insurance.

All required forms must be filled out completely. The owner may consider as non-responsive any bid that is incomplete or not submitted in the prescribed format.

4. The Contract award will be made to the lowest responsible bidder as outlined above. The **owner** further reserves the right to increase or decrease the award depending on the

availability of funds. The **owner** reserves the right to reject any and all bids, and to waive any formality in the bids when such action is deemed to be in the best interest of the owner.

5. Addendum Receipt: The receipt of the Addendum to Drawings and Specifications is hereby acknowledged.

Addendum No. _____

Dated: _____

Addendum No. _____

Dated: _____

Official Address

_____ By: _____

_____ Title: _____

Bidder's Signature

Date

TOWN OF NEWINGTON

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Play Area Upgrades at Mill Pond Park

011000	SUMMARY
012300	ALTERNATES
020000	GENERAL SITEWORK
311000	SITE CLEARING
312000	EARTH MOVING
312500	EROSION CONTROL
323330	GRAVEL
334600	SUBDRAINAGE

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TOWN OF NEWINGTON

SUMMARY

Play Area Upgrades at Mill Pond Park

SECTION 011000 – SUMMARY

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. This Section includes the following:
 - 1. Work covered by the Contract Documents.
 - 2. Type of Contract.
 - 3. Use of premises.
 - 4. Work restrictions.
 - 5. Specification formats and conventions.
 - 7. Wage rates
 - 8. Time limit
 - 9. Phasing
 - 10. Contractor Qualifications

1.3 WORK COVERED BY CONTRACT DOCUMENTS

- A. Project Identification: Play area upgrades at Mill Pond Park
 - 1. Project Location: Garfield Street, Newington, Connecticut
- B. Owner: Town of Newington Connecticut
- C. Landscape Architect: TO Design LLC
- D. The Work consists of the following:
 - 1. Removing play surface and base material, installing new base material and underdrains, modular block retaining wall, repairs/upgrades to play equipment

TOWN OF NEWINGTON

SUMMARY

Play Area Upgrades at Mill Pond Park

1.4 TYPE OF CONTRACT

- A. This project will be constructed under two contracts.

1.5 WORK UNDER SEPARATE CONTRACTS

- A. General: Cooperate fully with separate contractors so work on those contracts may be carried out smoothly, without interfering with or delaying work under this Contract or other contracts. Coordinate the Work of this Contract with work performed under separate contracts.
- B. Subsequent Work: Owner will have a separate contract for the following additional work to be performed at site following Substantial Completion. Completion of that work will depend on successful completion of preparatory work under this Contract.
 - 1. Installation of safety surfacing

1.6 USE OF PREMISES

- A. The project area will be closed to the public during construction

1.7 WORK RESTRICTIONS

- A. On-Site Work Hours: Work shall be generally performed during normal business working hours of 7:00 a.m. to 5:00 p.m., Monday through Friday, accept otherwise indicated.

1.8 SPECIFICATION FORMATS AND CONVENTIONS

- A. Specification Format: The Specifications are organized into Divisions and Sections using the 16-division format and CSI/CSC's "MasterFormat" numbering system.
 - 1. Section Identification: The Specifications use Section numbers and titles to help cross-referencing in the Contract Documents. Sections in the Project Manual are in numeric sequence; however, the sequence is incomplete because all available Section numbers are not used. Consult the table of contents at the beginning of the Project Manual to determine numbers and names of Sections in the Contract Documents.

TOWN OF NEWINGTON

SUMMARY

Play Area Upgrades at Mill Pond Park

2. Division 1: Sections in Division 1 govern the execution of the Work of all Sections in the Specifications.
- B. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
1. Abbreviated Language: Language used in the Specifications and other Contract Documents is abbreviated. Words and meanings shall be interpreted as appropriate. Words implied, but not stated, shall be inferred as the sense requires. Singular words shall be interpreted as plural, and plural words shall be interpreted as singular where applicable as the context of the Contract Documents indicates.
 2. Imperative mood and streamlined language are generally used in the Specifications. Requirements expressed in the imperative mood are to be performed by Contractor. Occasionally, the indicative or subjunctive mood may be used in the Section Text for clarity to describe responsibilities that must be fulfilled indirectly by Contractor or by others when so noted.
 - a. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.
- 1.9 TIME LIMIT
- A. The Contractor shall complete the work within 120 calendar days following written notification of the award by the Town of Newington
- 1.10 WAGE RATES
- A. State wage rates shall apply to this project. (attached)
- 1.11 PREVAILING WAGE RATES
- A. The Contractor shall fully comply with all provisions of Connecticut General Statutes (CGS) 31-53 and shall be subject to such sanctions mandated for violations of said Public Act.
 - B. The wages paid on an hourly basis to any mechanic, laborer, or workman employed upon the work herein contracted to be done and the amount of payment or contribution paid or payable on behalf of each employee to any

TOWN OF NEWINGTON

SUMMARY

Play Area Upgrades at Mill Pond Park

employee welfare fund, as defined in CGS 31-53 shall be at a rate equal to the rate customary or prevailing for the same work in the same trade or occupation in the Town in which such public works project is being constructed. Any contractor who is not obligated by agreement to make payment or contribution on behalf of such employees to any such employee welfare fund shall pay to each employee as part of his wages the amount of payment or contribution for his classification on each pay day,=.

- C. The contractor shall not be paid in accordance with the payment provisions of these Contract Bidding Documents unless the contractor is in full compliance with the mandates of CGS 31-53.

END OF SECTION 011000

Project: Play Area Upgrades At Mill Pond Park

**Minimum Rates and Classifications
for Heavy/Highway Construction**

ID#: H 21771

**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:

Project Town: Newington

FAP Number:

State Number:

Project: Play Area Upgrades At Mill Pond Park

CLASSIFICATION	Hourly Rate	Benefits
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01) 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 5 and 7**

1) Boilermaker	33.79	34% + 8.96
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1a) Bricklayer, Cement Masons, Cement Finishers, Plasterers, Stone Masons	32.50	28.34
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2) Carpenters, Piledrivermen	31.45	23.54
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As of: Tuesday, February 23, 2016

Project: Play Area Upgrades At Mill Pond Park

2a) Diver Tenders	31.45	23.54
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3) Divers	39.91	23.54
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03a) Millwrights	31.84	23.99
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4) Painters: (Bridge Construction) Brush, Roller, Blasting (Sand, Water, etc.), Spray	45.95	19.35
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4a) Painters: Brush and Roller	31.52	19.35
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4b) Painters: Spray Only	34.52	19.35
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4c) Painters: Steel Only	33.02	18.55
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Project: Play Area Upgrades At Mill Pond Park

4d) Painters: Blast and Spray	34.52	19.35
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4e) Painters: Tanks, Tower and Swing	33.52	19.35
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5) Electrician (Trade License required: E-1,2 L-5,6 C-5,6 T-1,2 L-1,2 V-1,2,7,8,9)	37.50	23.91 + 3% of gross wage
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6) Ironworkers: Ornamental, Reinforcing, Structural, and Precast Concrete Erection	34.47	31.09 + a
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7) Plumbers (Trade License required: (P-1,2,6,7,8,9 J-1,2,3,4 SP-1,2) and Pipefitters (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
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---LABORERS----

8) Group 1: Laborer (Unskilled), Common or General, acetylene burner, concrete specialist	27.85	18.30
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Project: Play Area Upgrades At Mill Pond Park

9) Group 2: Chain saw operators, fence and guard rail erectors, pneumatic tool operators, powdermen	28.10	18.30
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10) Group 3: Pipelayers	28.35	18.30
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11) Group 4: Jackhammer/Pavement breaker (handheld); mason tenders (cement/concrete), catch basin builders, asphalt rakers, air track operators, block paver, curb setter and forklift operators	28.35	18.30
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12) Group 5: Toxic waste removal (non-mechanical systems)	29.85	18.30
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13) Group 6: Blasters	29.60	18.30
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Group 7: Asbestos/lead removal, non-mechanical systems (does not include leaded joint pipe)	28.85	18.30
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Group 8: Traffic control signalmen	16.00	18.30
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Project: Play Area Upgrades At Mill Pond Park

Group 9: Hydraulic Drills	28.60	18.30
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---LABORERS (TUNNEL CONSTRUCTION, FREE AIR). Shield Drive and
Liner Plate Tunnels in Free Air.---

13a) Miners, Motormen, Mucking Machine Operators, Nozzle Men, Grout Men, Shaft & Tunnel Steel & Rodmen, Shield & Erector, Arm Operator, Cable Tenders	32.22	18.30 + a
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13b) Brakemen, Trackmen	31.28	18.30 + a
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---CLEANING, CONCRETE AND CAULKING TUNNEL---

14) Concrete Workers, Form Movers, and Strippers	31.28	18.30 + a
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15) Form Erectors	31.60	18.30 + a
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Project: Play Area Upgrades At Mill Pond Park

---ROCK SHAFT LINING, CONCRETE, LINING OF SAME AND TUNNEL
IN FREE AIR:----

16) Brakemen, Trackmen, Tunnel Laborers, Shaft Laborers	31.28	18.30 + a
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17) Laborers Topside, Cage Tenders, Bellman	31.17	18.30 + a
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18) Miners	32.22	18.30 + a
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---TUNNELS, CAISSON AND CYLINDER WORK IN COMPRESSED
AIR: ----

18a) Blaster	38.53	18.30 + a
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19) Brakemen, Trackmen, Groutman, Laborers, Outside Lock Tender, Gauge Tenders	38.34	18.30 + a
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As of: Tuesday, February 23, 2016

Project: Play Area Upgrades At Mill Pond Park

20) Change House Attendants, Powder Watchmen, Top on Iron Bolts	36.41	18.30 + a
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21) Mucking Machine Operator	39.11	18.30 + a
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---TRUCK DRIVERS---(*see note below)

Two axle trucks	28.58	20.24 + a
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Three axle trucks; two axle ready mix	28.68	20.24 + a
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Three axle ready mix	28.73	20.24 + a
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Four axle trucks, heavy duty trailer (up to 40 tons)	28.78	20.24 + a
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Project: Play Area Upgrades At Mill Pond Park

Four axle ready-mix	28.83	20.24 + a
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Heavy duty trailer (40 tons and over)	29.03	20.24 + a
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Specialized earth moving equipment other than conventional type on-the road trucks and semi-trailer (including Euclids)	28.83	20.24 + a
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---POWER EQUIPMENT 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. & Over, Tunnel Boring Machines. (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 under 2 cubic yards; Cranes (under 100 ton rated capacity), Gradall; 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: Play Area Upgrades At Mill Pond Park

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 Spreader; 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.	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 Mandrel).	34.86	23.05 + a
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Group 8: Mechanic, Grease Truck Operator, Hydroblaster, Barrier Mover, Power Stone Spreader; Welder; Work Boat under 26 ft.; Transfer Machine.	34.46	23.05 + a
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Group 9: Front End Loader (under 3 cubic yards), Skid Steer Loader regardless of attachments (Bobcat or Similar); Fork Lift, Power Chipper; Landscape Equipment (including hydroseeder).	34.03	23.05 + a
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Project: Play Area Upgrades At Mill Pond Park

Group 10: Vibratory Hammer, Ice Machine, Diesel and Air Hammer, etc. 31.99 23.05 + a

Group 11: Conveyor, Earth Roller; Power Pavement Breaker (whiphammer), Robot Demolition Equipment. 31.99 23.05 + a

Group 12: Wellpoint Operator. 31.93 23.05 + a

Group 13: Compressor Battery Operator. 31.35 23.05 + a

Group 14: Elevator Operator; Tow Motor Operator (Solid Tire No Rough Terrain). 30.21 23.05 + a

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

Group 16: Maintenance Engineer/Oiler 29.15 23.05 + a

Project: Play Area Upgrades At Mill Pond Park

Group 17: Portable asphalt plant operator; portable crusher plant operator; portable concrete plant operator.	33.46	23.05 + a
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Group 18: Power Safety Boat; Vacuum Truck; Zim Mixer; Sweeper; (minimum for any job requiring CDL license).	31.04	23.05 + a
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**NOTE: SEE BELOW

---LINE CONSTRUCTION---(Railroad Construction and Maintenance)---

20) Lineman, Cable Splicer, Technician	45.43	6.25%+19.20
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21) Heavy Equipment Operator	40.89	6.25%+17.18
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22) Equipment Operator, Tractor Trailer Driver, Material Men	38.62	6.25%+16.68
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Project: Play Area Upgrades At Mill Pond Park

23) Driver Groundmen	24.99	6.25%+10.87
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23a) Truck Driver	34.07	6.25%+15.41
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---LINE CONSTRUCTION---

24) Driver Groundmen	30.92	6.5% + 9.70
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25) Groundmen	22.67	6.5% + 6.20
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26) Heavy Equipment Operators	37.10	6.5% + 10.70
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27) Linemen, Cable Splicers, Dynamite Men	41.22	6.5% + 12.20
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Project: Play Area Upgrades At Mill Pond Park

28) Material Men, Tractor Trailer Drivers, Equipment Operators

35.04

6.5% + 10.45

As of:

Tuesday, February 23, 2016

Project: Play Area Upgrades At Mill Pond Park

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.

~~Connecticut General Statute Section 31-55a: Annual Adjustments to wage rates by contractors doing state work ~~

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.

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, February 23, 2016

Project: Play Area Upgrades At Mill Pond Park

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, February 23, 2016

CONNECTICUT DEPARTMENT OF LABOR
WAGE AND WORKPLACE STANDARDS DIVISION

CONTRACTORS WAGE CERTIFICATION FORM
Construction Manager at Risk/General Contractor/Prime Contractor

I, _____ of _____
Officer, Owner, Authorized Rep. Company Name

do hereby certify that the _____
Company Name

Street

City

and all of its subcontractors will pay all workers on the

Project Name and Number

Street and City

the wages as listed in the schedule of prevailing rates required for such project (a copy of which is attached hereto).

Signed

Subscribed and sworn to before me this _____ day of _____, _____.

Notary Public

Return to:

Connecticut Department of Labor
Wage & Workplace Standards Division
200 Folly Brook Blvd.
Wethersfield, CT 06109

Rate Schedule Issued (Date): _____

[New] In accordance with Section 31-53b(a) of the C.G.S. each contractor shall provide a copy of the OSHA 10 Hour Construction Safety and Health Card for each employee, to be attached to the first certified payroll on the project.

In accordance with Connecticut General Statutes, 31-53 Certified Payrolls with a statement of compliance shall be submitted monthly to the contracting agency.											PAYROLL CERTIFICATION FOR PUBLIC WORKS PROJECTS										Connecticut Department of Labor Wage and Workplace Standards Division 200 Folly Brook Blvd. Wethersfield, CT 06109				
CONTRACTOR NAME AND ADDRESS:											SUBCONTRACTOR NAME & ADDRESS						WORKER'S COMPENSATION INSURANCE CARRIER								
PAYROLL NUMBER		Week-Ending Date		PROJECT NAME & ADDRESS							Total ST Hours		BASE HOURLY RATE		TYPE OF FRINGE BENEFITS Per Hour 1 through 6 (see back)		GROSS PAY FOR ALL WORK PERFORMED THIS WEEK		TOTAL DEDUCTIONS				GROSS PAY FOR THIS PREVAILING RATE JOB		CHECK # AND NET PAY
PERSON/WORKER, ADDRESS and SECTION	APPR RATE %	MALE/FEMALE AND RACE*	WORK CLASSIFICATION	DAY AND DATE						Total O/T Hours	TOTAL FRINGE BENEFIT PLAN CASH	FICA	FEDERAL WITH-HOLDING	STATE WITH-HOLDING	LIST OTHER	GROSS PAY FOR THIS PREVAILING RATE JOB	CHECK # AND NET PAY								
				S	M	T	W	TH	F									S	HOURS WORKED EACH DAY						
Trade License Type & Number - OSHA 10 Certification Number																									

12/9/2013 *IF REQUIRED
WWS-CPI

*SEE REVERSE SIDE

PAGE NUMBER ____ OF

***FRINGE BENEFITS EXPLANATION (P):**

Bona fide benefits paid to approved plans, funds or programs, except those required by Federal or State Law (unemployment tax, worker’s compensation, income taxes, etc.).

Please specify the type of benefits provided:

- 1) Medical or hospital care _____ 4) Disability _____
- 2) Pension or retirement _____ 5) Vacation, holiday _____
- 3) Life Insurance _____ 6) Other (please specify) _____

CERTIFIED STATEMENT OF COMPLIANCE

For the week ending date of _____,

I, _____ of _____, (hereafter known as Employer) in my capacity as _____ (title) do hereby certify and state:

Section A:

1. All persons employed on said project have been paid the full weekly wages earned by them during the week in accordance with Connecticut General Statutes, section 31-53, as amended. Further, I hereby certify and state the following:

- a) The records submitted are true and accurate;
- b) The rate of wages paid to each mechanic, laborer or workman and the amount of payment or contributions paid or payable on behalf of each such person to any employee welfare fund, as defined in Connecticut General Statutes, section 31-53 (h), are not less than the prevailing rate of wages and the amount of payment or contributions paid or payable on behalf of each such person to any employee welfare fund, as determined by the Labor Commissioner pursuant to subsection Connecticut General Statutes, section 31-53 (d), and said wages and benefits are not less than those which may also be required by contract;
- c) The Employer has complied with all of the provisions in Connecticut General Statutes, section 31-53 (and Section 31-54 if applicable for state highway construction);
- d) Each such person is covered by a worker’s compensation insurance policy for the duration of his employment which proof of coverage has been provided to the contracting agency;
- e) The Employer does not receive kickbacks, which means any money, fee, commission, credit, gift, gratuity, thing of value, or compensation of any kind which is provided directly or indirectly, to any prime contractor, prime contractor employee, subcontractor, or subcontractor employee for the purpose of improperly obtaining or rewarding favorable treatment in connection with a prime contract or in connection with a prime contractor in connection with a subcontractor relating to a prime contractor; and
- f) The Employer is aware that filing a certified payroll which he knows to be false is a class D felony for which the employer may be fined up to five thousand dollars, imprisoned for up to five years or both.

2. OSHA~The employer shall affix a copy of the construction safety course, program or training completion document to the certified payroll required to be submitted to the contracting agency for this project on which such persons name first appears.

(Signature) (Title) Submitted on (Date)



Opportunity * Guidance * Support



THIS IS A PUBLIC WORKS PROJECT

Covered by the

PREVAILING WAGE LAW

CT General Statutes Section 31-53

**If you have QUESTIONS regarding your wages
CALL (860) 263-6790**

Section 31-55 of the CT State Statutes requires every contractor or subcontractor performing work for the state to post in a prominent place the prevailing wages as determined by the Labor Commissioner.

TOWN OF NEWINGTON

GENERAL SITEWORK

Play Area Upgrades at Mill Pond Park

SECTION 012300 – ALTERNATES

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. This Section includes administrative and procedural requirements for alternates.

1.3 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the Bidding Requirements that may be added to the Base Bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 - 1. The cost or credit for each alternate is the net addition to the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.4 PROCEDURES

- A. Coordination: Modify or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Execute accepted alternates under the same conditions as other work of the Contract.

TOWN OF NEWINGTON

GENERAL SITEWORK

Play Area Upgrades at Mill Pond Park

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

1. Add Alternate No. 1 – Play Structure Upgrades
2. Add Alternate No. 2 – Removal of existing timber wall and installation of new modular block wall

END OF SECTION 012300

TOWN OF NEWINGTON

GENERAL SITEWORK

Play Area Upgrades at Mill Pond Park

SECTION 020000 – GENERAL SITEWORK

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 REFERENCES

- A. Form 816: State of Connecticut Department of Transportation Standard Specifications for Roads, Bridges, and Incidental Construction.

1.3 SPECIAL NOTICE

- A. The project site is a public park.

1.4 DESCRIPTION

- A. This project involves the demolition of existing surfacing, installation of drainage, play structure repairs, and installation of gravel base for surfacing by others.

1.5 QUALITY ASSURANCE

- A. Obtain and pay for all required inspections, permits and fees. Provide notices required by governmental authorities.
- B. Comply with all applicable local, state and federal requirements regarding materials, methods of work and disposal of excess and waste materials.

1.6 GENERAL JOB CONDITIONS

- A. Locate and identify existing underground and overhead services and utilities within contract limit work areas. Provide adequate means of protection of utilities and services designated to remain. Repair utilities damage during sitework operations at Contractor's expense.

TOWN OF NEWINGTON

GENERAL SITEWORK

Play Area Upgrades at Mill Pond Park

- B. Protect and maintain all existing utility appurtenances and improvements except items designated for removal.
 - C. When uncharted or incorrectly charted underground piping or other utilities and services are encountered during sitework operations, notify the applicable utility company immediately to obtain procedure directions. Cooperate with the applicable utility company in maintaining active service operation.
 - D. Locate, protect and maintain bench marks, monuments, control points and project engineering reference points. Re-establish disturbed or destroyed items at Contractor's expense.
 - E. Perform sitework operations to assure minimum interference with streets, walks and other adjacent facilities.
 - F. Obtain written permission when required to close or obstruct driveways, walks or adjacent facilities. Provide alternative routes around closed or obstructed traffic ways when required.
 - G. Control dust caused by the work with calcium chloride conforming to ASTM D-98, or water. Special care shall be taken by the Contractor to control dust and debris due to construction. Dampen surfaces prior to significant earthwork or other grading operations and clean the site on a regular basis to minimize unsightly or dangerous debris.
 - H. Protect paving and other services or facilities on site and adjacent to the site from damage caused by sitework operation. Cost of repair and restoration of damaged items shall be at the Contractor's expense.
 - I. Coordinate all work of each section with related work of other sections. Failure to coordinate properly will not reduce the obligation to meet the standards of acceptance of the various elements of work contained herein.
 - J. Examine all work that the work of each section is contingent upon and report any deficiencies to the Owner's Representative. Commencement of work will be construed to mean complete acceptance of the preparatory work of others. No adjustment will be made for discrepancies brought to the Owner's Representative attention after work has begun.
- 1.7 TRAFFIC MAINTENANCE, SAFETY AND PROTECTION
- A. The contractor shall provide for maintenance and protection of traffic, including permits and plans as required per the Town of Newington.

TOWN OF NEWINGTON

GENERAL SITEWORK

Play Area Upgrades at Mill Pond Park

- B. Provide, place, move, maintain and dismantle such barricades, warning signs and lights as necessary to adequately protect the work and provide for public safety.
- C. Furnish flagmen or police as required for the proper direction and control of traffic during the construction period.

1.8 STANDARD SPECIFICATIONS

- A. All reference to the Standard Specifications refers to CT DOT Form 816. A copy of these specifications shall be available on site at all times.

PART 2 - PRODUCTS

2.1 MATERIALS AND EQUIPMENT

- A. As selected by Contractor, except as indicated.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Examine the areas and conditions under which sitework is performed. Do not proceed with the work until unsatisfactory conditions are corrected.

END OF SECTION 020000

TOWN OF NEWINGTON

SITE CLEARING

Play Area Upgrades at Mill Pond Park

SECTION 311000 - SITE CLEARING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Shrubs and grass to remain.
 - 2. Removing existing rubber surfacing and base materials.
 - 3. Remove railroad tie wall.
- B. Related Sections include the following:
 - 1. Division 31 Section "Earth Moving" for soil materials, excavating, backfilling, and site grading.
 - 2. Division 31 Section "Erosion Control" for soil stabilization.

1.3 DEFINITIONS

- A. Topsoil: Natural or cultivated surface-soil layer containing organic matter and sand, silt, and clay particles; friable, pervious, and black or a darker shade of brown, gray, or red than underlying subsoil; reasonably free of subsoil, clay lumps, gravel, and other objects more than 2 inches (50 mm) in diameter; and free of subsoil and weeds, roots, toxic materials, or other nonsoil materials.
- B. Tree Protection Zone: Area surrounding individual trees or groups of trees to be protected during construction, and defined by the drip line of individual trees or the perimeter drip line of groups of trees, unless otherwise indicated.

TOWN OF NEWINGTON

SITE CLEARING

Play Area Upgrades at Mill Pond Park

1.4 MATERIAL OWNERSHIP

- A. Except for stripped topsoil or other materials indicated to remain Owner's property, cleared materials shall become Contractor's property and shall be removed from Project site.

1.5 SUBMITTALS

- A. Photographs or videotape, sufficiently detailed, of existing conditions of trees and plantings, adjoining construction, and site improvements that might be misconstrued as damage caused by site clearing.

1.6 PROJECT CONDITIONS

- A. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during site-clearing operations.
 - 1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction.
 - 2. Provide alternate routes around closed or obstructed traffic ways if required by authorities having jurisdiction.
- B. Utility Locator Service: Engage a utility locator service before site clearing.
- C. Do not commence site clearing operations until temporary erosion and sedimentation control measures are in place.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.1 PREPARATION

- A. Protect and maintain benchmarks and survey control points from disturbance during construction.

TOWN OF NEWINGTON

SITE CLEARING

Play Area Upgrades at Mill Pond Park

3.2 SITE IMPROVEMENTS

- A. Remove existing above- and below-grade improvements as indicated and as necessary to facilitate new construction.
- B. Remove paving and aggregate base as indicated.

3.3 DISPOSAL

- A. Disposal: Remove surplus soil material, unsuitable topsoil, obstructions, demolished materials, and waste materials including trash and debris, and legally dispose of them off Owner's property.
 - 1. Separate recyclable materials produced during site clearing from other nonrecyclable materials. Store or stockpile without intermixing with other materials and transport them to recycling facilities.

END OF SECTION 311000

TOWN OF NEWINGTON

EARTH MOVING

Play Area Upgrades at Mill Pond Park

SECTION 312000 – EARTH MOVING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
- B. Form 816: State of CT Dept. of Transportation Standard Specifications for Roads, Bridges and Incidental Construction.

1.2 SUMMARY

- A. This Section includes, but is not limited to the following:
 - 1. Excavation and legal off-site disposal of unsuitable or excess materials including fill materials, boulders, and overburden soil.
 - 2. Soil structure excavation, placement of bedding or backfilling of storm sewers and utility trenches.
 - 3. Preparation of subgrade for gravel base course.

1.3 REFERENCES

- A. A copy of all the following documents shall be kept at the job site for the duration of the contract
 - 1. Form 816: State of CT Dept. of Transportation Standard Specifications for Roads, Bridges and Incidental Construction.
 - 2. OSHA 24 1926 Safety and Health Regulations for Construction.

1.4 DEFINITIONS

- A. Backfill: Soil material used to fill an excavation.
- B. Borrow Soil: Satisfactory soil imported from off-site for use as fill or backfill.
- C. Excavation: Removal of material encountered above subgrade elevations and to lines and dimensions indicated.

TOWN OF NEWINGTON

EARTH MOVING

Play Area Upgrades at Mill Pond Park

1. Authorized Additional Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions as directed by Architect. Authorized additional excavation and replacement material will be paid for according to Contract provisions for changes in the Work.
 2. Unauthorized Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions without direction by Landscape Architect. Unauthorized excavation, as well as remedial work directed by Landscape Architect, shall be without additional compensation.
- D. Fill: Soil materials used to raise existing grades.
- E. Subgrade: Surface or elevation remaining after completing excavation, or top surface of a fill or backfill immediately below subbase, drainage fill, or topsoil materials.
- F. Utilities: On-site underground pipes, conduits, ducts, and cables, as well as underground services within buildings.
- 1.5 SUBMITTALS / TESTING
- A. Product Data: For the following:
1. Geotextile.
- B. Samples: 12-by-12-inch (300-by-300-mm) sample of separation geotextile.
- 1.6 PROJECT CONDITIONS
- A. The Contractor shall protect existing underground utilities to remain, the location of which is shown approximately on the drawings or which are located in the field. Utilities whose location is not known shall be protected insofar as possible. All costs for repair of broken or damaged utilities will be the responsibility of the Contractor.
- B. Consult official records of existing utilities, both surface and subsurface, and their connections to be fully informed on all existing conditions and limitations as they apply to this work and its relation to other construction work. The Contractor shall contact **Call before you Dig” at 1-800-922-4455** and/or a utility locator service to assist in locating utilities at least 4 working days prior to performing any earthwork operations on the site.
- C. Existing Utilities: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted in writing by Architect and then only after arranging to provide temporary utility services according to requirements indicated.

TOWN OF NEWINGTON

EARTH MOVING

Play Area Upgrades at Mill Pond Park

1. Notify Architect not less than two days in advance of proposed utility interruptions.
2. Do not proceed with utility interruptions without Architects written permission.

PART 2 - PRODUCTS

2.1 GEOTEXTILE FABRIC

- A. Geotextile Filter Fabric shall be Mirafi 500X or approved equal.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earthwork operations.
- B. Protect and maintain erosion and sedimentation controls, which are specified in Division 31 Section "Erosion Control," during earth moving operations.

3.2 DEWATERING

- A. Prevent surface water and ground water from entering excavations, from ponding on prepared subgrades, and from flooding Project site and surrounding area.
- B. Protect subgrades from softening, undermining, washout, and damage by rain or water accumulation.
 1. Reroute surface water runoff away from excavated areas. Do not allow water to accumulate in excavations. Do not use excavated trenches as temporary drainage ditches.

3.3 EXPLOSIVES

- A. Explosives: Do not use explosives.

TOWN OF NEWINGTON

EARTH MOVING

Play Area Upgrades at Mill Pond Park

3.4 EXCAVATION, GENERAL

- A. Excavate to subgrade elevations.

3.5 EXCAVATION FOR UTILITY TRENCHES

- A. Excavate trenches to indicated gradients, lines, depths, and elevations.
- B. Excavate trenches to uniform widths to provide the following clearance on each side of pipe or conduit. Excavate trench walls vertically from trench bottom to 12 inches (300 mm) higher than top of pipe or conduit, unless otherwise indicated.
 - 1. Clearance: 12 inches (300 mm) each side of pipe or conduit or as indicated on drawings.
- C. Trench Bottoms: Excavate trenches 4 inches (100 mm) deeper than bottom of pipe elevation to allow for bedding course. Hand excavate for bell of pipe.
 - 1. Excavate trenches 6 inches (150 mm) deeper than elevation required in rock or other unyielding bearing material to allow for bedding course.

3.6 SUBGRADE INSPECTION

- A. Notify Architect when excavations have reached required subgrade.
- B. If Inspector determines that unsatisfactory soil is present, continue excavation and replace with compacted backfill or fill material as directed.
- C. Authorized additional excavation and replacement material, beyond the limits described in the plans and specifications, will be paid for according to Contract provisions for extra work.
- D. Reconstruct subgrades damaged by freezing temperatures, frost, rain, accumulated water, or construction activities, as directed by Civil Engineer, without additional compensation.

3.7 UNAUTHORIZED EXCAVATION

- A. Fill unauthorized excavation under foundations or wall footings by extending bottom elevation of concrete foundation or footing to excavation bottom, without altering top elevation. Lean concrete fill, with 28-day compressive strength of 2500 psi (17.2 MPa), may be used when approved by Civil Engineer/Special Inspector.

EARTH MOVING

Play Area Upgrades at Mill Pond Park

1. Fill unauthorized excavations under other construction or utility pipe as directed.

3.8 COMPACTION OF SUBGRADE

- A. Compact the subgrade soils with a plate compactor. All soft and yielding material and other portions of the subgrade which will not compact readily when rolled, vibrated or tamped shall be removed and replaced with suitable material. Subgrade shall meet 95% maximum dry unit weight according to ASTM D-1557.
- B. When more than one compacting unit is used, the unit exerting the greatest compactive effort shall be used to make the initial compaction. Any portion of the subgrade which is not accessible to a roller or other compacting unit shall be compacted thoroughly with hand tampers or with approved mechanical vibrators.

3.9 STORAGE OF SOIL MATERIALS

- A. Stockpile borrow soil materials and excavated satisfactory soil materials without intermixing. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.
- B. Stockpile soil materials on site away from edge of excavations. Do not store within drip line of remaining trees.

3.10 UTILITY TRENCH BACKFILL

- A. Place backfill on subgrades free of mud, frost, snow, or ice.
- B. Place and compact crushed stone bedding course on trench bottoms as shown in the Contract Drawings. Shape bedding course to provide continuous support for bells, joints, and barrels of pipes and for joints, fittings, and bodies of conduits.
- C. Place and compact initial backfill of gravel over the utility pipe or conduit.
 1. Carefully compact initial backfill evenly up on both sides and along the full length of utility piping or conduit to avoid damage or displacement of piping or conduit. Coordinate backfilling with testing.
- D. Place and compact final backfill to final subgrade elevation.

EARTH MOVING

Play Area Upgrades at Mill Pond Park

3.11 MOISTURE CONTROL

- A. Uniformly moisten or aerate subgrade and each subsequent fill or backfill soil layer before compaction to within 2 percent of optimum moisture content.
 - 1. Do not place backfill or fill soil material on surfaces that are muddy, frozen, or contain frost or ice.
 - 2. Remove and replace, or scarify and air dry otherwise satisfactory soil material that exceeds optimum moisture content by 2 percent and is too wet to compact to specified dry unit weight.

3.12 GRADING

- A. General: Uniformly grade areas to a smooth surface, free of irregular surface changes. Comply with compaction requirements and grade to cross sections, lines, and elevations indicated.
 - 1. Provide a smooth transition between adjacent existing grades and new grades.
 - 2. Cut out soft spots, fill low spots, and trim high spots to comply with required surface tolerances.

3.13 PROTECTION

- A. Protecting Graded Areas: Protect newly graded areas from traffic, freezing, and erosion. Keep free of trash and debris.
- B. Repair and reestablish grades to specified tolerances where completed or partially completed surfaces become eroded, rutted, settled, or where they lose compaction due to subsequent construction operations or weather conditions.
 - 1. Scarify or remove and replace soil material to depth as directed by Civil Engineer; reshape and recompact.
- C. Where settling occurs before Project correction period elapses, remove finished surfacing, backfill with additional soil material, compact, and reconstruct surfacing.
 - 1. Restore appearance, quality, and condition of finished surfacing to match adjacent work, and eliminate evidence of restoration to greatest extent possible.

TOWN OF NEWINGTON

EARTH MOVING

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3.14 DISPOSAL OF SURPLUS AND WASTE MATERIALS

- A. Disposal: Remove excavated soil, trash, and debris, and legally dispose of it off Owner's property.
- B. Material must be handled in accordance with applicable CT DEEP regulations regarding clean fill, solid waste, and remediation standards.

END OF SECTION 312000

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EROSION CONTROL

Play Area Upgrades at Mill Pond Park

SECTION 312500 – EROSION CONTROL

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. The work of this Section includes, but is not limited to the furnishing of all labor, materials and equipment required to provide silt fences, erosion control linings and any other measures necessary to prevent erosion and resulting sedimentation in areas adjacent to the site improvements.

1.3 REFERENCES

- A. Form 816: "State of Connecticut Department of Transportation, Standard Specifications for Roads, Bridges, and Incidental Construction".
- B. CT Guidelines for Soil Erosion and Sediment Control-2002 published by CT Council on Soil and Water Conservation in cooperation with the Connecticut Department of Environmental Protection.
- C. Qualifications: Engaged firm shall be able to demonstrate experience in the installation of the erosion and sedimentation controls described in the Contract Documents.

1.4 SUBMITTALS

- A. Provide written certification of compliance to the specification for the following:
 - 1. Silt Fence.

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1.5 PROJECT CONDITIONS OR SITE CONDITIONS

- A. Environmental Requirements: Protect adjacent properties and water resources from erosion and sediment damage throughout Work.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Silt Fences:

- 1. Filter Fabric Fence: The fabric used shall be a non-woven material and a minimum of 30-inches high, fastened to stakes as approved by CTDOT.

- a. Grab strength 124 lbs.
- b. Grab elongation 15%
- c. Puncture 65 lbs.
- d. UV Resistance 80@500hrs
- e. Flow Rate 10/gal min/SF

- 2. Posts: Provide 1 ½ x 1 ½" x 4' wood or metal posts

- B. Straw hay bales for catch basin protection shall be free of weed seed.

PART 3 - EXECUTION

3.1 INSTALLATION

A. General:

- 1. Comply with Form 816, Section 2.10.03.

B. Silt Fences:

- 1. Install silt fences as needed to control erosion. Silt fence shall be installed with end runs turned up grade at 45° for a distance of 2'.
- 2. Drive the support posts firmly into the ground so as to maintain the silt fence in a vertical position.

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C. Hay Bales:

1. Hold in place by (2) 2" x 2" x 36" stakes, as detailed on drawings.

3.2 MAINTENANCE AND CLEANING

- A. General: All temporary erosion and sedimentation control devices shall be maintained and cleaned as required from the time of their installation until their final removal. Permanent erosion control devices shall be maintained and cleaned as required until their final acceptance.

B. Erosion Control Supervisor:

1. The Contractor shall name one (1) individual as his sediment and erosion control supervisor whose responsibility will be maintenance and repair of all on-site erosion control measures. He will keep a daily log of his activities and an updated schedule of proposed construction activities. The log shall be made available to the local authority as well as any State/ Federal Inspectors.

- C. Silt Fences: Remove silt as required maintaining the integrity of silt fences. If required, remove the silt fence completely and remove all accumulated silt, then reinstall.

3.3 ADJUSTMENTS AND CLEANUP

- A. At the end of construction and after project areas have been stabilized with vegetation or other permanent site improvements as noted on the drawings, remove and legally dispose of, off site, all non-permanent erosion control devices and restore the damaged areas. Leave the site neat and clean.

END OF SECTION 312500

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GRAVEL

Play Area Upgrades at Mill Pond Park

SECTION 323330 – GRAVEL

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. This section includes the following:
 - 1. Gravel for trenches.
 - 2. base courses for paving.
- B. Related sections:
 - 1. Division 31 Section "Earth Moving" for grading, compaction and trenching requirements.

1.3 REFERENCES

- A. Form 816: "State of Connecticut Department of Transportation Standard Specifications for Roads, Bridges and Incidental Construction".

1.4 SUBMITTALS

- A. Provide written certification of compliance to the Specification for:
 - 1. Gravel.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Trenches: 3/8" stone.

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GRAVEL

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B. Base for P.I.P. surfacing:

Sieve Size	% Passing by Weight
1"	90 – 100
5/8"	50 – 80
1/4"	30 – 50
# 4	15 – 35
# 8	10 – 30
# 30	3 – 5
# 200	0 – 3

PART 3 - EXECUTION

3.1 PRE-INSTALLATION REQUIREMENTS

- A. Secure approval of compacted subgrade by Owner's Representative prior to commencing installation of rolled base.

3.2 INSTALLATION

A. As pavement base

1. Conform to Article 3.02.03 of Form 816.
2. Gravel shall be spread upon the prepared, compacted sub-grade to such depth that this course will be to the specified depth after compaction.
3. If after the material has been spread and shaped, it is found that additional binder is required, it shall be furnished and applied as necessary.
4. The material shall then be shaped, wetted and compacted with a power roller weighing not less than ten tons or an equivalent vibratory roller until thoroughly compacted.
5. The compacting and wetting shall continue until all voids are filled after which this course may be left to dry. Compacting shall continue until this course is thoroughly compacted.
6. Compact each lift to 95 percent of modified AASHTO laboratory density (ASTMD-1557, Method C).

B. As trench backfill

1. See Earth Moving Section 312000.

END OF SECTION 323330

SUBDRAINAGE

Play Area Upgrades at Mill Pond Park

SECTION 334600 – SUBDRAINAGE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes subdrainage systems for the following:
 - 1. Play areas.

1.3 DEFINITIONS

- A. PVC: Polyvinyl chloride plastic.
- B. Subdrainage: Drainage system that collects and removes subsurface water.

1.4 SUBMITTALS

- A. Product Data: For the following:
 - 1. Perforated-wall pipe and fittings.
 - 2. Solid-wall pipe and fittings.

PART 2 - PRODUCTS

2.1 PERFORATED-WALL PIPES AND FITTINGS

- A. Perforated Rigid PVC Sewer Pipe and Fittings: ASTM D 2729, bell-and-spigot ends, for loose joints.

2.2 SOLID-WALL PIPES AND FITTINGS

- A. PVC Sewer Pipe and Fittings: ASTM D 2665, SCH-40, bell-and-spigot ends, for solvent cemented joints.

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SUBDRAINAGE

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2.3 GEOTEXTILE FILTER FABRICS

- A. Description: Fabric of PP or polyester fibers or combination of both, with flow rate range from 110 to 330 gpm/sq. ft. when tested according to ASTM D 4491.
 - 1. Structure Type: Nonwoven, needle-punched continuous filament.
 - 2. Style(s): Flat.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine surfaces and areas for suitable conditions where subdrainage systems are to be installed.
- B. Locate and mark existing utilities, underground structures, and aboveground obstructions before beginning installation and avoid disruption and damage of services.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 EARTHWORK

- A. Excavating, trenching, and backfilling are specified in Division 2 Section "Earth Moving."

3.3 PIPING APPLICATIONS

- A. Underground Subdrainage Piping:
 - 1. Perforated PVC sewer pipe and fittings for loose, bell-and-spigot joints.
- B. Piping:
 - 1. PVC sewer pipe and fittings, couplings, and coupled joints.

3.4 DRAINAGE INSTALLATION

- A. Provide trench width to allow installation of drainage conduit. Grade bottom of trench excavations to required slope, and compact to firm, solid bed for drainage system.

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- B. Lay flat-style geotextile filter fabric in trench and overlap trench sides.
- C. Place supporting layer of drainage course over compacted subgrade and geotextile filter fabric, to compacted depth of not less than 8.5 inches.
- D. Install drainage course and wrap top of drainage course with flat-style geotextile filter fabric.
- E. Place layer of flat-style geotextile filter fabric over top of drainage course, overlapping edges at least 4 inches (100 mm).

3.5 PIPING INSTALLATION

- A. Install piping beginning at low points of system, true to grades and alignment indicated, with unbroken continuity of invert. Bed piping with full bearing in filtering material. Install gaskets, seals, sleeves, and couplings according to manufacturer's written instructions and other requirements indicated.
 - 1. Subdrainage: Install piping pitched down in direction of flow, at a minimum slope of 0.5 percent.
 - 2. Excavate recesses in trench bottom for bell ends of pipe. Lay pipe with bells facing upslope and with spigot end entered fully into adjacent bell.
- B. Use increasers, reducers, and couplings made for different sizes or materials of pipes and fittings being connected. Reduction of pipe size in direction of flow is prohibited.

3.6 PIPE JOINT CONSTRUCTION

- A. Join PVC pipe and fittings according to ASTM D 2665 with solvent cemented joints.

3.7 CLEANING

- A. Clear interior of installed piping and structures of dirt and other superfluous material as work progresses. Maintain swab or drag in piping and pull past each joint as it is completed. Place plugs in ends of uncompleted pipe at end of each day or when work stops.

END OF SECTION 334600