



Asbury Park Housing Authority

HOUSING AUTHORITY & URBAN REDEVELOPMENT AGENCY

New Wrought Iron Perimeter Fencing & Masonry Pier Work  
at the Charles Lumley Homes Site  
located at 1004 Comstock Street & 1025 Second Avenue  
Asbury Park, NJ 07712

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**BID # ITB-AP-48-0-2024/DB**

**BIDs due by June 10, 2024 @ 10:00am**

ASBURY PARK HOUSING AUTHORITY | 1000 ½ THIRD AVENUE ASBURY PARK, NJ 07712



## NOTICE TO BIDDERS

In accordance with the Local Public Contracts Law, N.J.S.A. 40A:11-1 et seq., sealed bids will be received by the Asbury Park Housing Authority (the Authority) on **Monday, June 10, 2024, at 10:00A.M.** prevailing time in the Asbury Park Housing Authority's Conference Room, 1000 ½ Third Avenue, Asbury Park, NJ 07712. Electronic bids will also be received by the Authority at which time and place bids will be opened and read in public for:

**New Wrought Iron Perimeter Fencing & Masonry Pier Work**  
**at**  
**The Charles Lumley Homes Site**  
**Located at 1004 Comstock Street & 1025 Second Avenue**  
**Asbury Park, NJ 07712**

Bidders and the public may attend the bid opening. During the bid opening process, the bidders will be announced as well as bid amounts.

Bid responses must be made on the standard proposal forms, unless otherwise indicated. Physical copies must be enclosed in a sealed package bearing the name and address of the bidder and the **"Iron Premier Fencing"** on the outside, and addressed to Danielle Brandon, at the address above.

Any Bid Addenda will be issued to any bidders who have picked up a BID package.

The information for the Bidders, Form of Bid, and Specifications may be reviewed, obtained and submitted, at no cost, via:

1. Visiting our website at [www.aphanj.org](http://www.aphanj.org). Select Business tab, then select Requests for Proposals. Select appropriate RFP.
2. Copies may also be picked up in person at:


Asbury Park Housing Authority  
1000 ½ Third Avenue  
Asbury Park, NJ 07712

A pre-bid site visit is scheduled for Thursday, May 30, 2024 @ 11:00 AM. Bidders should schedule a site visit if they cannot attend by calling Edwin McDonald, Director of Maintenance, at 732.774.2660 (Ext. 303), [emcdonald@aphanj.org](mailto:emcdonald@aphanj.org)

All questions shall be in written form of Request for information & emailed to MVMK Architecture attention Anthony Vandermark - [anthonyvandermark@mvmkarchitecture.com](mailto:anthonyvandermark@mvmkarchitecture.com), Request for information shall be sent no later than June 3, 2024 - 1:00pm.

Bidders shall comply with the requirements of N.J.S.A. 10:5-31 and N.J.A.C. 17-27 et seq.

Publication Date: May 17, 2024

  
\_\_\_\_\_  
Shemea Marshall, Executive Director



## **ASBURY PARK HOUSING AUTHORITY GENERAL INSTRUCTIONS**

### **1. SUBMISSION OF BIDS**

A. Sealed bids shall be received by the Asbury Park Housing Authority ("Authority") in accordance with public advertisement as required by law, a copy of said notice being attached hereto and made a part of these specifications.

B. Each bid shall be submitted on the proposal form attached, in a) sealed envelope or b) electronic submission.

- (1) Addressed to Danielle Brandon
- (2) Bearing the name and address of the bidder on the outside
- (3) Clearly marked "BID" with the name of the item(s) being bid. Provide One (1) Original & One (1) copy of the bid. **Faxed or emailed bids will NOT be accepted.**
- (4) Visiting our website at [www.aphanj.org](http://www.aphanj.org). Select Business tab, then select Requests for Proposals. Select appropriate RFP.

C. It is the bidder's responsibility to see that bids are presented to the Purchasing Agent on or before the hour and at the place designated. Bids may be hand delivered or mailed. **If the bid is sent by express mail, the designation in B. above must also appear on the outside of the express company envelope.** Bids received after the designated time and date will be returned unopened.

D. The Authority reserves the right to postpone the date for presentation and opening of bids and will give written notice of any such postponement to each prospective bidder as required by law.

E. Sealed bids forwarded before the time of opening of bids may be withdrawn upon written application of the bidder. Once bids have been opened, they shall remain firm for a period of sixty (60) calendar days.

F. Each bid proposal form must give the full business address, business phone, fax, e-mail, the contact person of the bidder, and be signed by an authorized representative as follows:

- Bids by partnerships must be signed in the partnership name by one of the members of the partnership or by an authorized representative followed by the signature and designation of the person signing.
- Bids by corporations must be signed in the legal name of the corporation, followed by the name of the State in which incorporated and must contain the signature and designation of the president, secretary or other person authorized to bind the corporation in the matter.
- Bids by sole-proprietorship shall be signed by the proprietor.



- When requested, satisfactory evidence of the authority of the officer signing shall be furnished.

G. Multiple Bids Not Accepted

More than one bid from an individual, a firm or partnership, a corporation or association under the same or different names shall not be considered.

H. Official Request for Bid packages are available from at the office of 1000 ½ Third Avenue, Asbury Park, NJ 07712 and via the Authority website at [www.aphanj.org](http://www.aphanj.org) at no cost to the prospective bidders. All addenda will be forwarded to any bidder who has picked up a bid package.

I. Results of all bids will be read at the BID opening.

## 2. PREPARATION OF BIDS (PRICING INFORMATION AND FORMS)

A. The Authority is exempt from any local, state or federal sales, use or excise tax and will not pay for New Jersey State Sales and Use Tax included in any invoices.

B. Any quotation showing any erasure alteration must be initialed by the bidder in ink. Unit prices and totals are to be inserted in spaces provided. Prices must be written in both words and figures, with the price written in words governing in the event of any inconsistency. In case of any error in extensions, the unit price shall be considered the bid.

C. Failure to sign and give all information in the bid may result in the bid being rejected.

D. Estimated Quantities (Open-End Contracts, Purchase as Needed) The Authority has attempted to identify the item(s) and the estimated amounts of each item bid to cover its requirements; however, past experience shows that the amount ordered may be different than that submitted for bidding. The right is reserved to decrease or increase the quantities specified in the specifications pursuant to N.J.A.C. 5:30-11.2 and 11.10. *NO MINIMUM PURCHASE IS IMPLIED OR GUARANTEED.*

E. Good and Services Contracts: Bidders shall insert prices for furnishing goods and services required by these specifications. Prices shall be net including any charges for packing, crating, containers etc. All transportation charges shall be fully prepaid by the contractor, F.O.B. destination and placement at locations specified by the AUTHORITY. No additional charges will be allowed for any transportation costs resulting from partial shipments made at vendor's convenience when a single shipment is ordered.

F. Any bidder may withdraw its bid at any time before the time set for receipt of bids. No bid may be withdrawn in the 60 day period after the bids are received.

G. All forms shall be completed and attached to the bid proposal. **BIDDER IS ALERTED TO THE BID DOCUMENT CHECKLIST PAGE.**

H. **Alternates.** Bidders must fill in its bid for the base contract scope of work, plus all alternates. The Authority reserves the right to award the bid to the lowest bid price for the base bid plus any alternates that are chosen in its sole discretion.



I.

### **3. FIRM FIXED CONTRACT**

This is a firm fixed contract, prices firm, with no price escalation.

### **4. INTERPRETATIONS AND ADDENDA**

A. The bidder understands and agrees that its bid is submitted on the basis of the specifications prepared by the Authority. The bidder accepts the obligation to become familiar with these specifications.

B. Bidders are expected to examine the specifications and related documents with care and observe all their requirements. Ambiguities, errors or omissions noted by bidders should be promptly reported in writing to the Purchasing Agent. In the event the bidder fails to notify the Authority of such ambiguities, errors or omissions, the bidder shall be bound by the bid.

C. No oral interpretation of the meaning of the specifications will be made to any bidder. Every request for an interpretation shall be in writing, addressed to Danielle Brandon, referencing the Contract Name in the subject line, at **dbrandon@aphanj.org**. In order to be given consideration, written requests for interpretation and or clarification must be received at last three (3) business days prior to the date fixed for the opening of the bids.

D. All interpretations, clarifications and any supplemental instructions will be in the form of written addenda to the specifications, and will be distributed to all prospective bidders. All addenda so issued shall become part of the specification and bid documents, and shall be acknowledged by the bidder by completing the Acknowledgement of Receipt of Addenda form. The Authority's interpretations or corrections thereof shall be final.

Pursuant to N.J.S.A. 40A:11-23(c)(1) when issuing addenda, the Authority shall provide required notice prior to official receipt of bids to any person who has submitted a bid or who has received a bid package.

E. Discrepancies in Bids

1. If the amount shown in words and its equivalent figures do not agree, the written words shall be binding. Ditto marks are not considered writing or printing and shall not be used.
2. In the event that there is a discrepancy between the unit prices and the extended totals, the unit price shall prevail. In the event there is an error of the summation of the extended totals, the computation by the Authority of the extended totals shall govern.

### **5. BRAND NAMES, STANDARDS OF QUALITY AND PERFORMANCE**

A. Brand names and or descriptions used in this bid are to acquaint bidders with the type of commodity desired and will be used as a standard by which alternate or competitive materials offered will be judged. Competitive items must be equal to the standard described and be of the same quality of work.



B. Variations between the goods and services described and the goods and services offered are to be fully identified and explained by the bidder on a separate sheet and submitted with the bid proposal form. Vendor's literature will not suffice in explaining exceptions to these specifications. In the absence of any exceptions by the bidder, it will be presumed and required that materials as described in the proposal be delivered.

C. It is the responsibility of the bidder to demonstrate the equivalency of goods and services offered. The Authority reserves the right to evaluate equivalency of a product which, in its deliberations, meets its requirements.

D. In submitting its bid, the bidder certifies that the goods or services to be furnished will not infringe upon any valid patent or trademark and that the successful bidder shall, at its own expense, defend any and all actions or suits charging such infringement, and will save the Authority harmless from any damages resulting from such infringement.

E. Only manufactured and farm products of the United States, wherever available, shall be used pursuant to N.J.S.A. 40A:11-18.

F. The contractor shall guarantee any or all goods and services supplied under these specifications. Defective or inferior goods shall be replaced at the expense of the contractor. The contractor will be responsible for return freight or restocking charges.

G. If awarded the contract or purchase order, the contractor agrees to comply with all applicable Occupational Safety and Health Administration code requirements.

## **6. METHOD OF CONTRACT AWARD**

A. Award will be made the lowest responsible bidder. The authority reserves the right to accept or reject any or all bids, and to waive minor identified irregularities and technicalities if it is in its best interest to do so.

B. The authority reserves the right to award equal or tie bids at their discretion to any one of the tie bidders.

C. The Authority reserves the right to choose which alternates, if any, will become part of the Contract. The bid will be awarded based on the base bid plus any alternates chosen by the Authority.

D. The form of contract will be submitted by the Authority to the successful bidder. Terms of the specifications/bid package prevail. Bidder exceptions must be formally accepted by the Authority; material exceptions shall not be approved.

## **7. CAUSES FOR REJECTING BIDS**

Bids may be rejected for any of the following reasons:

A. All bids may be rejected pursuant to N.J.S.A. 40A:11-13.2;

B. If more than one bid is received from an individual, firm or partnership, corporation or association under the same name;

C. Multiple bids from an agent representing competing bidders;



D. The bid is inappropriately unbalanced;

E. If the successful bidder fails to enter into a contract within 21 days, Sundays and holidays excepted, or as otherwise agreed upon by the parties to the contract. In this case at its option, the AUTHORITY may accept the bid of the next lowest responsible bidder. (N.J.S.A. 40A:11-24b).

## **8. CHALLENGE TO SPECIFICATIONS**

Any prospective bidder who wishes to challenge a bid specification shall file such challenge in writing with the contracting agent no less than three business days prior to the opening of the bids. Challenges filed after that time shall be considered void and having no impact on the contracting unit or the award of contract.

## **9. NON-COLLUSION AFFIDAVIT – N.J.S.A. 52:34-15**

The Non-Collusion Affidavit, which is part of these specifications, shall be properly executed and submitted intact with the proposal.

## **10. NEW JERSEY ANTI-DISCRIMINATION – N.J.S.A. 10:2-1**

There shall be no discrimination against any employee engaged in the work required to produce the goods and services covered by any contract resulting from this bid, or against any applicant to such employment because of race, religion, sex, national origin, creed, color, ancestry, age, marital status, affectional or sexual orientation, familial status, liability for service in the Armed Forces of the United States, or nationality. This provision shall include, but not be limited to the following: employment upgrading, demotion, transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship. The contractor shall insert a similar provision in all subcontracts for services to be covered by any contract resulting from this bid.

## **11. MANDATORY EEO/AFFIRMATIVE ACTION EVIDENCE – N.J.S.A. 10:5-31 et seq. and N.J.A.C. 17-27 et seq.**

No firm may be issued a contract unless it complies with the affirmative action provisions of N.J.S.A. 10:5-31 et seq. and N.J.A.C. 17:27-1 et seq. as administered by the Division of Purchase & Property Contract Compliance and Audit Unit (Division).

## **12. OWNERSHIP DISCLOSURE–N.J.S.A. 52:25-24.2 (P.L. 1977 c.33)**

N.J.S.A. 52:25-24.2 provides that no business organization, regardless of form of ownership, shall be awarded any contract for the performance of any work or the furnishing of any goods and services, unless, prior to the receipt of the bid or accompanying the bid of said business organization, bidders shall submit a statement setting forth the names and addresses of all persons and entities that own ten percent or more of its stock or interest of any type at all levels of ownership. The disclosure shall be continued until names and addresses of every stockholder, partner, or member exceeding the ten percent ownership, has been listed.

The included State of Ownership shall be completed and attached to the bid proposal. This requirement applies to all forms of business organizations, including, but not limited to, corporations and partnerships, publicly-owned corporations, limited partnerships, limited



liability corporations, limited liability partnerships, sole proprietorship, and Subchapter S corporations.

Not-for-profit entities should fill in their name, check the not-for-profit box, and certify the form. No other information is necessary.

**13. PROOF OF N.J. BUSINESS REGISTRATION CERTIFICATE N.J.S.A. 52:32-44**

Pursuant to N.J.S.A. 52:32-44, the AUTHORITY is prohibited from entering into a contract with an entity unless the bidder/proposer/contractor, and each subcontractor that is required by law to be named in a bid/proposal/contract has a valid Business Registration Certificate on file with the Division of Revenue and Enterprise Services within the Department of the Treasury. Prior to contract award or authorization, the contractor shall provide the Contracting Agency with its proof of business registration and that of any named subcontractor(s).

**14. DISCLOSURE OF INVESTMENT ACTIVITIES IN IRAN, RUSSIA AND BELARUS\***

N.J.S.A. 52:32-55 prohibits State and Local public contracts with persons or entities engaging in certain investment activities in energy or finance sectors of Iran. Bidders must indicate if they comply with the law by certifying the form.

*\*P.L. 2022, c.3 prohibits State and Local public contracts with persons or entities engaging in certain investment activities in Russia or Belarus, but this requirement is currently stayed pending litigation.*

**15. PAY TO PLAY – NOTICE OF DISCLOSURE REQUIREMENT**

Business entities are advised of their responsibility to file an annual disclosure statement of political contributions with the New Jersey Election Law Enforcement Commission (ELEC) pursuant to N.J.S.A. 19:44A-20.27 if they receive contracts in excess of \$50,000 from public entities in a calendar year. Business entities are responsible for determining if filing is necessary. Additional information on this requirement is available from ELEC at 888-3133532 or at [www.elec.state.nj.us](http://www.elec.state.nj.us).

**16. W-9**

Successful bidder/respondent shall complete W-9 Form and submit to Purchasing prior to contract award. The form is available at the following link: [www.irs.gov/pub/irs-pdf/fw9.pdf](http://www.irs.gov/pub/irs-pdf/fw9.pdf)

**17. FORCE MAJEURE**

Neither party shall be responsible for any resulting loss or obligation to fulfill duties as specified in any of the terms or provisions of this Agreement if the fulfillment of any term or provision of this Agreement is delayed or prevented by any revolutions, insurrections, riots, wars, acts of enemies, national emergencies, strikes, floods, fires, acts of God, or by any cause not within the control of the party whose performance is interfered with which by the exercise of reasonable diligence such party is unable to prevent. Additionally, if the fulfillment of any of the terms and provisions of this Agreement is delayed or prevented by any court order, or action or injunction or other such agreement, this Agreement shall become voidable by the Authority by notice to each party.



## **18. PAYMENT**

Contractor shall submit a bill for all work completed during the preceding month. Payment will be made after a properly executed voucher has been received and formally approved on the voucher list at the Authority's regular meeting.

Retainage will be held in the amount of 2% of the amount due on each partial payment, in accordance with N.J.S.A. 40A:11-16.3.

Payments shall be made to Contractor in accordance with New Jersey's Prompt Payment Law, N.J.S.A. 2A:30A-1, et seq., and applicable terms of the Contract. In accordance with N.J.S.A. 40A:11-16.2, two percent (2%) retainage of the amount of due on each partial payment shall be withheld pending completion of the contract.

## **19. TRUTH IN CONTRACTING LAW**

N.J.S.A. 2C:27-10 provides that a person commits a crime if said person offers a benefit to a public servant for an official act performed or to be performed by a public servant, which is a violation of official duty. N.J.S.A. 2C:27-11 provides that a bidder commits a crime if said person, directly or indirectly, confers or agrees to confer any benefit not allowed by law to a public servant.

## **20. INSURANCE AND INDEMNIFICATION**

20.1 **Indemnification** – If awarded the contract or purchase order, the contractor or vendor shall assume the risk of an responsibility for, and agrees to indemnify, defend and save harmless the Authority and its employees from and against any and all claims, demands, suits, actions, judgments and costs and expenses in connection therewith on account of the loss of life, property or injury or damage to the person, body or property of any person or persons whatsoever arising from or resulting from the work, services or materials supplied under the contract or purchase order. This indemnification provision is not limited by, but is in addition to the insurance obligations contained in the contract or purchase order.

20.2 **Insurance Requirements** – If awarded the contract or purchase order, the contractor or vendor shall assume all responsibility for its actions and those of anyone working for it while engaged in or traveling to or from any work, service or activity connected with the work. The contractor shall carry sufficient insurance to protect it and the Authority from any property damage or bodily injury claims arising out of the performance of the work.

Evidence of current insurance coverage shall be provided in the form of a certificate which shall be submitted no later than ten days after receipt of the notice of intent to award the contract or purchase order.

## **21. BID BOND AND CONSENT OF SURETY Applicable Not Applicable**

21.1 **Bid Bond.** The Bidder must submit a guaranty that it will enter into the Contract if awarded the bid as the lowest responsible bidder, in the form of a Bid Bond, substantially in the form in the amount of 10% of the bid, but not in



excess of \$20,000, or, at the option of the bidder, by certified check or cashier's check drawn to the order of the Authority, in conformance with N.J.S.A. 18A:64A-25.16.

- 21.2 **Consent of Surety.** Upon being awarded the Contract, the successful bidder must submit a certification by a surety duly qualified to engage in the surety business in the State of New Jersey, consenting to provide a separate performance bond and labor and material payment bond, both bonds to be in an amount equal to one hundred percent (100%) of the total contract price, conditioned so as to indemnify the Owner against any loss due to the failure of the Contractor to meet its obligations under the awarded Contract, utilizing a form of Consent of Surety substantially in conformance with N.J.S.A. 18A:64A-25.16. Such Consent of Surety, where signed by an attorney-in-fact, shall have attached a copy of the Power of Attorney establishing the unqualified authority of the signer to sign such a commitment by the surety. Such surety shall meet all the requirements of N.J.S.A. 18A:64A-25.17(c).

**The Consent of Surety must guarantee performance for any option to renew that may be exercised by the College.**

**22. PREVAILING WAGE RATES       Applicable       Not Applicable**

Contractor shall be required to strictly comply with the provisions of the New Jersey Prevailing Wage Act, N.J.S.A. 34:11-56.25 et seq. Contractor and each and every Subcontractor (regardless of tier) shall keep an accurate record showing the name, craft or trade, and actual hourly rate of wages paid to each worker employed by it in connection with this Project. Records shall be preserved for a minimum of two (2) years from the date of final payment. All employees directly employed on this Project shall be paid the prevailing rate in this area for each type of work in compliance with the latest applicable determination of the New Jersey Department of Labor & Workforce Development. A copy of such wage-rate determination, if not included in the Bid Solicitation, can be obtained from the Authority. Contractor and all Subcontractors shall post the Prevailing Wage Rates for each craft and classification involved, as determined by the Commissioner of Labor & Workforce Development, including the effective date of any changes thereof, in prominent and easily accessible places at the site of the work and at such place or places as are used by them to pay workers their wages.

**23. PUBLIC WORKS CONTRACTOR REGISTRATION  
 Applicable       Not Applicable**

1. The Public Works Contractor Registration Act (PWCRA) requires that all contractors, including named subcontractors, register with the Department of Labor and Workforce Development **prior** to submitting price proposals or engaging on certain public works contracts that exceed the prevailing wage threshold. The bidder and all named subcontractors in a bid proposal (including out-of-state contractors) must be registered with the Department of Labor's Division of Wage and Hour Compliance at the time proposals **are received** by the public entity.

The PWCRA defines "public works projects" as contracts for "public work" as defined in the Prevailing Wage Act [N.J.S.A. 34:11-56.26(5)]. The term means:



- "Construction, reconstruction, demolition, alteration, or repair work, or maintenance work, including painting and decorating, done under contract and paid for in whole or in part out of the funds of a public body, except work performed under a rehabilitation program.
- "Public work" shall also mean construction, reconstruction, demolition, alteration, or repair work, done on any property or premises, whether or not the work is paid for from public funds,..."
- "Maintenance work" means the repair of existing facilities when the size, type or extent of such facilities is not thereby changed or increased. While "maintenance" includes painting and decorating and is covered under the law, it does not include work such as routine landscape maintenance or janitorial services.

#### **24. Subcontractor Listing Requirement**

**IF APPLICABLE** Bidders shall set forth the name of all Subcontractors to whom they will subcontract the following categories of work as required by N.J.S.A. 40A:11-16 ("**Named Subcontractors**").

- a) Plumbing and gas fitting work     Applicable     Not Applicable
- b) Refrigeration, heating and ventilating systems and equipment  
    Applicable     Not Applicable
- c) Electrical work, including any electrical power plants, tele-data, fire alarm or security systems     Applicable     Not Applicable
- d) Structural steel and ornamental iron work. NOT APPLICABLE
- e) **If the Bidder does not possess the following DPMC Code classification, then the Bidder must name a subcontractor who possess such classification:**

Applicable     Not Applicable

- **DPMC Code** \_\_\_\_\_
- **DPMC Code** \_\_\_\_\_

A List of Subcontractors Form is included in the Bid Solicitation for the identification of the Bidder's Subcontractors and such form must be properly completed and submitted with the Bid.

Bidder shall ensure that all of its Subcontractors are duly licensed and fully capable of timely and competently performing any aspect of the Contract work delegated to them by Bidder. Bidder shall assume full and unqualified responsibility for the Project performance of all its Subcontractors.

#### **25. New Jersey Right to Know Act (N.J.S.A. 34:5A-13)**

The Worker and Community Right to Know Act requires New Jersey public employers to make information available to their employees who are exposed or



potentially exposed to hazardous chemical substances in the workplace. Therefore, the successful bidder must comply with the following:

All direct use containers shall bear a label indicating the chemical name(s) and Chemical Abstract Service numbers of all hazardous substances in the container, and all other substances which are among the five most predominant substances in the container, or their trade secret registry number(s). (N.J.A.C. 8:59-5).

"Container" means a receptacle used to hold a liquid, solid or gaseous substance such as bottles, bags, barrels, cans, cylinders, drums and cartons. (N.J.A.C. 8:59-1.3).



## CHECKLIST

**A. FAILURE TO SUBMIT THE FOLLOWING WITH BID IS MANDATORY CAUSE FOR REJECTION OF BID**

**INITIAL**

- **Acknowledgment of receipt of addenda (if any)** \_\_\_\_\_
- **Bid Bond (if required)** \_\_\_\_\_
- **Consent of Surety (if required)** \_\_\_\_\_
- **Ownership disclosure form** \_\_\_\_\_
- **List of subcontractors (if any)** \_\_\_\_\_
- **Non-Collusion Affidavit** \_\_\_\_\_
- **References** \_\_\_\_\_

**B. MANDATORY ITEM(S), REQUIRED NO LATER THAN TIME PERIOD INDICATED**

- **Business Registration Certificate** – Bidder – Prefer with Bid Response. Required by Law prior to award of contract. \_\_\_\_\_
- **Public Works Contractor Registration Certificate** (if applicable) Prefer with Bid Response. Required by Law prior to award of contract \_\_\_\_\_
- **EEO Certification** \_\_\_\_\_
- **Affirmative Action Evidence** \_\_\_\_\_
- **Disclosure of Investment Activities in Iran** \_\_\_\_\_
- **Certificate of Insurance** - prior to award of contract. \_\_\_\_\_



**ASBURY PARK HOUSING AUTHORITY**

**BID PROPOSAL FORM/SIGNATURE PAGE**

The undersigned declares that he/she has authority to bind the Bidder, that he/she has read the Notice, Instructions, Affidavits and Scope of Services attached, that he/she has determined the conditions affecting the bid and agrees, if this bid is accepted, to furnish and deliver services per the following:

The undersigned is a (circle one): individual proprietorship, partnership, corporation, with:

Principal office at

Company

Federal I.D. # or Social Security #

Address

\_\_\_\_\_  
Signature of Authorized Agent

\_\_\_\_\_  
Type or Print Name

Title of Authorized Agent

Date

Telephone Number

Email Address

Fax Number



## OWNERSHIP DISCLOSURE FORM

BID SOLICITATION #: ITB-AP-48-0-2024/DB VENDOR {BIDDER}: \_\_\_\_\_

### PART 1

PLEASE COMPLETE THE QUESTIONS BELOW BY CHECKING EITHER THE "YES" OR THE "NO" BOX. ALL PARTIES ENTERING INTO A CONTRACT WITH THE STATE ARE REQUIRED TO COMPLETE THIS FORM PURSUANT TO N.J.S.A. 52:25-24.2

- |  | <u>YES</u>               | <u>NO</u>                |
|--|--------------------------|--------------------------|
| 1. Are there any individuals, corporations, partnerships, or limited liability companies owning a <b>10% or greater</b> interest in the Vendor {Bidder}?   | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>IF THE ANSWER TO QUESTION 1 IS "NO", PLEASE SIGN AND DATE THE FORM.</b>   |                          |                          |
| <b>IF THE ANSWER TO QUESTION 1 IS "YES", PLEASE ANSWER QUESTION 2–4 BELOW.</b>   |                          |                          |
| 2. Of those parties owning a <b>10% or greater</b> interest in the Vendor {Bidder}, are any of those parties individuals?  | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Of those parties owning a <b>10% or greater</b> interest in the Vendor {Bidder}, are any of those parties <b>corporations, partnerships, or limited liability companies</b> ?                               | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. If you answer to Question 3 is " <b>YES</b> ", are there any parties owning a <b>10% or greater</b> interest in the <b>corporation, partnership, or limited liability company</b> referenced in Question 3? | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Is the Vendor {Bidder} incorporated as a not-for-profit organization?   | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>IF THE ANSWER TO THIS QUESTION IS "YES", EXECUTE THE CERTIFICATION SECTION.</b>   |                          |                          |
| <b>IF ANY OF THE ANSWERS TO QUESTION 2-4 ARE "YES", PLEASE PROVIDE THE REQUESTED INFORMATION IN PART 2 BELOW.</b>  |                          |                          |

### PART 2

PLEASE PROVIDE FURTHER INFORMATION RELATED TO QUESTIONS 2–4 ANSWERED AS "YES".

If you answered "**YES**" for questions 2, 3, or 4, you must disclose identifying information related to the individuals, corporations, partnerships, and/or limited liability companies owning a 10% or greater interest in the Vendor {Bidder}. Further, if one or more of these entities is itself a corporation, partnership, or limited liability company, you must also disclose all parties that own a 10% or greater interest in that corporation, partnership, or limited liability company. This information is required by statute.

#### INDIVIDUALS

NAME	_____			
ADDRESS 1	_____			
ADDRESS 2	_____			
CITY	STATE	ZIP	_____	

NAME	_____			
ADDRESS 1	_____			
ADDRESS 2	_____			
CITY	STATE	ZIP	_____	

NAME	_____			
ADDRESS 1	_____			
ADDRESS 2	_____			
CITY	STATE	ZIP	_____	

NAME	_____			
ADDRESS 1	_____			
ADDRESS 2	_____			
CITY	STATE	ZIP	_____	

*Attach Additional Sheets If Necessary*



**PART 2 continued**

**PARTNERSHIPS / CORPORATIONS / LIMITED LIABILITY COMPANIES**

<b>ENTITY NAME</b>	_____		
<b>PARTNER NAME</b>	_____		
<b>ADDRESS 1</b>	_____		
<b>ADDRESS 2</b>	_____		
<b>CITY</b>	<b>STATE</b>	<b>ZIP</b>	_____

<b>ENTITY NAME</b>	_____		
<b>PARTNER NAME</b>	_____		
<b>ADDRESS 1</b>	_____		
<b>ADDRESS 2</b>	_____		
<b>CITY</b>	<b>STATE</b>	<b>ZIP</b>	_____

<b>ENTITY NAME</b>	_____		
<b>PARTNER NAME</b>	_____		
<b>ADDRESS 1</b>	_____		
<b>ADDRESS 2</b>	_____		
<b>CITY</b>	<b>STATE</b>	<b>ZIP</b>	_____

***Attach Additional Sheets If Necessary***

In the alternative, to comply with the ownership disclosure requirement, a Vendor {Bidder} with any direct or indirect parent entity which is publicly traded may submit the name and address of each publicly traded entity and the name and address of each person that holds a 10 percent or greater beneficial interest in the publicly traded entity as of the last annual filing with the federal Securities and Exchange Commission or the foreign equivalent, and, if there is any person that holds a 10 percent or greater beneficial interest, also shall submit links to the websites containing the last annual filings with the federal Securities and Exchange Commission or the foreign equivalent and the relevant page numbers of the filings that contain the information on each person that holds a 10 percent or greater beneficial interest. N.J.S.A. 52:25-24.2.

**PART 3**

**PUBLICLY TRADED PARENT COMPANY DISCLOSURE**

Ownership disclosure (name and address) can be met by submitting the last annual filing of an SEC or similar foreign regulator document or providing the website link to such documents, and include relevant page numbers. See N.J.S.A 52:25-24.2.

<b><u>TITLE OF ATTACHED DOCUMENTS OR WEBLINK</u></b>	<b><u>PAGE #</u></b>

***Attach Additional Sheets if Necessary***

**CERTIFICATION**

I, the undersigned, certify that I am authorized to execute this certification on behalf of the Vendor {Bidder}, that the foregoing information and any attachments hereto, to the best of my knowledge are true and complete. I acknowledge that the AUTHORITY of CALDWELL, NJ is relying on the information contained herein, and that the Vendor {Bidder} is under a continuing obligation from the date of this certification through the completion of any contract(s) with the AUTHORITY to notify the AUTHORITY in writing of any changes to the information contained herein; that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification. If I do so, I will be subject to criminal prosecution under the law, and it will constitute a material breach of my agreement(s) with the AUTHORITY, permitting the AUTHORITY to declare any contract(s) resulting from this certification void and unenforceable.

\_\_\_\_\_  
*Signature (Do not enter Vendor ID as a signature)*

\_\_\_\_\_  
*Date*

\_\_\_\_\_  
*Print Name and Title*

\_\_\_\_\_  
*FEIN/SSN*



**NON-COLLUSION AFFIDAVIT  
(N.J.S.A. 52:34-15)**

**State of** \_\_\_\_\_

**County of** \_\_\_\_\_

I, \_\_\_\_\_ residing in \_\_\_\_\_  
(Name of Affiant) (Name of Municipality)

in the AUTHORITY of \_\_\_\_\_ and State of \_\_\_\_\_

of full age, being duly sworn according to law on my oath depose and say that:

I am \_\_\_\_\_ of the Company of \_\_\_\_\_  
(Title or Position) (Name of Firm/Company)

The Bidder making this proposal and that I executed the said Proposal with full authority to do so; that said Bidder/Respondent has not, directly or indirectly entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free, competitive bidding in connection with the above numbered project; and that all statements contained in said Proposal and in this affidavit are true and correct, and made with full knowledge that the Owner relies upon the truth of the statements contained in said Proposal and in the statements contained in this affidavit in awarding the contract. I further warrant that no person or selling agency has been employed or retained to solicit or secure such contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, except bona fide employees or bona fide established commercial or selling agencies maintained by BIDDER.

(Signature of Affiant)

NOTARY

\_\_\_\_\_  
(Type of Print Name of Affiant)

\_\_\_\_\_



## **EXHIBIT A**

### **MANDATORY EQUAL EMPLOYMENT OPPORTUNITY LANGUAGE N.J.S.A. 10:5-31 et seq. (P.L. 1975, C. 127) N.J.A.C. 17:27**

During the performance of this contract, the contractor agrees as follows:

The contractor or subcontractor (where applicable) will not discriminate against any employee or applicant for employment because of age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Except with respect to affectional or sexual orientation and gender identity or expression, the contractor will ensure that equal employment opportunity is afforded to such applicants in recruitment and employment, and that employees are treated during employment, without regard to their age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Such equal employment opportunity shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Authority Compliance Officer setting forth provisions of this nondiscrimination clause.

The contractor or subcontractor (where applicable) will in all solicitations or advertisements for employees placed by or on behalf of the contractor state that all qualified applicants will receive consideration for employment without regard to age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex.

---

(Signature of bidder)



**AFFIRMATIVE ACTION COMPLIANCE NOTICE**     **Applicable**     **Not Applicable**

**FOR CONSTRUCTION CONTRACTS**

**(N.J.S.A. 10:5-31 et seq.) IN.J.A.C. 17:27-1 et seq.)**

This is a contract for construction subject to the Mandatory EEO language applicable to construction contracts. The successful Bidder must, subsequent to notice of Contract award and prior to Contract execution submit Affirmative Action Evidence consisting of an Initial Project Workforce, *i.e.*, Form AA-201. The Bidder also agrees to submit monthly to the College and the New Jersey Department of Treasury, Division of Contract Compliance and EEO a copy of the Monthly Project Workforce Report for the duration of its Contract performance.

A failure to timely submit the required Affirmative Action Evidence or otherwise fail to comply with the requirements of N.J.S.A. 10:5-31 et seq. and N.J.A.C. 17:27-1 et seq. may result in forfeiture of the Bidder's Bid Guarantee and the result in the Bidder's liability for the extra costs incurred in contracting with another contractor to perform the Contract or result in rejection of Bidder's Bid Proposal as non-responsive.

COMPANY: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_

PRINT NAME: \_\_\_\_\_ TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_



## **AMERICANS WITH DISABILITIES ACT OF 1990 Equal Opportunity for Individuals with Disability**

The Contractor and the Owner, do hereby agree that the provisions of Title II of the Americans With Disabilities Act of 1990 (the "Act") (42 U.S.C. S121 01 et seq.), which prohibits discrimination on the basis of disability by public entities in all services, programs, and activities provided or made available by public entities, and the rules and regulations promulgated pursuant there unto, are made a part of this contract. In providing any aid, benefit, or service on behalf of the owner pursuant to this contract, the contractor agrees that the performance shall be in strict compliance with the Act. In the event that the contractor, its agents, servants, employees, or subcontractors violate or are alleged to have violated the Act during the performance of this contract, the contractor shall defend the owner in any action or administrative proceeding commenced pursuant to this Act. The contractor shall indemnify, protect, and save harmless the owner, its agents, servants, and employees from and against any and all suits, claims, losses, demands, or damages, of whatever kind or nature arising out of or claimed to arise out of the alleged violation. The contractor shall, at its own expense, appear, defend, and pay any and all charges for legal services and any and all costs and other expenses arising from such action or administrative proceeding or incurred in connection therewith. In any and all complaints brought pursuant to the owner's grievance procedure, the contractor agrees to abide by any decision of the owner which is rendered pursuant to said grievance procedure. If any action or administrative proceeding results in an award of damages against the owner, or if the owner incurs any expense to cure a violation of the ADA which has been brought pursuant to its grievance procedure, the contractor shall satisfy and discharge the same at its own expense.

The Owner shall, as soon as practicable after a claim has been made against it, give written notice thereof to the contractor along with full and complete particulars of the claim, If any action or administrative proceeding is brought against the owner or any of its agents, servants, and employees, the *owner shall* expeditiously forward or have forwarded to the contractor every demand, complaint, notice, summons, pleading, or other process received by the owner or its representatives.

It is expressly agreed and understood that any approval by the owner of the services provided by the contractor pursuant to this contract will not relieve the contractor of the obligation to comply with the Act and to defend, indemnify, protect, and save harmless the owner pursuant to this paragraph.

It is further agreed and understood that the owner assumes no obligation to indemnify or save harmless the contractor, its agents, servants, employees and subcontractors for any claim which may arise out of their performance of this Agreement. Furthermore, the contractor expressly understands and agrees that the provisions of this indemnification clause shall in no way limit the contractor's obligations assumed in this Agreement, nor shall they be construed to relieve the contractor from any liability, nor preclude the owner from taking any other actions available to it under any other provisions of the Agreement or otherwise at law.



THESE ARE **SAMPLES** OF THE **ONLY** ACCEPTABLE  
BUSINESS REGISTRATION CERTIFICATES.

PREFER SUBMITTED WITH BID RESPONSE  
REQUIRED BY LAW PRIOR TO AWARD OF CONTRACT


**STATE OF NEW JERSEY**  
**BUSINESS REGISTRATION CERTIFICATE**  
**FOR STATE AGENCY AND CASINO SERVICE CONTRACTORS**

DEPARTMENT OF TREASURY  
DIVISION OF REVENUE  
PO BOX 252  
TRENTON, NJ 08646-0252

TAXPAYER NAME: **TAX REGISTRATION TEST ACCOUNT**  
TRADE NAME: **CLIENT REGISTRATION**  
TAXPAYER IDENTIFICATION#: **970-097-382/500**  
SEQUENCE NUMBER: **0107330**  
ADDRESS: **847 ROEBLING AVE  
TRENTON NJ 08611**  
ISSUANCE DATE: **02/14/04**  
EFFECTIVE DATE: **01/01/01**  
FORM-BRC(08-01)

*John S. Tully*  
Acting Director

This Certificate is NOT assignable or transferable. It must be conspicuously displayed at above address.

**STATE OF NEW JERSEY**  
**BUSINESS REGISTRATION CERTIFICATE**

**Taxpayer Name:** TAX REG TEST ACCOUNT  
**Trade Name:**  
**Address:** 847 ROEBLING AVE  
TRENTON, NJ 08611  
**Certificate Number:** 1095907  
**Date of Issuance:** October 14, 2004

**For Office Use Only:**  
20041014112823533



## Disclosure of Investment Activities in Iran

**Bidder Name:**

### Part 1: Certification

*BIDDERS ARE TO COMPLETE PART 1 BY CHECKING **EITHER BOX.***

Pursuant to Public Law 2012, c.25, any person or entity that submits a bid or proposal or otherwise proposes to enter into or renew a contract must complete the certification below to attest, under penalty of perjury, that neither the person or entity, nor any of its parents, subsidiaries, or affiliates, is identified on the Department of Treasury's Chapter 25 list as a person or entity engaging in investment activities in Iran. The Chapter 25 list is found on the Division's website [www.state.nj.us/treasury/purchase/pdf/Chapter25List.pdf](http://www.state.nj.us/treasury/purchase/pdf/Chapter25List.pdf). Bidders must review this list prior to completing the below certification. Failure to complete the certification may render a bidder's proposal non-responsive. If the Director finds a person or entity to be in violation of law, s/he shall take action as may be appropriate and provided by law, rule or contract, including but not limited to, imposing sanctions, seeking compliance, recovering damages, declaring the party in default and seeking debarment or suspension of the party.

#### **Check the Appropriate Box**

I certify, pursuant to Public Law 2012, c. 25, that neither the bidder listed above nor any of the bidder's parents, subsidiaries, or affiliates is listed on the N.J. Department of the Treasury's list of entities determined to be engaged in prohibited activities in Iran pursuant to P.L. 2012, c. 25 ("Chapter 25 List"). I further certify that I am the person listed above, or I am an officer or representative of the entity listed above and am authorized to make this certification on its behalf. I will skip Part 2 and sign and complete the Certification below.

**OR**

I am unable to certify as above because the bidder and/or one or more of its parents, subsidiaries, or affiliates is listed on the Department's Chapter 25 list. I will provide a detailed, accurate and precise description of the activities in Part 2 below and sign and complete the Certification below. Failure to provide such will result in the proposal being rendered as nonresponsive and appropriate penalties, fines and/or sanctions will be assessed as provided by law.

### Part 2: Additional Information

PLEASE PROVIDE FURTHER INFORMATION RELATED TO INVESTMENT ACTIVITIES IN IRAN. You must provide a detailed, accurate and precise description of the activities of the bidding person/entity, or one of its parents, subsidiaries or affiliates, engaging in the investment activities in Iran on additional sheets provided by you.



### Part 3: Certification

I, being duly sworn upon my oath, hereby represent and state that the foregoing information and any attachments there to the best of my knowledge are true and complete. I attest that I am authorized to execute this certification on behalf of the above-referenced person or entity. I acknowledge that the Owner is relying on the information contained herein and thereby acknowledge that I am under a continuing obligation from the date of this certification through the completion of any contracts to notify the Owner in writing of any changes to the answers of information contained herein.

I acknowledge that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification, and if I do so, I recognize that I am subject to criminal prosecution under the law and that it will also constitute a material breach of my agreement(s) with the Owner and that the Owner at its option may declare any contract(s) resulting from this certification void and unenforceable.

<b>Full Name (Print):</b>		<b>Title:</b>	
<b>Signature:</b>		<b>Date:</b>	



**NOT CURRENTLY REQUIRED PENDING LITIGATION**

**CERTIFICATION OF NON-INVOLVEMENT IN PROHIBITED ACTIVITIES IN RUSSIA  
OR BELARUS  
PURSUANT TO P.L.2022, c.3  
CONTRACT / IRON PREMIER FENCING**

---

**CONTRACT / BID SOLICITATION No. ITB-AP-48-0-2024/DB**

**Prohibited Activities:** Engaged in prohibited activities in Russia or Belarus” means (1) companies in which the Government of Russia or Belarus has any direct equity share; (2) having any business operations commencing after the effective date of this act that involve contracts with or the provision of goods or services to the Government of Russia or Belarus; (3) being headquartered in Russia or having its principal place of business in Russia or Belarus, or (4) supporting, assisting or facilitating the Government of Russia or Belarus in their campaigns to invade the sovereign country of Ukraine, either through in-kind support or for profit.

Failure to provide such description will result in the bid being rendered as non-responsive, and the Owner will not be permitted to contract with such person or entity, and if a bid is accepted or contract is entered into without delivery of the certification, appropriate penalties, fines and/or sanctions will be assessed as provided by law.

**CHECK THE APPROPRIATE BOX**

\_\_\_\_\_ I, the undersigned , am authorized by the person or entity seeking to enter into or renew the contract identified above, to certify that the Vendor/Bidder is not engaged in prohibited activities in Russia or Belarus as such term is defined in P.L.2022, c.3,<sup>i</sup> section 1.e, except as permitted by federal law.

*CHECK ONE BOX BELOW:*

\_\_\_\_\_I understand that if this statement is willfully false, I may be subject to penalty, as set forth in P.L.2022, c.3, section 1.d.

*OR*

\_\_\_\_\_I, the undersigned am unable to certify above because the person or entity seeking to enter into or renew the contract identified above, or one of its parents, subsidiaries, or affiliates may have engaged in prohibited activities in Russia or Belarus. If checked, a detailed, accurate and precise description of the activities is provided below.

\_\_\_\_\_  
Signature of Authorized Representative

Date:\_\_\_\_\_

(PRINT NAME) \_\_\_\_\_



**ACKNOWLEDGMENT OF RECEIPT OF ADDENDA**  
**(FORM NOT REQUIRED IF NO ADDENDA ISSUED)**

The undersigned Bidder hereby acknowledges receipt of the following Addenda:

<b><u>ADDENDUM NUMBER</u></b>	<b><u>DATE</u></b>	<b><u>ACKNOWLEDGE RECEIPT (Initial)</u></b>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

tial)

Acknowledged for: \_\_\_\_\_  
(Name of Bidder)

By: \_\_\_\_\_  
(Signature of Authorized Representative)



**BID BOND**

We, the Bidder, \_\_\_\_\_, as **PRINCIPAL**, and \_\_\_\_\_ as **SURETY**, are held and firmly bound unto AUTHORITY, hereinafter called the "Obligee", in the penal sum of 10% of the Principal's Total Bid Price, NTE \$20,000, lawful money of the United States, for the payment of which sum well and truly to be made the Principal and the Surety, bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

The **CONDITION** of this obligation is such that, whereas the Principal has submitted the accompanying bid, dated \_\_\_\_\_, 20\_\_, for the following Project:

**AUTHORITY**

**NAME OF PROJECT:** **New Wrought Iron Perimeter Fencing & Masonry Pier Work**  
**at**  
**The Charles Lumley Homes Site**  
**Located at 1004 Comstock Street & 1025 Second Avenue**  
**Asbury Park, NJ 07712**

**NOW, THEREFORE**, if the Obligee shall accept the Bid of the Principal and the Principal shall timely enter into a Contract with the Obligee in accordance with the terms of such Bid, and give such bonds as may be specified in the bidding or Contract Documents with good and sufficient surety for the faithful performance of such Contract and for the prompt payment of labor and materials furnished in the prosecution thereof, or in the event of the failure of the Principal to enter such Contract and give such bond or bonds, if Principal shall pay to the Obligee the difference not to exceed the penalty hereof consisting of the difference between the amount specified in said Bid and such larger amount for which the Obligee may in good faith contract with another party to perform the Work covered by said Bid, then this obligation shall be null and void, otherwise to remain in full force and effect.

**IN WITNESS WHEREOF**, the above-bounded parties have executed this instrument under their several seals this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

The name and corporate seal of each corporate party is affixed and this bid bond is herewith duly signed by its undersigned representative, pursuant to authority of its governing body.

**PRINCIPAL / BIDDER**

ATTEST:

\_\_\_\_\_  
Principal's Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Principal's Address

\_\_\_\_\_  
Name

\_\_\_\_\_  
Officer's Signature

\_\_\_\_\_  
Title

\_\_\_\_\_  
Name of Signer

\_\_\_\_\_  
Date

\_\_\_\_\_  
Title of Signer



\_\_\_\_\_  
Date (Affix Corporate Seal)



**SURETY COMPANY (FOR BID BOND)**

\_\_\_\_\_  
Name of Surety

\_\_\_\_\_  
Name of Witness

\_\_\_\_\_  
Address of Surety

\_\_\_\_\_  
Signature of Witness

\_\_\_\_\_  
Signature of Attorney-in-Fact

\_\_\_\_\_  
Title of Witness

\_\_\_\_\_  
Name of Attorney-in-Fact

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date

(Affix Corporate Seal)

**An attorney-in-fact who signs must attach a certified and effectively dated copy of their power of attorney clearly indicating signer's authority to sign the required Bid Bond.**



**CONSENT OF SURETY**

**RE:** \_\_\_\_\_  
(Bidder)

**ASBURY PARK HOUSING AUTHORITY (Owner)**

**NAME OF PROJECT:** New Wrought Iron Perimeter Fencing & Masonry Pier Work  
at  
**The Charles Lumley Homes Site**  
Located at 1004 Comstock Street & 1025 Second Avenue  
Asbury Park, NJ 07712

**ON NOTICE TO OWNER**, the undersigned surety company, being duly qualified to engage in the surety business in the State of New Jersey and meeting all the conditions and requirements of the Project Owner's Bid Solicitation, does hereby certify, consent, agree, promise, covenant, represent, guarantee and warrant to the Project Owner that, if the Contract for this Project is awarded to the Contractor/Bidder, the undersigned surety company shall promptly issue the separate performance bond and the labor and material payment bond, both bonds to be in an amount equal to one hundred percent (100%) of the total contract price and to be conditioned so as to indemnify the Project Owner against any loss due to the failure of the Contractor/Bidder to meet its obligations under the awarded Project Contract and otherwise in the form required by the Project Owner's Bid Solicitation.

**CONTRACTOR/BIDDER**

**SURETY COMPANY**

\_\_\_\_\_  
Print Company Name

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Signature

By: \_\_\_\_\_  
Signature - Attorney in Fact

\_\_\_\_\_  
Name of Signer

\_\_\_\_\_  
Name of Attorney in Fact

\_\_\_\_\_  
Title of Signer

Date: \_\_\_\_\_

Date: \_\_\_\_\_

**An attorney-in-fact who signs must attach a certified and effectively dated copy of their power of attorney verifying signer's unqualified authority to sign this Consent of Surety.**



**LIST OF SUBCONTRACTORS REQUIRED TO BE NAMED**  
**PURSUANT TO N.J.S.A. 40A:11-16**

The Bidder **must** name any subcontractors that it intends to use to perform work for the following trades and include the information required. **If the Bidder intends to perform the scope of work with its own forces, it should check the box "Self-Performed."** Failure to identify all subcontractors in the following trades that will be used in the Project shall result in rejection of the bid.

<u>Trade</u>	<u>Self-Performed</u>	<u>Subcontracted</u>	<u>N/A</u>
Plumbing and gas fitting	_____	_____	___
HVACR	_____	_____	___
Electrical Work, including fire alarm and security	_____	_____	___
Structural steel, ornamental iron work	_____	_____	___

DPMC Code \_\_\_\_\_  Applicable       Not Applicable

- DPMC Code \_\_\_\_\_
- DPMC Code \_\_\_\_\_

**For all subcontractors identified above, list**

Name of subcontractor

Address

Scope of work to be performed

License No. (if applicable)

Please use additional sheets as necessary

\_\_\_\_\_



---

DATE: \_\_\_\_\_, 2024

TO: **Asbury Park Housing Authority**  
**1000 1/2 3<sup>rd</sup> Avenue**  
**Asbury Park, NJ 07712**

**Attn: Director – Ms. Shemea Marshall**

FROM:

\_\_\_\_\_

Name of Bidder

\_\_\_\_\_

Street Address

\_\_\_\_\_

City, State and Zip Code

\_\_\_\_\_

Phone Number.

\_\_\_\_\_

Email Address

The bidder is: (Check one and complete information)

- An individual using the trade name of \_\_\_\_\_.
- A partnership organized under the laws of the State of \_\_\_\_\_.
- A corporation organized under the laws of the State of \_\_\_\_\_.

Having carefully examined the Instructions to Bidders, General Conditions, Supplementary General Conditions, Drawings and Specifications for the **New Steel Perimeter Fencing & Masonry Pier Work at The Lumley Homes Site Located at 1004 Comstock Street & 1025 Second Avenue Asbury Park, NJ 07712**. Prepared by MVMK Architecture, LLC and all Addenda issued by the Architects (the "Contract Documents"), as well as the premises and conditions affecting the work, the Und-ary to, proper for, or incidental to:



**BASE BID: For all Labor & Material for the New Wrought Iron Perimeter Fencing & Masonry Pier Work at The Lumley Homes Site Located at 1004 Comstock Street & 1025 Second Avenue Asbury Park, NJ 07712**

**FOR THE SUM**  
**OF** \_\_\_\_\_ **DOLLAR**  
**S**

(\$ \_\_\_\_\_).

(Bid amount shall be in both words and figures. In case of discrepancy amount shown in words will govern.)

**ALTERNATE BIDS**

**N/A**

**UNIT PRICES**

**Unit Price GC#1 – 6’-0” high x 8’-0 wide steel fencing section**

Cost to include Labor & Material installed

**FOR THE SUM**  
**OF** \_\_\_\_\_ **DOLLARS(\$**  
**\_\_\_\_\_).**

(Bid amount shall be in both words and figures. In case of discrepancy amount shown in words will govern.)

**ALLOWANCES – To Be Included in Base Bid**

**\$5,000 – Five Thousand Dollars**

In submitting this bid, it is understood that the unrestricted right is reserved by the Owner to reject any and all bids. If written notice of acceptance of this bid is mailed, faxed, or delivered to the undersigned at the business address stated below within sixty (60) days after the date of opening bids, the undersigned will within eight (8) days after the date of such mailing, faxing, or delivering of such notice, execute and deliver the necessary contract, performance-payment bond and insurance and all other documents as described in the Specifications.



---

The Bidder designates the following address and fax number for service of the notice of acceptance by mail, fax or hand delivery (if different from address at top):

Address:

\_\_\_\_\_

\_\_\_\_\_

Fax Number: \_\_\_\_\_

The Undersigned agrees that time of completion of the work to be done hereunder is an ESSENTIAL CONDITION of the contract. By submitting his Proposal for the work, the Undersigned warrants that he shall substantially complete all the work called for in his contract within a period of \_\_\_\_\_ **60** consecutive calendar days from the date of "Notice to Proceed".

The Undersigned agrees that should he fail to complete the Work within the Contract Time, the Owner may retain from the monies that are due or which may become due to the Bidder under the Contract, the sum of **Five Hundred Dollars (\$500.00)** for each consecutive calendar day beyond the number of days allowed by the contract; as indicated in the Supplementary General Conditions, paragraph 8.5 "**Liquidated Damages**". The Undersigned agrees, that any wages paid by the Owner to any inspector or inspectors necessarily employed by it on the work, for any number of days in excess of the Contract Time shall be deducted from the Contract Sum.

The undersigned bidder has checked the accuracy of all the figures and computations contained in this bid proposal and further understands that the Owner will not be responsible for any errors or omissions made therein by the bidder.

Name of Bidder: \_\_\_\_\_

Authorized Signature: \_\_\_\_\_

Print or Type Name & Title \_\_\_\_\_

# DISCLOSURE OF LOBBYING ACTIVITIES

Complete this form to disclose lobbying activities pursuant to 31 U.S.C.1352

Approved by OMB  
0348-0046

<b>1. * Type of Federal Action:</b> <input type="checkbox"/> a. contract <input checked="" type="checkbox"/> b. grant <input type="checkbox"/> c. cooperative agreement <input type="checkbox"/> d. loan <input type="checkbox"/> e. loan guarantee <input type="checkbox"/> f. loan insurance	<b>2. * Status of Federal Action:</b> <input type="checkbox"/> a. bid/offer/application <input checked="" type="checkbox"/> b. initial award <input type="checkbox"/> c. post-award	<b>3. * Report Type:</b> <input checked="" type="checkbox"/> a. initial filing <input type="checkbox"/> b. material change
<b>4. Name and Address of Reporting Entity:</b> <input checked="" type="checkbox"/> Prime <input type="checkbox"/> SubAwardee * Name <input type="text"/> * Street 1 <input type="text"/> Street 2 <input type="text"/> * City <input type="text"/> State <input type="text"/> Zip <input type="text"/> Congressional District, if known: <input type="text"/>		
<b>5. If Reporting Entity in No.4 is Subawardee, Enter Name and Address of Prime:</b> <input type="text"/>		
<b>6. * Federal Department/Agency:</b> <input type="text"/>	<b>7. * Federal Program Name/Description:</b> <input type="text"/> CFDA Number, if applicable: <input type="text"/>	
<b>8. Federal Action Number, if known:</b> <input type="text"/>	<b>9. Award Amount, if known:</b> \$ <input type="text"/>	
<b>10. a. Name and Address of Lobbying Registrant:</b> Prefix <input type="text"/> * First Name <input type="text"/> Middle Name <input type="text"/> * Last Name <input type="text"/> Suffix <input type="text"/> * Street 1 <input type="text"/> Street 2 <input type="text"/> * City <input type="text"/> State <input type="text"/> Zip <input type="text"/>		
<b>b. Individual Performing Services</b> (including address if different from No. 10a) Prefix <input type="text"/> * First Name <input type="text"/> Middle Name <input type="text"/> * Last Name <input type="text"/> Suffix <input type="text"/> * Street 1 <input type="text"/> Street 2 <input type="text"/> * City <input type="text"/> State <input type="text"/> Zip <input type="text"/>		
<b>11.</b> Information requested through this form is authorized by title 31 U.S.C. section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when the transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to the Congress semi-annually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure. <b>* Signature:</b> <input type="text"/> Completed on submission to Grants.gov <b>*Name:</b> Prefix <input type="text"/> * First Name <input type="text"/> Middle Name <input type="text"/> * Last Name <input type="text"/> Suffix <input type="text"/> <b>Title:</b> <input type="text"/> <b>Telephone No.:</b> <input type="text"/> <b>Date:</b> <input type="text"/> Completed on submission to Grants.gov		
<b>Federal Use Only:</b>		Authorized for Local Reproduction Standard Form - LLL (Rev. 7-97)

**US Department of Housing and Urban Development**  
Office of Housing/Federal Housing Commissioner

**US Department of Agriculture**  
Farmers Home Administration

<b>Part I to be completed by Controlling Participant(s) of Covered Projects</b> <i>(See instructions)</i>		<b>For HUD HQ/FmHA use only</b>	
Reason for submission:			
1. Agency name and City where the application is filed		2. Project Name, Project Number, City and Zip Code	
3. Loan or Contract amount \$	4. Number of Units or Beds	5. Section of Act	6. Type of Project (check one) <input type="checkbox"/> Existing <input type="checkbox"/> Rehabilitation <input type="checkbox"/> Proposed (New)

**7. List all proposed Controlling Participants and attach complete organization chart for all organizations showing ownership %**

Name and address ( Last, First, Middle Initial) of controlling participant(s) proposing to participate	8 Role of Each Principal in Project	9. SSN or IRS Employer Number (TIN)

Certifications: The controlling participants(s) listed above hereby apply to HUD or USDA FmHA, as the case maybe, for approval to participate as controlling participant(s) in the role(s) and project listed above. The controlling participant(s) certify that the information provided on this form and in any accompanying documentation is true and accurate. I/we acknowledge that making, presenting, or submitting a false, fictitious, or fraudulent statement, representation, or certification may result in criminal, civil, and/or administrative sanctions, including fines, penalties, and imprisonment. The controlling participants(s) further certify to the truth and accuracy of the following:

1. Schedule A contains a listing, for the last ten years, of every project assisted or insured by HUD, USDA FmHA and/or State and local government housing finance agencies in which the controlling participant(s) have participated or are now participating.
2. For the period beginning 10 years prior to the date of this certification, and except as shown on the certification:
  - a. No mortgage on a project listed has ever been in default, assigned to the Government or foreclosed, nor has it received mortgage relief from the mortgagee;
  - b. The controlling participants have no defaults or noncompliance under any Conventional Contract or Turnkey Contract of Sale in connection with a public housing project;
  - c. There are no known unresolved findings as a result of HUD audits, management reviews or other Governmental investigations concerning the controlling participants or their projects;
  - d. There has not been a suspension or termination of payments under any HUD assistance contract due to the controlling participant's fault or negligence;
  - e. The controlling participants have not been convicted of a felony and are not presently the subject of a complaint or indictment charging a felony. (A felony is defined as any offense punishable by imprisonment for a term exceeding one year, but does not include any offense classified as a misdemeanor under the laws of a State and punishable by imprisonment of two years or less);
  - f. The controlling participants have not been suspended, debarred or otherwise restricted by any Department or Agency of the Federal Government or of a State Government from doing business with such Department or Agency;
  - g. The controlling participants have not defaulted on an obligation covered by a surety or performance bond and have not been the subject of a claim under an employee fidelity bond;
3. All the names of the controlling participants who propose to participate in this project are listed above.
4. None of the controlling participants is a HUD/FmHA employee or a member of a HUD/FmHA employee's immediate household as defined in Standards of Ethical Conduct for Employees of the Executive Branch in 5 C.F.R. Part 2635 (57 FR 35006) and HUD's Standard of Conduct in 24 C.F.R. Part 0 and USDA's Standard of Conduct in 7 C.F.R. Part 0 Subpart B.
5. None of the controlling participants is a participant in an assisted or insured project as of this date on which construction has stopped for a period in excess of 20 days or which has been substantially completed for more than 90 days and documents for closing, including final cost certification, have not been filed with HUD or FmHA.
6. None of the controlling participants have been found by HUD or FmHA to be in noncompliance with any applicable fair housing and civil rights requirements in 24 CFR 5.105(a). (If any controlling participants have been found to be in noncompliance with any requirements, attach a signed statement explaining the relevant facts, circumstances, and resolution, if any).
7. None of the controlling participants is a Member of Congress or a Resident Commissioner nor otherwise prohibited or limited by law from contracting with the Government of the United States of America.
8. Statements above (if any) to which the controlling participant(s) cannot certify have been deleted by striking through the words with a pen, and the controlling participant(s) have initialed each deletion (if any) and have attached a true and accurate signed statement (if applicable) to explain the facts and circumstances.

<b>Name of Controlling Participant</b>	<b>Signature of Controlling Participant</b>	<b>Certification Date (mm/dd/yyyy)</b>	<b>Area Code and Tel. No.</b>
<b>This form prepared by (print name)</b>		<b>Area Code and Tel. No.</b>	

**Schedule A: List of Previous Projects and Section 8 Contracts.** Below is a complete list of the controlling participants' previous participation projects and participation history in covered projects as per 24 CFR, part 200 §200.214 and multifamily Housing programs of FmHA, State and local Housing Finance Agencies, if applicable. **Note:** Read and follow the instruction sheet carefully. Make full disclosure. Add extra sheets if you need more space. Double check for accuracy. If no previous projects, write by your name, **"No previous participation, First Experience"**.

1. Controlling Participants' Name (Last, First)	2. List of previous projects (Project name, project ID and, Govt. agency involved)	3. List Participants' Role(s) (indicate dates participated, and if fee or identity of interest participant)	4. Status of loan (current, defaulted, assigned, foreclosed)	5. Was the Project ever in default during your participation Yes No If yes, explain		6. Last MOR rating and Physical Insp. Score and date

**Part II- For HUD Internal Processing Only**

Received and checked by me for accuracy and completeness; recommend approval or refer to Headquarters after checking appropriate box.

Date (mm/dd/yyyy)	Tel No. and area code	<input type="checkbox"/> A. No adverse information; form HUD-2530 approval recommended. <input type="checkbox"/> B. Name match in system <input type="checkbox"/> C. Disclosure or Certification problem <input type="checkbox"/> D. Other (attach memorandum)
Staff	Processing and Control	
Signature of authorized reviewer	Signature of authorized reviewer	Approved <input type="checkbox"/> Yes <input type="checkbox"/> No
Date (mm/dd/yyyy)		

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## Instructions for Completing the Previous Participation Certificate, form HUD-2530

Carefully read these instructions and the applicable regulations. A copy of the regulations published at 24 C.F.R. part 200, subpart H, § 200.210-200.222 can be obtained on-line at [www.gpo.gov](http://www.gpo.gov) and from the Account Executive at any HUD Office. Type or print neatly in ink when filling out this form. Incomplete form will be returned to the applicant.

Attach extra sheets as you need them. Be sure to indicate "Continued on Attachments" wherever appropriate. Sign each additional page that you attach if it refers to you or your record. **Carefully read the certification before you sign it.** Any questions regarding the form or how to complete it can be answered by your HUD Account Executive.

**Purpose:** This form provides HUD/USDA FmHA with a certified report of all previous participation in relevant HUD/USDA programs by those parties submitting the application. The information requested in this form is used by HUD/USDA to determine if you meet the standards established to ensure that all controlling participants in HUD/USDA projects will honor their legal, financial and contractual obligations and are of acceptable risks from the underwriting standpoint of an insurer, lender or governmental agency. HUD requires that you certify and submit your record of previous participation, in relevant projects, by completing and signing this form, before your participation can be approved.

***HUD approval of your certification is a necessary precondition for your participation in the project and in the capacity that you propose. If you do not file this certification, do not furnish the information requested accurately, or do not meet established standards, HUD will not approve your certification.***

***Note that approval of your certification does not obligate HUD to approve your project application, and it does not satisfy all other HUD program requirements relative to your qualifications.***

**Who Must Sign and File Form HUD-2530:** Form HUD-2530 must be completed and signed by all Controlling Participants of Covered Projects, as such terms are defined in 24 CFR part 200 §200.212, and as further clarified by the Processing Guide (HUD notice H 2016-15) referenced in 24 CFR §200.210(b) and available on the HUD website at: [http://portal.hud.gov/hudportal/HUD?src=/program\\_offices/housing/mfh/prevparticipation](http://portal.hud.gov/hudportal/HUD?src=/program_offices/housing/mfh/prevparticipation).

**Where and When Form HUD-2530 Must Be Filed:** The original of this form must be submitted to the HUD Office where your project application will be processed at the same time you file your initial project application. This form must be filed with applications for projects listed in 24 CFR §200.214 and for the Triggering Events listed at 24 CFR §200.218.

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**Review of Adverse Determination:** If approval of your participation in a HUD project is denied, withheld, or conditionally granted on the basis of your record of previous participation, you will be notified by the HUD Office. You may request reconsideration in accordance with 24 CFR §200.222 and further clarified by the Processing Guide. Request must be made in writing within 30 days from your receipt of the notice of determination.

The Department of Housing and Urban Development (HUD) is authorized to collect this information by law 42 U.S.C. 3535(d) and by regulation at 24 CFR 200.210. This information is needed so that principals applying to participate in multifamily programs can become HUD-approved controlling participants. The information you provide will enable HUD to evaluate your record with respect to established standards of performance, responsibility and eligibility. Without prior approval, a controlling participant may not participate in a proposed or existing multifamily or healthcare project. HUD uses this information to evaluate whether or not controlling participants pose an unsatisfactory underwriting risk. The information is used to evaluate the potential controlling participants and approve only individuals and organizations that will honor their legal, financial and contractual obligations.

**Privacy Act Statement:** The Housing and Community Development Act of 1987, 42 U.S.C. 3543 requires persons applying for a Federally-insured or guaranteed loan to furnish his/her Social Security Number (SSN). HUD must have your SSN for identification of your records. HUD may use your SSN for automated processing of your records and to make requests for information about you and your previous records with other public agencies and private sector sources. HUD may disclose certain information to Federal, State and local agencies when relevant to civil, criminal, or regulatory investigations and prosecutions. It will not be otherwise disclosed or released outside of HUD, except as required and permitted by law. You must provide all of the information requested in this application, including your SSN.

**Public reporting burden** for this collection of information is estimated to average three hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. This agency may not collect this information, and you are not required to complete this form, unless it displays a currently valid OMB control number.

A response is mandatory. Failure to provide any of the information will result in your disapproval of participation in this HUD program.

Specifications For

**New Wrought Iron Fencing & Masonry Pier Work  
at The Lumley Homes Site  
Located at 1004 Comstock Street & 1025 Second Avenue  
Asbury Park, NJ 07712**

for the

**Asbury Park Housing Authority**  
1000 1/2 3<sup>rd</sup> Avenue  
Asbury Park, New Jersey 07712

**MVMK**

Minervini Vandermark Melia Kelly

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Architecture + Design

360 14th Street

Hoboken, New Jersey 07030  
t. 201-386-0637 / f. 201-386-0628

[www.mvmkarchitectuire.com](http://www.mvmkarchitectuire.com)

Specifications For

**New Wrought Iron Perimeter Fencing & Masonry Pier  
Work**

**at The Lumley Homes Site**

**Located at 1004 Comstock Street & 1025 Second Avenue  
Asbury Park, NJ 07712**

for the

**Asbury Park Housing Authority**

1000 ½ 3<sup>rd</sup> Avenue

Asbury Park, New Jersey 07712

Ms. Shemea Marshall, MBA

Executive Director – Asbury Park Housing Authority

Architect:

**MVMK, L.L.C.**

**ARCHITECTURE**

360 Fourteenth Street

Hoboken, New Jersey 07030

t. 201-386-0637 / f. 201-386-0628

Mr. Anthony C. Vandermark, AIA

NJ No. 17698

Principal

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	Prevailing Wage Rates for Monmouth County
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N/A Not Applicable

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N/A Not Applicable

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N/A Not Applicable

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N/A Not Applicable

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N/A Not Applicable

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N/A Not Applicable

**DIVISION 12 - FURNISHINGS**

N/A Not Applicable

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0323133 Cantilevered Access Gate System

**DIVISION 14 - CONVEYING SYSTEMS**

N/A Not Applicable

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N/A Not Applicable

**DIVISION 16 – ELECTRICAL**

N/A Not Applicable

**END OF TABLE OF CONTENTS**

## **DEFINITIONS**

Wherever reference is made to the Owner, Title of Project, or Architect, they shall be as follows:

OWNER:

**Asbury Park Housing Authority  
1000 ½ 3<sup>rd</sup> Avenue  
Asbury Park, NJ 07712**

ADDRESS BIDS AND MAIL TO:

**Asbury Park Housing Authority  
1000 ½ 3<sup>rd</sup> Avenue  
Asbury Park, NJ 07712**

**Attn: Director – Danielle Brandon**

TITLE OF PROJECT:

**New Wrought Iron Fencing & Masonry Pier Work  
at The Charles Lumley Homes Site  
Located at 1004 Comstock Street & 1025 Second Avenue Asbury Park, NJ 07712**

ARCHITECT:

**MVMK LLC  
360 Fourteenth Street  
Hoboken, New Jersey 07030**

**Anthony Vandermark, Jr AIA – [anthonyvandermark@mvmkarchitecture.com](mailto:anthonyvandermark@mvmkarchitecture.com)**

BIDDER:

Bidder shall be a single contract bidder or a separate prime contract bidder.

CONTRACTOR:

In case of a single contract, all terms such as "General Contractor", "Steel Contractor", "Plumbing Contractor", "Heating Contractor", "Electrical Contractor", etc., shall be changed to read "the Contractor".

## **SCOPE**

It is the intention that the Drawings, Specifications and other contract documents provide for the complete construction of **New Wrought Iron Fencing & Masonry Pier Work at The Charles Lumley Homes Site Located at 1004 Comstock Street & 1025 Second Avenue Asbury Park, NJ 07712**. complete in all its parts. Any work shown on the Drawings and not particularly described in the Specifications or vice versa, or any work evidently necessary to complete the Contract, shall be included in the bid.

During the course of the work, should any ambiguities or discrepancies be found in or between the Drawings and Specifications, the Architect will interpret the intent of the Drawings and Specifications. It is expressly stipulated that neither the Drawings nor the Specifications shall take precedence one over the other, and that the Architect will interpret or construe the Drawings and Specifications so as to secure the most substantial and complete performance of the work as is most consistent with the needs and requirements of the work.

## **INSTRUCTIONS TO BIDDERS**

## **PREPARATION OF THE BID**

**The "complete" Bid Form includes the Bid Bond, Guarantee Certificate of Surety, Ownership Disclosure Certification, Non-Collusion Affidavit and any other documents noted in these Instructions to Bidders & Bid Form Checklist to be submitted with this Bid.**

Bid prices must be filled in, in ink, in both words and figures for lump sum bids, base bids, alternative bids, and unit prices for the contract or work for which the bid is made.

For Alternate Manufacturer Bids, if any have been specified applicable to the bidder's work, the bidder may, if he wishes, enter an amount for each alternate manufacturer listed in the Bid Form.

Insert applicable allowances, if any have been specified applicable to the bidder's work.

Conditional bids will not be accepted. Bids may be withdrawn prior to the advertised time for the opening of bids or authorized postponement thereof. Bids received after the advertised time will not be considered. Bidders shall be solely responsible for premature opening or late delivery of bids not properly marked or addressed.

Bidders must submit their bids in a sealed envelope addressed to the Owner and bearing on outside; the name of the bidder, his address, the title of the project, and the type of work bid upon.

## **ALTERNATIVES, ALLOWANCES, AND UNIT PRICES**

As indicated in specification Section 012000, "Alternates, Allowances, and Unit Prices."

## **QUALIFICATIONS OF BIDDERS**

The Owner may make such investigation as he deems necessary to determine the ability of the bidders to perform the work which, in the case of a Single Contract, includes investigation of the major subcontractors. The bidder shall furnish any information and data for this purpose as the Owner may request. The Owner reserves the right to reject any bid, if the investigation fails to satisfy the Owner that the bidder is properly qualified to carry out the work contemplated herein.

A bidder on public works whose bids will exceed \$20,000, must be classified and qualified by the New Jersey Department of the Treasury. In the case of a Single Contract, the Contractor and his major subcontractors for general construction work, structural steel work, plumbing work, heating and ventilating work, and electrical work as applicable, must be classified and qualified.

## **AWARD OF CONTRACT**

A contract, if awarded, will be made to that qualified bidder or bidders whose base bid plus or minus sums bid on the alternate bids which the Owner elects to accept, totals the lowest number of dollars in any combination.

## **BID SECURITY**

All bidders are required to submit with their bids a bid security.

The Bid Security shall be in the amount of ten (10%) percent of the Bid but not in excess of \$20,000 and payable to the order of the Owner. Bid Security, at the option of the bidder, may be a certified or cashier's check drawn on an incorporated bank or trust company, or a bid bond equivalent in scope to the sample Bid Bond included with the Bid Form.

All bid security except the security of the three (3) apparent lowest responsible bidders shall, if requested, be returned after ten (10) days from the opening of bids, Sundays and holidays excepted, and the bids of such bidders

## **INSTRUCTIONS TO BIDDERS**

shall be considered as withdrawn. Within three (3) days after the awarding of the contract and the approval of the Contractor's performance bond, the bid security of the remaining unsuccessful bidders shall be returned to them forthwith, Sundays and holidays excepted.

If the successful bidder fails to execute the Contract and furnish the Performance Bond and Labor & Materials Payment Bond within eight (8) days from the date of "Notice of Acceptance," the award of the Contract may be rescinded and the bid security will become liable up to its full amount for any difference between the amount of his bid and the Contract which the Owner may be obliged to award to another bidder or bidders.

If the bid is not accepted within sixty (60) days after the date of opening of bids, or any length of time thereafter, if agreed to by the Owner and the bidder, or if the bidder executes the Contract and delivers the performance bond, the bid security will be returned to the bidder.

No interest will be allowed on the bid security deposits.

If the bid security is in the form of a bid bond, the bonding company shall fulfill the obligation as herein stated.

#### **GUARANTEE CERTIFICATE FROM SURETY COMPANY**

All bidders are required to submit with their bid a guarantee certificate from a surety company authorized to do business in New Jersey and satisfactory to the Owner, stating that it will provide the Contractor with a bond for the faithful performance of all provisions relating to the performance of the Agreement with the Owner during the course of construction; and including the guarantees required under Article 12 of Chapter 44 of Title 2A of the New Jersey Statutes; and a maintenance bond during the one year warranty period after the date of Substantial Completion.

#### **BOND OF AN INDIVIDUAL**

If a bidder desires to offer the bond of an individual instead of that of a surety company, he shall submit with his bid a certificate signed by such individual similar to that required of a surety company.

The Owner may reject any such bid if it is not satisfied with the sufficiency of the individual surety offered.

#### **PERFORMANCE AND LABOR AND MATERIAL PAYMENT BOND**

A New Jersey Statutory Performance Bond and a Labor and Material Payment Bond, from a surety company authorized to do business in New Jersey and satisfactory to the Owner, in the amount of one hundred (100%) percent of the Contract Sum shall be delivered simultaneously with the executed Contract. If, at any time, or for any reason, the bonds cease to be adequate security for the Owner, the successful bidder shall, within five (5) days after notice, substitute an acceptable bond with surety satisfactory to the Owner.

The premium on bonds shall be paid by the successful bidder.

#### **BONDING ATTORNEYS**

Attorneys in fact, who sign bonds, shall file with each bond a certified and effectively dated copy of their power of attorney.

#### **OWNERSHIP DISCLOSURES REQUIRED**

Pursuant to L. 1977, N.J.S. 52:25-24.2, the bidder shall submit with his bid, or prior to receipt of bids, a statement setting forth the names and addresses of all stockholders in the corporation or partnership bidding who own ten (10%) percent or greater interest therein.

If one or more such stockholder or partner is itself a corporation or partnership, the bidder shall submit further disclosures pursuant to the law.

#### **INSTRUCTIONS TO BIDDERS**

## **NON-COLLUSION AFFIDAVIT**

The Bidder shall submit with his bid a statement of non-collusion with verbiage similar to that on the "Sample Non-Collusion Affidavit."

## **TAXES**

Public Housing Work is exempt from taxation, but Contractors and subcontractors are required to file with their suppliers, State Tax Form ST-13 listing Owner's name and location of project, to qualify for the exemption. Forms and additional information are available at the State Tax Department. No allowance will be made by the Owner for any such taxes paid by the Contractors due to their failure to file appropriate exemption forms.

## **AFFIRMATIVE ACTION DOCUMENT SUBMISSION**

If, prior to or at the time the public agency submits a contract for signing, a construction Contractor does not submit to the public agency evidence of an existing federally approved or sanctioned Affirmative Action Program; then no later than three (3) days after the Contractor signs the construction contract, the Contractor shall complete and submit the Projected Manning Table Form AA201-A (Building Construction) or AA201-B (Heavy Construction) to the public agency and the Affirmative Action Office. The Contractor should retain the copy marked "Contractor", submit the copy marked "Public Agency" to the Owner and the remaining copies shall be forwarded immediately to:

Affirmative Action Office  
Department of the Treasury  
State House  
CN 209  
Trenton, New Jersey 08625

## **CONDITIONS OF THE WORK**

Bidders shall submit bids subject to and in accordance with all the conditions stated herein, required by the Specifications, Drawings, and actual conditions. Bidders shall carefully examine the site(s), as well as the Drawings and Specifications and fully inform themselves as to the existing conditions and to the work of others coming in conjunction with their work, both labor and materials even though not especially shown or noted, but which are necessary to obtain a complete and finished condition.

Bidders are advised that construction terms and conditions set forth in the Contract Documents will be rigidly enforced.

## **FORM OF CONTRACT**

Contracts will be based on the Contract Form (see attached) between the Housing Authority & Contractor.

The Contract will be subject to all statutory provisions on the matter of Public Works, Public Contracts and Prevailing Rates of Wages under the laws of New Jersey.

## **ADDENDA AND INTERPRETATIONS**

Should any error, omissions, inconsistencies or obscure wording appear or occur in the Drawings and Specifications or should there be any discrepancies between Drawings and Specifications, the bidder, shall, before submitting his bid, apply to the Architect in writing, for an interpretation and determination of the intent of the Drawings and Specifications. Requests for such interpretations, to be given consideration, must be received at least seven (7) days prior to the date fixed for the opening of bids.

Interpretations and any supplemental instructions will be in the form of written Addenda (no oral or facsimile interpretations will be given) to the Specifications, which if issued, will be mailed by certified or registered mail with

## **INSTRUCTIONS TO BIDDERS**

return receipt requested to all bidders of record, not later than three (3) days prior to the date fixed for the opening of bids. Each bidder shall ascertain, prior to submitting his bid, that he had received all Addenda issued and he shall acknowledge their receipt in his bid. Failure of any bidder to receive any Addenda or interpretation shall not relieve the bidder from any obligation under his bid as submitted. Addenda so issued shall become part of the Contract Documents.

The price bid for the work of any Contract shall **NOT** be based in any manner upon oral opinions or real or alleged instructions of an oral nature, regardless or whether such opinions or instructions are expressed by the Owner, the Architect or his Consultants, or agents or representatives of any of them.

### **PROGRESS PAYMENTS**

Monthly progress payments will be made based on the value of labor and materials incorporated in the work and of materials suitably stored at the site. An itemized schedule of value shall be submitted with each application for payment.

Refer to Article 9 of the General Conditions and the Supplementary General Conditions for retainage and other conditions pertaining to payments.

All applications for payment, shall be accompanied by paid invoices for materials incorporated in the work, and for materials suitably stored at the site, and affidavit(s) by subcontractors whose work was included in the next to the last application to the effect such work and such materials have been paid for.

### **TIME AND METHOD OF PROCEDURE**

Time is of the essence of the Contract and work shall commence as of the date of the "Notice to Proceed" and shall be substantially completed in 30 consecutive calendar days.

Refer to Supplementary General Conditions for conditions pertaining to liquidated damages and reimbursement of any wages paid by the Owner for inspector(s) due to failure to complete the project within the Contract Time.

The Owner shall not be liable to any Contractor or sub-contractor due to any performance, non-performance, or delay in performance, for any reason, of any Contractor or subcontractor.

### **OBLIGATION OF BIDDER**

At the time of the opening of bids, each bidder will be presumed to have inspected the site(s) and to have read and to be thoroughly familiar with the contract documents (including addenda). The failure or neglect of any bidder to receive or examine any form, instrument or document shall in no way relieve any bidder from any obligation in respect to his bid.

The bidder shall examine the contents of the Project Manual and the set of Drawings and assure himself that all pages of the Specifications, Drawings, and other contract documents are included in the documents obtained for bidding purposes. Should the Specifications, Drawings, and other contract documents be incomplete, the bidder shall notify the Architect in writing, who will supply the bidder with any missing pages of Specifications, Drawings, or other contract documents. The lack of such written notification by the bidder will be construed as evidence that the Specifications, Drawings, and other contract documents supplied him for bidding purposes are full and complete and as a waiver of any subsequent claim to the contrary.

### **ENUMERATION OF PRIME CONTRACTS**

**The Bidding Documents have been assigned and enumerated by specification section, listed in Section 01010 - Summary of Work.**

The bidding documents consists of the following items:

ADDENDA, if issued.

### **INSTRUCTIONS TO BIDDERS**

INSTRUCTIONS TO BIDDERS  
BID FORM  
GENERAL CONDITIONS  
SUPPLEMENTARY GENERAL CONDITIONS  
SPECIFICATIONS, as outlined in the Table of Contents  
and included in the Project Manual.  
DRAWINGS;

**All drawings included within the Construction Document / Specification Set**

**END OF INSTRUCTIONS TO BIDDERS**

**INSTRUCTIONS TO BIDDERS**

**U.S. Department of Housing and  
Urban Development**  
Office of Public and Indian Housing

**Instructions to Bidders for Contracts  
Public and Indian Housing Programs**

# Instructions to Bidders for Contracts

## Public and Indian Housing Programs

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### 1. Bid Preparation and Submission

(a) Bidders are expected to examine the specifications, drawings, all instructions, and, if applicable, the construction site (see also the contract clause entitled **Site Investigation and Conditions Affecting the Work** of the *General Conditions of the Contract for Construction*). Failure to do so will be at the bidders' risk.

(b) All bids must be submitted on the forms provided by the Public Housing Agency/Indian Housing Authority (PHA/IHA). Bidders shall furnish all the information required by the solicitation. Bids must be signed, and the bidder's name typed or printed on the bid sheet and each continuation sheet which requires the entry of information by the bidder. Erasures or other changes must be initialed by the person signing the bid. Bids signed by an agent shall be accompanied by evidence of that agent's authority. (Bidders should retain a copy of their bid for their records.)

(c) Bidders must submit as part of their bid a completed form HUD-5369-A, "Representations, Certifications, and Other Statements of Bidders."

(d) All bid documents shall be sealed in an envelope which shall be clearly marked with the words "Bid Documents," the Invitation for Bids (IFB) number, any project or other identifying number, the bidder's name, and the date and time for receipt of bids.

(e) If this solicitation requires bidding on all items, failure to do so will disqualify the bid. If bidding on all items is not required, bidders should insert the words "No Bid" in the space provided for any item on which no price is submitted.

(f) Unless expressly authorized elsewhere in this solicitation, alternate bids will not be considered.

(g) Unless expressly authorized elsewhere in this solicitation, bids submitted by telegraph or facsimile (fax) machines will not be considered.

(h) If the proposed contract is for a Mutual Help project (as described in 24 CFR Part 905, Subpart E) that involves Mutual Help contributions of work, material, or equipment, supplemental information regarding the bid advertisement is provided as an attachment to this solicitation.

### 2. Explanations and Interpretations to Prospective Bidders

(a) Any prospective bidder desiring an explanation or interpretation of the solicitation, specifications, drawings, etc., must request it at least 7 days before the scheduled time for bid opening. Requests may be oral or written. Oral requests must be confirmed in writing. The only oral clarifications that will be provided will be those clearly related to solicitation procedures, i.e., not substantive technical information. No other oral explanation or interpretation will be provided. Any information given a prospective bidder concerning this solicitation will be furnished promptly to all other prospective bidders as a written amendment to the solicitation, if that information is necessary in submitting bids, or if the lack of it would be prejudicial to other prospective bidders.

(b) Any information obtained by, or provided to, a bidder other than by formal amendment to the solicitation shall not constitute a change to the solicitation.

### 3. Amendments to Invitations for Bids

(a) If this solicitation is amended, then all terms and conditions which are not modified remain unchanged.

(b) Bidders shall acknowledge receipt of any amendment to this solicitation (1) by signing and returning the amendment, (2) by identifying the amendment number and date on the bid form, or (3) by letter, telegram, or facsimile, if those methods are authorized in the solicitation. The PHA/IHA must receive acknowledgement by the time and at the place specified for receipt of bids. Bids which fail to acknowledge the bidder's receipt of any amendment will result in the rejection of the bid if the amendment(s) contained information which substantively changed the PHA's/IHA's requirements.

(c) Amendments will be on file in the offices of the PHA/IHA and the Architect at least 7 days before bid opening.

### 4. Responsibility of Prospective Contractor

(a) The PHA/IHA will award contracts only to responsible prospective contractors who have the ability to perform successfully under the terms and conditions of the proposed contract. In determining the responsibility of a bidder, the PHA/IHA will consider such matters as the bidder's:

- (1) Integrity;
- (2) Compliance with public policy;
- (3) Record of past performance; and
- (4) Financial and technical resources (including construction and technical equipment).

(b) Before a bid is considered for award, the bidder may be requested by the PHA/IHA to submit a statement or other documentation regarding any of the items in paragraph (a) above. Failure by the bidder to provide such additional information shall render the bidder non responsible and ineligible for award.

## 5. Late Submissions, Modifications, and Withdrawal of Bids

(a) Any bid received at the place designated in the solicitation after the exact time specified for receipt will not be considered unless it is received before award is made and it:

(1) Was sent by registered or certified mail not later than the fifth calendar day before the date specified for receipt of offers (e.g., an offer submitted in response to a solicitation requiring receipt of offers by the 20th of the month must have been mailed by the 15th);

(2) Was sent by mail, or if authorized by the solicitation, was sent by telegram or via facsimile, and it is determined by the PHA/IHA that the late receipt was due solely to mishandling by the PHA/IHA after receipt at the PHA/IHA; or

(3) Was sent by U.S. Postal Service Express Mail Next Day Service - Post Office to Addressee, not later than 5:00 p.m. at the place of mailing two working days prior to the date specified for receipt of proposals. The term "working days" excludes weekends and observed holidays.

(b) Any modification or withdrawal of a bid is subject to the same conditions as in paragraph (a) of this provision.

(c) The only acceptable evidence to establish the date of mailing of a late bid, modification, or withdrawal sent either by registered or certified mail is the U.S. or Canadian Postal Service postmark both on the envelope or wrapper and on the original receipt from the U.S. or Canadian Postal Service. Both postmarks must show a legible date and the bid, modification, or withdrawal shall be processed as if mailed late. "Postmark" means a printed, stamped, or otherwise placed impression (exclusive of a postage meter machine impression) that is readily identifiable without further action as having been supplied and affixed by employees of the U.S. or Canadian Postal Service on the date of mailing. Therefore, bidders should request the postal clerk to place a hand cancellation bull's-eye postmark on both the receipt and the envelope or wrapper.

(d) The only acceptable evidence to establish the time of receipt at the PHA/IHA is the time/date stamp of PHA/IHA on the proposal wrapper or other documentary evidence of receipt maintained by the PHA/IHA.

(e) The only acceptable evidence to establish the date of mailing of a late bid, modification, or withdrawal sent by Express Mail Next Day Service-Post Office to Addressee is the date entered by the post office receiving clerk on the "Express Mail Next Day Service-Post Office to Addressee" label and the postmark on both the envelope or wrapper and on the original receipt from the U.S. Postal Service. "Postmark" has the same meaning as defined in paragraph (c) of this provision, excluding postmarks of the Canadian Postal Service. Therefore, bidders should request the postal clerk to place a legible hand cancellation bull's eye postmark on both the receipt and Failure by a bidder to acknowledge receipt of the envelope or wrapper.

(f) Notwithstanding paragraph (a) of this provision, a late modification of an otherwise successful bid that makes its terms more favorable to the PHA/IHA will be considered at any time it is received and may be accepted.

(g) Bids may be withdrawn by written notice, or if authorized by this solicitation, by telegram (including mailgram) or facsimile machine transmission received at any time before the exact time set for opening of bids; provided that written confirmation of telegraphic or facsimile withdrawals over the signature of the bidder is mailed and postmarked prior to the specified bid opening time. A bid may be withdrawn in person by a bidder or its authorized representative if, before the exact time set for opening of bids, the identity of the person requesting withdrawal is established and the person signs a receipt for the bid.

## 6. Bid Opening

All bids received by the date and time of receipt specified in the solicitation will be publicly opened and read. The time and place of opening will be as specified in the solicitation. Bidders and other interested persons may be present.

## 7. Service of Protest

(a) Definitions. As used in this provision:

"Interested party" means an actual or prospective bidder whose direct economic interest would be affected by the award of the contract.

"Protest" means a written objection by an interested party to this solicitation or to a proposed or actual award of a contract pursuant to this solicitation.

(b) Protests shall be served on the Contracting Officer by obtaining written and dated acknowledgement from —

[Contracting Officer designate the official or location where a protest may be served on the Contracting Officer]

(c) All protests shall be resolved in accordance with the PHA's/IHA's protest policy and procedures, copies of which are maintained at the PHA/IHA.

## 8. Contract Award

(a) The PHA/IHA will evaluate bids in response to this solicitation without discussions and will award a contract to the responsible bidder whose bid, conforming to the solicitation, will be most advantageous to the PHA/IHA considering only price and any price-related factors specified in the solicitation.

(b) If the apparent low bid received in response to this solicitation exceeds the PHA's/IHA's available funding for the proposed contract work, the PHA/IHA may either accept separately priced items (see 8(e) below) or use the following procedure to determine contract award. The PHA/IHA shall apply in turn to each bid (proceeding in order from the apparent low bid to the high bid) each of the separately priced bid deductible items, if any, in their priority order set forth in this solicitation. If upon the application of the first deductible item to all initial bids, a new low bid is within the PHA's/IHA's available funding, then award shall be made to that bidder. If no bid is within the available funding amount, then the PHA/IHA shall apply the second deductible item. The PHA/IHA shall continue this process until an evaluated low bid, if any, is within the PHA's/IHA's available funding. If upon the application of all deductibles, no bid is within the PHA's/IHA's available funding, or if the solicitation does not request separately priced deductibles, the PHA/IHA shall follow its written policy and procedures in making any award under this solicitation.

(c) In the case of tie low bids, award shall be made in accordance with the PHA's/IHA's written policy and procedures.

(d) The PHA/IHA may reject any and all bids, accept other than the lowest bid (e.g., the apparent low bid is unreasonably low), and waive informalities or minor irregularities in bids received, in accordance with the PHA's/IHA's written policy and procedures.

(e) Unless precluded elsewhere in the solicitation, the PHA/IHA may accept any item or combination of items b i d .

(f) The PHA/IHA may reject any bid as nonresponsive if it is materially unbalanced as to the prices for the various items of work to be performed. A bid is materially unbalanced when it is based on prices significantly less than cost for some work and prices which are significantly overstated for other work.

(g) A written award shall be furnished to the successful bidder within the period for acceptance specified in the bid and shall result in a binding contract without further action by either p a r t y .

#### **9. Bid Guarantee (applicable to construction and equipment contracts exceeding \$25,000)**

All bids must be accompanied by a negotiable bid guarantee which shall not be less than five percent (5%) of the amount of the bid. The bid guarantee may be a certified check, bank draft, U.S. Government Bonds at par value, or a bid bond secured by a surety company acceptable to the U.S. Government and authorized to do business in the state where the work is to be performed. In the case where the work under the contract will be performed on an Indian reservation area, the bid guarantee may also be an irrevocable Letter of Credit (see provision 10, Assurance of Completion, below). Certified checks and bank drafts must be made payable to the order of the PHA/IHA. The bid guarantee shall insure the execution of the contract and the furnishing of a method of assurance of completion by the successful bidder as required by the solicitation. Failure to submit a bid guarantee with the bid shall result in the rejection of the bid. Bid guarantees submitted by unsuccessful bidders will be returned as soon as practicable after bid o p e n i n g .

#### **10. Assurance of Completion**

(a) Unless otherwise provided in State law, the successful bidder shall furnish an assurance of completion prior to the execution of any contract under this solicitation. This assurance may be [Contracting Officer check applicable items] —

[ ] (1) a performance and payment bond in a penal sum of 100 percent of the contract price; or, as may be required or permitted by State law;

[ ] (2) separate performance and payment bonds, each for 50 percent or more of the contract price;

[ ] (3) a 20 percent cash escrow;

[ ] (4) a 25 percent irrevocable letter of credit; or,

[ ] (5) an irrevocable letter of credit for 10 percent of the total contract price with a monitoring and disbursements agreement with the IHA (applicable only to contracts awarded by an IHA under the Indian Housing Program).

(b) Bonds must be obtained from guarantee or surety companies acceptable to the U.S. Government and authorized to do business in the state where the work is to be performed. Individual sureties will not be considered. U.S. Treasury Circular Number 570, published annually in the Federal Register, lists companies approved to act as sureties on bonds securing Government contracts, the maximum underwriting limits on each contract bonded, and the States in which the company is licensed to do business. Use of companies listed in this circular is mandatory. Copies of the circular may be downloaded on the U.S. Department of Treasury website <http://www.fms.treas.gov/c570/index.html>, or ordered for a minimum fee by contacting the Government Printing Office at (202) 512-2168.

(c) Each bond shall clearly state the rate of premium and the total amount of premium charged. The current power of attorney for the person who signs for the surety company must be attached to the bond. The effective date of the power of attorney shall not precede the date of the bond. The effective date of the bond shall be on or after the execution date of the contract.

(d) Failure by the successful bidder to obtain the required assurance of completion within the time specified, or within such extended period as the PHA/IHA may grant based upon reasons determined adequate by the PHA/IHA, shall render the bidder ineligible for award. The PHA/IHA may then either award the contract to the next lowest responsible bidder or solicit new bids. The PHA/IHA may retain the ineligible bidder's bid g u a r a n t e e .

#### **11. Preconstruction Conference (applicable to construction contracts)**

After award of a contract under this solicitation and prior to the start of work, the successful bidder will be required to attend a preconstruction conference with representatives of the PHA/IHA and its architect/engineer, and other interested parties convened by the PHA/IHA. The conference will serve to acquaint the participants with the general plan of the construction operation and all other requirements of the contract (e.g., Equal Employment Opportunity, Labor Standards). The PHA/IHA will provide the successful bidder with the date, time, and place of the conference.

#### **12. Indian Preference Requirements (applicable only if this solicitation is for a contract to be performed on a project for an Indian Housing Authority)**

(a) HUD has determined that the contract awarded under this solicitation is subject to the requirements of section 7(b) of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 450e(b)). Section 7(b) requires that any contract or subcontract entered into for the benefit of Indians shall require that, to the greatest extent feasible

(1) Preferences and opportunities for training and employment (other than core crew positions; see paragraph (h) below) in connection with the administration of such contracts or subcontracts be given to qualified "Indians." The Act defines "Indians" to mean persons who are members of an Indian tribe and defines "Indian tribe" to mean any Indian tribe, band, nation, or other organized group or community, including any Alaska Native village or regional or village corporation as defined in or established pursuant to the Alaska Native Claims Settlement Act, which is recognized as eligible for the special programs and services provided by the United States to Indians because of their status as Indians; and,

(2) Preference in the award of contracts or subcontracts in connection with the administration of contracts be given to Indian organizations and to Indian-owned economic enterprises, as defined in section 3 of the Indian Financing Act of 1974 (25 U.S.C. 1452). That Act defines "economic enterprise" to mean any Indian-owned commercial, industrial, or business activity established or organized for the purpose of profit, except that the Indian ownership must constitute not less than 51 percent of the enterprise; "Indian organization" to mean the governing body of any Indian tribe or entity established or recognized by such governing body; "Indian" to mean any person who is a member of any tribe, band, group, pueblo, or community which is recognized by the Federal Government as eligible for services from the Bureau of Indian Affairs and any "Native" as defined in the Alaska Native Claims Settlement Act; and Indian "tribe" to mean any Indian tribe, band, group, pueblo, or community including Native villages and Native groups (including

corporations organized by Kenai, Juneau, Sitka, and Kodiak) as defined in the Alaska Native Claims Settlement Act, which is recognized by the Federal Government as eligible for services from the Bureau of Indian Affairs.

(b) (1) The successful Contractor under this solicitation shall comply with the requirements of this provision in awarding all subcontracts under the contract and in providing training and employment opportunities.

(2) A finding by the IHA that the contractor, either (i) awarded a subcontract without using the procedure required by the IHA, (ii) falsely represented that subcontracts would be awarded to Indian enterprises or organizations; or, (iii) failed to comply with the contractor's employment and training preference bid statement shall be grounds for termination of the contract or for the assessment of penalties or other remedies.

(c) If specified elsewhere in this solicitation, the IHA may restrict the solicitation to qualified Indian-owned enterprises and Indian organizations. If two or more (or a greater number as specified elsewhere in the solicitation) qualified Indian-owned enterprises or organizations submit responsive bids, award shall be made to the qualified enterprise or organization with the lowest responsive bid. If fewer than the minimum required number of qualified Indian-owned enterprises or organizations submit responsive bids, the IHA shall reject all bids and readvertise the solicitation in accordance with paragraph (d) below.

(d) If the IHA prefers not to restrict the solicitation as described in paragraph (c) above, or if after having restricted a solicitation an insufficient number of qualified Indian enterprises or organizations submit bids, the IHA may advertise for bids from non-Indian as well as Indian-owned enterprises and Indian organizations. Award shall be made to the qualified Indian enterprise or organization with the lowest responsive bid if that bid is -

(1) Within the maximum HUD-approved budget amount established for the specific project or activity for which bids are being solicited; and

(2) No more than the percentage specified in 24 CFR 905.175(c) higher than the total bid price of the lowest responsive bid from any qualified bidder. If no responsive bid by a qualified Indian-owned economic enterprise or organization is within the stated range of the total bid price of the lowest responsive bid from any qualified enterprise, award shall be made to the bidder with the lowest bid.

(e) Bidders seeking to qualify for preference in contracting or subcontracting shall submit proof of Indian ownership with their bids. Proof of Indian ownership shall include but not be limited to:

(1) Certification by a tribe or other evidence that the bidder is an Indian. The IHA shall accept the certification of a tribe that an individual is a member.

(2) Evidence such as stock ownership, structure, management, control, financing and salary or profit sharing arrangements of the enterprise.

(f) (1) All bidders must submit with their bids a statement describing how they will provide Indian preference in the award of subcontracts. The specific requirements of that statement and the factors to be used by the IHA in determining the statement's adequacy are included as an attachment to this solicitation. Any bid that fails to include the required statement shall be rejected as nonresponsive. The IHA may require that comparable statements be provided by subcontractors to the successful Contractor and may require the Contractor to reject any bid or proposal by a subcontractor that fails to include the statement.

(2) Bidders and prospective subcontractors shall submit a certification (supported by credible evidence) to the IHA in any instance where the bidder or subcontractor believes it is infeasible to provide Indian preference in subcontracting. The acceptance or rejection by the IHA of the certification shall be final. Rejection shall disqualify the bid from further consideration.

(g) All bidders must submit with their bids a statement detailing their employment and training opportunities and their plans to provide preference to Indians in implementing the contract; and the number or percentage of Indians anticipated to be employed and trained. Comparable statements from all proposed subcontractors must be submitted. The criteria to be used by the IHA in determining the statement(s)'s adequacy is included as an attachment to this solicitation. Any bid that fails to include the required statement(s), or that includes a statement that does not meet minimum standards required by the IHA shall be rejected as nonresponsive.

(h) Core crew employees. A core crew employee is an individual who is a bona fide employee of the contractor at the time the bid is submitted; or an individual who was not employed by the bidder at the time the bid was submitted, but who is regularly employed by the bidder in a supervisory or other key skilled position when work is available. Bidders shall submit with their bids a list of all core crew employees.

(i) Preference in contracting, subcontracting, employment, and training shall apply not only on-site, on the reservation, or within the IHA's jurisdiction, but also to contracts with firms that operate outside these areas (e.g., employment in modular or manufactured housing construction facilities).

(j) Bidders should contact the IHA to determine if any additional local preference requirements are applicable to this solicitation.

(k) The IHA [ ] does [ ] does not [Contracting Officer check applicable box] maintain lists of Indian-owned economic enterprises and Indian organizations by specialty (e.g., plumbing, electrical, foundations), which are available to bidders to assist them in meeting their responsibility to provide preference in connection with the administration of contracts and subcontracts.

## ADDITIONAL INSTRUCTIONS TO BIDDERS

1. The required bid documents to be submitted with each Bid Proposal Form shall include, but not necessarily limited to the following:
  - Certified check payable to the order of the Housing Authority of the Asbury Park (APHA) in the amount equal to five percent (5%) of the bid or a bid bond for a like sum of the bid amount executed by a surety company authorized to do business in the State of NJ and be acceptable to the Federal Government (Federal Treasury Department circular 570);
  - Consent of Surety;
  - Non-Collusion Affidavit;
  - Ownership Disclosure; In the event the Bidder is a corporation or a partnership, a statement must be submitted setting forth the names and addresses of all stock holders in the corporation or partnership, who owns ten percent (10%) of greater interest therein as the case may be;
  - Exhibit B-PL. 1975, C. 127(N.J.A.C. 17.27) Mandatory Affirmative Action Language Statement;
  - Affidavit for Affirmative Action Plan;
  - Contractors Qualification Questionnaire;
  - Statement of Compliance;
  - Disclosure of Lobbying Activities;
  - Representation, Certifications, and other Statements of Bidders form HUD- 5369-A;
  - Previous Participation Certification form HUD-2530;
  - Copy of the contractors, and all subcontractors listed, Business Registration Certificate as required pursuant to section 1 of P.L.2001, c.134 (C.52:32-44);
  - Contractors Certificate of Insurance;
  - List of subcontractors pursuant to section 16 of P.L. 1971, c.198 (C.40A:11-16).

The successful Bidder will be required to furnish and pay for Performance/Payment Bonds in the amount equal to one hundred percent (100%) of the contract price.

2. All request for clarifications of the bid documents during the bid shall be directed to Onboard Engineering, shall be submitted in written form, and submitted to the office of Onboard Engineering.
3. By the act of submitting a bid, the contractor acknowledges that he/she has thoroughly examined the bid documents and the site of the work where said work will be performed and has satisfied themselves of the conditions necessary to complete the project scope of work necessary for a complete and operational system as specified and/or implied.
4. The project will be monitored by Onboard Engineering and their consultants. All project related communications, correspondence, shop drawings, permits, approvals, payments request, etcetera shall be directed to Onboard Engineering for review and distribution.
5. Any work to be performed during other than normal working hours of 8:00 am to 5:00 pm Monday through Friday, except Federal Holidays shall be approved by the Housing Authority.
6. Note that all work is being performed at an occupied site. The contractor shall take all necessary precautions to protect the tenants and the APHA personnel. Remove all trash / debris from the site. Provide barricades and warning lights as required. Cover ground openings and clean site of all hazards at the end of each work day.

# General Conditions for Construction Contracts - Public Housing Programs

U.S. Department of Housing and Urban  
Development  
Office of Public and Indian Housing  
OMB Approval No. 2577-0157 (exp. 3/31/2023)

**Applicability. This form is applicable to any construction/development contract greater than \$150,000.**

This form includes those clauses required by OMB's common rule on grantee procurement, implemented at HUD in 2 CFR 200, and those requirements set forth in Section 3 of the Housing and Urban Development Act of 1968 and its amendment by the Housing and Community Development Act of 1992, implemented by HUD at 24 CFR Part 135. The form is required for construction contracts awarded by Public Housing Agencies (PHAs).

The form is used by Housing Authorities in solicitations to provide necessary contract clauses. If the form were not used, HAs would be unable to enforce their contracts.

Public reporting burden for this collection of information is estimated to average 1.0 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Responses to the collection of information are required to obtain a benefit or to retain a benefit.

The information requested does not lend itself to confidentiality.

HUD may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB number.

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## 1. Definitions

- (a) "Architect" means the person or other entity engaged by the PHA to perform architectural, engineering, design, and other services related to the work as provided for in the contract. When a PHA uses an engineer to act in this capacity, the terms "architect" and "engineer" shall be synonymous. The Architect shall serve as a technical representative of the Contracting Officer. The Architect's authority is as set forth elsewhere in this contract.
  - (b) "Contract" means the contract entered into between the PHA and the Contractor. It includes the forms of Bid, the Bid Bond, the Performance and Payment Bond or Bonds or other assurance of completion, the Certifications, Representations, and Other Statements of Bidders (form HUD-5370), these General Conditions of the Contract for Construction (form HUD-5370), the applicable wage rate determinations from the U.S. Department of Labor, any special conditions included elsewhere in the contract, the specifications, and drawings. It includes all formal changes to any of those documents by addendum, change order, or other modification.
  - (c) "Contracting Officer" means the person delegated the authority by the PHA to enter into, administer, and/or terminate this contract and designated as such in writing to the Contractor. The term includes any successor Contracting Officer and any duly authorized representative of the Contracting Officer also designated in writing. The Contracting Officer shall be deemed the authorized agent of the PHA in all dealings with the Contractor.
  - (d) "Contractor" means the person or other entity entering into the contract with the PHA to perform all of the work required under the contract.
  - (e) "Drawings" means the drawings enumerated in the schedule of drawings contained in the Specifications and as described in the contract clause entitled Specifications and Drawings for Construction herein.
  - (f) "HUD" means the United States of America acting through the Department of Housing and Urban Development including the Secretary, or any other person designated to act on its behalf. HUD has agreed, subject to the provisions of an Annual Contributions Contract (ACC), to provide financial assistance to the PHA, which includes assistance in financing the work to be performed under this contract. As defined elsewhere in these General Conditions or the contract documents, the determination of HUD may be required to authorize changes in the work or for release of funds to the PHA for payment to the Contractor. Notwithstanding HUD's role, nothing in this contract shall be construed to create any contractual relationship between the Contractor and HUD.
  - (g) "Project" means the entire project, whether construction or rehabilitation, the work for which is provided for in whole or in part under this contract.
  - (h) "PHA" means the Public Housing Agency organized under applicable state laws which is a party to this contract.
  - (j) "Specifications" means the written description of the technical requirements for construction and includes the criteria and tests for determining whether the requirements are met.
  - (l) "Work" means materials, workmanship, and manufacture and fabrication of components.
- (a) The Contractor shall furnish all necessary labor, materials, tools, equipment, and transportation necessary for performance of the work. The Contractor shall also furnish all necessary water, heat, light, and power not made available to the Contractor by the PHA pursuant to the clause entitled Availability and Use of Utility Services herein.
  - (b) The Contractor shall perform on the site, and with its own organization, work equivalent to at least [ ] (12 percent unless otherwise indicated) of the total amount of work to be performed under the order. This percentage may be reduced by a supplemental agreement to this order if, during performing the work, the Contractor requests a reduction and the Contracting Officer determines that the reduction would be to the advantage of the PHA.
  - (c) At all times during performance of this contract and until the work is completed and accepted, the Contractor shall directly superintend the work or assign and have on the work site a competent superintendent who is satisfactory to the Contracting Officer and has authority to act for the Contractor.
  - (d) The Contractor shall be responsible for all damages to persons or property that occur as a result of the Contractor's fault or negligence and shall take proper safety and health precautions to protect the work, the workers, the public, and the property of others. The Contractor shall hold and save the PHA, its officers and agents, free and harmless from liability of any nature occasioned by the Contractor's performance. The Contractor shall also be responsible for all materials delivered and work performed until completion and acceptance of the entire work, except for any completed unit of work which may have been accepted under the contract.
  - (e) The Contractor shall lay out the work from base lines and benchmarks indicated on the drawings and be responsible for all lines, levels, and measurements of all work executed under the contract. The Contractor shall verify the figures before laying out the work and will be held responsible for any error resulting from its failure to do so.
  - (f) The Contractor shall confine all operations (including storage of materials) on PHA premises to areas authorized or approved by the Contracting Officer.
  - (g) The Contractor shall at all times keep the work area, including storage areas, free from accumulations of waste materials. After completing the work and before final inspection, the Contractor shall (1) remove from the premises all scaffolding, equipment, tools, and materials (including rejected materials) that are not the property of the PHA and all rubbish caused by its work; (2) leave the work area in a clean, neat, and orderly condition satisfactory to the Contracting Officer; (3) perform all specified tests; and, (4) deliver the installation in complete and operating condition.
  - (h) The Contractor's responsibility will terminate when all work has been completed, the final inspection made, and the work accepted by the Contracting Officer. The Contractor will then be released from further obligation except as required by the warranties specified elsewhere in the contract.

## 3. Architect's Duties, Responsibilities, and Authority

- (a) The Architect for this contract, and any successor, shall be designated in writing by the Contracting Officer.

## 2. Contractor's Responsibility for Work

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- (b) The Architect shall serve as the Contracting Officer's technical representative with respect to architectural, engineering, and design matters related to the work performed under the contract. The Architect may provide direction on contract performance. Such direction shall be within the scope of the contract and may not be of a nature which: (1) institutes additional work outside the scope of the contract; (2) constitutes a change as defined in the Changes clause herein; (3) causes an increase or decrease in the cost of the contract; (4) alters the Construction Progress Schedule; or (5) changes any of the other express terms or conditions of the contract.
- (c) The Architect's duties and responsibilities may include but shall not be limited to:
- (1) Making periodic visits to the work site, and on the basis of his/her on-site inspections, issuing written reports to the PHA which shall include all observed deficiencies. The Architect shall file a copy of the report with the Contractor's designated representative at the site;
  - (2) Making modifications in drawings and technical specifications and assisting the Contracting Officer in the preparation of change orders and other contract modifications for issuance by the Contracting Officer;
  - (3) Reviewing and making recommendations with respect to - (i) the Contractor's construction progress schedules; (ii) the Contractor's shop and detailed drawings; (iii) the machinery, mechanical and other equipment and materials or other articles proposed for use by the Contractor; and, (iv) the Contractor's price breakdown and progress payment estimates; and,
  - (4) Assisting in inspections, signing Certificates of Completion, and making recommendations with respect to acceptance of work completed under the contract.

#### 4. Other Contracts

The PHA may undertake or award other contracts for additional work at or near the site of the work under this contract. The Contractor shall fully cooperate with the other contractors and with PHA employees and shall carefully adapt scheduling and performing the work under this contract to accommodate the additional work, heeding any direction that may be provided by the Contracting Officer. The Contractor shall not commit or permit any act that will interfere with the performance of work by any other contractor or by PHA employees.

#### Construction Requirements

##### 5. Pre-construction Conference and Notice to Proceed

- (a) Within ten calendar days of contract execution, and prior to the commencement of work, the Contractor shall attend a preconstruction conference with representatives of the PHA, its Architect, and other interested parties convened by the PHA. The conference will serve to acquaint the participants with the general plan of the construction operation and all other requirements of the contract. The PHA will provide the Contractor with the date, time, and place of the conference.
- (b) The contractor shall begin work upon receipt of a written Notice to Proceed from the Contracting Officer or designee. The Contractor shall not begin work prior to receiving such notice.

##### 6. Construction Progress Schedule

- (a) The Contractor shall, within five days after the work commences on the contract or another period of time determined by the Contracting Officer, prepare and submit to the Contracting Officer for approval three copies of a practicable schedule showing the order in which the Contractor proposes to perform the work, and the dates on which the Contractor contemplates starting and completing the several salient features of the work (including acquiring labor, materials, and equipment). The schedule shall be in the form of a progress chart of suitable scale to indicate appropriately the percentage of work scheduled for completion by any given date during the period. If the Contractor fails to submit a schedule within the time prescribed, the Contracting Officer may withhold approval of progress payments or take other remedies under the contract until the Contractor submits the required schedule.
- (b) The Contractor shall enter the actual progress on the chart as required by the Contracting Officer, and immediately deliver three copies of the annotated schedule to the Contracting Officer. If the Contracting Officer determines, upon the basis of inspection conducted pursuant to the clause entitled Inspection and Acceptance of Construction, herein that the Contractor is not meeting the approved schedule, the Contractor shall take steps necessary to improve its progress, including those that may be required by the Contracting Officer, without additional cost to the PHA. In this circumstance, the Contracting Officer may require the Contractor to increase the number of shifts, overtime operations, days of work, and/or the amount of construction plant, and to submit for approval any supplementary schedule or schedules in chart form as the Contracting Officer deems necessary to demonstrate how the approved rate of progress will be regained.
- (c) Failure of the Contractor to comply with the requirements of the Contracting Officer under this clause shall be grounds for a determination by the Contracting Officer that the Contractor is not prosecuting the work with sufficient diligence to ensure completion within the time specified in the Contract. Upon making this determination, the Contracting Officer may terminate the Contractor's right to proceed with the work, or any separable part of it, in accordance with the Default clause of this contract.

##### 7. Site Investigation and Conditions Affecting the Work

- (a) The Contractor acknowledges that it has taken steps reasonably necessary to ascertain the nature and location of the work, and that it has investigated and satisfied itself as to the general and local conditions which can affect the work or its cost, including but not limited to, (1) conditions bearing upon transportation, disposal, handling, and storage of materials; (2) the availability of labor, water, electric power, and roads; (3) uncertainties of weather, river stages, tides, or similar physical conditions at the site; (4) the conformation and conditions of the ground; and (5) the character of equipment and facilities needed preliminary to and during work performance. The Contractor also acknowledges that it has satisfied itself as to the character, quality, and quantity of surface and subsurface materials or obstacles to be encountered insofar as this information is

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reasonably ascertainable from an inspection of the site, including all exploratory work done by the PHA, as well as from the drawings and specifications made a part of this contract. Any failure of the Contractor to take the actions described and acknowledged in this paragraph will not relieve the Contractor from responsibility for estimating properly the difficulty and cost of successfully performing the work, or for proceeding to successfully perform the work without additional expense to the PHA.

- (b) The PHA assumes no responsibility for any conclusions or interpretations made by the Contractor based on the information made available by the PHA. Nor does the PHA assume responsibility for any understanding reached or representation made concerning conditions which can affect the work by any of its officers or agents before the execution of this contract, unless that understanding, or representation is expressly stated in this contract.

### 8. Differing Site Conditions

- (a) The Contractor shall promptly, and before the conditions are disturbed, give a written notice to the Contracting Officer of (1) subsurface or latent physical conditions at the site which differ materially from those indicated in this contract, or (2) unknown physical conditions at the site(s), of an unusual nature, which differ materially from those ordinarily encountered and generally recognized as inhering in work of the character provided for in the contract.
- (b) The Contracting Officer shall investigate the site conditions promptly after receiving the notice. Work shall not proceed at the affected site, except at the Contractor's risk, until the Contracting Officer has provided written instructions to the Contractor. If the conditions do materially so differ and cause an increase or decrease in the Contractor's cost of, or the time required for, performing any part of the work under this contract, whether or not changed as a result of the conditions, the Contractor shall file a claim in writing to the PHA within ten days after receipt of such instructions and, in any event, before proceeding with the work. An equitable adjustment in the contract price, the delivery schedule, or both shall be made under this clause and the contract modified in writing accordingly.
- (c) No request by the Contractor for an equitable adjustment to the contract under this clause shall be allowed, unless the Contractor has given the written notice required; provided, that the time prescribed in (a) above for giving written notice may be extended by the Contracting Officer.
- (d) No request by the Contractor for an equitable adjustment to the contract for differing site conditions shall be allowed if made after final payment under this contract.

### 9. Specifications and Drawings for Construction

- (a) The Contractor shall keep on the work site a copy of the drawings and specifications and shall at all times give the Contracting Officer access thereto. Anything mentioned in the specifications and not shown on the drawings or shown on the drawings and not mentioned in the specifications, shall be of like effect as if shown or mentioned in both. In case of difference between drawings and specifications, the specifications shall govern. In case of discrepancy in the figures, in the drawings, or in the specifications, the matter shall be

promptly submitted to the Contracting Officer, who shall promptly make a determination in writing. Any adjustment by the Contractor without such a determination shall be at its own risk and expense. The Contracting Officer shall furnish from time to time such detailed drawings and other information as considered necessary, unless otherwise provided.

- (b) Wherever in the specifications or upon the drawings the words "directed", "required", "ordered", "designated", "prescribed", or words of like import are used, it shall be understood that the "direction", "requirement", "order", "designation", or "prescription", of the Contracting Officer is intended and similarly the words "approved", "acceptable", "satisfactory", or words of like import shall mean "approved by", or "acceptable to" or "satisfactory to" the Contracting Officer, unless otherwise expressly stated.
- (c) Where "as shown" "as indicated", "as detailed", or of similar import are used, it shall be understood that the reference is made to the drawings accompanying this contract unless stated otherwise. The word "provided" as used herein shall be understood to mean "provide complete in place" that is "furnished and installed".
- (d) "Shop drawings" means drawings, submitted to the PHA by the Contractor, subcontractor, or any lower tier subcontractor, showing in detail (1) the proposed fabrication and assembly of structural elements and (2) the installation (i.e., form, fit, and attachment details) of materials of equipment. It includes drawings, diagrams, layouts, schematics, descriptive literature, illustrations, schedules, performance and test data, and similar materials furnished by the Contractor to explain in detail specific portions of the work required by the contract. The PHA may duplicate, use, and disclose in any manner and for any purpose shop drawings delivered under this contract.
- (e) If this contract requires shop drawings, the Contractor shall coordinate all such drawings, and review them for accuracy, completeness, and compliance with other contract requirements and shall indicate its approval thereon as evidence of such coordination and review. Shop drawings submitted to the Contracting Officer without evidence of the Contractor's approval may be returned for resubmission. The Contracting Officer will indicate an approval or disapproval of the shop drawings and if not approved as submitted shall indicate the PHA's reasons therefore. Any work done before such approval shall be at the Contractor's risk. Approval by the Contracting Officer shall not relieve the Contractor from responsibility for any errors or omissions in such drawings, nor from responsibility for complying with the requirements of this contract, except with respect to variations described and approved in accordance with (f) below.
- (f) If shop drawings show variations from the contract requirements, the Contractor shall describe such variations in writing, separate from the drawings, at the time of submission. If the Architect approves any such variation and the Contracting Officer concurs, the Contracting Officer shall issue an appropriate modification to the contract, except that, if the variation is minor or does not involve a change in price or in time of performance, a modification need not be issued.
- (g) It shall be the responsibility of the Contractor to make timely requests of the PHA for such large scale and full size drawings, color schemes, and other additional information, not already in his possession, which shall be

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required in the planning and production of the work. Such requests may be submitted as the need arises, but each such request shall be filed in ample time to permit appropriate action to be taken by all parties involved so as to avoid delay.

- (h) The Contractor shall submit to the Contracting Officer for approval four copies (unless otherwise indicated) of all shop drawings as called for under the various headings of these specifications. Three sets (unless otherwise indicated) of all shop drawings, will be retained by the PHA and one set will be returned to the Contractor. As required by the Contracting Officer, the Contractor, upon completing the work under this contract, shall furnish a complete set of all shop drawings as finally approved. These drawings shall show all changes and revisions made up to the time the work is completed and accepted.
- (i) This clause shall be included in all subcontracts at any tier. It shall be the responsibility of the Contractor to ensure that all shop drawings prepared by subcontractors are submitted to the Contracting Officer.

#### 10. As-Built Drawings

- (a) "As-built drawings," as used in this clause, means drawings submitted by the Contractor or subcontractor at any tier to show the construction of a particular structure or work as actually completed under the contract. "As-built drawings" shall be synonymous with "Record drawings."
- (b) As required by the Contracting Officer, the Contractor shall provide the Contracting Officer accurate information to be used in the preparation of permanent as-built drawings. For this purpose, the Contractor shall record on one set of contract drawings all changes from the installations originally indicated, and record final locations of underground lines by depth from finish grade and by accurate horizontal offset distances to permanent surface improvements such as buildings, curbs, or edges of walks.
- (c) This clause shall be included in all subcontracts at any tier. It shall be the responsibility of the Contractor to ensure that all as-built drawings prepared by subcontractors are submitted to the Contracting Officer.

#### 11. Material and Workmanship

- (a) All equipment, material, and articles furnished under this contract shall be new and of the most suitable grade for the purpose intended, unless otherwise specifically provided in this contract. References in the contract to equipment, material, articles, or patented processes by trade name, make, or catalog number, shall be regarded as establishing a standard of quality and shall not be construed as limiting competition. The Contractor may, at its option, use any equipment, material, article, or process that, in the judgment of, and as approved by the Contracting Officer, is equal to that named in the specifications, unless otherwise specifically provided in this contract.
- (b) Approval of equipment and materials.
- (1) The Contractor shall obtain the Contracting Officer's approval of the machinery and mechanical and other equipment to be incorporated into the work. When requesting approval, the Contractor shall furnish to the Contracting Officer the name of the manufacturer, the model number, and other information concerning the performance, capacity, nature, and rating of the

machinery and mechanical and other equipment. When required by this contract or by the Contracting Officer, the Contractor shall also obtain the Contracting Officer's approval of the material or articles which the Contractor contemplates incorporating into the work. When requesting approval, the Contractor shall provide full information concerning the material or articles. Machinery, equipment, material, and articles that do not have the required approval shall be installed or used at the risk of subsequent rejection.

- (2) When required by the specifications or the Contracting Officer, the Contractor shall submit appropriately marked samples (and certificates related to them) for approval at the Contractor's expense, with all shipping charges prepaid. The Contractor shall label, or otherwise properly mark on the container, the material or product represented, its place of origin, the name of the producer, the Contractor's name, and the identification of the construction project for which the material or product is intended to be used.
- (3) Certificates shall be submitted in triplicate, describing each sample submitted for approval and certifying that the material, equipment or accessory complies with contract requirements. The certificates shall include the name and brand of the product, name of manufacturer, and the location where produced.
- (4) Approval of a sample shall not constitute a waiver of the PHA right to demand full compliance with contract requirements. Materials, equipment and accessories may be rejected for cause even though samples have been approved.
- (5) Wherever materials are required to comply with recognized standards or specifications, such specifications shall be accepted as establishing the technical qualities and testing methods, but shall not govern the number of tests required to be made nor modify other contract requirements. The Contracting Officer may require laboratory test reports on items submitted for approval or may approve materials on the basis of data submitted in certificates with samples. Check tests will be made on materials delivered for use only as frequently as the Contracting Officer determines necessary to ensure compliance of materials with the specifications. The Contractor will assume all costs of retesting materials which fail to meet contract requirements and/or testing materials offered in substitution for those found deficient.
- (6) After approval, samples will be kept in the Project office until completion of work. They may be built into the work after a substantial quantity of the materials they represent has been built in and accepted.
- (c) Requirements concerning lead-based paint. The Contractor shall comply with the requirements concerning lead-based paint contained in the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. 4821-4846) as implemented by 24 CFR Part 35.
- #### 12. Permits and Codes

- (a) The Contractor shall give all notices and comply with all applicable laws, ordinances, codes, rules and regulations. Notwithstanding the requirement of the Contractor to comply with the drawings and specifications in the contract, all work installed shall comply with all applicable codes and regulations as amended by any

waivers. Before installing the work, the Contractor shall examine the drawings and the specifications for compliance with applicable codes and regulations bearing on the work and shall immediately report any discrepancy it may discover to the Contracting Officer. Where the requirements of the drawings and specifications fail to comply with the applicable code or regulation, the Contracting Officer shall modify the contract by change order pursuant to the clause entitled Changes herein to conform to the code or regulation.

- (b) The Contractor shall secure and pay for all permits, fees, and licenses necessary for the proper execution and completion of the work. Where the PHA can arrange for the issuance of all or part of these permits, fees and licenses, without cost to the Contractor, the contract amount shall be reduced accordingly.

### 13. Health, Safety, and Accident Prevention

(a) In performing this contract, the Contractor shall:

- (1) Ensure that no laborer or mechanic shall be required to work in surroundings or under working conditions which are unsanitary, hazardous, or dangerous to his/her health and/or safety as determined under construction safety and health standards promulgated by the Secretary of Labor by regulation;
- (2) Protect the lives, health, and safety of other persons;
- (3) Prevent damage to property, materials, supplies, and equipment; and,
- (4) Avoid work interruptions.

(b) For these purposes, the Contractor shall:

- (1) Comply with regulations and standards issued by the Secretary of Labor at 29 CFR Part 1926. Failure to comply may result in imposition of sanctions pursuant to the Contract Work Hours and Safety Standards Act (Public Law 91-54, 83 Stat. 96), 40 U.S.C. 3701 et seq.; and
- (2) Include the terms of this clause in every subcontract so that such terms will be binding on each subcontractor.

(c) The Contractor shall maintain an accurate record of exposure data on all accidents incident to work performed under this contract resulting in death, traumatic injury, occupational disease, or damage to property, materials, supplies, or equipment, and shall report this data in the manner prescribed by 29 CFR Part 1904.

(d) The Contracting Officer shall notify the Contractor of any noncompliance with these requirements and of the corrective action required. This notice, when delivered to the Contractor or the Contractor's representative at the site of the work, shall be deemed sufficient notice of the noncompliance and corrective action required. After receiving the notice, the Contractor shall immediately take corrective action. If the Contractor fails or refuses to take corrective action promptly, the Contracting Officer may issue an order stopping all or part of the work until satisfactory corrective action has been taken. The Contractor shall not base any claim or request for equitable adjustment for additional time or money on any stop order issued under these circumstances.

(e) The Contractor shall be responsible for its subcontractors' compliance with the provisions of this clause. The Contractor shall take such action with respect to any subcontract as the PHA, the Secretary of Housing and Urban Development, or the Secretary of Labor shall direct as a means of enforcing such provisions.

### 14. Temporary Heating

The Contractor shall provide and pay for temporary heating, covering, and enclosures necessary to properly protect all work and materials against damage by dampness and cold, to dry out the work, and to facilitate the completion of the work. Any permanent heating equipment used shall be turned over to the PHA in the condition and at the time required by the specifications.

### 15. Availability and Use of Utility Services

- (a) The PHA shall make all reasonably required amounts of utilities available to the Contractor from existing outlets and supplies, as specified in the contract. Unless otherwise provided in the contract, the amount of each utility service consumed shall be charged to or paid for by the Contractor at prevailing rates charged to the PHA or, where the utility is produced by the PHA, at reasonable rates determined by the Contracting Officer. The Contractor shall carefully conserve any utilities furnished without charge.
- (b) The Contractor, at its expense and in a manner satisfactory to the Contracting Officer, shall install and maintain all necessary temporary connections and distribution lines, and all meters required to measure the amount of each utility used for the purpose of determining charges. Before final acceptance of the work by the PHA, the Contractor shall remove all the temporary connections, distribution lines, meters, and associated paraphernalia.

### 16. Protection of Existing Vegetation, Structures, Equipment, Utilities, and Improvements

- (a) The Contractor shall preserve and protect all structures, equipment, and vegetation (such as trees, shrubs, and grass) on or adjacent to the work site, which are not to be removed under this contract, and which do not unreasonably interfere with the work required under this contract.
- (b) The Contractor shall only remove trees when specifically authorized to do so, and shall avoid damaging vegetation that will remain in place. If any limbs or branches of trees are broken during performance of this contract, or by the careless operation of equipment, or by workmen, the Contractor shall trim those limbs or branches with a clean cut and paint the cut with a tree-pruning compound as directed by the Contracting Officer.
- (c) The Contractor shall protect from damage all existing improvements and utilities (1) at or near the work site and (2) on adjacent property of a third party, the locations of which are made known to or should be known by the Contractor. Prior to disturbing the ground at the construction site, the Contractor shall ensure that all underground utility lines are clearly marked.
- (d) The Contractor shall shore up, brace, underpin, secure, and protect as necessary all foundations and other parts of existing structures adjacent to, adjoining, and in the vicinity of the site, which may be affected by the excavations or other operations connected with the construction of the project.
- (e) Any equipment temporarily removed as a result of work under this contract shall be protected, cleaned, and replaced in the same condition as at the time of award of this contract.

- (f) New work which connects to existing work shall correspond in all respects with that to which it connects and/or be similar to existing work unless otherwise required by the specifications.
- (g) No structural members shall be altered or in any way weakened without the written authorization of the Contracting Officer unless such work is clearly specified in the plans or specifications.
- (h) If the removal of the existing work exposes discolored or unfinished surfaces, or work out of alignment, such surfaces shall be refinished, or the material replaced as necessary to make the continuous work uniform and harmonious. This, however, shall not be construed to require the refinishing or reconstruction of dissimilar finishes previously exposed, or finished surfaces in good condition, but in different planes or on different levels when brought together by the removal of intervening work, unless such refinishing or reconstruction is specified in the plans or specifications.
- (i) The Contractor shall give all required notices to any adjoining or adjacent property owner or other party before the commencement of any work.
- (j) The Contractor shall indemnify and save harmless the PHA from any damages on account of settlement or the loss of lateral support of adjoining property, any damages from changes in topography affecting drainage, and from all loss or expense and all damages for which the PHA may become liable in consequence of such injury or damage to adjoining and adjacent structures and their premises.
- (k) The Contractor shall repair any damage to vegetation, structures, equipment, utilities, or improvements, including those that are the property of a third party, resulting from failure to comply with the requirements of this contract or failure to exercise reasonable care in performing the work. If the Contractor fails or refuses to repair the damage promptly, the Contracting Officer may have the necessary work performed and charge the cost to the Contractor.

#### **17. Temporary Buildings and Transportation of Materials**

- (a) Temporary buildings (e.g., storage sheds, shops, offices, sanitary facilities) and utilities may be erected by the Contractor only with the approval of the Contracting Officer and shall be built with labor and materials furnished by the Contractor without expense to the PHA. The temporary buildings and utilities shall remain the property of the Contractor and shall be removed by the Contractor at its expense upon completion of the work. With the written consent of the Contracting Officer, the buildings and utilities may be abandoned and need not be removed.
- (b) The Contractor shall, as directed by the Contracting Officer, use only established roadways, or use temporary roadways constructed by the Contractor when and as authorized by the Contracting Officer. When materials are transported in prosecuting the work, vehicles shall not be loaded beyond the loading capacity recommended by the manufacturer of the vehicle or prescribed by any federal, state, or local law or regulation. When it is necessary to cross curbs or sidewalks, the Contractor shall protect them from damage. The Contractor shall repair or pay for the repair of any damaged curbs, sidewalks, or roads.

#### **18. Clean Air and Water**

The contractor shall comply with the Clean Air Act, as amended, 42 USC 7401 et seq., the Federal Water Pollution Control Water Act, as amended, 33 U.S.C. 1251 et seq., and standards issued pursuant thereto in the facilities in which this contract is to be performed.

#### **19. Energy Efficiency**

The Contractor shall comply with mandatory standards and policies relating to energy efficiency which are contained in the energy conservation plan issued in compliance with the Energy Policy and Conservation Act (Pub.L. 94-163) for the State in which the work under the contract is performed.

#### **20. Inspection and Acceptance of Construction**

- (a) Definitions. As used in this clause -
  - (1) "Acceptance" means the act of an authorized representative of the PHA by which the PHA approves and assumes ownership of the work performed under this contract. Acceptance may be partial or complete.
  - (2) "Inspection" means examining and testing the work performed under the contract (including, when appropriate, raw materials, equipment, components, and intermediate assemblies) to determine whether it conforms to contract requirements.
  - (3) "Testing" means that element of inspection that determines the properties or elements, including functional operation of materials, equipment, or their components, by the application of established scientific principles and procedures.
- (b) The Contractor shall maintain an adequate inspection system and perform such inspections as will ensure that the work performed under the contract conforms to contract requirements. All work is subject to PHA inspection and test at all places and at all reasonable times before acceptance to ensure strict compliance with the terms of the contract.
- (c) PHA inspections and tests are for the sole benefit of the PHA and do not: (1) relieve the Contractor of responsibility for providing adequate quality control measures; (2) relieve the Contractor of responsibility for loss or damage of the material before acceptance; (3) constitute or imply acceptance; or (4) affect the continuing rights of the PHA after acceptance of the completed work under paragraph (j) below.
- (d) The presence or absence of the PHA inspector does not relieve the Contractor from any contract requirement, nor is the inspector authorized to change any term or condition of the specifications without the Contracting Officer's written authorization. All instructions and approvals with respect to the work shall be given to the Contractor by the Contracting Officer.
- (e) The Contractor shall promptly furnish, without additional charge, all facilities, labor, and material reasonably needed for performing such safe and convenient inspections and tests as may be required by the Contracting Officer. The PHA may charge to the Contractor any additional cost of inspection or test when work is not ready at the time specified by the Contractor for inspection or test, or when prior rejection makes reinspection or retest necessary. The PHA shall perform all inspections and tests in a manner that will not unnecessarily delay the work. Special, full size, and performance tests shall be performed as described in the contract.

- (f) The PHA may conduct routine inspections of the construction site on a daily basis.
- (g) The Contractor shall, without charge, replace or correct work found by the PHA not to conform to contract requirements, unless the PHA decides that it is in its interest to accept the work with an appropriate adjustment in contract price. The Contractor shall promptly segregate and remove rejected material from the premises.
- (h) If the Contractor does not promptly replace or correct rejected work, the PHA may (1) by contract or otherwise, replace or correct the work and charge the cost to the Contractor, or (2) terminate for default the Contractor's right to proceed.
- (i) If any work requiring inspection is covered up without approval of the PHA, it must, if requested by the Contracting Officer, be uncovered at the expense of the Contractor. If at any time before final acceptance of the entire work, the PHA considers it necessary or advisable, to examine work already completed by removing or tearing it out, the Contractor, shall on request, promptly furnish all necessary facilities, labor, and material. If such work is found to be defective or nonconforming in any material respect due to the fault of the Contractor or its subcontractors, the Contractor shall defray all the expenses of the examination and of satisfactory reconstruction. If, however, such work is found to meet the requirements of the contract, the Contracting Officer shall make an equitable adjustment to cover the cost of the examination and reconstruction, including, if completion of the work was thereby delayed, an extension of time.
- (j) The Contractor shall notify the Contracting Officer, in writing, as to the date when in its opinion all or a designated portion of the work will be substantially completed and ready for inspection. If the Architect determines that the state of preparedness is as represented, the PHA will promptly arrange for the inspection. Unless otherwise specified in the contract, the PHA shall accept, as soon as practicable after completion and inspection, all work required by the contract or that portion of the work the Contracting Officer determines and designates can be accepted separately. Acceptance shall be final and conclusive except for latent defects, fraud, gross mistakes amounting to fraud, or the PHA's right under any warranty or guarantee.

## 21. Use and Possession Prior to Completion

- (a) The PHA shall have the right to take possession of or use any completed or partially completed part of the work. Before taking possession of or using any work, the Contracting Officer shall furnish the Contractor a list of items of work remaining to be performed or corrected on those portions of the work that the PHA intends to take possession of or use. However, failure of the Contracting Officer to list any item of work shall not relieve the Contractor of responsibility for complying with the terms of the contract. The PHA's possession or use shall not be deemed an acceptance of any work under the contract.
- (b) While the PHA has such possession or use, the Contractor shall be relieved of the responsibility for (1) the loss of or damage to the work resulting from the PHA's possession or use, notwithstanding the terms of the clause entitled Permits and Codes herein; (2) all maintenance costs on the areas occupied; and, (3) furnishing heat, light, power, and water used in the areas

occupied without proper remuneration therefore. If prior possession or use by the PHA delays the progress of the work or causes additional expense to the Contractor, an equitable adjustment shall be made in the contract price or the time of completion, and the contract shall be modified in writing accordingly.

## 22. Warranty of Title

The Contractor warrants good title to all materials, supplies, and equipment incorporated in the work and agrees to deliver the premises together with all improvements thereon free from any claims, liens or charges, and agrees further that neither it nor any other person, firm or corporation shall have any right to a lien upon the premises or anything appurtenant thereto.

## 23. Warranty of Construction

- (a) In addition to any other warranties in this contract, the Contractor warrants, except as provided in paragraph (j) of this clause, that work performed under this contract conforms to the contract requirements and is free of any defect in equipment, material, or workmanship performed by the Contractor or any subcontractor or supplier at any tier. This warranty shall continue for a period of \_\_\_\_\_ (one year unless otherwise indicated) from the date of final acceptance of the work. If the PHA takes possession of any part of the work before final acceptance, this warranty shall continue for a period of (one year unless otherwise indicated) from the date that the PHA takes possession.
- (b) The Contractor shall remedy, at the Contractor's expense, any failure to conform, or any defect. In addition, the Contractor shall remedy, at the Contractor's expense, any damage to PHA-owned or controlled real or personal property when the damage is the result of—
  - (1) The Contractor's failure to conform to contract requirements; or
  - (2) Any defects of equipment, material, workmanship or design furnished by the Contractor.
- (c) The Contractor shall restore any work damaged in fulfilling the terms and conditions of this clause. The Contractor's warranty with respect to work repaired or replaced will run for (one year unless otherwise indicated) from the date of repair or replacement.
- (d) The Contracting Officer shall notify the Contractor, in writing, within a reasonable time after the discovery of any failure, defect or damage.
- (e) If the Contractor fails to remedy any failure, defect, or damage within a reasonable time after receipt of notice, the PHA shall have the right to replace, repair or otherwise remedy the failure, defect, or damage at the Contractor's expense.
- (f) With respect to all warranties, express or implied, from subcontractors, manufacturers, or suppliers for work performed and materials furnished under this contract, the Contractor shall:
  - (1) Obtain all warranties that would be given in normal commercial practice;
  - (2) Require all warranties to be executed in writing, for the benefit of the PHA; and,
  - (3) Enforce all warranties for the benefit of the PHA.
- (g) In the event the Contractor's warranty under paragraph (a) of this clause has expired, the PHA may bring suit at its own expense to enforce a subcontractor's, manufacturer's or supplier's warranty.

- (h) Unless a defect is caused by the negligence of the Contractor or subcontractor or supplier at any tier, the Contractor shall not be liable for the repair of any defect of material or design furnished by the PHA nor for the repair of any damage that results from any defect in PHA furnished material or design.
- (i) Notwithstanding any provisions herein to the contrary, the establishment of the time periods in paragraphs (a) and (c) above relate only to the specific obligation of the Contractor to correct the work and have no relationship to the time within which its obligation to comply with the contract may be sought to be enforced, nor to the time within which proceedings may be commenced to establish the Contractor's liability with respect to its obligation other than specifically to correct the work.
- (j) This warranty shall not limit the PHA's rights under the Inspection and Acceptance of Construction clause of this contract with respect to latent defects, gross mistakes or fraud.

**24. Prohibition Against Liens**

The Contractor is prohibited from placing a lien on the PHA's property. This prohibition shall apply to all subcontractors at any tier and all materials suppliers.

**Administrative Requirements**

**25. Contract Period**

this contract within \_\_\_\_\_ calendar days of the effective date of the contract, or within the timeschedule established in the notice to proceed issued by the Contracting Officer.

**26. Order of Provisions**

In the event of a conflict between these General Conditions and the Specifications, the General Conditions shall prevail. In the event of a conflict between the contract and any applicable state or local law or regulation, the state or local law or regulation shall prevail; provided that such state or local law or regulation does not conflict with, or is less restrictive than applicable federal law, regulation, or Executive Order. In the event of such a conflict, applicable federal law, regulation, and Executive Order shall prevail.

**27. Payments**

- (a) The PHA shall pay the Contractor the price as provided in this contract.
- (b) The PHA shall make progress payments approximately every 30 days as the work proceeds, on estimates of work accomplished which meets the standards of quality established under the contract, as approved by the Contracting Officer. The PHA may, subject to written determination and approval of the Contracting Officer, make more frequent payments to contractors which are qualified small businesses.
- (c) Before the first progress payment under this contract, the Contractor shall furnish, in such detail as requested by the Contracting Officer, a breakdown of the total contract price showing the amount included therein for each principal category of the work, which shall substantiate the payment amount requested in order to provide a

basis for determining progress payments. The breakdown shall be approved by the Contracting Officer and must be acceptable to HUD. If the contract covers more than one project, the Contractor shall furnish a separate breakdown for each. The values and quantities employed in making up this breakdown are for determining the amount of progress payments and shall not be construed as a basis for additions to or deductions from the contract price. The Contractor shall prorate its overhead and profit over the construction period of the contract.

- (d) The Contractor shall submit, on forms provided by the PHA, periodic estimates showing the value of the work performed during each period based upon the approved submitted not later than \_\_\_\_\_ days in advance of the date set for payment and are subject to correction and revision as required. The estimates must be approved by the Contracting Officer with the concurrence of the Architect prior to payment. If the contract covers more than one project, the Contractor shall furnish a separate progress payment estimate for each.

- (e) Along with each request for progress payments and the required estimates, the Contractor shall furnish the following certification, or payment shall not be made: I hereby certify, to the best of my knowledge and belief, that:

- (1) The amounts requested are only for performance in accordance with the specifications, terms, and conditions of the contract;
- (2) Payments to subcontractors and suppliers have been made from previous payments received under the contract, and timely payments will be made from the proceeds of the payment covered by this certification, in accordance with subcontract agreements; and,
- (3) This request for progress payments does not include any amounts which the prime contractor intends to withhold or retain from a subcontractor or supplier in accordance with the terms and conditions of the subcontract.

\_\_\_\_\_  
Name:

\_\_\_\_\_  
Title:

\_\_\_\_\_  
Date:

- (f) Except as otherwise provided in State law, the PHA shall retain ten (10) percent of the amount of progress payments until completion and acceptance of all work under the contract; except, that if upon completion of 50 percent of the work, the Contracting Officer, after consulting with the Architect, determines that the Contractor's performance and progress are satisfactory, the PHA may make the remaining payments in full for the work subsequently completed. If the Contracting Officer subsequently determines that the Contractor's performance and progress are unsatisfactory, the PHA shall reinstate the ten (10) percent (or other percentage as provided in State law) retainage until such time as the Contracting Officer determines that performance and progress are satisfactory.
- (g) The Contracting Officer may authorize material delivered on the site and preparatory work done to be taken into consideration when computing progress payments.

Material delivered to the Contractor at locations other than the site may also be taken into consideration if the Contractor furnishes satisfactory evidence that (1) it has acquired title to such material; (2) the material is properly stored in a bonded warehouse, storage yard, or similar suitable place as may be approved by the Contracting Officer; (3) the material is insured to cover its full value; and (4) the material will be used to perform this contract. Before any progress payment which includes delivered material is made, the Contractor shall furnish such documentation as the Contracting Officer may require to assure the protection of the PHA's interest in such materials. The Contractor shall remain responsible for such stored material notwithstanding the transfer of title to the PHA.

- (h) All material and work covered by progress payments made shall, at the time of payment become the sole property of the PHA, but this shall not be construed as (1) relieving the Contractor from the sole responsibility for all material and work upon which payments have been made or the restoration of any damaged work; or, (2) waiving the right of the PHA to require the fulfillment of all of the terms of the contract. In the event the work of the Contractor has been damaged by other contractors or persons other than employees of the PHA in the course of their employment, the Contractor shall restore such damaged work without cost to the PHA and to seek redress for its damage only from those who directly caused it.
- (i) The PHA shall make the final payment due the Contractor under this contract after (1) completion and final acceptance of all work; and (2) presentation of release of all claims against the PHA arising by virtue of this contract, other than claims, in stated amounts, that the Contractor has specifically excepted from the operation of the release. Each such exception shall embrace no more than one claim, the basis and scope of which shall be clearly defined. The amounts for such excepted claims shall not be included in the request for final payment. A release may also be required of the assignee if the Contractor's claim to amounts payable under this contract has been assigned.
- (j) Prior to making any payment, the Contracting Officer may require the Contractor to furnish receipts or other evidence of payment from all persons performing work and supplying material to the Contractor, if the Contracting Officer determines such evidence is necessary to substantiate claimed costs.
- (k) The PHA shall not; (1) determine or adjust any claims for payment or disputes arising there under between the Contractor and its subcontractors or material suppliers; or, (2) withhold any moneys for the protection of the subcontractors or material suppliers. The failure or refusal of the PHA to withhold moneys from the Contractor shall in no wise impair the obligations of any surety or sureties under any bonds furnished under this contract.

## 28. Contract Modifications

- (a) Only the Contracting Officer has authority to modify any term or condition of this contract. Any contract modification shall be authorized in writing.
- (b) The Contracting Officer may modify the contract unilaterally (1) pursuant to a specific authorization stated in a contract clause (e.g., Changes); or (2) for administrative matters which do not change the rights or

responsibilities of the parties (e.g., change in the PHA address). All other contract modifications shall be in the form of supplemental agreements signed by the Contractor and the Contracting Officer.

- (c) When a proposed modification requires the approval of HUD prior to its issuance (e.g., a change order that exceeds the PHA's approved threshold), such modification shall not be effective until the required approval is received by the PHA.

## 29. Changes

- (a) The Contracting Officer may, at any time, without notice to the sureties, by written order designated or indicated to be a change order, make changes in the work within the general scope of the contract including changes:
  - (1) In the specifications (including drawings and designs);
  - (2) In the method or manner of performance of the work;
  - (3) PHA-furnished facilities, equipment, materials, services, or site; or,
  - (4) Directing the acceleration in the performance of the work.
- (b) Any other written order or oral order (which, as used in this paragraph (b), includes direction, instruction, interpretation, or determination) from the Contracting Officer that causes a change shall be treated as a change order under this clause; provided, that the Contractor gives the Contracting Officer written notice stating (1) the date, circumstances and source of the order and (2) that the Contractor regards the order as a change order.
- (c) Except as provided in this clause, no order, statement or conduct of the Contracting Officer shall be treated as a change under this clause or entitle the Contractor to an equitable adjustment.
- (d) If any change under this clause causes an increase or decrease in the Contractor's cost of, or the time required for the performance of any part of the work under this contract, whether or not changed by any such order, the Contracting Officer shall make an equitable adjustment and modify the contract in writing. However, except for an adjustment based on defective specifications, no proposal for any change under paragraph (b) above shall be allowed for any costs incurred more than 20 days (5 days for oral orders) before the Contractor gives written notice as required. In the case of defective specifications for which the PHA is responsible, the equitable adjustment shall include any increased cost reasonably incurred by the Contractor in attempting to comply with the defective specifications.
- (e) The Contractor must assert its right to an adjustment under this clause within 30 days after (1) receipt of a written change order under paragraph (a) of this clause, or (2) the furnishing of a written notice under paragraph (b) of this clause, by submitting a written statement describing the general nature and the amount of the proposal. If the facts justify it, the Contracting Officer may extend the period for submission. The proposal may be included in the notice required under paragraph (b) above. No proposal by the Contractor for an equitable adjustment shall be allowed if asserted after final payment under this contract.
- (f) The Contractor's written proposal for equitable adjustment shall be submitted in the form of a lump sum proposal supported with an itemized breakdown of all increases and decreases in the contract in at least the following details:

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- (1) Direct Costs. Materials (list individual items, the quantity and unit cost of each, and the aggregate cost); Transportation and delivery costs associated with materials; Labor breakdowns by hours or unit costs (identified with specific work to be performed); Construction equipment exclusively necessary for the change; Costs of preparation and/ or revision to shop drawings resulting from the change; Worker's Compensation and Public Liability Insurance; Employment taxes under FICA and FUTA; and, Bond Costs when size of change warrants revision.
- (2) Indirect Costs. Indirect costs may include overhead, general and administrative expenses, and fringe benefits not normally treated as direct costs.
- (3) Profit. The amount of profit shall be negotiated and may vary according to the nature, extent, and complexity of the work required by the change. The allowability of the direct and indirect costs shall be determined in accordance with the Contract Cost Principles and Procedures for Commercial Firms in Part 31 of the Federal Acquisition Regulation (48 CFR 1-31), as implemented by HUD Handbook 2210.18, in effect on the date of this contract. The Contractor shall not be allowed a profit on the profit received by any subcontractor. Equitable adjustments for deleted work shall include a credit for profit and may include a credit for indirect costs. On proposals covering both increases and decreases in the amount of the contract, the application of indirect costs and profit shall be on the net-change in direct costs for the Contractor or subcontractor performing the work.
- (g) The Contractor shall include in the proposal its request for time extension (if any), and shall include sufficient information and dates to demonstrate whether and to what extent the change will delay the completion of the contract in its entirety.
- (h) The Contracting Officer shall act on proposals within 30 days after their receipt, or notify the Contractor of the date when such action will be taken.
- (i) Failure to reach an agreement on any proposal shall be a dispute under the clause entitled Disputes herein. Nothing in this clause, however, shall excuse the Contractor from proceeding with the contract as changed.
- (j) Except in an emergency endangering life or property, no change shall be made by the Contractor without a prior order from the Contracting Officer.

### 30. Suspension of Work

- (a) The Contracting Officer may order the Contractor in writing to suspend, delay, or interrupt all or any part of the work of this contract for the period of time that the Contracting Officer determines appropriate for the convenience of the PHA.
- (b) If the performance of all or any part of the work is, for an unreasonable period of time, suspended, delayed, or interrupted (1) by an act of the Contracting Officer in the administration of this contract, or (2) by the Contracting Officer's failure to act within the time specified (or within a reasonable time if not specified) in this contract an adjustment shall be made for any increase in the cost of performance of the contract (excluding profit) necessarily caused by such unreasonable suspension, delay, or interruption and the contract modified in writing accordingly. However, no adjustment shall be made under this clause for any suspension, delay, or interruption to the extent that performance would have

been so suspended, delayed, or interrupted by any other cause, including the fault or negligence of the Contractor or for which any equitable adjustment is provided for or excluded under any other provision of this contract.

- (c) A claim under this clause shall not be allowed (1) for any costs incurred more than 20 days before the Contractor shall have notified the Contracting Officer in writing of the act or failure to act involved (but this requirement shall not apply as to a claim resulting from a suspension order); and, (2) unless the claim, in an amount stated, is asserted in writing as soon as practicable after the termination of the suspension, delay, or interruption, but not later than the date of final payment under the contract.

### 31. Disputes

- (a) "Claim," as used in this clause, means a written demand or written assertion by one of the contracting parties seeking, as a matter of right, the payment of money in a sum certain, the adjustment or interpretation of contract terms, or other relief arising under or relating to the contract. A claim arising under the contract, unlike a claim relating to the contract, is a claim that can be resolved under a contract clause that provides for the relief sought by the claimant. A voucher, invoice, or other routine request for payment that is not in dispute when submitted is not a claim. The submission may be converted to a claim by complying with the requirements of this clause, if it is disputed either as to liability or amount or is not acted upon in a reasonable time.
- (b) Except for disputes arising under the clauses entitled Labor Standards - Davis Bacon and Related Acts, herein, all disputes arising under or relating to this contract, including any claims for damages for the alleged breach thereof which are not disposed of by agreement, shall be resolved under this clause.
- (c) All claims by the Contractor shall be made in writing and submitted to the Contracting Officer for a written decision. A claim by the PHA against the Contractor shall be subject to a written decision by the Contracting Officer.
- (d) The Contracting Officer shall, within 60 (unless otherwise indicated) days after receipt of the request, decide the claim or notify the Contractor of the date by which the decision will be made.
- (e) The Contracting Officer's decision shall be final unless the Contractor (1) appeals in writing to a higher level in the PHA in accordance with the PHA's policy and procedures, (2) refers the appeal to an independent mediator or arbitrator, or (3) files suit in a court of competent jurisdiction. Such appeal must be made within (30 unless otherwise indicated) days after receipt of the Contracting Officer's decision.
- (f) The Contractor shall proceed diligently with performance of this contract, pending final resolution of any request for relief, claim, appeal, or action arising under or relating to the contract, and comply with any decision of the Contracting Officer.

### 32. Default

- (a) If the Contractor refuses or fails to prosecute the work, or any separable part thereof, with the diligence that will ensure its completion within the time specified in this contract, or any extension thereof, or fails to complete said work within this time, the Contracting Officer may, by written notice to the Contractor, terminate the right to

proceed with the work (or separable part of the work) that has been delayed. In this event, the PHA may take over the work and complete it, by contract or otherwise, and may take possession of and use any materials, equipment, and plant on the work site necessary for completing the work. The Contractor and its sureties shall be liable for any damage to the PHA resulting from the Contractor's refusal or failure to complete the work within the specified time, whether or not the Contractor's right to proceed with the work is terminated. This liability includes any increased costs incurred by the PHA in completing the work.

- (b) The Contractor's right to proceed shall not be terminated or the Contractor charged with damages under this clause if—
- (1) The delay in completing the work arises from unforeseeable causes beyond the control and without the fault or negligence of the Contractor. Examples of such causes include (i) acts of God, or of the public enemy, (ii) acts of the PHA or other governmental entity in either its sovereign or contractual capacity, (iii) acts of another contractor in the performance of a contract with the PHA, (iv) fires, (v) floods, (vi) epidemics, (vii) quarantine restrictions, (viii) strikes, (ix) freight embargoes, (x) unusually severe weather, or (xi) delays of subcontractors or suppliers at any tier arising from unforeseeable causes beyond the control and without the fault or negligence of both the Contractor and the subcontractors or suppliers; and
  - (2) The Contractor, within days (10 days unless otherwise indicated) from the beginning of such delay (unless extended by the Contracting Officer) notifies the Contracting Officer in writing of the causes of delay. The Contracting Officer shall ascertain the facts and the extent of the delay. If, in the judgment of the Contracting Officer, the findings of fact warrant such action, time for completing the work shall be extended by written modification to the contract. The findings of the Contracting Officer shall be reduced to a written decision which shall be subject to the provisions of the Disputes clause of this contract.
- (c) If, after termination of the Contractor's right to proceed, it is determined that the Contractor was not in default, or that the delay was excusable, the rights and obligations of the parties will be the same as if the termination had been for convenience of the PHA.

### 33. Liquidated Damages

- (a) If the Contractor fails to complete the work within the time specified in the contract, or any extension, as specified in the clause entitled Default of this contract, the Contractor shall pay to the PHA as liquidated damages, the sum of \$\_\_\_\_\_ [Contracting Officer insert amount] for each day of delay. If different completion dates are specified in the contract for separate parts or stages of the work, the amount of liquidated damages shall be assessed on those parts or stages which are delayed. To the extent that the Contractor's delay or nonperformance is excused under another clause in this contract, liquidated damages shall not be due the PHA. The Contractor remains liable for damages caused other than by delay.
- (b) If the PHA terminates the Contractor's right to proceed, the resulting damage will consist of liquidated damages until such reasonable time as may be required for final

completion of the work together with any increased costs occasioned the PHA in completing the work.

- (c) If the PHA does not terminate the Contractor's right to proceed, the resulting damage will consist of liquidated damages until the work is completed or accepted.

### 34. Termination for Convenience

- (a) The Contracting Officer may terminate this contract in whole, or in part, whenever the Contracting Officer determines that such termination is in the best interest of the PHA. Any such termination shall be affected by delivery to the Contractor of a Notice of Termination specifying the extent to which the performance of the work under the contract is terminated, and the date upon which such termination becomes effective.
- (b) If the performance of the work is terminated, either in whole or in part, the PHA shall be liable to the Contractor for reasonable and proper costs resulting from such termination upon the receipt by the PHA of a properly presented claim setting out in detail: (1) the total cost of the work performed to date of termination less the total amount of contract payments made to the Contractor; (2) the cost (including reasonable profit) of settling and paying claims under subcontracts and material orders for work performed and materials and supplies delivered to the site, payment for which has not been made by the PHA to the Contractor or by the Contractor to the subcontractor or supplier; (3) the cost of preserving and protecting the work already performed until the PHA or assignee takes possession thereof or assumes responsibility therefore; (4) the actual or estimated cost of legal and accounting services reasonably necessary to prepare and present the termination claim to the PHA; and (5) an amount constituting a reasonable profit on the value of the work performed by the Contractor.
- (c) The Contracting Officer will act on the Contractor's claim within days (60 days unless otherwise indicated) of receipt of the Contractor's claim.
- (d) Any disputes with regard to this clause are expressly made subject to the provisions of the Disputes clause of this contract.

### 35. Assignment of Contract

The Contractor shall not assign or transfer any interest in this contract; except that claims for monies due or to become due from the PHA under the contract may be assigned to a bank, trust company, or other financial institution. Such assignments of claims shall only be made with the written concurrence of the Contracting Officer. If the Contractor is a partnership, this contract shall inure to the benefit of the surviving or remaining member(s) of such partnership as approved by the Contracting Officer.

### 36. Insurance

- (a) Before commencing work, the Contractor and each subcontractor shall furnish the PHA with certificates of insurance showing the following insurance is in force and will insure all operations under the Contract:
- (1) Workers' Compensation, in accordance with state or Territorial Workers' Compensation laws.
  - (2) Commercial General Liability with a combined single limit for bodily injury and property damage of not less than \$\_\_\_\_\_ [Contracting Officer insert amount]

per occurrence to protect the Contractor and each subcontractor against claims for bodily injury or death and damage to the property of others. This shall cover the use of all equipment, hoists, and vehicles on the site(s) not covered by Automobile Liability under (3) below. If the Contractor has a "claims made" policy, then the following additional requirements apply: the policy must provide a "retroactive date" which must be on or before the execution date of the Contract; and the extended reporting period may not be less than five years following the completion date of the Contract.

- (3) Automobile Liability on owned and non-owned motor vehicles used on the site(s) or in connection therewith for a combined single limit for bodily injury and property damage of not less than \$\_\_\_\_\_ [Contracting Officer insert amount] per occurrence.
- (b) Before commencing work, the Contractor shall furnish the PHA with a certificate of insurance evidencing that Builder's Risk (fire and extended coverage) Insurance on all work in place and/or materials stored at the building site(s), including foundations and building equipment, is in force. The Builder's Risk Insurance shall be for the benefit of the Contractor and the PHA as their interests may appear and each shall be named in the policy or policies as an insured. The Contractor in installing equipment supplied by the PHA shall carry insurance on such equipment from the time the Contractor takes possession thereof until the Contract work is accepted by the PHA. The Builder's Risk Insurance need not be carried on excavations, piers, footings, or foundations until such time as work on the superstructure is started. It need not be carried on landscape work. Policies shall furnish coverage at all times for the full cash value of all completed construction, as well as materials in place and/or stored at the site(s), whether or not partial payment has been made by the PHA. The Contractor may terminate this insurance on buildings as of the date taken over for occupancy by the PHA. The Contractor is not required to carry Builder's Risk Insurance for modernization work which does not involve structural alterations or additions and where the PHA's existing fire and extended coverage policy can be endorsed to include such work.
- (c) All insurance shall be carried with companies which are financially responsible and admitted doing business in the State in which the project is located. If any such insurance is due to expire during the construction period, the Contractor (including subcontractors, as applicable) shall not permit the coverage to lapse and shall furnish evidence of coverage to the Contracting Officer. All certificates of insurance, as evidence of coverage, shall provide that no coverage may be canceled or non-renewed by the insurance company until at least 30 days prior written notice has been given to the Contracting Officer.

### 37. Subcontracts

- (a) Definitions. As used in this contract -
- (1) "Subcontract" means any contract, purchase order, or other purchase agreement, including modifications and change orders to the foregoing, entered into by a subcontractor to furnish supplies, materials, equipment, and services for the performance of the prime contract or a subcontract.

(2) "Subcontractor" means any supplier, vendor, or firm that furnishes supplies, materials, equipment, or services to or for the Contractor or another subcontractor.

- (b) The Contractor shall not enter into any subcontract with any subcontractor who has been temporarily denied participation in a HUD program or who has been suspended or debarred from participating in contracting programs by any agency of the United States Government or of the state in which the work under this contract is to be performed.
- (c) The Contractor shall be as fully responsible for the acts or omissions of its subcontractors, and of persons either directly or indirectly employed by them as for the acts or omissions of persons directly employed by the Contractor.
- (d) The Contractor shall insert appropriate clauses in all subcontracts to bind subcontractors to the terms and conditions of this contract insofar as they are applicable to the work of subcontractors.
- (e) Nothing contained in this contract shall create any contractual relationship between any subcontractor and the PHA or between the subcontractor and HUD.

### 38. Subcontracting with Small and Minority Firms, Women's Business Enterprise, and Labor Surplus Area Firms

The Contractor shall take the following steps to ensure that, whenever possible, subcontracts are awarded to small business firms, minority firms, women's business enterprises, and labor surplus area firms:

- (a) Placing qualified small and minority businesses and women's business enterprises on solicitation lists;
- (b) Ensuring that small and minority businesses and women's business enterprises are solicited whenever they are potential sources;
- (c) Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses and women's business enterprises;
- (d) Establishing delivery schedules, where the requirements of the contract permit, which encourage participation by small and minority businesses and women's business enterprises; and
- (e) Using the services and assistance of the U.S. Small Business Administration, the Minority Business Development Agency of the U.S. Department of Commerce, and State and local governmental small business agencies.

### 39. Equal Employment Opportunity

During the performance of this contract, the Contractor agrees as follows:

- (a) The Contractor shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin, or handicap.
- (b) The Contractor shall take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, national origin, or handicap. Such action shall include, but not be limited to, (1) employment, (2) upgrading, (3) demotion, (4) transfer, (5) recruitment or recruitment advertising, (6) layoff or termination, (7) rates of pay or other forms of compensation, and (8) selection for training, including apprenticeship.

- (c) The Contractor shall post in conspicuous places available to employees and applicants for employment the notices to be provided by the Contracting Officer that explain this clause.
- (d) The Contractor shall, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, or handicap.
- (e) The Contractor shall send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding, the notice to be provided by the Contracting Officer advising the labor union or workers' representative of the Contractor's commitments under this clause, and post copies of the notice in conspicuous places available to employees and applicants for employment.
- (f) The Contractor shall comply with Executive Order 11246, as amended, and the rules, regulations, and orders of the Secretary of Labor.
- (g) The Contractor shall furnish all information and reports required by Executive Order 11246, as amended, Section 503 of the Rehabilitation Act of 1973, as amended, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto. The Contractor shall permit access to its books, records, and accounts by the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
- (h) In the event of a determination that the Contractor is not in compliance with this clause or any rule, regulation, or order of the Secretary of Labor, this contract may be canceled, terminated, or suspended in whole or in part, and the Contractor may be declared ineligible for further Government contracts, or Federally assisted construction contracts under the procedures authorized in Executive Order 11246, as amended. In addition, sanctions may be imposed and remedies invoked against the Contractor as provided in Executive Order 11246, as amended, the rules, regulations, and orders of the Secretary of Labor, or as otherwise provided by law.
- (i) The Contractor shall include the terms and conditions of this clause in every subcontract or purchase order unless exempted by the rules, regulations, or orders of the Secretary of Labor issued under Executive Order 11246, as amended, so that these terms and conditions will be binding upon each subcontractor or vendor. The Contractor shall take such action with respect to any subcontract or purchase order as the Secretary of Housing and Urban Development or the Secretary of Labor may direct as a means of enforcing such provisions, including sanctions for noncompliance; provided that if the Contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction, the Contractor may request the United States to enter into the litigation to protect the interests of the United States.
- (j) Compliance with the requirements of this clause shall be to the maximum extent consistent with, but not in derogation of, compliance with section 7(b) of the Indian Self-Determination and Education Assistance Act and the Indian Preference clause of this contract.
- 40. Employment, Training, and Contracting Opportunities for Low-Income Persons, Section 3 of the Housing and Urban Development Act of 1968.**
- (a) The work to be performed under this contract is subject to the requirements of section 3 of the Housing and Urban Development Act of 1968, as amended, 12 U.S.C. 1701u (section 3). The purpose of section 3 is to ensure that employment and other economic opportunities generated by HUD assistance or HUD-assisted projects covered by section 3, shall, to the greatest extent feasible, be directed to low- and very low-income persons, particularly persons who are recipients of HUD assistance for housing.
- (b) The parties to this contract agree to comply with HUD's regulations in 24 CFR Part 135, which implement section 3. As evidenced by their execution of this contract, the parties to this contract certify that they are under no contractual or other impediment that would prevent them from complying with the Part 135 regulations.
- (c) The contractor agrees to send to each labor organization or representative of workers with which the contractor has a collective bargaining agreement or other understanding, if any, a notice advising the labor organization or workers' representative of the contractor's commitments under this section 3 clause and will post copies of the notice in conspicuous places at the work site where both employees and applicants for training and employment positions can see the notice. The notice shall describe the section 3 preference, shall set forth minimum number and job titles subject to hire, availability of apprenticeship and training positions, the qualifications for each; and the name and location of the person(s) taking applications for each of the positions; and the anticipated date the work shall begin.
- (d) The contractor agrees to include this section 3 clause in every subcontract subject to compliance with regulations in 24 CFR Part 135, and agrees to take appropriate action, as provided in an applicable provision of the subcontract or in this section 3 clause, upon a finding that the subcontractor is in violation of the regulations in 24 CFR Part 135. The contractor will not subcontract with any subcontractor where the contractor has notice or knowledge that the subcontractor has been found in violation of the regulations in 24 CFR Part 135.
- (e) The contractor will certify that any vacant employment positions, including training positions, that are filled (1) after the contractor is selected but before the contract is executed, and (2) with persons other than those to whom the regulations of 24 CFR Part 135 require employment opportunities to be directed, were not filled to circumvent the contractor's obligations under 24 CFR Part 135.
- (f) Noncompliance with HUD's regulations in 24 CFR Part 135 may result in sanctions, termination of this contract for default, and debarment or suspension from future HUD assisted contracts.
- (g) With respect to work performed in connection with section 3 covered Indian housing assistance, section 7(b) of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 450e) also applies to the work to be performed under this contract. Section 7(b) requires that to the greatest extent feasible (i) preference and opportunities for training and employment shall be given to Indians, and (ii) preference in the award of contracts and subcontracts shall be given to Indian organizations and Indian-owned Economic Enterprises. Parties to this contract that are subject to the provisions of section 3 and section 7(b) agree to comply with section 3 to the maximum extent feasible, but not in derogation of compliance with section 7(b).

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#### 41. Interest of Members of Congress

No member or delegate to the Congress of the United States of America shall be admitted to any share or part of this contract or to any benefit that may arise therefrom.

#### 42. Interest of Members, Officers, or Employees and Former Members, Officers, or Employees

No member, officer, or employee of the PHA, no member of the governing body of the locality in which the project is situated, no member of the governing body of the locality in which the PHA was activated, and no other public official of such locality or localities who exercises any functions or responsibilities with respect to the project, shall, during his or her tenure, or for one year thereafter, have any interest, direct or indirect, in this contract or the proceeds thereof.

#### 43. Limitations on Payments made to Influence Certain Federal Financial Transactions

- (a) The Contractor agrees to comply with Section 1352 of Title 31, United States Code which prohibits the use of Federal appropriated funds to pay any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, and officer or employee of Congress, or an employee of a Member of Congress in connection with any of the following covered Federal actions: the awarding of any Federal contract; the making of any Federal grant; the making of any Federal loan; the entering into of any cooperative agreement; or the modification of any Federal contract, grant, loan, or cooperative agreement.
- (b) The Contractor further agrees to comply with the requirement of the Act to furnish a disclosure (OMB Standard Form LLL, Disclosure of Lobbying Activities) if any funds other than Federal appropriated funds (including profit or fee received under a covered Federal transaction) have been paid, or will be paid, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with a Federal contract, grant, loan, or cooperative agreement.

#### 44. Royalties and Patents

The Contractor shall pay all royalties and license fees. It shall defend all suits or claims for infringement of any patent rights and shall save the PHA harmless from loss on account thereof; except that the PHA shall be responsible for all such loss when a particular design, process or the product of a particular manufacturer or manufacturers is specified and the Contractor has no reason to believe that the specified design, process, or product is an infringement. If, however, the Contractor has reason to believe that any design, process or product specified is an infringement of a patent, the Contractor shall promptly notify the Contracting Officer. Failure to give such notice shall make the Contractor responsible for resultant loss.

#### 45. Examination and Retention of Contractor's Records

- (a) The PHA, HUD, or Comptroller General of the United States, or any of their duly authorized representatives shall, until 3 years after final payment under this contract, have access to and the right to examine any of the Contractor's directly pertinent books, documents, papers, or other records involving transactions related to this contract for the purpose of making audit, examination, excerpts, and transcriptions.
- (b) The Contractor agrees to include in first-tier subcontracts under this contract a clause substantially the same as paragraph (a) above. "Subcontract," as used in this clause, excludes purchase orders not exceeding \$10,000.
- (c) The periods of access and examination in paragraphs (a) and (b) above for records relating to (1) appeals under the Disputes clause of this contract, (2) litigation or settlement of claims arising from the performance of this contract, or (3) costs and expenses of this contract to which the PHA, HUD, or Comptroller General or any of their duly authorized representatives has taken exception shall continue until disposition of such appeals, litigation, claims, or exceptions.

#### 46. Labor Standards - Davis-Bacon and Related Acts

If the total amount of this contract exceeds \$2,000, the Federal labor standards set forth in the clause below shall apply to the development or construction work to be performed under the contract.

- (a) Minimum Wages.
  - (1) All laborers and mechanics employed under this contract in the development or construction of the project(s) involved will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR Part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the Contractor and such laborers and mechanics. Contributions made or costs reasonably anticipated for bona fide fringe benefits under Section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of 29 CFR 5.5(a)(1)(iv); also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the regular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits in the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein; provided, that the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under 29 CFR 5.5(a)(1)(ii) and the Davis-Bacon poster (WH-1321) shall

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be posted at all times by the Contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

- (2) (i) Any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. HUD shall approve an additional classification and wage rate and fringe benefits therefor only when all the following criteria have been met: (A) The work to be performed by the classification requested is not performed by a classification in the wage determination; and (B) The classification is utilized in the area by the construction industry; and (C) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.
- (ii) If the Contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and HUD or its designee agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by HUD or its designee to the Administrator of the Wage and Hour Division, Employee Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise HUD or its designee or will notify HUD or its designee within the 30-day period that additional time is necessary.
- (iii) In the event the Contractor, the laborers or mechanics to be employed in the classification or their representatives, and HUD or its designee do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), HUD or its designee shall refer the questions, including the views of all interested parties and the recommendation of HUD or its designee, to the Administrator of the Wage and Hour Division for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise HUD or its designee or will notify HUD or its designee within the 30-day period that additional time is necessary.
- (iv) The wage rate (including fringe benefits where appropriate) determined pursuant to subparagraphs (a)(2)(ii) or (iii) of this clause shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in classification.
- (3) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the Contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.
- (4) If the Contractor does not make payments to a trustee or other third person, the Contractor may consider as part of the wages of any laborer or mechanic the

amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program; provided, that the Secretary of Labor has found, upon the written request of the Contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the Contractor to set aside in a separate account asset for the meeting of obligations under the plan or program.

- (b) Withholding of funds. HUD or its designee shall, upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the Contractor under this contract or any other Federal contract with the same prime Contractor, or any other Federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime Contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the Contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working in the construction or development of the project, all or part of the wages required by the contract, HUD or its designee may, after written notice to the Contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased. HUD or its designee may, after written notice to the Contractor, disburse such amounts withheld for and on account of the Contractor or subcontractor to the respective employees to whom they are due.
- (c) Payrolls and basic records.
- (1) Payrolls and basic records relating thereto shall be maintained by the Contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working in the construction or development of the project. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made, and actual wages paid. Whenever the Secretary of Labor has found, under 29 CFR 5.5(a)(1)(iv), that the wages of any laborer or mechanic include the amount of costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the Contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

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- (2) (i) The Contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the Contracting Officer for transmission to HUD or its designee. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under subparagraph (c)(1) of this clause. This information may be submitted in any form desired. Optional Form WH-347 (Federal Stock Number 029-005-00014-1) is available for this purpose and may be purchased from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. The Contractor is responsible for the submission of copies of payrolls by all subcontractors. (Approved by the Office of Management and Budget under OMB Control Number 1214-0149.)
- (ii) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the Contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:
- (A) That the payroll for the payroll period contains the information required to be maintained under paragraph (c) (1) of this clause and that such information is correct and complete;
- (B) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in 29 CFR Part 3; and
- (C) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.
- (iii) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirements for submission of the "Statement of Compliance" required by subparagraph (c)(2)(ii) of this clause.
- (iv) The falsification of any of the above certifications may subject the Contractor or subcontractor to civil or criminal prosecution under Section 1001 of Title 18 and Section 3729 of Title 31 of the United States Code.
- (3) The Contractor or subcontractor shall make the records required under subparagraph (c)(1) available for inspection, copying, or transcription by authorized representatives of HUD or its designee, the Contracting Officer, or the Department of Labor and shall permit such representatives to interview employees during working hours on the job. If the Contractor or subcontractor fails to submit the required records or to make them available, HUD or its designee may, after written notice to the Contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to

make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

- (d) (1) Apprentices. Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship and Training, Employer and Labor Services (OATELS), or with a State Apprenticeship Agency recognized by OATELS, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by OATELS or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the Contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated in this paragraph, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the Contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator of the Wage and Hour Division determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event OATELS, or a State Apprenticeship Agency recognized by OATELS, withdraws approval of an apprenticeship program, the Contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.
- (2) Trainees. Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under

the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed in the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate in the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate in the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate in the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the Contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

- (3) Equal employment opportunity. The utilization of apprentices, trainees, and journeymen under this clause shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR Part 30.
- (e) Compliance with Copeland Act requirements. The Contractor shall comply with the requirements of 29 CFR Part 3, which are hereby incorporated by reference in this contract.
- (f) Contract termination; debarment. A breach of this contract clause may be grounds for termination of the contract and for debarment as a Contractor and a subcontractor as provided in 29 CFR 5.12.
- (g) Compliance with Davis-Bacon and related Act requirements. All rulings and interpretations of the Davis-Bacon and related Acts contained in 29 CFR Parts 1, 3, and 5 are herein incorporated by reference in this contract.
- (h) Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this clause shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR Parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the Contractor (or any of its subcontractors) and the PHA, HUD, the U.S. Department of Labor, or the employees or their representatives.
- (i) Certification of eligibility.
  - (1) By entering into this contract, the Contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the Contractor's firm is a person or firm ineligible to be awarded contracts by the United States Government by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

- (2) No part of this contract shall be subcontracted to any person or firm ineligible for award of a United States Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).
  - (3) The penalty for making false statements is prescribed in the U. S. Criminal Code, 18 U.S.C. 1001.
- (j) Contract Work Hours and Safety Standards Act. As used in this paragraph, the terms "laborers" and "mechanics" include watchmen and guards.
- (1) Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics, including watchmen and guards, shall require or permit any such laborer or mechanic in any workweek in which the individual is employed on such work to work in excess of 40 hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of 40 hours in such workweek.
  - (2) Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the provisions set forth in subparagraph (j)(1) of this clause, the Contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such Contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic (including watchmen and guards) employed in violation of the provisions set forth in subparagraph (j)(1) of this clause, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of 40 hours without payment of the overtime wages required by provisions set forth in subparagraph (j)(1) of this clause.
  - (3) Withholding for unpaid wages and liquidated damages. HUD or its designee shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the Contractor or subcontractor under any such contract or any Federal contract with the same prime Contractor, or any other Federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime Contractor, such sums as may be determined to be necessary to satisfy any liabilities of such Contractor or subcontractor for unpaid wages and liquidated damages as provided in the provisions set forth in subparagraph (j)(2) of this clause.
- (k) Subcontracts. The Contractor or subcontractor shall insert in any subcontracts all the provisions contained in this clause, and such other clauses as HUD or its designee may by appropriate instructions require, and also a clause requiring the subcontractors to include these provisions in any lower tier subcontracts. The prime Contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all these provisions.

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**47. Non-Federal Prevailing Wage Rates**

- (a) Any prevailing wage rate (including basic hourly rate and any fringe benefits), determined under State or tribal law to be prevailing, with respect to any employee in any trade or position employed under the contract, is inapplicable to the contract and shall not be enforced against the Contractor or any subcontractor, with respect to employees engaged under the contract whenever such non-Federal prevailing wage rate exceeds:
  - (1) The applicable wage rate determined by the Secretary of Labor pursuant to the Davis-Bacon Act (40 U.S.C. 3141 et seq.) to be prevailing in the locality with respect to such trade;
- (b) An applicable apprentice wage rate based thereon specified in an apprenticeship program registered with the U.S. Department of Labor (DOL) or a DOL-recognized State Apprenticeship Agency; or
- (c) An applicable trainee wage rate based thereon specified in a DOL-certified trainee program.

**48. Procurement of Recovered Materials.**

- (a) In accordance with Section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act, the Contractor shall procure items designated in guidelines of the Environmental Protection Agency (EPA) at 40 CFR Part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition. The Contractor shall procure items designated in the EPA guidelines that contain the highest percentage of recovered materials practicable unless the Contractor determines that such items: (1) are not reasonably available in a reasonable period of time; (2) fail to meet reasonable performance standards, which shall be determined on the basis of the guidelines of the National Institute of Standards and Technology, if applicable to the item; or (3) are only available at an unreasonable price.
- (b) Paragraph (a) of this clause shall apply to items purchased under this contract where: (1) the Contractor purchases in excess of \$10,000 of the item under this contract; or (2) during the preceding Federal fiscal year, the Contractor: (i) purchased any amount of the items for use under a contract that was funded with Federal appropriations and was with a Federal agency or a State agency or agency of a political subdivision of a State; and (ii) purchased a total of in excess of \$10,000 of the item both under and outside that contract.

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# General Conditions of the **Contract for Construction**

## Public Housing Programs

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This form includes those clauses required by OMB's common rule on grantee procurement, implemented at HUD in 24 CFR 85.36 and those requirements set forth in Section 3 of the Housing and Urban development Act of 1968, as amended, and implemented by HUD at 24 CFR 135 and by its amendment by the Housing and Community Development Act 1992, implemented by HUD in the Interim Rule published June 30, 1994. The form is required for construction contracts awarded by Public Housing Agencies (PHAs) .

The form is used by Housing Authorities in solicitations to provide necessary contract clauses. If the form were not used, HAs would be unable to enforce their contracts.

Public reporting burden for this collection of information is estimated to average 1.0 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

Responses to the collection of information; are required to obtain a benefit or to retain a benefit.

The information requested does not lend itself to confidentiality.

HUD may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB number

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## General Conditions of the Contract for Construction

### Public and Indian Housing Programs

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#### Conduct of Work

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##### 1. Definitions

- (a) **“Architect”** means the person or other entity engaged by the PHA to perform architectural, engineering, design, and other services related to the work as provided for in the contract. When a PHA uses an engineer to act in this capacity, the terms “architect” and “engineer” shall be synonymous. The Architect shall serve as a technical representative of the Contracting Officer. The Architect’s authority is as set forth elsewhere in this contract.
- (b) **“Contract”** means the contract entered into between the PHA and the Contractor. It includes the forms of Bid, the Bid Bond, the Performance and Payment Bond or Bonds or other assurance of completion, the Certifications, Representations, and Other Statements of Bidders (form HUD-5369-A), these General Conditions of the Contract for Construction (form HUD-5370), the applicable wage rate determinations from either the U.S. Department of Labor or HUD, any special conditions included elsewhere in the contract, the specifications, and

- drawings. It includes all formal changes to any of those documents by addendum, change order, or other modification.
- (c) **“Contracting Officer”** means the person delegated the authority by the PHA to enter into, administer, and/or terminate this contract and designated as such in writing to the Contractor. The term includes any successor Contracting Officer and any duly authorized representative of the Contracting Officer also designated in writing. The Contracting Officer shall be deemed the authorized agent of the PHA in all dealings with the Contractor.
- (d) **“Contractor”** means the person or other entity entering into the contract with the PHA to perform all of the work required under the contract.
- (e) **“Drawings”** means the drawings enumerated in the schedule of drawings contained in the Specifications and as described in the contract clause entitled **Specifications and Drawings for**

**Construction** herein.

- (f) **“HUD”** means the United States of America acting through the Department of Housing and Urban Development including the Secretary, or any other person designated to act on its behalf. HUD has agreed, subject to the provisions of an Annual Contributions Contract (ACC), to provide financial assistance to the PHA, which includes assistance in financing the work to be performed under this contract. As defined elsewhere in these General Conditions or the contract documents, the determination of HUD may be required to authorize changes in the work or for release of funds to the PHA for payment to the Contractor. Notwithstanding HUD’s role, nothing in this contract shall be construed to create any contractual relationship between the Contractor and HUD.
- (g) **“Project”** means the entire project, whether construction or rehabilitation, the work for which is provided for in whole or in part under this contract.
- (h) **“PHA”** means the Public Housing Agency organized under applicable state laws which is a party to this contract.
- (i) **“Specifications”** means the written description of the technical requirements for construction and includes the criteria and tests for determining whether the requirements are met.
- (l) **“Work”** means materials, workmanship, and manufacture and fabrication of components.

## 2. Contractor’s Responsibility for Work

- (a) The Contractor shall furnish all necessary labor, materials, tools, equipment, and transportation necessary for performance of the work. The Contractor shall also furnish all necessary water, heat, light, and power not made available to the Contractor by the PHA pursuant to the clause entitled **Availability and Use of Utility Services** herein.
- (b) The Contractor shall perform on the site, and with its own organization, work equivalent to at least [ ] (12 percent unless otherwise indicated) of the total amount of work to be performed under the order. This percentage may be reduced by a supplemental agreement to this order if, during performing the work, the Contractor requests a reduction and the Contracting Officer determines that the reduction would be to the advantage of the PHA.
- (c) At all times during performance of this contract and until the work is completed and accepted, the Contractor shall directly superintend the work or assign and have on the work site a competent superintendent who is satisfactory to the Contracting Officer and has authority to act for the Contractor.
- (d) The Contractor shall be responsible for all damages to persons or property that occur as a result of the Contractor’s fault or negligence, and shall take proper safety and health precautions to protect the work, the workers, the public, and the property of others. The Contractor shall hold and save the PHA, its officers and agents, free and harmless from liability of any nature occasioned by the Contractor’s performance. The Contractor shall also be responsible for all materials delivered and work performed until completion and acceptance of the entire work, except for any completed unit of work which may have been accepted under the contract.
- (e) The Contractor shall lay out the work from base lines and

bench marks indicated on the drawings and be responsible for all lines, levels, and measurements of all work executed under the contract. The Contractor shall verify the figures before laying out the work and will be held responsible for any error resulting from its failure to do so.

- (f) The Contractor shall confine all operations (including storage of materials) on PHA premises to areas authorized or approved by the Contracting Officer.
- (g) The Contractor shall at all times keep the work area, including storage areas, free from accumulations of waste materials. After completing the work and before final inspection, the Contractor shall (1) remove from the premises all scaffolding, equipment, tools, and materials (including rejected materials) that are not the property of the PHA and all rubbish caused by its work; (2) leave the work area in a clean, neat, and orderly condition satisfactory to the Contracting Officer; (3) perform all specified tests; and, (4) deliver the installation in complete and operating condition.
- (h) The Contractor’s responsibility will terminate when all work has been completed, the final inspection made, and the work accepted by the Contracting Officer. The Contractor will then be released from further obligation except as required by the warranties specified elsewhere in the contract.

## 3. Architect’s Duties, Responsibilities, and Authority

- (a) The Architect for this contract, and any successor, shall be designated in writing by the Contracting Officer.
- (b) The Architect shall serve as the Contracting Officer’s technical representative with respect to architectural, engineering, and design matters related to the work performed under the contract. The Architect may provide direction on contract performance. Such direction shall be within the scope of the contract and may not be of a nature which: (1) institutes additional work outside the scope of the contract; (2) constitutes a change as defined in the **Changes** clause herein; (3) causes an increase or decrease in the cost of the contract; (4) alters the Construction Progress Schedule; or (5) changes any of the other express terms or conditions of the contract.
- (c) The Architect’s duties and responsibilities may include but shall not be limited to:
  - (1) Making periodic visits to the work site, and on the basis of his/her on-site inspections, issuing written reports to the PHA which shall include all observed deficiencies. The Architect shall file a copy of the report with the Contractor’s designated representative at the site;
  - (2) Making modifications in drawings and technical specifications and assisting the Contracting Officer in the preparation of change orders and other contract modifications for issuance by the Contracting Officer;
  - (3) Reviewing and making recommendations with respect to -
    - (i) the Contractor’s construction progress schedules;
    - (ii) the Contractor’s shop and detailed drawings;
    - (iii) the machinery, mechanical and other equipment and materials or other articles proposed for use by the Contractor; and,
    - (iv) the Contractor’s price breakdown and progress payment estimates; and,
  - (4) Assisting in inspections, signing Certificates of Comple-

tion, and making recommendations with respect to acceptance of work completed under the contract.

#### 4. Other Contracts

The PHA may undertake or award other contracts for additional work at or near the site of the work under this contract. The Contractor shall fully cooperate with the other contractors and with PHA employees and shall carefully adapt scheduling and performing the work under this contract to accommodate the additional work, heeding any direction that may be provided by the Contracting Officer. The Contractor shall not commit or permit any act that will interfere with the performance of work by any other contractor or by PHA employees.

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#### Construction Requirements

##### 5. Preconstruction Conference and Notice to Proceed

- (a) Within ten calendar days of contract execution, and prior to the commencement of work, the Contractor shall attend a preconstruction conference with representatives of the PHA, its Architect, and other interested parties convened by the PHA. The conference will serve to acquaint the participants with the general plan of the construction operation and all other requirements of the contract. The PHA will provide the Contractor with the date, time, and place of the conference.
- (b) The contractor shall begin work upon receipt of a written Notice to Proceed from the Contracting Officer or designee. The Contractor shall not begin work prior to receiving such notice.

##### 6. Construction Progress Schedule

- (a) The Contractor shall, within five days after the work commences on the contract or another period of time determined by the Contracting Officer, prepare and submit to the Contracting Officer for approval three copies of a practicable schedule showing the order in which the Contractor proposes to perform the work, and the dates on which the Contractor contemplates starting and completing the several salient features of the work (including acquiring labor, materials, and equipment). The schedule shall be in the form of a progress chart of suitable scale to indicate appropriately the percentage of work scheduled for completion by any given date during the period. If the Contractor fails to submit a schedule within the time prescribed, the Contracting Officer may withhold approval of progress payments or take other remedies under the contract until the Contractor submits the required schedule.
- (b) The Contractor shall enter the actual progress on the chart as required by the Contracting Officer, and immediately deliver three copies of the annotated schedule to the Contracting Officer. If the Contracting Officer determines, upon the basis of inspection conducted pursuant to the clause entitled *Inspection and Acceptance of Construction*, herein that the Contractor is not meeting the approved schedule, the Contractor shall take steps necessary to improve its progress, including those that may be required by the Contracting Officer, without additional cost to the PHA. In this circumstance, the Contracting Officer may require the Contractor to increase the number

of shifts, overtime operations, days of work, and/or the amount of construction plant, and to submit for approval any supplementary schedule or schedules in chart form as the Contracting Officer deems necessary to demonstrate how the approved rate of progress will be regained.

- (c) Failure of the Contractor to comply with the requirements of the Contracting Officer under this clause shall be grounds for a determination by the Contracting Officer that the Contractor is not prosecuting the work with sufficient diligence to ensure completion within the time specified in the Contract. Upon making this determination, the Contracting Officer may terminate the Contractor's right to proceed with the work, or any separable part of it, in accordance with the **Default** clause of this contract.

##### 7. Site Investigation and Conditions Affecting the Work

- (a) The Contractor acknowledges that it has taken steps reasonably necessary to ascertain the nature and location of the work, and that it has investigated and satisfied itself as to the general and local conditions which can affect the work or its cost, including but not limited to, (1) conditions bearing upon transportation, disposal, handling, and storage of materials; (2) the availability of labor, water, electric power, and roads; (3) uncertainties of weather, river stages, tides, or similar physical conditions at the site; (4) the conformation and conditions of the ground; and (5) the character of equipment and facilities needed preliminary to and during work performance. The Contractor also acknowledges that it has satisfied itself as to the character, quality, and quantity of surface and subsurface materials or obstacles to be encountered insofar as this information is reasonably ascertainable from an inspection of the site, including all exploratory work done by the PHA, as well as from the drawings and specifications made a part of this contract. Any failure of the Contractor to take the actions described and acknowledged in this paragraph will not relieve the Contractor from responsibility for estimating properly the difficulty and cost of successfully performing the work, or for proceeding to successfully perform the work without additional expense to the PHA.
- (b) The PHA assumes no responsibility for any conclusions or interpretations made by the Contractor based on the information made available by the PHA. Nor does the PHA assume responsibility for any understanding reached or representation made concerning conditions which can affect the work by any of its officers or agents before the execution of this contract, unless that understanding or representation is expressly stated in this contract.

##### 8. Differing Site Conditions

- (a) The Contractor shall promptly, and before the conditions are disturbed, give a written notice to the Contracting Officer of (1) subsurface or latent physical conditions at the site which differ materially from those indicated in this contract, or (2) unknown physical conditions at the site(s), of an unusual nature, which differ materially from those ordinarily encountered and generally recognized as inhering in work of the

character provided for in the contract.

- (b) The Contracting Officer shall investigate the site conditions promptly after receiving the notice. Work shall not proceed at the affected site, except at the Contractor's risk, until the Contracting Officer has provided written instructions to the Contractor. If the conditions do materially so differ and cause an increase or decrease in the Contractor's cost of, or the time required for, performing any part of the work under this contract, whether or not changed as a result of the conditions, the Contractor shall file a claim in writing to the PHA within ten days after receipt of such instructions and, in any event, before proceeding with the work. An equitable adjustment in the contract price, the delivery schedule, or both shall be made under this clause and the contract modified in writing accordingly.
- (c) No request by the Contractor for an equitable adjustment to the contract under this clause shall be allowed, unless the Contractor has given the written notice required; provided, that the time prescribed in (a) above for giving written notice may be extended by the Contracting Officer.
- (d) No request by the Contractor for an equitable adjustment to the contract for differing site conditions shall be allowed if made after final payment under this contract.

#### **9. Specifications and Drawings for Construction**

- (a) The Contractor shall keep on the work site a copy of the drawings and specifications and shall at all times give the Contracting Officer access thereto. Anything mentioned in the specifications and not shown on the drawings, or shown on the drawings and not mentioned in the specifications, shall be of like effect as if shown or mentioned in both. In case of difference between drawings and specifications, the specifications shall govern. In case of discrepancy in the figures, in the drawings, or in the specifications, the matter shall be promptly submitted to the Contracting Officer, who shall promptly make a determination in writing. Any adjustment by the Contractor without such a determination shall be at its own risk and expense. The Contracting Officer shall furnish from time to time such detailed drawings and other information as considered necessary, unless otherwise provided.
- (b) Wherever in the specifications or upon the drawings the words "directed", "required", "ordered", "designated", "prescribed", or words of like import are used, it shall be understood that the "direction", "requirement", "order", "designation", or "prescription", of the Contracting Officer is intended and similarly the words "approved", "acceptable", "satisfactory", or words of like import shall mean "approved by", or "acceptable to", or "satisfactory to" the Contracting Officer, unless otherwise expressly stated.
- (c) Where "as shown", "as indicated", "as detailed", or words of similar import are used, it shall be understood that the reference is made to the drawings accompanying this contract unless stated otherwise. The word "provided" as used herein shall be understood to mean "provide complete in place", that is "furnished and installed".
- (d) "Shop drawings" means drawings, submitted to the PHA by the Contractor, subcontractor, or any lower tier subcontractor, showing in detail (1) the proposed fabrication and assembly of

structural elements and (2) the installation (i.e., form, fit, and attachment details) of materials of equipment. It includes drawings, diagrams, layouts, schematics, descriptive literature, illustrations, schedules, performance and test data, and similar materials furnished by the Contractor to explain in detail specific portions of the work required by the contract. The PHA may duplicate, use, and disclose in any manner and for any purpose shop drawings delivered under this contract.

- (e) If this contract requires shop drawings, the Contractor shall coordinate all such drawings, and review them for accuracy, completeness, and compliance with other contract requirements and shall indicate its approval thereon as evidence of such coordination and review. Shop drawings submitted to the Contracting Officer without evidence of the Contractor's approval may be returned for resubmission. The Contracting Officer will indicate an approval or disapproval of the shop drawings and if not approved as submitted shall indicate the PHA's reasons therefor. Any work done before such approval shall be at the Contractor's risk. Approval by the Contracting Officer shall not relieve the Contractor from responsibility for any errors or omissions in such drawings, nor from responsibility for complying with the requirements of this contract, except with respect to variations described and approved in accordance with (f) below.
- (f) If shop drawings show variations from the contract requirements, the Contractor shall describe such variations in writing, separate from the drawings, at the time of submission. If the Architect approves any such variation and the Contracting Officer concurs, the Contracting Officer shall issue an appropriate modification to the contract, except that, if the variation is minor or does not involve a change in price or in time of performance, a modification need not be issued.
- (g) It shall be the responsibility of the Contractor to make timely requests of the PHA for such large scale and full size drawings, color schemes, and other additional information, not already in his possession, which shall be required in the planning and production of the work. Such requests may be submitted as the need arises, but each such request shall be filed in ample time to permit appropriate action to be taken by all parties involved so as to avoid delay.
- (h) The Contractor shall submit to the Contracting Officer for approval four copies (unless otherwise indicated) of all shop drawings as called for under the various headings of these specifications. Three sets (unless otherwise indicated) of all shop drawings, will be retained by the PHA and one set will be returned to the Contractor. As required by the Contracting Officer, the Contractor, upon completing the work under this contract, shall furnish a complete set of all shop drawings as finally approved. These drawings shall show all changes and revisions made up to the time the work is completed and accepted.
- (i) This clause shall be included in all subcontracts at any tier. It shall be the responsibility of the Contractor to ensure that all shop drawings prepared by subcontractors are submitted to the Contracting Officer.

#### **10. As-Built Drawings**

- (a) "As-built drawings," as used in this clause, means drawings submitted by the Contractor or subcontractor at any tier to show the construction of a particular structure or work as actually completed under the contract. "As-built drawings" shall be synonymous with "Record drawings."
- (b) As required by the Contracting Officer, the Contractor shall provide the Contracting Officer accurate information to be used in the preparation of permanent as-built drawings. For this purpose, the Contractor shall record on one set of contract drawings all changes from the installations originally indicated, and record final locations of underground lines by depth from finish grade and by accurate horizontal offset distances to permanent surface improvements such as buildings, curbs, or edges of walks.
- (c) This clause shall be included in all subcontracts at any tier. It shall be the responsibility of the Contractor to ensure that all as-built drawings prepared by subcontractors are submitted to the Contracting Officer.

### 11. Material and Workmanship

- (a) All equipment, material, and articles furnished under this contract shall be new and of the most suitable grade for the purpose intended, unless otherwise specifically provided in this contract. References in the contract to equipment, material, articles, or patented processes by trade name, make, or catalog number, shall be regarded as establishing a standard of quality and shall not be construed as limiting competition. The Contractor may, at its option, use any equipment, material, article, or process that, in the judgment of, and as approved by the Contracting Officer, is equal to that named in the specifications, unless otherwise specifically provided in this contract.
- (b) Approval of equipment and materials.
  - (1) The Contractor shall obtain the Contracting Officer's approval of the machinery and mechanical and other equipment to be incorporated into the work. When requesting approval, the Contractor shall furnish to the Contracting Officer the name of the manufacturer, the model number, and other information concerning the performance, capacity, nature, and rating of the machinery and mechanical and other equipment. When required by this contract or by the Contracting Officer, the Contractor shall also obtain the Contracting Officer's approval of the material or articles which the Contractor contemplates incorporating into the work. When requesting approval, the Contractor shall provide full information concerning the material or articles. Machinery, equipment, material, and articles that do not have the required approval shall be installed or used at the risk of subsequent rejection.
  - (2) When required by the specifications or the Contracting Officer, the Contractor shall submit appropriately marked samples (and certificates related to them) for approval at the Contractor's expense, with all shipping charges prepaid. The Contractor shall label, or otherwise properly mark on the container, the material or product represented, its place of origin, the name of the producer, the Contractor's name, and the identification of the construction project for which the material or product is intended to

be used.

- (3) Certificates shall be submitted in triplicate, describing each sample submitted for approval and certifying that the material, equipment or accessory complies with contract requirements. The certificates shall include the name and brand of the product, name of manufacturer, and the location where produced.
- (4) Approval of a sample shall not constitute a waiver of the PHA right to demand full compliance with contract requirements. Materials, equipment and accessories may be rejected for cause even though samples have been approved.
- (5) Wherever materials are required to comply with recognized standards or specifications, such specifications shall be accepted as establishing the technical qualities and testing methods, but shall not govern the number of tests required to be made nor modify other contract requirements. The Contracting Officer may require laboratory test reports on items submitted for approval or may approve materials on the basis of data submitted in certificates with samples. Check tests will be made on materials delivered for use only as frequently as the Contracting Officer determines necessary to insure compliance of materials with the specifications. The Contractor will assume all costs of re-testing materials which fail to meet contract requirements and/or testing materials offered in substitution for those found deficient.
- (6) After approval, samples will be kept in the Project office until completion of work. They may be built into the work after a substantial quantity of the materials they represent has been built in and accepted.
- (c) Prohibition against use of lead-based paint. The Contractor shall comply with the prohibition against the use of lead-based paint contained in the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. 4821-4846) as implemented by 24 CFR Part 35.

### 12. Permits and Codes

- (a) The Contractor shall give all notices and comply with all applicable laws, ordinances, codes, rules and regulations. Notwithstanding the requirement of the Contractor to comply with the drawings and specifications in the contract, all work installed shall comply with all applicable codes and regulations as amended by any waivers. Before installing the work, the Contractor shall examine the drawings and the specifications for compliance with applicable codes and regulations bearing on the work and shall immediately report any discrepancy it may discover to the Contracting Officer. Where the requirements of the drawings and specifications fail to comply with the applicable code or regulation, the Contracting Officer shall modify the contract by change order pursuant to the clause entitled **Changes** herein to conform to the code or regulation.
- (b) The Contractor shall secure and pay for all permits, fees, and licenses necessary for the proper execution and completion of the work. Where the PHA can arrange for the issuance of all or part of these permits, fees and licenses, without cost to the Contractor, the contract amount shall be reduced accordingly.

### 13. Health, Safety, and Accident Prevention

- (a) In performing this contract, the Contractor shall:
- (1) Ensure that no laborer or mechanic shall be required to work in surroundings or under working conditions which are unsanitary, hazardous, or dangerous to his/her health and/or safety as determined under construction safety and health standards promulgated by the Secretary of Labor by regulation;
  - (2) Protect the lives, health, and safety of other persons;
  - (3) Prevent damage to property, materials, supplies, and equipment; and,
  - (4) Avoid work interruptions.
- (b) For these purposes, the Contractor shall:
- (1) Comply with regulations and standards issued by the Secretary of Labor at 29 CFR Part 1926. Failure to comply may result in imposition of sanctions pursuant to the Contract Work Hours and Safety Standards Act (Public Law 91-54, 83 Stat. 96), 40 U.S.C. 327 et seq.; and,
  - (2) Include the terms of this clause in every subcontract so that such terms will be binding on each subcontractor.
- (c) The Contractor shall maintain an accurate record of exposure data on all accidents incident to work performed under this contract resulting in death, traumatic injury, occupational disease, or damage to property, materials, supplies, or equipment, and shall report this data in the manner prescribed by 29 CFR Part 1904.
- (d) The Contracting Officer shall notify the Contractor of any noncompliance with these requirements and of the corrective action required. This notice, when delivered to the Contractor or the Contractor's representative at the site of the work, shall be deemed sufficient notice of the noncompliance and corrective action required. After receiving the notice, the Contractor shall immediately take corrective action. If the Contractor fails or refuses to take corrective action promptly, the Contracting Officer may issue an order stopping all or part of the work until satisfactory corrective action has been taken. The Contractor shall not base any claim or request for equitable adjustment for additional time or money on any stop order issued under these circumstances.
- (e) The Contractor shall be responsible for its subcontractors' compliance with the provisions of this clause. The Contractor shall take such action with respect to any subcontract as the PHA, the Secretary of Housing and Urban Development, or the Secretary of Labor shall direct as a means of enforcing such provisions.

### 14. Temporary Heating

The Contractor shall provide and pay for temporary heating, covering, and enclosures necessary to properly protect all work and materials against damage by dampness and cold, to dry out the work, and to facilitate the completion of the work. Any permanent heating equipment used shall be turned over to the PHA in the condition and at the time required by the specifications.

### 15. Availability and Use of Utility Services

- (a) The PHA shall make all reasonably required amounts of utilities available to the Contractor from existing outlets and supplies, as specified in the contract. Unless otherwise pro-

vided in the contract, the amount of each utility service consumed shall be charged to or paid for by the Contractor at prevailing rates charged to the PHA or, where the utility is produced by the PHA, at reasonable rates determined by the Contracting Officer. The Contractor shall carefully conserve any utilities furnished without charge.

- (b) The Contractor, at its expense and in a manner satisfactory to the Contracting Officer, shall install and maintain all necessary temporary connections and distribution lines, and all meters required to measure the amount of each utility used for the purpose of determining charges. Before final acceptance of the work by the PHA, the Contractor shall remove all the temporary connections, distribution lines, meters, and associated paraphernalia.

### 16. Protection of Existing Vegetation, Structures, Equipment, Utilities, and Improvements

- (a) The Contractor shall preserve and protect all structures, equipment, and vegetation (such as trees, shrubs, and grass) on or adjacent to the work site, which are not to be removed under this contract, and which do not unreasonably interfere with the work required under this contract.
- (b) The Contractor shall only remove trees when specifically authorized to do so, and shall avoid damaging vegetation that will remain in place. If any limbs or branches of trees are broken during performance of this contract, or by the careless operation of equipment, or by workmen, the Contractor shall trim those limbs or branches with a clean cut and paint the cut with a tree-pruning compound as directed by the Contracting Officer.
- (c) The Contractor shall protect from damage all existing improvements and utilities (1) at or near the work site and (2) on adjacent property of a third party, the locations of which are made known to or should be known by the Contractor. Prior to disturbing the ground at the construction site, the Contractor shall ensure that all underground utility lines are clearly marked.
- (d) The Contractor shall shore up, brace, underpin, secure, and protect as necessary all foundations and other parts of existing structures adjacent to, adjoining, and in the vicinity of the site, which may be affected by the excavations or other operations connected with the construction of the project.
- (e) Any equipment temporarily removed as a result of work under this contract shall be protected, cleaned, and replaced in the same condition as at the time of award of this contract.
- (f) New work which connects to existing work shall correspond in all respects with that to which it connects and/or be similar to existing work unless otherwise required by the specifications.
- (g) No structural members shall be altered or in any way weakened without the written authorization of the Contracting Officer, unless such work is clearly specified in the plans or specifications.
- (h) If the removal of the existing work exposes discolored or unfinished surfaces, or work out of alignment, such surfaces shall be refinished, or the material replaced as necessary to make the continuous work uniform and harmonious. This, however, shall not be construed to require the refinishing or reconstruction of dissimilar finishes previously exposed, or

finished surfaces in good condition, but in different planes or on different levels when brought together by the removal of intervening work, unless such refinishing or reconstruction is specified in the plans or specifications.

- (i) The Contractor shall give all required notices to any adjoining or adjacent property owner or other party before the commencement of any work.
- (j) The Contractor shall indemnify and save harmless the PHA from any damages on account of settlement or the loss of lateral support of adjoining property, any damages from changes in topography affecting drainage, and from all loss or expense and all damages for which the PHA may become liable in consequence of such injury or damage to adjoining and adjacent structures and their premises.
- (k) The Contractor shall repair any damage to vegetation, structures, equipment, utilities, or improvements, including those that are the property of a third party, resulting from failure to comply with the requirements of this contract or failure to exercise reasonable care in performing the work. If the Contractor fails or refuses to repair the damage promptly, the Contracting Officer may have the necessary work performed and charge the cost to the Contractor.

#### 17. Temporary Buildings and Transportation of Materials

- (a) Temporary buildings (e.g., storage sheds, shops, offices, sanitary facilities) and utilities may be erected by the Contractor only with the approval of the Contracting Officer and shall be built with labor and materials furnished by the Contractor without expense to the PHA. The temporary buildings and utilities shall remain the property of the Contractor and shall be removed by the Contractor at its expense upon completion of the work. With the written consent of the Contracting Officer, the buildings and utilities may be abandoned and need not be removed.
- (b) The Contractor shall, as directed by the Contracting Officer, use only established roadways, or use temporary roadways constructed by the Contractor when and as authorized by the Contracting Officer. When materials are transported in prosecuting the work, vehicles shall not be loaded beyond the loading capacity recommended by the manufacturer of the vehicle or prescribed by any federal, state, or local law or regulation. When it is necessary to cross curbs or sidewalks, the Contractor shall protect them from damage. The Contractor shall repair or pay for the repair of any damaged curbs, sidewalks, or roads.

#### 18. Clean Air and Water Applicable to Contracts in Excess of \$100,000

- (a) Definition. "Facility" means any building, plant, installation, structure, mine, vessel or other floating craft, location, or site of operations, owned, leased, or supervised by the Contractor or any subcontractor, used in the performance of the contract or any subcontract. When a location or site of operations includes more than one building, plant, installation, or structure, the entire location or site shall be deemed a facility except when the Administrator, or a designee, of the Environmental Protection Agency (EPA) determines that independent facilities are collocated in one geographical area.

(b) In compliance with regulations issued by the United States Environmental Protection Agency (EPA), 40 CFR Part 15, pursuant to the Clean Air Act, as amended ("Air Act"), 42 U.S.C. 7401, et seq., the Federal Water Pollution Control Act, as amended ("Water Act"), 33 U.S.C. 1251, et seq., and Executive Order 11738, the Contractor agrees to —

- (1) Not utilize any facility in the performance of this contract or any subcontract which is listed on the EPA List of Violating Facilities pursuant to Part 15 of the regulations for the duration of time that the facility remains on the list;
- (2) Promptly notify the Contracting Officer if a facility the Contractor intends to use in the performance of this contract is on the EPA List of Violating Facilities or the Contractor knows that it has been recommended to be placed on the List;
- (3) Comply with all requirements of the Air Act and the Water Act, including the requirements of Section 114 of the Air Act and Section 308 of the Water Act, and all applicable clean air and clean water standards; and,
- (4) Include or cause to be included the provisions of this clause in every subcontract, and take such action as HUD may direct as a means of enforcing such provisions.

#### 19. Energy Efficiency

The Contractor shall comply with all standards and policies relating to energy efficiency which are contained in the energy conservation plan issued in compliance with the Energy Policy and Conservation Act (Pub.L. 94-163) for the State in which the work under the contract is performed.

#### 20. Inspection and Acceptance of Construction

- (a) Definitions. As used in this clause -
  - (1) "**Acceptance**" means the act of an authorized representative of the PHA by which the PHA approves and assumes ownership of the work performed under this contract. Acceptance may be partial or complete.
  - (2) "**Inspection**" means examining and testing the work performed under the contract (including, when appropriate, raw materials, equipment, components, and intermediate assemblies) to determine whether it conforms to contract requirements.
  - (3) "**Testing**" means that element of inspection that determines the properties or elements, including functional operation of materials, equipment, or their components, by the application of established scientific principles and procedures.
- (b) The Contractor shall maintain an adequate inspection system and perform such inspections as will ensure that the work performed under the contract conforms to contract requirements. All work is subject to PHA inspection and test at all places and at all reasonable times before acceptance to ensure strict compliance with the terms of the contract.
- (c) PHA inspections and tests are for the sole benefit of the PHA and do not: (1) relieve the Contractor of responsibility for providing adequate quality control measures; (2) relieve the Contractor of responsibility for loss or damage of the material before acceptance; (3) constitute or imply acceptance; or, (4) affect the continuing rights of the PHA after acceptance of the

completed work under paragraph (j) below.

- (d) The presence or absence of the PHA inspector does not relieve the Contractor from any contract requirement, nor is the inspector authorized to change any term or condition of the specifications without the Contracting Officer's written authorization. All instructions and approvals with respect to the work shall be given to the Contractor by the Contracting Officer.
- (e) The Contractor shall promptly furnish, without additional charge, all facilities, labor, and material reasonably needed for performing such safe and convenient inspections and tests as may be required by the Contracting Officer. The PHA may charge to the Contractor any additional cost of inspection or test when work is not ready at the time specified by the Contractor for inspection or test, or when prior rejection makes reinspection or retest necessary. The PHA shall perform all inspections and tests in a manner that will not unnecessarily delay the work. Special, full size, and performance tests shall be performed as described in the contract.
- (f) The PHA may conduct routine inspections of the construction site on a daily basis.
- (g) The Contractor shall, without charge, replace or correct work found by the PHA not to conform to contract requirements, unless the PHA decides that it is in its interest to accept the work with an appropriate adjustment in contract price. The Contractor shall promptly segregate and remove rejected material from the premises.
- (h) If the Contractor does not promptly replace or correct rejected work, the PHA may (1) by contract or otherwise, replace or correct the work and charge the cost to the Contractor, or (2) terminate for default the Contractor's right to proceed.
- (i) If any work requiring inspection is covered up without approval of the PHA, it must, if requested by the Contracting Officer, be uncovered at the expense of the Contractor. If at any time before final acceptance of the entire work, the PHA considers it necessary or advisable, to examine work already completed by removing or tearing it out, the Contractor, shall on request, promptly furnish all necessary facilities, labor, and material. If such work is found to be defective or nonconforming in any material respect due to the fault of the Contractor or its subcontractors, the Contractor shall defray all the expenses of the examination and of satisfactory reconstruction. If, however, such work is found to meet the requirements of the contract, the Contracting Officer shall make an equitable adjustment to cover the cost of the examination and reconstruction, including, if completion of the work was thereby delayed, an extension of time.
- (j) The Contractor shall notify the Contracting Officer, in writing, as to the date when in its opinion all or a designated portion of the work will be substantially completed and ready for inspection. If the Architect determines that the state of preparedness is as represented, the PHA will promptly arrange for the inspection. Unless otherwise specified in the contract, the PHA shall accept, as soon as practicable after completion and inspection, all work required by the contract or that portion of the work the Contracting Officer determines and designates can be accepted separately. Acceptance shall be final and conclusive except for latent defects, fraud, gross mistakes

amounting to fraud, or the PHA's right under any warranty or guarantee.

## 21. Use and Possession Prior to Completion

- (a) The PHA shall have the right to take possession of or use any completed or partially completed part of the work. Before taking possession of or using any work, the Contracting Officer shall furnish the Contractor a list of items of work remaining to be performed or corrected on those portions of the work that the PHA intends to take possession of or use. However, failure of the Contracting Officer to list any item of work shall not relieve the Contractor of responsibility for complying with the terms of the contract. The PHA's possession or use shall not be deemed an acceptance of any work under the contract.
- (b) While the PHA has such possession or use, the Contractor shall be relieved of the responsibility for (1) the loss of or damage to the work resulting from the PHA's possession or use, notwithstanding the terms of the clause entitled **Permits and Codes** herein; (2) all maintenance costs on the areas occupied; and, (3) furnishing heat, light, power, and water used in the areas occupied without proper remuneration therefor. If prior possession or use by the PHA delays the progress of the work or causes additional expense to the Contractor, an equitable adjustment shall be made in the contract price or the time of completion, and the contract shall be modified in writing accordingly.

## 22. Warranty of Title

The Contractor warrants good title to all materials, supplies, and equipment incorporated in the work and agrees to deliver the premises together with all improvements thereon free from any claims, liens or charges, and agrees further that neither it nor any other person, firm or corporation shall have any right to a lien upon the premises or anything appurtenant thereto.

## 23. Warranty of Construction

- (a) In addition to any other warranties in this contract, the Contractor warrants, except as provided in paragraph (j) of this clause, that work performed under this contract conforms to the contract requirements and is free of any defect in equipment, material, or workmanship performed by the Contractor or any subcontractor or supplier at any tier. This warranty shall continue for a period of \_\_\_\_ (one year unless otherwise indicated) from the date of final acceptance of the work. If the PHA takes possession of any part of the work before final acceptance, this warranty shall continue for a period of (one year unless otherwise indicated) from the date that the PHA takes possession.
- (b) The Contractor shall remedy, at the Contractor's expense, any failure to conform, or any defect. In addition, the Contractor shall remedy, at the Contractor's expense, any damage to PHA-owned or controlled real or personal property when the damage is the result of—
  - (1) The Contractor's failure to conform to contract requirements; or
  - (2) Any defects of equipment, material, workmanship or de-

sign furnished by the Contractor.

- (c) The Contractor shall restore any work damaged in fulfilling the terms and conditions of this clause. The Contractor's warranty with respect to work repaired or replaced will run for (one year unless otherwise indicated) from the date of repair or replacement.
- (d) The Contracting Officer shall notify the Contractor, in writing, within a reasonable time after the discovery of any failure, defect or damage.
- (e) If the Contractor fails to remedy any failure, defect, or damage within a reasonable time after receipt of notice, the PHA shall have the right to replace, repair or otherwise remedy the failure, defect, or damage at the Contractor's expense.
- (f) With respect to all warranties, express or implied, from subcontractors, manufacturers, or suppliers for work performed and materials furnished under this contract, the Contractor shall:
  - (1) Obtain all warranties that would be given in normal commercial practice;
  - (2) Require all warranties to be executed in writing, for the benefit of the PHA; and,
  - (3) Enforce all warranties for the benefit of the PHA.
- (g) In the event the Contractor's warranty under paragraph (a) of this clause has expired, the PHA may bring suit at its own expense to enforce a subcontractor's, manufacturer's or supplier's warranty.
- (h) Unless a defect is caused by the negligence of the Contractor or subcontractor or supplier at any tier, the Contractor shall not be liable for the repair of any defect of material or design furnished by the PHA nor for the repair of any damage that results from any defect in PHA furnished material or design.
- (i) Notwithstanding any provisions herein to the contrary, the establishment of the time periods in paragraphs (a) and (c) above relate only to the specific obligation of the Contractor to correct the work, and have no relationship to the time within which its obligation to comply with the contract may be sought to be enforced, nor to the time within which proceedings may be commenced to establish the Contractor's liability with respect to its obligation other than specifically to correct the work.
- (j) This warranty shall not limit the PHA's rights under the **Inspection and Acceptance of Construction** clause of this contract with respect to latent defects, gross mistakes or fraud.

#### 24. Prohibition Against Liens

The Contractor is prohibited from placing a lien on the PHA's property. This prohibition shall apply to all subcontractors at any tier and all materials suppliers.

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#### Administrative Requirements

#### 25. Contract Period

The Contractor shall complete all work required under this contract within \_\_\_ calendar days of the effective date of the contract, or within the time schedule established in the notice to proceed issued by the Contracting Officer.

#### 26. Order of Precedence

In the event of a conflict between these General Conditions and the Specifications, the General Conditions shall prevail. In the event of a conflict between the contract and any applicable state or local law or regulation, the state or local law or regulation shall prevail; provided that such state or local law or regulation does not conflict with, or is less restrictive than applicable federal law, regulation, or Executive Order. In the event of such a conflict, applicable federal law, regulation, and Executive Order shall prevail.

#### 27. Payments

- (a) The PHA shall pay the Contractor the price as provided in this contract.
- (b) The PHA shall make progress payments approximately every 30 days as the work proceeds, on estimates of work accomplished which meets the standards of quality established under the contract, as approved by the Contracting Officer. The PHA may, subject to written determination and approval of the Contracting Officer, make more frequent payments to contractors which are qualified small businesses.
- (c) Before the first progress payment under this contract, the Contractor shall furnish, in such detail as requested by the Contracting Officer, a breakdown of the total contract price showing the amount included therein for each principal category of the work, which shall substantiate the payment amount requested in order to provide a basis for determining progress payments. The breakdown shall be approved by the Contracting Officer and must be acceptable to HUD. If the contract covers more than one project, the Contractor shall furnish a separate breakdown for each. The values and quantities employed in making up this breakdown are for determining the amount of progress payments and shall not be construed as a basis for additions to or deductions from the contract price. The Contractor shall prorate its overhead and profit over the construction period of the contract.
- (d) The Contractor shall submit, on forms provided by the PHA, periodic estimates showing the value of the work performed during each period based upon the approved breakdown of the contract price. Such estimates shall be submitted not later than days in advance of the date set for payment and are subject to correction and revision as required. The estimates must be approved by the Contracting Officer with the concurrence of the Architect prior to payment. If the contract covers more than one project, the Contractor shall furnish a separate progress payment estimate for each.
- (e) Along with each request for progress payments and the required estimates, the Contractor shall furnish the following certification, or payment shall not be made:

I hereby certify, to the best of my knowledge and belief, that:

  - (1) The amounts requested are only for performance in accordance with the specifications, terms, and conditions of the contract;
  - (2) Payments to subcontractors and suppliers have been made from previous payments received under the contract, and timely payments will be made from the proceeds of the payment covered by this certification, in accordance with subcontract agreements; and,
  - (3) This request for progress payments does not include any

amounts which the prime contractor intends to withhold or retain from a subcontractor or supplier in accordance with the terms and conditions of the subcontract.

\_\_\_\_\_  
Name:

\_\_\_\_\_  
Title:

\_\_\_\_\_  
Date:

- (f) Except as otherwise provided in State law, the PHA shall retain ten (10) percent of the amount of progress payments until completion and acceptance of all work under the contract; except, that if upon completion of 50 percent of the work, the Contracting Officer, after consulting with the Architect, determines that the Contractor's performance and progress are satisfactory, the PHA may make the remaining payments in full for the work subsequently completed. If the Contracting Officer subsequently determines that the Contractor's performance and progress are unsatisfactory, the PHA shall reinstate the ten (10) percent (or other percentage as provided in State law) retainage until such time as the Contracting Officer determines that performance and progress are satisfactory.
- (g) The Contracting Officer may authorize material delivered on the site and preparatory work done to be taken into consideration when computing progress payments. Material delivered to the Contractor at locations other than the site may also be taken into consideration if the Contractor furnishes satisfactory evidence that (1) it has acquired title to such material; (2) the material is properly stored in a bonded warehouse, storage yard, or similar suitable place as may be approved by the Contracting Officer; (3) the material is insured to cover its full value; and (4) the material will be used to perform this contract. Before any progress payment which includes delivered material is made, the Contractor shall furnish such documentation as the Contracting Officer may require to assure the protection of the PHA's interest in such materials. The Contractor shall remain responsible for such stored material notwithstanding the transfer of title to the PHA.
- (h) All material and work covered by progress payments made shall, at the time of payment become the sole property of the PHA, but this shall not be construed as (1) relieving the Contractor from the sole responsibility for all material and work upon which payments have been made or the restoration of any damaged work; or, (2) waiving the right of the PHA to require the fulfillment of all of the terms of the contract. In the event the work of the Contractor has been damaged by other contractors or persons other than employees of the PHA in the course of their employment, the Contractor shall restore such damaged work without cost to the PHA and to seek redress for its damage only from those who directly caused it.

- (i) The PHA shall make the final payment due the Contractor under this contract after (1) completion and final acceptance of all work; and (2) presentation of release of all claims against the PHA arising by virtue of this contract, other than claims, in stated amounts, that the Contractor has specifically excepted from the operation of the release. Each such exception shall embrace no more than one claim, the basis and scope of which shall be clearly defined. The amounts for such excepted claims shall not be included in the request for final payment. A release may also be required of the assignee if the Contractor's claim to amounts payable under this contract has been assigned.
- (j) Prior to making any payment, the Contracting Officer may require the Contractor to furnish receipts or other evidence of payment from all persons performing work and supplying material to the Contractor, if the Contracting Officer determines such evidence is necessary to substantiate claimed costs.
- (k) The PHA shall not (1) determine or adjust any claims for payment or disputes arising thereunder between the Contractor and its subcontractors or material suppliers; or, (2) withhold any moneys for the protection of the subcontractors or material suppliers. The failure or refusal of the PHA to withhold moneys from the Contractor shall in no wise impair the obligations of any surety or sureties under any bonds furnished under this contract.

## 28. Contract Modifications

- (a) Only the Contracting Officer has authority to modify any term or condition of this contract. Any contract modification shall be authorized in writing.
- (b) The Contracting Officer may modify the contract unilaterally (1) pursuant to a specific authorization stated in a contract clause (e.g., Changes); or (2) for administrative matters which do not change the rights or responsibilities of the parties (e.g., change in the PHA address). All other contract modifications shall be in the form of supplemental agreements signed by the Contractor and the Contracting Officer.
- (c) When a proposed modification requires the approval of HUD prior to its issuance (e.g., a change order that exceeds the PHA's approved threshold), such modification shall not be effective until the required approval is received by the PHA.

## 29. Changes

- (a) The Contracting Officer may, at any time, without notice to the sureties, by written order designated or indicated to be a change order, make changes in the work within the general scope of the contract including changes:
  - (1) In the specifications (including drawings and designs);
  - (2) In the method or manner of performance of the work;
  - (3) PHA-furnished facilities, equipment, materials, services, or site; or,
  - (4) Directing the acceleration in the performance of the work.
- (b) Any other written order or oral order (which, as used in this paragraph (b), includes direction, instruction, interpretation, or determination) from the Contracting Officer that causes a change shall be treated as a change order under this clause; provided, that the Contractor gives the Contracting Officer

written notice stating (1) the date, circumstances and source of the order and (2) that the Contractor regards the order as a change order.

- (c) Except as provided in this clause, no order, statement or conduct of the Contracting Officer shall be treated as a change under this clause or entitle the Contractor to an equitable adjustment.
- (d) If any change under this clause causes an increase or decrease in the Contractor's cost of, or the time required for the performance of any part of the work under this contract, whether or not changed by any such order, the Contracting Officer shall make an equitable adjustment and modify the contract in writing. However, except for a adjustment based on defective specifications, no proposal for any change under paragraph (b) above shall be allowed for any costs incurred more than 20 days (5 days for oral orders) before the Contractor gives written notice as required. In the case of defective specifications for which the PHA is responsible, the equitable adjustment shall include any increased cost reasonably incurred by the Contractor in attempting to comply with the defective specifications.
- (e) The Contractor must assert its right to an adjustment under this clause within 30 days after (1) receipt of a written change order under paragraph (a) of this clause, or (2) the furnishing of a written notice under paragraph (b) of this clause, by submitting a written statement describing the general nature and the amount of the proposal. If the facts justify it, the Contracting Officer may extend the period for submission. The proposal may be included in the notice required under paragraph (b) above. No proposal by the Contractor for an equitable adjustment shall be allowed if asserted after final payment under this contract.
- (f) The Contractor's written proposal for equitable adjustment shall be submitted in the form of a lump sum proposal supported with an itemized breakdown of all increases and decreases in the contract in at least the following details:
  - (1) Direct Costs. Materials (list individual items, the quantity and unit cost of each, and the aggregate cost); Transportation and delivery costs associated with materials; Labor breakdowns by hours or unit costs (identified with specific work to be performed); Construction equipment exclusively necessary for the change; Costs of preparation and/or revision to shop drawings resulting from the change; Worker's Compensation and Public Liability Insurance; Employment taxes under FICA and FUTA; and, Bond Costs - when size of change warrants revision.
  - (2) Indirect Costs. Indirect costs may include overhead, general and administrative expenses, and fringe benefits not normally treated as direct costs.
  - (3) Profit. The amount of profit shall be negotiated and may vary according to the nature, extent, and complexity of the work required by the change.

The allowability of the direct and indirect costs shall be determined in accordance with the Contract Cost Principles and Procedures for Commercial Firms in Part 31 of the Federal Acquisition Regulation (48 CFR 1-31), as implemented by HUD Handbook 2210.18, in effect on the date of this contract. The Contractor shall not be allowed a profit on the profit

received by any subcontractor. Equitable adjustments for deleted work shall include a credit for profit and may include a credit for indirect costs. On proposals covering both increases and decreases in the amount of the contract, the application of indirect costs and profit shall be on the net-change in direct costs for the Contractor or subcontractor performing the work.

- (g) The Contractor shall include in the proposal its request for time extension (if any), and shall include sufficient information and dates to demonstrate whether and to what extent the change will delay the completion of the contract in its entirety.
- (h) The Contracting Officer shall act on proposals within 30 days after their receipt, or notify the Contractor of the date when such action will be taken.
- (i) Failure to reach an agreement on any proposal shall be a dispute under the clause entitled **Disputes** herein. Nothing in this clause, however, shall excuse the Contractor from proceeding with the contract as changed.
- (j) Except in an emergency endangering life or property, no change shall be made by the Contractor without a prior order from the Contracting Officer.

### 30. Suspension of Work

- (a) The Contracting Officer may order the Contractor in writing to suspend, delay, or interrupt all or any part of the work of this contract for the period of time that the Contracting Officer determines appropriate for the convenience of the PHA.
- (b) If the performance of all or any part of the work is, for an unreasonable period of time, suspended, delayed, or interrupted (1) by an act of the Contracting Officer in the administration of this contract, or (2) by the Contracting Officer's failure to act within the time specified (or within a reasonable time if not specified) in this contract an adjustment shall be made for any increase in the cost of performance of the contract (excluding profit) necessarily caused by such unreasonable suspension, delay, or interruption and the contract modified in writing accordingly. However, no adjustment shall be made under this clause for any suspension, delay, or interruption to the extent that performance would have been so suspended, delayed, or interrupted by any other cause, including the fault or negligence of the Contractor or for which any equitable adjustment is provided for or excluded under any other provision of this contract.
- (c) A claim under this clause shall not be allowed (1) for any costs incurred more than 20 days before the Contractor shall have notified the Contracting Officer in writing of the act or failure to act involved (but this requirement shall not apply as to a claim resulting from a suspension order); and, (2) unless the claim, in an amount stated, is asserted in writing as soon as practicable after the termination of the suspension, delay, or interruption, but not later than the date of final payment under the contract.

### 31. Disputes

- (a) "Claim," as used in this clause, means a written demand or written assertion by one of the contracting parties seeking, as a matter of right, the payment of money in a sum certain, the

adjustment or interpretation of contract terms, or other relief arising under or relating to the contract. A claim arising under the contract, unlike a claim relating to the contract, is a claim that can be resolved under a contract clause that provides for the relief sought by the claimant. A voucher, invoice, or other routine request for payment that is not in dispute when submitted is not a claim. The submission may be converted to a claim by complying with the requirements of this clause, if it is disputed either as to liability or amount or is not acted upon in a reasonable time.

- (b) Except for disputes arising under the clauses entitled **Labor Standards and Labor Standards- Nonroutine Maintenance**, herein, all disputes arising under or relating to this contract, including any claims for damages for the alleged breach thereof which are not disposed of by agreement, shall be resolved under this clause.
- (c) All claims by the Contractor shall be made in writing and submitted to the Contracting Officer for a written decision. A claim by the PHA against the Contractor shall be subject to a written decision by the Contracting Officer.
- (d) The Contracting Officer shall, within 60 (unless otherwise indicated) days after receipt of the request, decide the claim or notify the Contractor of the date by which the decision will be made.
- (e) The Contracting Officer's decision shall be final unless the Contractor (1) appeals in writing to a higher level in the PHA in accordance with the PHA's policy and procedures, (2) refers the appeal to an independent mediator or arbitrator, or (3) files suit in a court of competent jurisdiction. Such appeal must be made within (30 unless otherwise indicated) days after receipt of the Contracting Officer's decision.
- (f) The Contractor shall proceed diligently with performance of this contract, pending final resolution of any request for relief, claim, appeal, or action arising under or relating to the contract, and comply with any decision of the Contracting Officer.

### 32. Default

- (a) If the Contractor refuses or fails to prosecute the work, or any separable part thereof, with the diligence that will insure its completion within the time specified in this contract, or any extension thereof, or fails to complete said work within this time, the Contracting Officer may, by written notice to the Contractor, terminate the right to proceed with the work (or separable part of the work) that has been delayed. In this event, the PHA may take over the work and complete it, by contract or otherwise, and may take possession of and use any materials, equipment, and plant on the work site necessary for completing the work. The Contractor and its sureties shall be liable for any damage to the PHA resulting from the Contractor's refusal or failure to complete the work within the specified time, whether or not the Contractor's right to proceed with the work is terminated. This liability includes any increased costs incurred by the PHA in completing the work.
- (b) The Contractor's right to proceed shall not be terminated or the Contractor charged with damages under this clause if—
  - (1) The delay in completing the work arises from unforeseeable causes beyond the control and without the fault or

negligence of the Contractor. Examples of such causes include (i) acts of God, or of the public enemy, (ii) acts of the PHA or other governmental entity in either its sovereign or contractual capacity, (iii) acts of another contractor in the performance of a contract with the PHA, (iv) fires, (v) floods, (vi) epidemics, (vii) quarantine restrictions, (viii) strikes, (ix) freight embargoes, (x) unusually severe weather, or (xi) delays of subcontractors or suppliers at any tier arising from unforeseeable causes beyond the control and without the fault or negligence of both the Contractor and the subcontractors or suppliers; and

- (2) The Contractor, within days (10 days unless otherwise indicated) from the beginning of such delay (unless extended by the Contracting Officer) notifies the Contracting Officer in writing of the causes of delay. The Contracting Officer shall ascertain the facts and the extent of the delay. If, in the judgment of the Contracting Officer, the findings of fact warrant such action, time for completing the work shall be extended by written modification to the contract. The findings of the Contracting Officer shall be reduced to a written decision which shall be subject to the provisions of the **Disputes** clause of this contract.
- (c) If, after termination of the Contractor's right to proceed, it is determined that the Contractor was not in default, or that the delay was excusable, the rights and obligations of the parties will be the same as if the termination had been for convenience of the PHA.

### 33. Liquidated Damages

- (a) If the Contractor fails to complete the work within the time specified in the contract, or any extension, as specified in the clause entitled **Default** of this contract, the Contractor shall pay to the PHA as liquidated damages, the sum of \$ [Contracting Officer insert amount] for each day of delay. If different completion dates are specified in the contract for separate parts or stages of the work, the amount of liquidated damages shall be assessed on those parts or stages which are delayed. To the extent that the Contractor's delay or nonperformance is excused under another clause in this contract, liquidated damages shall not be due the PHA. The Contractor remains liable for damages caused other than by delay.
- (b) If the PHA terminates the Contractor's right to proceed, the resulting damage will consist of liquidated damages until such reasonable time as may be required for final completion of the work together with any increased costs occasioned the PHA in completing the work.
- (c) If the PHA does not terminate the Contractor's right to proceed, the resulting damage will consist of liquidated damages until the work is completed or accepted.

### 34. Termination for Convenience

- (a) The Contracting Officer may terminate this contract in whole, or in part, whenever the Contracting Officer determines that such termination is in the best interest of the PHA. Any such termination shall be effected by delivery to the Contractor of a Notice of Termination specifying the extent to which the performance of the work under the contract is terminated, and the date upon which such termination becomes effective.

- (b) If the performance of the work is terminated, either in whole or in part, the PHA shall be liable to the Contractor for reasonable and proper costs resulting from such termination upon the receipt by the PHA of a properly presented claim setting out in detail: (1) the total cost of the work performed to date of termination less the total amount of contract payments made to the Contractor; (2) the cost (including reasonable profit) of settling and paying claims under subcontracts and material orders for work performed and materials and supplies delivered to the site, payment for which has not been made by the PHA to the Contractor or by the Contractor to the subcontractor or supplier; (3) the cost of preserving and protecting the work already performed until the PHA or assignee takes possession thereof or assumes responsibility therefor; (4) the actual or estimated cost of legal and accounting services reasonably necessary to prepare and present the termination claim to the PHA; and (5) an amount constituting a reasonable profit on the value of the work performed by the Contractor.
- (c) The Contracting Officer will act on the Contractor's claim within days (60 days unless otherwise indicated) of receipt of the Contractor's claim.
- (d) Any disputes with regard to this clause are expressly made subject to the provisions of the *Disputes* clause of this contract.

### 35. Assignment of Contract

The Contractor shall not assign or transfer any interest in this contract; except that claims for monies due or to become due from the PHA under the contract may be assigned to a bank, trust company, or other financial institution. Such assignments of claims shall only be made with the written concurrence of the Contracting Officer. If the Contractor is a partnership, this contract shall inure to the benefit of the surviving or remaining member(s) of such partnership as approved by the Contracting Officer.

### 36. Insurance

- (a) Before commencing work, the Contractor and each subcontractor shall furnish the PHA with certificates of insurance showing the following insurance is in force and will insure all operations under the Contract:
- (1) Workers' Compensation, in accordance with state or Territorial Workers' Compensation laws.
  - (2) Commercial General Liability with a combined single limit for bodily injury and property damage of not less than \$[Contracting Officer insert amount] per occurrence to protect the Contractor and each subcontractor against claims for bodily injury or death and damage to the property of others. This shall cover the use of all equipment, hoists, and vehicles on the site(s) not covered by Automobile Liability under (3) below. If the Contractor has a "claims-made" policy, then the following additional requirements apply: the policy must provide a "retroactive date" which must be on or before the execution date of the Contract; and the extended reporting period may not be less than five years following the completion date of the Contract.

- (3) Automobile Liability on owned and non-owned motor vehicles used on the site(s) or in connection therewith for a combined single limit for bodily injury and property damage of not less than \$\_\_ [Contracting Officer insert amount] per occurrence.

- (b) Before commencing work, the Contractor shall furnish the PHA with a certificate of insurance evidencing that Builder's Risk (fire and extended coverage) Insurance on all work in place and/or materials stored at the building site(s), including foundations and building equipment, is in force. The Builder's Risk Insurance shall be for the benefit of the Contractor and the PHA as their interests may appear and each shall be named in the policy or policies as an insured. The Contractor in installing equipment supplied by the PHA shall carry insurance on such equipment from the time the Contractor takes possession thereof until the Contract work is accepted by the PHA. The Builder's Risk Insurance need not be carried on excavations, piers, footings, or foundations until such time as work on the super-structure is started. It need not be carried on landscape work. Policies shall furnish coverage at all times for the full cash value of all completed construction, as well as materials in place and/or stored at the site(s), whether or not partial payment has been made by the PHA. The Contractor may terminate this insurance on buildings as of the date taken over for occupancy by the PHA. The Contractor is not required to carry Builder's Risk Insurance for modernization work which does not involve structural alterations or additions and where the PHA's existing fire and extended coverage policy can be endorsed to include such work.
- (c) All insurance shall be carried with companies which are financially responsible and admitted to do business in the State in which the project is located. If any such insurance is due to expire during the construction period, the Contractor (including subcontractors, as applicable) shall not permit the coverage to lapse and shall furnish evidence of coverage to the Contracting Officer. All certificates of insurance, as evidence of coverage, shall provide that no coverage may be canceled or non-renewed by the insurance company until at least 30 days prior written notice has been given to the Contracting Officer.

### 37. Subcontracts

- (a) Definitions. As used in this contract -
- (1) "**Subcontract**" means any contract, purchase order, or other purchase agreement, including modifications and change orders to the foregoing, entered into by a subcontractor to furnish supplies, materials, equipment, and services for the performance of the prime contract or a subcontract.
  - (2) "**Subcontractor**" means any supplier, vendor, or firm that furnishes supplies, materials, equipment, or services to or for the Contractor or another subcontractor.
- (b) The Contractor shall not enter into any subcontract with any subcontractor who has been temporarily denied participation in a HUD program or who has been suspended or debarred from participating in contracting programs by any agency of the United States Government or of the state in which the work

under this contract is to be performed.

- (c) The Contractor shall be as fully responsible for the acts or omissions of its subcontractors, and of persons either directly or indirectly employed by them as for the acts or omissions of persons directly employed by the Contractor.
- (d) The Contractor shall insert appropriate clauses in all subcontracts to bind subcontractors to the terms and conditions of this contract insofar as they are applicable to the work of subcontractors.
- (e) Nothing contained in this contract shall create any contractual relationship between any subcontractor and the PHA or between the subcontractor and HUD.

### **38. Subcontracting with Small and Minority Firms, Women's Business Enterprise, and Labor Surplus Area Firms**

**<The Contractor shall take the following steps to ensure that, whenever possible, subcontracts are awarded to small business firms, minority firms, women's business enterprises, and labor surplus area firms:**

- (a) Placing qualified small and minority businesses and women's business enterprises on solicitation lists;
- (b) Ensuring that small and minority businesses and women's business enterprises are solicited whenever they are potential sources;
- (c) Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses and women's business enterprises;
- (d) Establishing delivery schedules, where the requirements of the contract permit, which encourage participation by small and minority businesses and women's business enterprises; and
- (e) Using the services and assistance of the U.S. Small Business Administration, the Minority Business Development Agency of the U.S. Department of Commerce, and State and local governmental small business agencies.

### **39. Equal Employment Opportunity**

During the performance of this contract, the Contractor agrees as follows:

- (a) The Contractor shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin, or handicap.
- (b) The Contractor shall take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, national origin, or handicap. Such action shall include, but not be limited to, (1) employment, (2) upgrading, (3) demotion, (4) transfer, (5) recruitment or recruitment advertising, (6) layoff or termination, (7) rates of pay or other forms of compensation, and (8) selection for training, including apprenticeship.
- (c) The Contractor shall post in conspicuous places available to employees and applicants for employment the notices to be

provided by the Contracting Officer that explain this clause.

- (d) The Contractor shall, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, or handicap.
- (e) The Contractor shall send, to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding, the notice to be provided by the Contracting Officer advising the labor union or workers' representative of the Contractor's commitments under this clause, and post copies of the notice in conspicuous places available to employees and applicants for employment.
- (f) The Contractor shall comply with Executive Order 11246, as amended, and the rules, regulations, and orders of the Secretary of Labor.
- (g) The Contractor shall furnish all information and reports required by Executive Order 11246, as amended, Section 503 of the Rehabilitation Act of 1973, as amended, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto. The Contractor shall permit access to its books, records, and accounts by the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
- (h) In the event of a determination that the Contractor is not in compliance with this clause or any rule, regulation, or order of the Secretary of Labor, this contract may be canceled, terminated, or suspended in whole or in part, and the Contractor may be declared ineligible for further Government contracts, or Federally assisted construction contracts under the procedures authorized in Executive Order 11246, as amended. In addition, sanctions may be imposed and remedies invoked against the Contractor as provided in Executive Order 11246, as amended, the rules, regulations, and orders of the Secretary of Labor, or as otherwise provided by law.
- (i) The Contractor shall include the terms and conditions of this clause in every subcontract or purchase order unless exempted by the rules, regulations, or orders of the Secretary of Labor issued under Executive Order 11246, as amended, so that these terms and conditions will be binding upon each subcontractor or vendor. The Contractor shall take such action with respect to any subcontract or purchase order as the Secretary of Housing and Urban Development or the Secretary of Labor may direct as a means of enforcing such provisions, including sanctions for noncompliance; provided that if the Contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction, the Contractor may request the United States to enter into the litigation to protect the interests of the United States.
- (j) Compliance with the requirements of this clause shall be to the maximum extent consistent with, but not in derogation of, compliance with section 7(b) of the Indian Self-Determination and Education Assistance Act and the *Indian Preference* clause of this contract.

### **40. Employment, Training, and Contracting Opportunities for Low-Income Persons, Section 3 of the Housing and Urban**

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**Development Act of 1968.**

- (a) The work to be performed under this contract is subject to the requirements of section 3 of the Housing and Urban Development Act of 1968, as amended, 12 U.S.C. 1701u (section 3). The purpose of section 3 is to ensure that employment and other economic opportunities generated by HUD assistance or HUD-assisted projects covered by section 3, shall, to the greatest extent feasible, be directed to low- and very low-income persons, particularly persons who are recipients of HUD assistance for housing.
- (b) The parties to this contract agree to comply with HUDs regulations in 24 CFR part 135, which implement section 3. As evidenced by their execution of this contract, the parties to this contract certify that they are under no contractual or other impediment that would prevent them from complying with the part 135 regulations.
- (c) The contractor agrees to send to each labor organization or representative of workers with which the contractor has a collective bargaining agreement or other understanding, if any, a notice advising the labor organization or workers representative of the contractors commitments under this section 3 clause, and will post copies of the notice in conspicuous places at the work site where both employees and applicants for training and employment positions can see the notice. The notice shall describe the section 3 preference, shall set forth minimum number and job titles subject to hire, availability of apprenticeship and training positions, the qualifications for each; and the name and location of the person(s) taking applications for each of the positions; and the anticipated date the work shall begin.
- (d) The contractor agrees to include this section 3 clause in every subcontract subject to compliance with regulations in 24 CFR part 135, and agrees to take appropriate action, as provided in an applicable provision of the subcontract or in this section 3 clause, upon a finding that the subcontractor is in violation of the regulations in 24 CFR part 135. The contractor will not subcontract with any subcontractor where the contractor has notice or knowledge that the subcontractor has been found in violation of the regulations in 24 CFR part 135.
- (e) The contractor will certify that any vacant employment positions, including training positions, that are filled (1) after the contractor is selected but before the contract is executed, and (2) with persons other than those to whom the regulations of 24 CFR part 135 require employment opportunities to be directed, were not filled to circumvent the contractors obligations under 24 CFR part 135.
- (f) Noncompliance with HUDs regulations in 24 CFR part 135 may result in sanctions, termination of this contract for default, and debarment or suspension from future HUD assisted contracts.
- (g) Pursuant to 24 CFR 905.170(b), compliance with Section 3 requirements shall be to the maximum extent consistent with, but not in derogation of compliance with section 7(b) of the Indian Self-Determination and Education Assistance, 25 U.S.C. section 450e(b) when this law is applicable.

**41. Interest of Members of Congress**

No member of or delegate to the Congress of the United States of America shall be admitted to any share or part of this contract or to any benefit that may arise therefrom.

**42. Interest of Members, Officers, or Employees and Former Members, Officers, or Employees**

No member, officer, or employee of the PHA, no member of the governing body of the locality in which the project is situated, no member of the governing body of the locality in which the PHA was activated, and no other public official of such locality or localities who exercises any functions or responsibilities with respect to the project, shall, during his or her tenure, or for one year thereafter, have any interest, direct or indirect, in this contract or the proceeds thereof.

**43. Limitations on Payments made to Influence Certain Federal Financial Transactions**

- (a) The Contractor agrees to comply with Section 1352 of title 31, United States Code which prohibits the use of Federal appropriated funds to pay any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, and officer or employee of Congress, or an employee of a Member of Congress in connection with any of the following covered Federal actions: the awarding of any Federal contract; the making of any Federal grant; the making of any Federal loan; the entering into of any cooperative agreement; or the modification of any Federal contract, grant, loan, or cooperative agreement.
- (b) The Contractor further agrees to comply with the requirement of the Act to furnish a disclosure (OMB Standard Form LLL, Disclosure of Lobbying Activities) if any funds other than Federal appropriated funds (including profit or fee received under a covered Federal transaction) have been paid, or will be paid, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with a Federal contract, grant, loan, or cooperative agreement.

**44. Royalties and Patents**

The Contractor shall pay all royalties and license fees. It shall defend all suits or claims for infringement of any patent rights and shall save the PHA harmless from loss on account thereof; except that the PHA shall be responsible for all such loss when a particular design, process or the product of a particular manufacturer or manufacturers is specified and the Contractor has no reason to believe that the specified design, process, or product is an infringement. If, however, the Contractor has reason to believe that any design, process or product specified is an infringement of a patent, the Contractor shall promptly notify the Contracting Officer. Failure to give such notice shall make the Contractor responsible for resultant loss.

**45. Examination and Retention of Contractor's Records**

- (a) The PHA, HUD, or Comptroller General of the United States, or any of their duly authorized representatives shall, until 3 years after final payment under this contract, have access to

and the right to examine any of the Contractor's directly pertinent books, documents, papers, or other records involving transactions related to this contract for the purpose of making audit, examination, excerpts, and transcriptions.

- (b) The Contractor agrees to include in first-tier subcontracts under this contract a clause substantially the same as paragraph (a) above. "Subcontract," as used in this clause, excludes purchase orders not exceeding \$10,000.
- (c) The periods of access and examination in paragraphs (a) and (b) above for records relating to (1) appeals under the *Disputes* clause of this contract, (2) litigation or settlement of claims arising from the performance of this contract, or (3) costs and expenses of this contract to which the PHA, HUD, or Comptroller General or any of their duly authorized representatives has taken exception shall continue until disposition of such appeals, litigation, claims, or exceptions.

#### 46. Labor Standards - Davis-Bacon and Related Acts

If the total amount of this contract exceeds \$2,000, the Federal labor standards set forth in the clause below shall apply to the construction work to be performed under the contract, except if the construction work has been determined to be "Nonroutine Maintenance" subject to the terms of that clause of this contract.

##### (a) Minimum Wages.

- (1) All laborers and mechanics employed or working upon the site of the work (or, under the United States Housing Act of 1937 or under the Housing Act of 1949, in the construction or development of the project) will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR Part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the Contractor and such laborers and mechanics. Contributions made or costs reasonably anticipated for bona fide fringe benefits under Section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of 29 CFR 5.5(a)(1)(iv); also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs, which cover the regular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid not less than the appropriate wage rate and fringe benefits in the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR Part 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein; pro-

vided, that the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under 29 CFR 5.5(a)(1)(ii) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the Contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

- (2) (i) Any class of laborers or mechanics which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. HUD shall approve an additional classification and wage rate and fringe benefits therefor only when all the following criteria have been met:

(A) The work to be performed by the classification requested is not performed by a classification in the wage determination;

(B) The classification is utilized in the area by the construction industry; and

(C) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

- (ii) If the Contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and HUD or its designee agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by HUD or its designee to the Administrator of the Wage and Hour Division, Employee Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise HUD or its designee or will notify HUD or its designee within the 30-day period that additional time is necessary.
- (iii) In the event the Contractor, the laborers or mechanics to be employed in the classification or their representatives, and HUD or its designee do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), HUD or its designee shall refer the questions, including the views of all interested parties and the recommendation of HUD or its designee, to the Administrator of the Wage and Hour Division for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise HUD or its designee or will notify HUD or its designee within the 30-day period that additional time is necessary.
- (iv) The wage rate (including fringe benefits where appropriate) determined pursuant to subparagraphs (b)(2)(ii) or (iii) of this clause shall be paid to all workers performing work in the classification under

this contract from the first day on which work is performed in the classification.

- (3) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the Contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.
  - (4) If the Contractor does not make payments to a trustee or other third person, the Contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program; *provided*, that the Secretary of Labor has found, upon the written request of the Contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the Contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.
- (b) **Withholding of funds.** HUD or its designee shall, upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the Contractor under this contract or any other Federal contract with the same prime Contractor, or any other Federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime Contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the Contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work (or, under the United States Housing Act of 1937 or under the Housing Act of 1949, in the construction or development of the project), all or part of the wages required by the contract, HUD or its designee may, after written notice to the Contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased. HUD or its designee may, after written notice to the Contractor, disburse such amounts withheld for and on account of the Contractor or subcontractor to the respective employees to whom they are due. The Comptroller General shall make such disbursements in the case of direct Davis-Bacon Act contracts.
- (c) **Payrolls and basic records.** (1) Payrolls and basic records relating thereto shall be maintained by the Contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work (or, under the United States Housing Act of 1937 or under the Housing Act of 1949, in the construction or development of the project). Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made, and

actual wages paid. Whenever the Secretary of Labor has found, under 29 CFR 5.5(a)(1)(iv), that the wages of any laborer or mechanic include the amount of costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the Contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

- (2) (i) The Contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the Contracting Officer for transmission to HUD or its designee. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under subparagraph (c)(1) of this clause. This information may be submitted in any form desired. Optional Form WH-347 (Federal Stock Number 029-005-00014-1) is available for this purpose and may be purchased from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. The prime Contractor is responsible for the submission of copies of payrolls by all subcontractors.
- (ii) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the Contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:
  - (A) That the payroll for the payroll period contains the information required to be maintained under paragraph (c)(1) of this clause and that such information is correct and complete;
  - (B) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in 29 CFR Part 3; and
  - (C) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.
- (iii) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirements for submission of the "Statement of Compliance" required by subparagraph (c)(2)(ii) of this clause.
- (iv) The falsification of any of the above certifications

may subject the Contractor or subcontractor to civil or criminal prosecution under Section 1001 of Title 18 and Section 3729 of Title 31 of the United States Code.

- (3) The Contractor or subcontractor shall make the records required under subparagraph (d)(1) available for inspection, copying, or transcription by authorized representatives of HUD or its designee, the Contracting Officer, or the Department of Labor and shall permit such representatives to interview employees during working hours on the job. If the Contractor or subcontractor fails to submit the required records or to make them available, HUD or its designee may, after written notice to the Contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

- (d) (1) **Apprentices.** Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State Apprenticeship Agency recognized by the Bureau, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Bureau of Apprenticeship and Training or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the Contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated in this paragraph, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the Contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Ad-

ministrator of the Wage and Hour Division determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Bureau of Apprenticeship and Training, or a State Apprenticeship Agency recognized by the Bureau, withdraws approval of an apprenticeship program, the Contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

- (2) **Trainees.** Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed in the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate in the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate in the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate in the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the Contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.
- (3) **Equal employment opportunity.** The utilization of apprentices, trainees, and journeymen under this clause shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR Part 30.
- (e) **Compliance with Copeland Act requirements.** The Contractor shall comply with the requirements of 29 CFR Part 3, which are hereby incorporated by reference in this contract.
- (f) **Contract termination; debarment.** A breach of this contract clause may be grounds for termination of the contract and for debarment as a Contractor and a subcontractor as provided in 29 CFR 5.12.

- (g) **Compliance with Davis-Bacon and related Act requirements.** All rulings and interpretations of the Davis-Bacon and related Acts contained in 29 CFR Parts 1, 3, and 5 are herein incorporated by reference in this contract.
- (h) **Disputes concerning labor standards.** Disputes arising out of the labor standards provisions of this clause shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR Parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the Contractor (or any of its subcontractors) and the PHA, HUD, the U.S. Department of Labor, or the employees or their representatives.
- (i) **Certification of eligibility.** (1) By entering into this contract, the Contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the Contractor's firm is a person or firm ineligible to be awarded contracts by the United States Government by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).  
 (2) No part of this contract shall be subcontracted to any person or firm ineligible to be awarded contracts by the United States Government by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).  
 (3) The penalty for making false statements is prescribed in the U. S. Criminal Code, 18 U.S.C. 1001.
- (j) **Contract Work Hours and Safety Standards Act.** As used in this paragraph, the terms "laborers" and "mechanics" include watchmen and guards.
- (1) **Overtime requirements.** No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics, including watchmen and guards, shall require or permit any such laborer or mechanic in any workweek in which the individual is employed on such work to work in excess of 40 hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of 40 hours in such workweek.
- (2) **Violation; liability for unpaid wages; liquidated damages.** In the event of any violation of the provisions set forth in subparagraph (j)(1) of this clause, the Contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such Contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic (including watchmen and guards) employed in violation of the provisions set forth in subparagraph (j)(1) of this clause, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of 40 hours without payment of the overtime wages required by provisions set forth in subparagraph (j)(1) of this clause.
- (3) **Withholding for unpaid wages and liquidated damages.** HUD or its designee shall upon its own action or upon written request of an authorized representative of the De-

partment of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the Contractor or subcontractor under any such contract or any Federal contract with the same prime Contractor, or any other Federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime Contractor such sums as may be determined to be necessary to satisfy any liabilities of such Contractor or subcontractor for unpaid wages and liquidated damages as provided in the provisions set forth in subparagraph (j)(2) of this clause.

- (k) **Subcontracts.** The Contractor or subcontractor shall insert in any subcontracts all the provisions contained in this clause, and such other clauses as HUD or its designee may by appropriate instructions require, and also a clause requiring the subcontractors to include these provisions in any lower tier subcontracts. The prime Contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all these provisions.

[ ] **47. Labor Standards-Non-routine Maintenance**

*(If checked,* for contracts exceeding \$2,000, HUD has determined that the construction covered by this contract consists of non-routine maintenance (as defined in 24 CFR 968.203) necessary for the operation of the Public or Indian Housing project; and the labor standards set forth below and the provisions of Section 12 of the United States Housing Act of 1937 which pertain to such work shall apply. Clause 47 does not apply to this contract.)

- (a) **Minimum Wages.** (1) All laborers and mechanics employed or working upon the site of the work will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR Part 3), the full amount of wages due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Housing and Urban Development which is attached hereto and made a part hereof. Such laborers and mechanics shall be paid the appropriate wage rate on the wage determination for the classification of work actually performed, without regard to skill. Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein; provided, that the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination shall be posted at all times by the Contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

- (2) (i) Any class of laborers or mechanics which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. HUD shall approve an additional classification and wage rate only when the following criteria have been met:

- (A) The work to be performed by the classification required is not performed by a classification in

the wage determination;

(B) The classification is utilized in the area by the industry; and

(C) The proposed wage rate bears a reasonable relationship to the wage rates contained in the wage determination.

(ii) The wage rate determined pursuant to this paragraph shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

(b) **Withholding of funds.** The Contracting Officer, upon his or her own action or upon request of HUD shall withhold or cause to be withheld from the Contractor under this contract or any other contract subject to HUD-determined wage rates, with the same prime Contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics employed by the Contractor or any subcontractor the full amount of wages required by this clause. In the event of failure to pay any laborer or mechanic employed or working on the site of the work all or part of the wages required by the contract, the Contracting Officer or HUD may, after written notice to the Contractor, take such action as may be necessary to cause the suspension of any further payment, or advance, until such violations have ceased. The PHA or HUD may, after written notice to the Contractor, disburse such amounts withheld for and on account of the Contractor or subcontractor to the respective employees to whom they are due.

(c) **Payrolls and basic records.**

(1) Payrolls and basic records relating thereto shall be maintained by the Contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid, daily and weekly number of hours worked, deductions made, and actual wages paid.

(2) (i) The Contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the Contracting Officer. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under subparagraph (d)(1) above. This information may be submitted in any form desired. Optional Form WH-347 (Federal Stock Number 029-005-00014-1) is available for this purpose and may be purchased from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. The prime Contractor is responsible for the submission of copies of payrolls by all subcontractors. (Approved by the OMB under OMB control number 1215-0149).

(ii) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the Contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(A) that the payroll for the payroll period contains the information required to be maintained

under subparagraph (c)(1) of this clause and that such information is correct and complete;

(B) that each laborer or mechanic employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in 29 CFR Part 3; and

(C) that each laborer or mechanic has been paid not less than the applicable wage rates for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(iii) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirements for submission of the "Statement of compliance" required by subparagraph (c)(2)(ii) of this clause.

(iv) The falsification of any of the above certifications may subject the Contractor or subcontractor to civil or criminal prosecution under Section 1001 of Title 18 and Section 3729 of Title 31 of the United States Code.

(3) The Contractor or subcontractor shall make the records required under subparagraph (c)(1) available for inspection, copying, or transcription by authorized representatives of HUD or the PHA and shall permit such representatives to interview employees during working hours on the job. If the Contractor or subcontractor fails to submit the required records or to make them available, HUD or its designee may, after written notice to the Contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment or denial of participation in HUD's programs pursuant to 24 CFR Part 24.

(d) **Compliance with Copeland Act requirements.** The Contractor shall comply with the requirements of 29 CFR Part 3 which are incorporated by reference in this contract.

(e) **Contract termination; debarment.** A breach of this contract clause may be grounds for termination of the contract and for debarment as a Contractor and a subcontractor as provided in 24 CFR Part 24.

(f) **Disputes concerning labor standards.**

(1) Disputes arising out of the labor standards provisions of paragraphs (a), (b), (c), and (e) of this clause shall be subject to the general disputes clause of this contract.

(2) Disputes arising out of the labor standards provisions of paragraphs (d), and (g) of this clause shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR Parts 5, 6, and 7. Disputes within the meaning of this paragraph (f)(2) include disputes between the Contractor (or any of its subcontractors) and the PHA, HUD, the U.S. Department of Labor, or the employees or their representatives.

(g) **Contract Work Hours and Safety Standards Act.** As used

in this paragraph, the terms “laborers” and “mechanics” include watchmen and guards.

(1) **Overtime requirements.** No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which the individual is employed on such work to work in excess of 40 hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of 40 hours in such workweek.

(2) **Violation; liability for unpaid wages; liquidated damages.** In the event of any violation of the provisions set forth in subparagraph (g)(1) of this clause, the Contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such Contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the provisions set forth in subparagraph (g)(1) of this clause, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of 40 hours without payment of the overtime wages required by provisions set forth in subparagraph (g)(1) of this clause.

(3) **Withholding for unpaid wages and liquidated damages.** HUD or its designee shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the Contractor or subcontractor under any such contract or any federal contract with the same prime Contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime Contractor such sums as may be determined to be necessary to satisfy any liabilities of such Contractor or subcontractor for unpaid wages and liquidated damages as provided in the provisions set forth in subparagraph (g)(2) of this clause.

(h) **Subcontracts.** The Contractor or subcontractor shall insert in any subcontracts all the provisions contained in this clause and also a clause requiring the subcontractors to include these provisions in any lower tier subcontracts. The prime Contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the provisions contained in this clause.

#### 48. Non-Federal Prevailing Wage Rates

Any prevailing wage rate (including basic hourly rate and any fringe benefits), determined under State or tribal law to be prevailing, with respect to any employee in any trade or position employed under the contract, is inapplicable to the contract and shall not be enforced against the Contractor or any subcontractor, with

respect to employees engaged under the contract whenever either of the following occurs:

- (1) Such non-Federal prevailing wage rate exceeds: (A) the applicable wage rate determined by the Secretary of Labor pursuant to the Davis-Bacon Act (40 U.S.C. 276a et seq) to be prevailing in the locality with respect to such trade; (B) an applicable apprentice wage rate based thereon specified in an apprenticeship program registered with the U.S. Department of Labor or a DOL-recognized State Apprenticeship Agency; or (C) an applicable trainee wage rate based thereon specified in a DOL-certified trainee program; or
- (2) Such non-Federal prevailing wage rate, exclusive of any fringe benefits, exceeds the applicable wage rate determined by the Secretary of HUD to be prevailing in the locality with respect to such trade or position.



STATE OF NEW JERSEY  
Department of Labor and Workforce Development  
Division of Wage and Hour Compliance - Public Contracts Section  
PO Box 389  
Trenton, NJ 08625-0389

### **PREVAILING WAGE RATE DETERMINATION**

The New Jersey Prevailing Wage Act (N.J.S.A. 34:11-56.25 et seq.) requires that the Department of Labor and Workforce Development establish and enforce a prevailing wage level for workers engaged in public works in order to safeguard their efficiency and general well being and to protect them as well as their employers from the effects of serious and unfair competition.

Prevailing wage rates are wage and fringe benefit rates based on the collective bargaining agreements established for a particular craft or trade in the locality in which the public work is performed. In New Jersey, these rates vary by county and by the type of work performed.

Applicable prevailing wage rates are those wages and fringe benefits in effect on the date the contract is awarded. All pre-determined rate increases listed at the time the contract is awarded must also be paid, beginning on the dates specified. Rates that have expired will remain in effect until new rates are posted.

#### **Prevailing Wage Rate**

The prevailing wage rate for each craft will list the effective date of the rate and the following information:

**W** = Wage Rate per Hour                      **B** = Fringe Benefit Rate per Hour\*                      **T** = Total Rate per Hour

\* Fringe benefits are an integral part of the prevailing wage rate. Employers not providing such benefits must pay the fringe benefit amount directly to the employee each payday. Employers providing benefits worth less than the fringe benefit amount must pay the balance directly to the employee each payday.

Unless otherwise stated in the Prevailing Wage Rate Determination, the fringe benefit rate for overtime hours remains at the straight time rate.

When the Overtime Notes in the Prevailing Wage Rate Determination state that the overtime rates are "inclusive of benefits," the benefit rate is increased by the same factor as the wage rate (i.e. multiplied by 1.5 for time and one-half, multiplied by 2 for double time, etc.).

#### **Apprentice Rate Schedule**

An "apprentice" is an individual who is registered with the United States Department of Labor - Office of Apprenticeship and enrolled in a certified apprenticeship program during the period in which they are working on the public works project.

The apprentice wage rate is a percentage of the journeyman wage rate, unless otherwise indicated. The apprentice benefit rate is the full journeyman benefit rate, unless otherwise indicated.

If there is no apprentice rate schedule listed, the individual must be paid at least the journeyman rate even if that individual is in a certified apprentice program for that trade.

If there is no ratio of apprentices to journeymen listed for a particular craft, then the ratio shall be one (1) apprentice to every four (4) journeymen.

## Comments/Notes

For each craft listed there will be comments/notes that cover the definition of the regular workday, shift differentials, overtime, recognized holidays, and any other relevant information.

## Public Works Contractor Registration

The Public Works Contractor Registration Act (N.J.S.A. 34:11-56.48, et seq.) requires that **all** contractors, subcontractors, or lower tier subcontractors who are working on or who bid on public works projects register with the Department of Labor and Workforce Development. Applications are available at [www.nj.gov/labor](http://www.nj.gov/labor) (click on Wage & Hour and then go to Registration & Permits).

Pursuant to N.J.S.A. 34:11-56.51:

*No contractor shall bid on any contract for public work as defined in section 2 of P.L.1963, c. 150 (C.34:11-56.26) unless the contractor is registered pursuant to this act. No contractor shall list a subcontractor in a bid proposal for the contract unless the subcontractor is registered pursuant to P.L.1999, c.238 (C.34:11-56.48 et seq.) at the time the bid is made. No contractor or subcontractor, including a subcontractor not listed in the bid proposal, shall engage in the performance of any public work subject to the contract, unless the contractor or subcontractor is registered pursuant to that act.*

## Snow Plowing

Snow plowing contracts are not subject to the New Jersey Prevailing Wage Act or the Public Works Contractor Registration Act.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Air Conditioning & Refrigeration - Service and Repair**

**PREVAILING WAGE RATE**

	03/01/24
Journeyman (Mechanic)	W45.23 B30.03 T75.26

**Craft: Air Conditioning & Refrigeration - Service and Repair**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
As Shown	1st Year	2nd Year	3rd Year	4th Year	5th Year	Wage = %	of Jnymn	Wage		
Wage and Bene	40%	50%	60%	70%	80%	Bene = %	of Jnymn	Bene		

**Ratio of Apprentices to Journeymen - 1:4**

**Craft: Air Conditioning & Refrigeration - Service and Repair**

**COMMENTS/NOTES**

THESE RATES MAY BE USED FOR THE FOLLOWING:

- Service/Repair/Maintenance Work to EXISTING facilities.
- Replacement or Installation of air conditioning and refrigeration equipment when the combined tonnage does not exceed 15 tons for refrigeration, or 25 tons for air conditioning.
- Replacement or Installation of "packaged" or "unitary" rooftop-type units when the combined tonnage of the units does not exceed 75 tons.

NOTE: These rates may NOT be used for any work in new construction (including work on new additions).

The regular workday shall consist of 8 hours, starting between 6:00 AM and 10:00 AM, Monday through Friday.

SHIFT DIFFERENTIALS:

- The second and third shifts shall be paid an additional 15% of the hourly rate.
- All shifts must run for a minimum of 5 consecutive days.

OVERTIME:

Hours worked in excess of 8 per day or before or after the regular workday, that are not shift work, and all hours on Saturday shall be paid at time and one-half the hourly rate, inclusive of benefits. All hours on Sunday and holidays shall be paid at double the hourly rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Boilermaker                      PREVAILING WAGE RATE**

	01/12/24
Foreman	W54.11 B47.08 T101.19
General Foreman	W56.11 B48.14 T104.25
Journeyman	W49.11 B45.31 T94.42

**Craft: Boilermaker                      APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
	65%	70%	75%	80%	85%	90%	95%			
1000 Hours										
Benefit =	38.33	39.30	40.32	41.31	42.32	43.32	44.30			

**Ratio of Apprentices to Journeymen - \***

\* 1 apprentice will be allowed for the first 5 journeymen, 1 apprentice for the next 10 journeymen and 1 apprentice for each succeeding 20 journeymen up to a maximum of 5 apprentices per contractor on any one job.

**Craft: Boilermaker                      COMMENTS/NOTES**

HIGH WORK: All apprentices working on the erection, repair, or dismantling of smoke stacks, standpipes, or water towers shall be paid the Journeyman rate.

The regular workday shall consist of 8 hours, between 8:00 AM and 4:30 PM.

**SHIFT DIFFERENTIALS:**

- The second shift shall work 7 1/2 hours and receive 8 hours pay, at a rate equal to the regular hourly rate plus 10%.
- The third shift shall work 7 hours and receive 8 hours pay, at a rate equal to the regular hourly rate plus 20%.
- For "Municipal Water Works" projects only, the following shall apply: Two, four day, 10 hour shifts may be worked at straight time Monday through Thursday. The day shift shall work four days, at 10 hours, for 10 hours pay. The second shift shall work four days, at nine and a half hours, for 10 hours pay, plus 10% the hourly rate for new work and .25 cents on repair work. Friday may be used as a make-up day at straight time, due to weather conditions, holiday or any other circumstances beyond the employer's control.

**OVERTIME:**

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays (except Labor Day) shall be paid at double the hourly rate. All hours on Labor Day shall be paid at four times the hourly rate.
- If any other craft employed by the same contractor, or a subcontractor thereof, receives double time in lieu of time and one-half, then the Boilermaker shall receive double time in lieu of time and one-half.
- For "Municipal Water Works" projects only, the following shall apply: Four 10 hour days may be worked Monday through Thursday at straight time. Friday may be used as a make-up day for a day lost to inclement weather, holiday or other conditions beyond the control of the employer. Overtime shall be paid for any hours that exceed 10 hours per day or 40 hours per week.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

RECOGNIZED HOLIDAYS: New Year's Day, Washington's Birthday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Boilermaker - Minor Repairs**

**PREVAILING WAGE RATE**

	01/12/24
Foreman	W35.88 B17.89 T53.77
General Foreman	W36.38 B17.89 T54.27
Mechanic	W34.38 B17.89 T52.27

**Craft: Boilermaker - Minor Repairs**

**COMMENTS/NOTES**

NOTE: These rates apply to MINOR REPAIR WORK ONLY (repair work in the field for which the contract amount does not exceed \$125,000.00), for boilers that do not produce electric or are not used in the heating of petroleum products.

**OVERTIME:**

Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays (except Labor Day) shall be paid at double the hourly rate. All hours on Labor Day shall be paid at four times the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Washington's Birthday, Good Friday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Thanksgiving Day, day after Thanksgiving, Christmas Day. Saturday holidays observed the preceding Friday, Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Bricklayer, Stone Mason**

**PREVAILING WAGE RATE**

	06/01/23
Deputy Foreman	W51.00 B36.28 T87.28
Foreman	W55.75 B36.28 T92.03
Journeyman	W48.00 B36.28 T84.28

**Craft: Bricklayer, Stone Mason**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
	40%	50%	55%	60%	65%	70%	75%	80%		
6 Months										
Benefits	4.00	5.00	5.50	6.00	24.29	26.00	27.73	29.43		

**Ratio of Apprentices to Journeymen - 1:5**

**Craft: Bricklayer, Stone Mason**

**COMMENTS/NOTES**

The regular workday shall consist of 8 hours, between 6:00 AM and 4:30 PM.

**SHIFT DIFFERENTIALS:**

- When a 2 shift schedule (including a day shift) is established, the first, or day shift, shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis, and receive the regular rate plus 10%, inclusive of benefits.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular hourly rate, the second shift shall receive the regular rate plus 10%, inclusive of benefits, and the third shift shall receive the regular rate plus 15%, inclusive of benefits.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis. The second shift shall receive the regular rate plus 10%, inclusive of benefits, and the third shift shall receive the regular rate plus 15%, inclusive of benefits.
- When an irregular shift must be established, this shift shall receive the regular rate plus 10%, inclusive of benefits.

**OVERTIME:**

- The first 2 hours in excess of 8 per day, or before or after the regular workday that are not shift work, Monday through Friday, shall be paid at time and one-half the regular rate, inclusive of benefits. Any additional overtime shall be paid at double the regular rate, inclusive of benefits. The first 10 hours on Saturday shall be paid at time and one-half the regular rate, inclusive of benefits. Any additional overtime shall be paid at double the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.
- Saturday may be used as a make-up day for hours lost to inclement weather.
- When Bricklayers/Stone Masons work on Saturday with Laborers, and no other crafts are working on the project for the day, benefits may be paid at straight time. If other crafts are present, the applicable overtime rate for benefits shall be paid.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Carpenter                      PREVAILING WAGE RATE**

	05/04/23
Foreman	W62.72 B37.56 T100.28
Journeyman	W54.54 B32.73 T87.27

**Craft: Carpenter                      APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
Yearly	40%	55%	65%	80%	90%					
Benefit	59% of	Appren	tice	Wage	for all	intervals	+ \$0.56			

**Ratio of Apprentices to Journeymen - 1:3**

For Solar installation- all work on solar projects that fall under the jurisdiction of the carpenters, and does not require an electrician, the ratio of Apprentices to Journeymen shall be 1:1.

**Craft: Carpenter                      COMMENTS/NOTES**

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES REGISTERED AS OF 5-1-19:

INTERVAL            PERIOD AND RATES  
 Yearly    40%    55%    65%    80%  
 Benefits    59% of apprentice wage rate for all intervals + \$0.56

**FOREMAN REQUIREMENTS:**

- When there are 2 or more Carpenters on a job, 1 shall be designated as a Foreman.
- When there are 21 or more Carpenters on a job, 2 shall be designated as Foremen.

The regular workday shall consist of 8 hours, starting between 6:00 AM and 9:00 AM.

**SHIFT DIFFERENTIALS:**

- When a 2 shift schedule (including a day shift) is established, the day shift shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis, and receive the regular rate plus 10%, inclusive of benefits.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular hourly rate, the second shift shall receive the regular rate plus 10% and the third shift shall receive the regular rate plus 15%, inclusive of benefits.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis. The second shift shall receive the regular rate plus 10% and the third shift shall receive the regular rate plus 15%, inclusive of benefits.
- When an irregular shift must be established, this shift shall receive the regular rate plus 15%, inclusive of benefits.
- All time worked before and after a regularly established shift shall be paid at the applicable overtime rate. When a portion of the regularly established shift works into Saturday, Sunday or a holiday, that time worked shall be paid at the established shift rate.

**OVERTIME:**

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
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**County - MONMOUTH**

- All hours in excess of 8 per day, or before or after an established shift that are not shift work, and all hours on Saturdays shall be paid at time and one-half the hourly rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the hourly rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for a day lost due to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans' Day may be substituted for the day after Thanksgiving.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Carpenter - Resilient Flooring**

**PREVAILING WAGE RATE**

	05/01/24
Foreman	W64.41 B38.64 T103.05
Journeyman	W56.01 B33.67 T89.68

**Craft: Carpenter - Resilient Flooring**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
Yearly	40%	55%	65%	80%	90%					
Benefit	59.25%	of	Appren	tice	Wage	for all	intervals	+ \$0.48		

**Ratio of Apprentices to Journeymen - \***

\* 1 apprentice shall be allowed to every 2 journeymen or major fraction thereof. No more than 3 apprentices on any one job or project.

**Craft: Carpenter - Resilient Flooring**

**COMMENTS/NOTES**

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES REGISTERED AS OF 5-1-19:

INTERVAL      PERIOD AND RATES  
 Yearly    40%    55%    65%    80%  
 Benefits   59.25% of apprentice wage rate for all intervals + \$0.48.

**FOREMAN REQUIREMENTS:**

- On any job where there are 4 or more Carpenters of Resilient Flooring, 1 must be designated a Foreman.

**FOR SYNTHETIC TURF INSTALLATION ONLY:**

- The rate shall be 90% of the wage and benefit rate.

The regular workday consists of 8 hours, starting between 6:00 AM and 9:00 AM.

**SHIFT DIFFERENTIALS:**

- When a 2 shift schedule (including a day shift) is established, the day shift, shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis, and receive the regular wage rate plus 10%.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular wage rate, the second shift shall receive the regular wage rate plus 10% and the third shift shall receive the regular wage rate plus 15%.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis. The second shift shall receive the regular wage rate plus 10% and the third shift shall receive the regular wage rate plus 15%.
- When an irregular shift must be established, this shift shall receive the regular rate plus 15%, inclusive of benefits.

**OVERTIME:**

- Hours in excess of 8 per day or 40 per week, or before or after the regular workday, Monday through Friday, shall be paid at time and one-half the wage rate. Saturday may be used as a make-up day, at straight time, up to 8 hours, for hours lost to reasons beyond the control of the employer, up to a total of 40 hours per week; hours in excess of 8 on Saturday shall

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

then be paid at time and one-half the wage rate. If Saturday is not a make-up day, all hours on Saturday shall be paid at time and one-half the wage rate. All hours on Sundays and holidays shall be paid at double the wage rate.

- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for hours lost to reasons beyond the control of the employer. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the wage rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday. Veterans' Day may be substituted for the day after Thanksgiving.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Carpenter-Residential Construction**

**PREVAILING WAGE RATE**

	07/19/23
Foreman	W52.62 B11.78 T64.40
Journeyman	W45.76 B10.97 T56.73

**Craft: Carpenter-Residential Construction**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
Yearly	40%	55%	65%	80%						
Benefit	12% of	Appren	tice	wage rate	for all	intervals	+ \$5.47			

**Ratio of Apprentices to Journeymen - 1:3**

**Craft: Carpenter-Residential Construction**

**COMMENTS/NOTES**

**FOREMAN REQUIREMENTS:**

- When there are 2 or more Carpenters on a job, 1 shall be designated as a Foreman.
- When there are 21 or more Carpenters on a job, 2 shall be designated as Foremen.

The regular workday shall consist of 8 hours, starting between 6:00 AM and 9:00 AM.

**RESIDENTIAL CONSTRUCTION:**

All residential construction (excluding commercial buildings and institutional housing), no more than four (4) floors in height above grade consisting of those projects involving the construction, alteration, or repair of town houses or row houses, single family homes, mobile homes, multi-family homes, mixed-use buildings that include commercial space on the first floor or below grade, and apartment buildings.

**SHIFT DIFFERENTIALS:**

- When a 2 shift schedule (including a day shift) is established, the day shift shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis, and receive the regular rate plus 10%, inclusive of benefits.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular hourly rate, the second shift shall receive the regular rate plus 10% and the third shift shall receive the regular rate plus 15%, inclusive of benefits.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis. The second shift shall receive the regular rate plus 10% and the third shift shall receive the regular rate plus 15%, inclusive of benefits.
- When an irregular shift must be established, this shift shall receive the regular rate plus 15%, inclusive of benefits.

**OVERTIME:**

- All hours in excess of 8 per day, or before or after an established shift that are not shift work, and all hours on Saturdays shall be paid at time and one-half the hourly rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the hourly rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for a

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
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**County - MONMOUTH**

day lost due to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans' Day may be substituted for the day after Thanksgiving.



**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Commercial Painter**

**PREVAILING WAGE RATE**

	05/02/23
Foreman	W48.02 B29.51 T77.53
General Foreman	W52.38 B29.51 T81.89
Journeyman	W43.65 B29.51 T73.16

**Craft: Commercial Painter**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
6 Months	40%	45%	55%	65%	70%	75%	80%	80%		
Benefits	8.85	8.85	11.25	11.25	12.30	12.30	15.10	15.10		

**Ratio of Apprentices to Journeymen - 1:4**

**Craft: Commercial Painter**

**COMMENTS/NOTES**

\* Commercial Painters perform work on all commercial structures such as offices, schools, hotels, shopping malls, restaurants, condominiums, etc.

Spraying, sandblasting, lead abatement work on commercial buildings, work performed above 3 stories or 30 feet in height, or using swing scaffolds requires an additional 10% of the wage rate.

**FOREMEN REQUIREMENTS:**

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

**SHIFT DIFFERENTIALS:**

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

**OVERTIME:**

- Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.
- Four 10-hour days may be worked, at straight time, Monday through Friday.

**RECOGNIZED HOLIDAYS:** New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, General Election Day,

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
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**County - MONMOUTH**

Veterans' Day, Thanksgiving Day, Christmas Day.



**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Dockbuilder/Pile Driver**

**PREVAILING WAGE RATE**

	05/01/24
Foreman	W60.93 B52.74 T113.67
Foreman (Concrete Form Work)	W59.82 B39.39 T99.21
Journeyman	W52.98 B52.74 T105.72
Journeyman (Concrete Form Work)	W52.02 B39.39 T91.41

**Craft: Dockbuilder/Pile Driver**

**APPRENTICE RATE SCHEDULE**

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
Yearly	21.19	26.49	34.44	42.38						
Benefits	34.70	for all	intervals							

**Ratio of Apprentices to Journeymen - \***

\* When there are 4 or fewer Dockbuilders/Pile Drivers on a job, no more than 1 may be an apprentice. When there are 5 or more Dockbuilders/Pile Drivers, there may be 1 apprentice for every 5 Dockbuilders/Pile Drivers.

**Craft: Dockbuilder/Pile Driver**

**COMMENTS/NOTES**

APPRENTICE RATE SCHEDULE FOR CONCRETE FORM WORK ONLY:

INTERVAL	PERIOD AND RATES			
Yearly	20.81	26.01	33.81	41.62
Benefits	26.73	for all	intervals	

**CREOSOTE HANDLING:**

When handling creosote products on land piling, floating marine construction, and construction of wharves, the worker shall receive an additional \$0.25 per hour.

**HAZARDOUS WASTE WORK:**

- Hazardous waste removal work on a state or federally designated hazardous waste site where Level A, B, or C personal protection is required: an additional 20% of the hourly rate, per hour.
- Hazardous waste removal work in Level D, or where personal protection is not required: an additional \$1.00 per hour.

**CERTIFIED WELDER:** When required on the job by the project owner, a Certified Welder shall receive an additional \$1.00 per hour.

**FOREMAN REQUIREMENTS:**

The first Dockbuilder/Pile Driver on the job shall be designated a Foreman.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**SHIFT DIFFERENTIAL:**

- When a 2 shift schedule (including a day shift) is established, the day shift shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis and receive an additional 113% of the wage rate.
- When a three shift schedule is established, all three shifts shall be established on an 8 hour basis, but the second and third shifts shall receive an additional 113% of the wage rate.
- Benefits on shift work shall be paid at the straight-time rate.

**OVERTIME:**

Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.

**RECOGNIZED HOLIDAYS:** New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Presidential Election Day, Thanksgiving Day, Christmas Day. Veterans' Day may be switched with the day after Thanksgiving.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Drywall Finisher**

**PREVAILING WAGE RATE**

	05/02/23
Foreman	W47.17 B29.54 T76.71
General Foreman	W49.31 B29.54 T78.85
Journeyman	W42.88 B29.54 T72.42

**Craft: Drywall Finisher**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
	40%	50%		60%	70%		80%	90%		
6 Months										
Benefits	Intervals	1 to 2 =	11.45	Intervals	3 to 4 =	14.33	Intervals	5 to 6 =	18.04	

**Ratio of Apprentices to Journeymen - 1:4**

**Craft: Drywall Finisher**

**COMMENTS/NOTES**

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

**SHIFT DIFFERENTIALS:**

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, and the third shift shall receive 8 hours pay for 7 hours of work.
- Shift work must run for a minimum of 5 consecutive workdays.

**OVERTIME:**

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.

**RECOGNIZED HOLIDAYS:** New Year's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Electrician**

**PREVAILING WAGE RATE**

	01/01/24	06/03/24	06/02/25	06/01/26
Assistant General Foreman	W66.93	W69.67	W72.04	W74.47
	B51.20	B52.61	B54.39	B56.23
	T118.13	T122.28	T126.43	T130.70
Foreman (2 to 4 Journeymen)	W61.99	W64.53	W66.73	W68.98
	B47.43	B48.73	B50.37	B52.08
	T109.42	T113.26	T117.10	T121.06
Foreman (5 to 10 Journeymen)	W63.09	W65.68	W67.91	W70.20
	B48.26	B49.58	B51.26	B53.00
	T111.35	T115.26	T119.17	T123.20
General Foreman (101+ Journeymen)	W76.80	W79.95	W82.67	W85.46
	B58.76	B60.37	B62.41	B64.52
	T135.56	T140.32	T145.08	T149.98
General Foreman (24 to 100 Journeymen)	W71.32	W74.24	W76.76	W79.35
	B54.56	B56.06	B57.96	B59.92
	T125.88	T130.30	T134.72	T139.27
Journeyman, Cable Splicer	W54.86	W57.11	W59.05	W61.04
	B41.97	B43.12	B44.58	B46.09
	T96.83	T100.23	T103.63	T107.13
Lead Foreman (11 to 23 Journeymen)	W65.83	W68.53	W70.86	W73.25
	B50.37	B51.75	B53.50	B55.31
	T116.20	T120.28	T124.36	T128.56
Plan Reader	W59.25	W61.68	W63.77	W65.92
	B45.33	B46.57	B48.15	B49.78
	T104.58	T108.25	T111.92	T115.70

**Craft: Electrician**

**APPRENTICE RATE SCHEDULE**

<b>INTERVAL</b>	<b>PERIOD AND RATES</b>									
	30%	40%	50%	60%	80%					
Yearly										
Benefits	12.59	16.79	20.99	25.18	33.57					

**Ratio of Apprentices to Journeymen - 2:3**

**Craft: Electrician**

**COMMENTS/NOTES**

APPRENTICE RATE SCHEDULE AS OF 6-3-24:

INTERVAL	PERIOD AND RATES				
Yearly	30%	40%	50%	60%	80%
Benefits	12.94	17.25	21.56	25.87	34.49

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**APPRENTICE RATE SCHEDULE AS OF 6-2-25:**

INTERVAL	PERIOD AND RATES				
Yearly	30%	40%	50%	60%	80%
Benefits	13.37	17.83	22.29	26.75	35.66

**APPRENTICE RATE SCHEDULE AS OF 6-1-26:**

INTERVAL	PERIOD AND RATES				
Yearly	30%	40%	50%	60%	80%
Benefits	13.83	18.43	23.05	27.65	36.87

**THESE RATES ALSO APPLY TO THE FOLLOWING:**

- All burglar and fire alarm work.
- All fiber optic work.
- Teledata work in new construction (including additions).
- Teledata work involving 16 instruments or more.

**FOREMAN REQUIREMENTS (Foreman counts, do not include apprentices):**

- 2 to 4 Journeymen- 1 must be a Foreman (2 to 4 JW).
  - 5 to 11 Journeymen- 1 must be a Foreman (5 to 10 JW).
  - 12 to 22 workers- 1 must be a Lead Foreman and 1 must be a Foreman (5 to 10 JW).
  - 23 workers- 1 must be a Lead Foremen and 2 must be a Foreman (5 to 10 JW).
  - 24 to 34 workers- 1 must be a General Foreman (24 to 100) and 3 must be a Foreman (5 to 10 JW).
  - 35 to 36 workers- 1 must be a General Foreman (24 to 100) and 4 must be a Foreman (5 to 10 JW).
  - 37 to 46 Journeymen- 1 must be a General Foreman (24 to 100), 1 must be an Assistant General Foremen and 4 must be a Foreman (5 to 10 JW)
  - For each additional 10 Journeymen- 1 additional Foreman (5 to 10) shall be added.
  - For each additional 40 Journeymen- 1 additional Assistant General Foreman shall be added.
  - 101+ Journeymen- 1 must be a General Foreman (101+).
- The regular workday shall be 8 hours, between the hours of 7:00 am and 4:30 pm.

**HEIGHT WORK:**

- Work performed 50 feet above ground or floor - additional \$2.00 per hour.
- Work on radio and transmission towers, and smoke stacks: +25% of the Total Rate.

**SHIFT DIFFERENTIALS:**

- Shift work must run for a minimum of 5 consecutive workdays.
- 2nd Shift (4:30 PM to 12:30 AM): 8 hrs. pay for 7.5 hrs. work + an additional 10% of the regular rate, per hour, inclusive of benefits.
- 3rd Shift (12:30 AM to 8:00 AM): 8 hrs. pay for 7 hrs. work + an additional 15% of the regular rate, per hour, inclusive of benefits.

**OVERTIME:**

Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturday shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sunday and holidays shall be paid at double the regular rate, inclusive of benefits.

**RECOGNIZED HOLIDAYS:** New Year's Day, Presidents Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Saturday holidays will be observed the preceding Friday. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Electrician - Teledata (15 Instruments and Less)**

**PREVAILING WAGE RATE**

	01/01/24	12/02/24
Journeyman Technician (1-2 workers on job)	W51.02 B23.84 T74.86	W53.04 B23.62 T76.66
Master Tech./Gen. Foreman (26+ workers on job)	W66.33 B30.99 T97.32	W68.95 B30.71 T99.66
Senior Tech./Asst. Gen. Foreman (16-25 workers on job)	W60.71 B28.37 T89.08	W63.12 B28.11 T91.23
Technician A/Foreman (9-15 workers on job)	W58.16 B27.18 T85.34	W60.46 B26.93 T87.39
Technician B/Foreman (4-8 workers on job)	W55.61 B25.99 T81.60	W57.81 B25.75 T83.56
Technician C/Foreman (3 workers on job)	W53.06 B24.79 T77.85	W55.16 B24.57 T79.73

**Craft: Electrician - Teledata (15 Instruments and Less)**

**APPRENTICE RATE SCHEDULE**

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
* 6 Months	35%	35%	40%	43%	48%	54%	61%	67%	74%	81%
Benefit	8.22	8.22	9.39	10.10	11.27	12.68	14.32	15.74	17.39	19.03

**Ratio of Apprentices to Journeymen - 2:3**

**Craft: Electrician - Teledata (15 Instruments and Less)**

**COMMENTS/NOTES**

APPRENTICE RATE SCHEDULE AS OF 1-1-24

INTERVAL	PERIOD AND RATES									
6 Months	35%	35%	40%	43%	48%	54%	61%	67%	74%	81%
Benefit	8.34	8.34	9.53	10.25	11.44	12.87	14.54	15.98	17.65	19.32

APPRENTICE RATE SCHEDULE AS OF 12-2-24

INTERVAL	PERIOD AND RATES									
6 Months	35%	35%	40%	43%	48%	54%	61%	67%	74%	81%
Benefit	8.27	8.27	9.44	10.15	11.34	12.76	14.41	15.83	17.48	19.13

\* The apprentice wage rate is paid at the percentage of the Journeyman Technician wage rate .

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**NOTES:**

- 1) These rates are for service, maintenance, moves and/or changes affecting 15 instruments or less. These rates may NOT be used for any new construction or any fiber optic work.
- 2) The number of workers on the jobsite is the determining factor for which Foreman category applies.

HEIGHT WORK (work performed 50 feet above ground/floor): +\$2.00 per hr.

The regular workday consists of 8 hours between 7:00 AM and 5:30 PM.

**SHIFT DIFFERENTIALS:**

- Shift work must run for a minimum of 5 consecutive workdays.
- 2nd Shift (4:30 PM to 12:30 AM): 8 hrs. pay for 7.5 hrs. work + an additional 10% of the regular rate, per hour, inclusive of benefits
- 3rd Shift (12:30 AM to 8:00 AM): 8 hrs. pay for 7 hrs. work + an additional 15% of the regular rate, per hour, inclusive of benefits

**OVERTIME:**

- Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, that are not shift work, and the first 10 hours on Saturday shall be paid at time and one-half the regular rate, inclusive of benefits. Hours in excess of 10 on Saturday and all hours on Sunday and holidays shall be paid at double the regular rate, inclusive of benefits.
- Four 10-hour days may be worked Monday thru Friday, between the hours of 7:00 AM and 5:30 PM. A make-up day may be used for the day not being worked during the four 10-hour day schedule if a holiday occurs during the week or for any other conditions that prevent an employee from working the four 10-hour day schedule.

**RECOGNIZED HOLIDAYS:** New Year's Day, Presidents Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday. Saturday holidays will be observed the preceding Friday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Electrician - Teledata (16 Instruments & More)**

**PREVAILING WAGE RATE**

See "Electrician" Rates

**Craft: Electrician - Teledata (16 Instruments & More)**

**COMMENTS/NOTES**

\*\*\*See ELECTRICIAN Rates\*\*\*

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Electrician- Outside Commercial**

**PREVAILING WAGE RATE**

	01/01/24	06/03/24	06/02/25	06/01/26
Assistant General Foreman	W67.22 B50.91 T118.13	W69.98 B52.30 T122.28	W72.35 B54.08 T126.43	W74.79 B55.91 T130.70
Cable Splicer & Equipment Operator	W55.10 B41.73 T96.83	W57.36 B42.87 T100.23	W59.30 B44.33 T103.63	W61.30 B45.83 T107.13
Foreman (2 to 4 Journeymen)	W62.26 B47.16 T109.42	W64.82 B48.44 T113.26	W67.01 B50.09 T117.10	W69.27 B51.79 T121.06
Foreman (5 to 10 Journeymen)	W0.00 B0.00 T0.00	W65.96 B49.30 T115.26	W68.20 B50.97 T119.17	W70.50 B52.70 T123.20
Foreman- (5-10 Journeymen)	W63.36 B47.99 T111.35	W0.00 B0.00 T0.00	W0.00 B0.00 T0.00	W0.00 B0.00 T0.00
General Foreman (101+ Journeymen)	W77.14 B58.42 T135.56	W80.30 B60.02 T140.32	W83.02 B62.06 T145.08	W85.82 B64.16 T149.98
General Foreman (24 to 100 Journeymen)	W71.63 B54.25 T125.88	W74.57 B55.73 T130.30	W77.09 B57.63 T134.72	W79.69 B59.58 T139.27
Groundman	W38.57 B29.21 T67.78	W40.15 B30.01 T70.16	W41.51 B31.03 T72.54	W42.91 B32.08 T74.99
Journeyman Lineman	W55.10 B41.73 T96.83	W57.36 B42.87 T100.23	W59.30 B44.33 T103.63	W61.30 B45.83 T107.13
Lead Foreman (11 to 23 Journeymen)	W66.12 B50.08 T116.20	W68.83 B51.45 T120.28	W71.16 B53.20 T124.36	W73.56 B55.00 T128.56
Plan Reader	W59.51 B45.07 T104.58	W61.95 B46.30 T108.25	W64.04 B47.88 T111.92	W66.20 B49.50 T115.70

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Electrician- Outside Commercial**

**APPRENTICE RATE SCHEDULE**

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
Yearly	60%	65%	70%	75%	80%	85%	90%			
Benefits	25.04	27.13	29.21	31.30	33.28	35.48	37.56			

**Ratio of Apprentices to Journeymen - 2:3**

**Craft: Electrician- Outside Commercial**

**COMMENTS/NOTES**

APPRENTICE RATE SCHEDULE AS OF 6-3-24:

INTERVAL	PERIOD AND RATES							
Yearly	30%	40%	50%	60%	80%	85%	90%	
Benefits	25.72	27.87	30.01	32.15	34.29	36.44	38.59	

APPRENTICE RATE SCHEDULE AS OF 6-2-25:

INTERVAL	PERIOD AND RATES							
Yearly	30%	40%	50%	60%	80%	85%	90%	
Benefits	26.60	28.81	31.03	33.24	35.46	37.68	39.90	

APPRENTICE RATE SCHEDULE AS OF 6-1-26:

INTERVAL	PERIOD AND RATES							
Yearly	30%	40%	50%	60%	80%	85%	90%	
Benefits	27.50	29.78	32.08	34.37	36.66	38.95	41.24	

\* FOR UTILITY WORK PLEASE SEE STATEWIDE RATES

FOREMAN REQUIREMENTS (Foreman counts, do not include apprentices):

- 2 to 4 Journeymen Lineman- 1 must be a Foreman (2 to 4 JL).
- 5 to 11 Journeymen Lineman- 1 must be a Foreman (5 to 10 JL).
- 12 to 22 Journeymen Lineman- 1 must be a Lead Foreman and 1 must be a Foreman (5 to 10 JL).
- 23 Journeyman Lineman- 1 must be a Lead Foremen and 2 must be a Foreman (5 to 10 JL).
- 24 to 34 Journeyman Lineman- 1 must be a General Foreman (24 to 100) and 3 must be a Foreman (5 to 10 JL).
- 35 to 36 workers- 1 must be a General Foreman (24 to 100) and 4 must be a Foreman (5 to 10 JL).
- 37 to 46 Journeymen Lineman- 1 must be a General Foreman (24 to 100), 1 must be and Assistant General Foreman and 4 must be a Foreman (5 to 10 JL).
- For each additional 10 Journeymen- 1 additional Foreman (5 to 10) shall be added.
- For each additional 40 Journeymen- 1 additional Assistant General Foreman shall be added.
- 101+ Journeymen- 1 must be a General Foreman (101+).

HAZMAT WORK:

- Work is to be performed by a Journeyman Lineman who is qualified to perform HAZMAT work- additional 10% per hour.

SHIFT DIFFERENTIALS:

- 2nd Shift (4:30 PM to 12:30 AM): 8 hrs. pay for 7.5 hrs. work + an additional 10% of the regular rate, inclusive of benefits.
- 3rd Shift (12:30 AM to 8:00 AM): 8 hrs. pay for 7 hrs. work + an additional 15% of the regular rate per hour, inclusive benefits.

OVERTIME:

Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturday shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sunday and holidays shall be paid at double the regular rate, inclusive of benefits.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

RECOGNIZED HOLIDAYS: New Year's Day, Presidents Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Saturday holidays will be observed the preceding Friday. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Electrician-Solar**

**PREVAILING WAGE RATE**

	01/01/24	06/03/24	06/02/25	06/01/26
Assistant General	W66.93	W69.67	W72.04	W74.47
Foreman (66+ Journeymen)	B51.20 T118.13	B52.61 T122.28	B54.39 T126.43	B56.23 T130.70
Foreman (1 to 16 Journeymen)	W63.09 B48.26 T111.35	W65.68 B49.58 T115.26	W67.91 B51.26 T119.17	W70.20 B53.00 T123.20
General Foreman (101+ Journeymen)	W76.80 B58.76 T135.56	W79.95 B60.37 T140.32	W82.67 B62.41 T145.08	W85.46 B64.52 T149.98
General Foreman (33 to 100 Journeymen)	W71.32 B54.56 T125.88	W74.24 B56.06 T130.30	W76.76 B57.96 T134.72	W79.35 B59.92 T139.27
Journeyman, Cable Splicer	W54.86 B41.97 T96.83	W57.11 B43.12 T100.23	W59.05 B44.58 T103.63	W61.04 B46.09 T107.13
Solar Lead Foreman (17 to 32 Journeymen)	W65.83 B50.37 T116.20	W68.53 B51.75 T120.28	W70.86 B53.50 T124.36	W73.25 B55.31 T128.56

**Craft: Electrician-Solar**

**APPRENTICE RATE SCHEDULE**

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
Yearly	30%	40%	50%	60%	80%					
Benefits	12.59	16.79	20.99	25.18	33.57					

**Ratio of Apprentices to Journeymen - 2:3**

**Craft: Electrician-Solar**

**COMMENTS/NOTES**

\* These rates apply to all aspects of a SOLAR project.

APPRENTICE RATE SCHEDULE AS OF 6-3-24:

INTERVAL	PERIOD AND RATES				
Yearly	30%	40%	50%	60%	80%
Benefits	12.94	17.25	21.56	25.87	34.49

APPRENTICE RATE SCHEDULE AS OF 6-2-25:

INTERVAL	PERIOD AND RATES				
Yearly	30%	40%	50%	60%	80%
Benefits	13.37	17.83	22.29	26.75	35.66

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**APPRENTICE RATE SCHEDULE AS OF 6-1-26:**

INTERVAL	PERIOD AND RATES				
Yearly	30%	40%	50%	60%	80%
Benefits	13.83	18.43	23.05	27.65	36.87

**FOREMAN REQUIREMENTS (Foreman counts, do not include apprentices):**

- 1 to 6 Journeymen - 1 must be a Foreman (1 to 16 JW).
  - 17 to 32 Journeymen- 1 must be a Solar Lead Foreman and 1 must be a Foreman (1 to 16 JW).
  - 33 Journeymen- 1 must be a General Foreman (33 to 100) and 2 must be a Foreman (1 to 16 JW).
  - 34 to 49 Journeymen- 1 must be a General Foreman (33 to 100) and 3 must be a Foreman (1 to 16 JW).
  - 50 to 66 Journeymen- 1 must be a General Foreman (33 to 100), 1 must be an Assistant General Foreman and 4 must be a Foreman (1 to 16 JW).
  - 67 to 82 Journeymen- 1 must be a General Foreman (33 to 100), 1 must be an Assistant General Foreman and 5 must be a Foreman (1 to 16 JW).
  - For each additional 16 Journeymen- 1 additional Foreman (1 to 16) shall be added.
  - For each additional 40 Journeyman- 1 additional Assistant General Foreman shall be added.
  - 101+ Journeymen- 1 must be a General Foreman (101+).
- The regular workday shall be 8 hours, between the hours of 7:00 am and 4:30 pm.

**HEIGHT WORK:**

- Work performed 50 feet above ground or floor - additional \$2.00 per hour.
- Work on radio and transmission towers, and smoke stacks: +25% of the Total Rate.

**SHIFT DIFFERENTIALS:**

- Shift work must run for a minimum of 5 consecutive workdays.
- 2nd Shift (4:30 PM to 12:30 AM): 8 hrs. pay for 7.5 hrs. work + an additional 10% of the regular rate, per hour, inclusive of benefits.
- 3rd Shift (12:30 AM to 8:00 AM): 8 hrs. pay for 7 hrs. work + an additional 15% of the regular rate, per hour, inclusive of benefits.

**OVERTIME:**

Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturday shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sunday and holidays shall be paid at double the regular rate, inclusive of benefits.

**RECOGNIZED HOLIDAYS:** New Year's Day, Presidents Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holidays will be observed the preceding Friday. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Electrician-Utility Work (North)**

**PREVAILING WAGE RATE**

Rates are located in the "Statewide" rate package

**Craft: Electrician-Utility Work (North)**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
* 6 Months	60%	65%	70%	75%	80%	85%	90%			
Benefits	69% of	Appren	tice	Wage	Rate	for all	intervals			

**Craft: Electrician-Utility Work (North)**

**COMMENTS/NOTES**

Electrician-Utility Work (North) rates are located in the "Statewide" rate package.

\* The apprentice wage rate is paid at the percentage of the Journeyman Lineman wage rate located in the "Statewide" rate package.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Electrician-Utility Work (South)**

**PREVAILING WAGE RATE**

Rates are located in the "Statewide" rate package

**Craft: Electrician-Utility Work (South)**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
6 Months	32.52	35.23	37.94	40.65	43.36	46.07	48.78			
Benefits	28.97	30.65	32.31	33.98	35.69	37.36	39.02			

**Craft: Electrician-Utility Work (South)**

**COMMENTS/NOTES**

Electrician-Utility Work (South) rates are located in the "Statewide" rate package.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Elevator Constructor**

**PREVAILING WAGE RATE**

	01/01/24
Helper-Over 5 Years	W48.28 B43.04 T91.32
Helper-Under 5 Years	W48.28 B42.08 T90.36
Mechanic (Journeyman) over 5 years	W68.97 B44.70 T113.67
Mechanic (Journeyman) under 5 years	W68.97 B43.32 T112.29
Mechanic in Charge (Foreman) over 5 years	W77.59 B45.39 T122.98
Mechanic in Charge (Foreman) under 5 years	W77.59 B43.84 T121.43
Probationary Helper (1st 6 months)	W34.49 B41.25 T75.74

**Craft: Elevator Constructor**

**APPRENTICE RATE SCHEDULE**

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
Yearly	55%	65%	70%	80%						
Benefits	full	journeyma	benefit	rate for	all	intervals				

**Ratio of Apprentices to Journeymen - \***

\* Total number of helpers and apprentices shall not exceed the number of mechanics on the job except where 2 teams are working, 1 additional helper or apprentice may be employed for first 2 teams and an extra helper or apprentice for each additional 3 teams. Further, the employer may use as many helpers or apprentices as needed under the direction of a mechanic in wrecking old plants, handling and hoisting material, and on foundation work. When replacing cables on existing elevators, employer may use 2 helpers or apprentices to 1 mechanic.

**Craft: Elevator Constructor**

**COMMENTS/NOTES**

**SHIFT DIFFERENTIALS:**

- 2nd Shift (4:30 PM to 12:30 AM) shall be established on the basis of 7.5 hours of work for 8 hours of pay, plus an additional 10% per hour.
- 3rd Shift (12:30 AM to 8:00 AM) shall be established on the basis of 7 hours of work for 8 hours of pay, plus an additional 15% per hour.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**OVERTIME:**

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays, Sundays, and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday to Thursday or Tuesday to Friday, at straight time. When working a 4-10 hour day schedule, all hours worked on a day other than the days established for the 4-10 hour schedule shall be paid at double the hourly rate.

**RECOGNIZED HOLIDAYS:** New Year's Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day and day after, Christmas Day. Saturday holidays observed the preceding Friday, Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Glazier                      PREVAILING WAGE RATE**

	06/20/23
* Leadman	W52.53 B30.38 T82.91
Foreman	W54.53 B30.62 T85.15
General Foreman	W56.53 B30.86 T87.39
Journeyman	W50.53 B30.14 T80.67

**Craft: Glazier                      APPRENTICE RATE SCHEDULE**

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
	50%	55%	60%	65%	70%	75%	80%	90%		
6 Months										
Benefits	10.16	10.16	12.85	12.85	16.15	16.15	17.64	17.64		

**Ratio of Apprentices to Journeymen - 1:4**

**Craft: Glazier                      COMMENTS/NOTES**

Hazard/Height Pay: +\$1.00 per hour

\* When there are three (3) men working on a jobsite for three (3) days or longer, 1 Journeyman may be designated as a Leadman for the duration of the job, provided he has his OSHA certification.

**FOREMAN REQUIREMENTS:**

- When there are 4 or more Glaziers on a job, 1 must be designated a Foreman.
- When there are 15 or more Glaziers on a job, 1 must be designated a General Foreman.

The regular workday shall consist of 8 hours, between 7:00 AM and 5:30 PM, Monday to Friday.

**SHIFT DIFFERENTIALS:**

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, and the third shift shall receive 8 hours pay for 7 hours of work.

**OVERTIME:**

Hours in excess of 8 per day, or before or after the regular workday Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

rate.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, General Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Heat & Frost Insulator**

**PREVAILING WAGE RATE**

	09/19/23
Foreman	W60.97 B37.97 T98.94
General Foreman	W63.31 B39.08 T102.39
Journeyman	W58.69 B37.41 T96.10

**Craft: Heat & Frost Insulator**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
Yearly	27.51	32.64	39.31	45.91						
Benefits	21.73	25.78	28.63	31.61						

**Ratio of Apprentices to Journeymen - 1:3**

**Craft: Heat & Frost Insulator**

**COMMENTS/NOTES**

NOTE: These rates apply to the installing of insulation on hot and cold mechanical systems.

The regular workday shall be 8 hours between 7:00 AM and 3:30 PM. In addition, the regular workday may also be 8 hours between 6:00 AM and 2:30 PM.

SHIFT DIFFERENTIAL:

- Shift work must run for a minimum of 5 consecutive workdays.
- Second Shift shall work 7.5 hours and receive 8 hours pay, at the regular rate, plus 25% per hour.
- Third Shift shall work 7 hours and receive 8 hours pay, at the regular rate, plus 30% per hour.

OVERTIME:

The first 2 hours in excess of 8 per day, hours outside of the regular workday Monday through Friday that are not shift work, and the first 10 hours on Saturday, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours in excess of 10 per day, and all hours on Sunday and holidays (except Labor Day) shall be paid at double the regular rate, inclusive of benefits. All hours on Labor Day shall be paid at triple the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Presidential Election Day, Thanksgiving Day and Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Heat & Frost Insulator - Asbestos Worker**

**PREVAILING WAGE RATE**

	09/19/23
Asbestos Helper	W36.89
Abatement	B24.92 T61.81

**Craft: Heat & Frost Insulator - Asbestos Worker**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
	SEE	HEAT &	FROST	INSULAT OR						

**Ratio of Apprentices to Journeymen - 1:3**

**Craft: Heat & Frost Insulator - Asbestos Worker**

**COMMENTS/NOTES**

NOTE: These rates apply only to the removal of insulation materials/asbestos from mechanical systems, including containment erection and demolition, and placing material in appropriate containers.

The regular workday shall be 8 hours between 7:00 AM and 3:30 PM. In addition, the regular workday may also be 8 hours between 6:00 AM and 2:30 PM.

**SHIFT DIFFERENTIALS:**

- Shift work must run for a minimum of 5 consecutive workdays.
- The second shift shall work 7.5 hours and receive 8 hours pay at the regular rate, plus 25% per hour.
- The third shift shall work 7 hours and receive 8 hours pay at the regular rate, plus 30% per hour.

**OVERTIME:** The first 2 hours in excess of 8 per day, hours outside of the regular workday Monday through Friday that are not shift work, and the first 10 hours on Saturday, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours in excess of 10 per day, and all hours on Sunday and holidays (except Labor Day) shall be paid at double the regular rate, inclusive of benefits. All hours on Labor Day shall be paid at triple the regular rate, inclusive of benefits.

**RECOGNIZED HOLIDAYS:** New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Presidential Election Day, Thanksgiving Day and Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Industrial Painter- Bridges**

**PREVAILING WAGE RATE**

	03/21/24	02/01/25	02/01/26
Foreman	W64.29 B35.91 T100.20	W0.00 B0.00 T102.20	W0.00 B0.00 T104.20
General Foreman	W66.79 B35.91 T102.70	W0.00 B0.00 T104.70	W0.00 B0.00 T106.70
Journeyman	W59.29 B35.91 T95.20	W0.00 B0.00 T97.20	W0.00 B0.00 T99.20

**Craft: Industrial Painter- Bridges**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
	50%	70%	90%							
6 Months										
Benefits	14.10	21.26	27.88							

**Ratio of Apprentices to Journeymen - 1:3**

**Craft: Industrial Painter- Bridges**

**COMMENTS/NOTES**

\* Industrial Painters perform work on all industrial structures, such as bridges.

These rates apply to: All bridges that span waterways, roadways, railways and canyons. All tunnels, overpasses, viaducts and all appurtenances.

**FOREMEN REQUIREMENTS:**

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

**SHIFT DIFFERENTIALS:**

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

**OVERTIME:**

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays and Sundays shall be paid at time and one-half the regular rate. All hours on holidays shall be paid at double the regular rate, except Veterans Day, which shall be paid at time and one-half the regular rate.
- During a regular work week schedule, Saturday may be used as a make-up day lost to inclement weather, paid at the regular rate.
- Four 10-hour days may be worked, at the regular rate, Monday through Thursday. When the four 10-hour day schedule is used, the 11th and 12th hours shall be paid at time and one-half the regular rate. After the 12th hour, a worker shall be paid at double the regular rate. Friday may be used as a make-up day lost to inclement weather, paid at the regular rate.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Industrial Painter- Structural Steel**

**PREVAILING WAGE RATE**

	03/21/24	02/01/25	02/01/26
Foreman	W53.03 B33.56 T86.59	W0.00 B0.00 T88.59	W0.00 B0.00 T90.59
General Foreman	W55.53 B33.56 T89.09	W0.00 B0.00 T91.09	W0.00 B0.00 T93.09
Journeyman	W48.03 B33.56 T81.59	W0.00 B0.00 T83.59	W0.00 B0.00 T85.59

**Craft: Industrial Painter- Structural Steel**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
	SEE	INDUST	RIAL	PAINTER	BRIDGES					

**Ratio of Apprentices to Journeymen - 1:3**

**Craft: Industrial Painter- Structural Steel**

**COMMENTS/NOTES**

\* Industrial Painters perform work on all industrial structures, such as water tanks, waste water facilities, refineries, any structural steel work, etc.

These rates apply to: All work in power plants (any aspect). On steeples, on dams, on hangers, transformers, substations, on all open steel, in refineries, tank farms, water/sewerage treatment facilities and on pipelines.

**FOREMEN REQUIREMENTS:**

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

**SHIFT DIFFERENTIALS:**

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

**OVERTIME:**

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays and Sundays shall be paid at time and one-half the regular rate. All hours on holidays shall be paid at double the regular rate, except for Veterans Day, which shall be paid at time and one-half the regular rate.
- During the regular work week schedule, Saturday may be used to make-up a day lost to inclement weather, paid at the regular rate.
- Four 10-hour days may be worked, at the regular rate, Monday through Thursday. When the four 10-hour day schedule is used, the 11th and 12th hours shall be paid at time and one-half the regular rate. After the 12th hour, a worker shall be paid at double the regular rate. Friday may be used as a make-up day lost to inclement weather, paid at the regular rate.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Industrial Painter- Water Tanks**

**PREVAILING WAGE RATE**

	03/21/24	02/01/25	02/01/26
Foreman	W54.08 B33.21 T87.29	W0.00 B0.00 T89.29	W0.00 B0.00 T91.29
General Foreman	W56.58 B33.21 T89.79	W0.00 B0.00 T91.79	W0.00 B0.00 T93.79
Journeyman	W49.08 B33.21 T82.29	W0.00 B0.00 T84.29	W0.00 B0.00 T86.29

**Craft: Industrial Painter- Water Tanks**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
	6 Months	50%	70%	90%						
Benefits	14.10	21.26	27.88							

**Ratio of Apprentices to Journeymen - 1:3**

**Craft: Industrial Painter- Water Tanks**

**COMMENTS/NOTES**

\* Industrial Painters perform work on all industrial structures, such as water tanks, waste water facilities, refineries, any structural steel work, etc.

These rates apply to: All new and repaint water tanks (interior and exterior).

**FOREMEN REQUIREMENTS:**

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

**SHIFT DIFFERENTIALS:**

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

**OVERTIME:**

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays and Sundays shall be paid at time and one-half the regular rate. All hours on holidays shall be paid at double the regular rate, except Veterans Day, which shall be paid at time and one-half the regular rate.
- During a regular work week schedule, Saturday may be used to make-up a day lost to inclement weather, paid at the regular rate.
- Four 10-hour days may be worked, at the regular rate, Monday through Thursday. When the four 10-hour day schedule is used, the 11th and 12th hours shall be paid at time and one-half the regular rate. After the 12th hour, a worker shall be paid at double the regular rate. Friday may be used as a make-up day lost to inclement weather, paid at the regular rate.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Ironworker                      PREVAILING WAGE RATE**

	07/07/23
Rod /Fence Foreman	W49.89 B49.67 T99.56
Rod/Fence Journeyman	W46.89 B49.67 T96.56
Structural Foreman	W52.19 B49.67 T101.86
Structural Journeyman	W49.19 B49.67 T98.86

**Craft: Ironworker                      APPRENTICE RATE SCHEDULE**

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
6 Months	50%	60%		Yearly	70%	80%	90%			
Benefits	same as	journeyma n	amount							

**Ratio of Apprentices to Journeymen - 1:4**

**Craft: Ironworker                      COMMENTS/NOTES**

**HAZARDOUS WASTE WORK:** On hazardous waste removal work on a state or federally designated hazardous waste site where the Ironworker is required to wear Level A,B, or C personal protection: + \$3.00 per hour

The regular workday consists of 8 hours between 6:00 AM and 4:30 PM.

**FOREMAN REQUIREMENTS:**

When there are 2 or more Ironworkers on a job, 1 shall be designated a Foreman.

**SHIFT DIFFERENTIALS:**

- When a 2 shift schedule is established, the first, or day shift , shall be established on an 8 hour basis .The second shift shall be established on an 8 hour basis, and receive the regular rate plus 15%.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular hourly rate, the second shift shall receive the regular rate plus 15%, and the third shift shall receive the regular rate plus 20%.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis.
- When an irregular shift is established for the Ironworker (Structural) classification, the rate shall be paid at time and one-half the regular rate, inclusive of benefits. When an irregular shift is established for the Rod/Fence classification, the shift shall be established on an 8 hour basis and receive the regular rate, plus 20%.

**OVERTIME:**

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

- All hours in excess of 8 per day, or before or after an established shift that are not shift work, and all hours on Saturday, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sunday and holidays shall be paid at double the hourly rate, inclusive of benefits. Saturday may be used as a make-up day for a day lost to inclement weather. If Saturday is not a make-up day, all hours on Saturday shall be paid at time and one-half the hourly rate, inclusive of benefits.

- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Laborer - Asbestos & Hazardous Waste Removal**

**PREVAILING WAGE RATE**

	09/05/23
Foreman	W44.75 B24.71 T69.46
Journeyman (Handler)	W39.78 B24.71 T64.49

**Craft: Laborer - Asbestos & Hazardous Waste Removal**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
Yearly	22.07	25.75	29.42	33.10						
Benefit	22.06	for	all	intervals						

**Ratio of Apprentices to Journeymen - \***

\* Ratio of apprentices to journeymen shall not be more than one apprentice for the first journeyman and no more than one (1) apprentice for each additional three (3) journeymen.

**Craft: Laborer - Asbestos & Hazardous Waste Removal**

**COMMENTS/NOTES**

NOTE: These rates apply to work in connection with Asbestos, Radiation, Hazardous Waste, Lead, Chemical, Biological, Mold Remediation and Abatement.

The regular workday shall be 8 hours.

**OVERTIME:**

- Hours in excess of 8 per day, Monday through Saturday, and all hours on Sunday and holidays shall be paid at time and one-half the regular rate.
- Benefits on ALL overtime hours shall be paid at straight time.

**RECOGNIZED HOLIDAYS:** New Year's Day, President's Day, Easter, Memorial Day, July 4th, Labor Day, Veterans Day, Thanksgiving Day, Christmas Day. (Holidays start at 12:00 am).

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Laborer - Building**

**PREVAILING WAGE RATE**

	11/14/23
Class A Journeyman	W38.25 B32.42 T70.67
Class B Journeyman	W37.25 B32.42 T69.67
Class C Journeyman	W31.70 B32.42 T64.12
Foreman	W43.00 B32.42 T75.42
General Foreman	W47.75 B32.42 T80.17

**Craft: Laborer - Building**

**APPRENTICE RATE SCHEDULE**

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
	60%	70%	80%	90%	of Class B	wage rate				
6 Months										
Benefit	29.17	29.17	29.17	29.17						

**Ratio of Apprentices to Journeymen - \***

\* Ratio of apprentices to journeymen shall not be more than one apprentice for the first journeyman and no more than one (1) apprentice for each additional three (3) journeymen.

**Craft: Laborer - Building**

**COMMENTS/NOTES**

CLASS A: Specialist laborer including mason tender or concrete pour crew; scaffold builder (scaffolds up to 14 feet in height); operator of forklifts, Bobcats (or equivalent machinery), jack hammers, tampers, motorized tampers and compactors, vibrators, street cleaning machines, hydro demolition equipment, riding motor buggies, conveyors, burners; and nozzle men on gunite work.

CLASS B: Basic laborer - includes all laborer work not listed in Class A or Class C.

CLASS C: Janitorial-type light clean-up work associated with the TURNOVER of a project, or part of a project, to the owner. All other clean-up work is Class B.

The regular workday shall be 8 hours between 6:00 AM and 6:00 PM.

**SHIFT DIFFERENTIALS:**

- Shift work must run for a minimum of 5 consecutive workdays.
- When a 2-shift schedule is worked, including a day shift, both shifts shall be established on the basis of 8 hours pay for 8 hours worked. The second shift shall receive the regular rate plus an additional 10%.
- When a 3-shift schedule is worked, the day shift shall be established on the basis of 8 hours pay for 8 hours worked, the second shift shall be established on the basis of 8 hours pay for 7.5 hours worked, and the third shift shall be established

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
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**County - MONMOUTH**

on the basis of 8 hours pay for 7 hours worked. The day shift shall receive the regular rate, the second shift shall receive the regular rate plus an additional 10%, and the third shift shall receive the regular rate plus an additional 15%.

- When a second or third shift is worked with no day shift, the second or third shift shall be established on the basis of 8 hours pay for 8 hours worked. The second shift shall receive the regular rate plus an additional 10%, and the third shift shall receive the regular rate plus an additional 15%.

- When an irregular shift must be established this shift shall receive the regular rate plus an additional 10%.

**OVERTIME:**

- Hours in excess of 8 per day, or outside the regular workday that are not shift work, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate. Saturday may be used as a make-up day (paid at straight time) for a day lost to inclement weather, or for a holiday that is observed during the work week, Monday through Friday. All hours on Sundays and holidays shall be paid at double the regular rate.

- Four 10-hour days may be worked Monday to Thursday, at straight time, with Friday used a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the regular rate.

- Benefits on ALL overtime hours shall be paid at time and one-half.

**RECOGNIZED HOLIDAYS:** New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Laborer - Heavy & General**

**PREVAILING WAGE RATE**

Rates are located in the  
"Statewide" rate package

**Craft: Laborer - Heavy & General**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
1000 Hours	60%	70%	80%	90%						
Benefit	25.08	for	all	intervals						

**Ratio of Apprentices to Journeymen - \***

\* No more than 1 apprentice for the first journeyman and no more than 1 apprentice for each additional 3 journeymen.

As of 3-1-25, benefits shall be 26.13.

As of 3-1-26, benefits shall be 27.13.

**Craft: Laborer - Heavy & General**

**COMMENTS/NOTES**

Heavy & General Laborer rates are located in the "Statewide" rate package.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Laborer-Residential and Modular Construction**

**PREVAILING WAGE RATE**

	04/01/23
* Skilled Tradesman (only applies to Modular Construction)	W27.90 B5.45 T33.35
Foreman (person directing crew, regardless of his skill classification)	W31.90 B5.45 T37.35
Laborer (for single family and stand-alone duplex owned by single owner)	W17.85 B2.95 T20.80
Residential and Modular Construction Laborer	W23.90 B5.45 T29.35

**Craft: Laborer-Residential and Modular Construction**

**APPRENTICE RATE SCHEDULE**

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
	As shown	800 hours	600 hours	600 hours						
wage & benefits	70%	80%	90%							

Ratio of Apprentices to Journeymen-

One (1) apprentice shall be allowed for the first journeyman on site and no more than one (1) additional apprentice for each additional three (3) journeymen on site.

**Craft: Laborer-Residential and Modular Construction**

**COMMENTS/NOTES**

\* SKILLED TRADESMAN- any worker doing work not typically done by a Building Laborer. Some examples are installing interior doors, sheet rock, hooking up appliances, installing light fixtures, installing railing systems, etc. Please note where local building codes require that certain work be performed under the supervision of a licensed tradesman (i.e. Plumber, Electrician, etc.) Laborers shall work under such supervision.

RESIDENTIAL CONSTRUCTION- All residential construction (not commercial), single-family, stand-alone duplex houses, townhouses and multi-family buildings of not more than four (4) floors. Each housing unit must be fully and independently functional; each housing unit must have its own kitchen and bathroom. The definition includes all incidental items such as site work, parking areas, utilities, streets and sidewalks. Please note the construction must be Residential in nature. A First Floor at or below grade may contain commercial space not to exceed 50% square footage of the floor; at least 50% of the First Floor must contain living accommodations or related nonresidential uses (e.g. laundry space, recreation/hobby rooms, and/or corridor space). Basement stories below grade used for storage, parking, mechanical systems/equipment, etc., are considered basement stories which are not used in determining the building's height. An attic is an unfinished space located immediately below the roof. Such space is not used in determining a building's height even if used for storage purposes. In addition, barracks and dormitories are not considered residential projects.

MODULAR RESIDENTIAL CONSTRUCTION- all aspects of modular residential construction (not commercial) at the site of installation of structures of no more than four (4) stories, including all excavation and site preparation, footings and

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
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foundation systems whether poured on-site or prefabricated, all underground waterproofing, underground utilities, concrete slabs, sidewalks, driveways, paving, hardscape and landscaping. Please note the construction must be Residential as defined above. All work performed by the Set Crew (the crew of workers who set the modular boxes on the foundation), including the rigging, setting, attaching and assembly of all modules and structural members, preparation of the foundation to accept modules, such as sill plates, connection of all in-module and under-module connections including, but not limited to, plumbing, electrical, HVAC, fire suppression, CATS, telephone, television/internet, and fiber optic, the building or installation of any porches or decks regardless of material or method of construction, the on-site installation of, or completion of any roof system, doors, windows and fenestrations, including flashing, gutter and soffit systems, waterproofing, insulation and interior and exterior trim work, and painting. Please note that modular construction does not include on-site stick built construction, tip up construction or panel built construction.

The regular workday shall be 8 hours between 6:00 AM and 6:00 PM.

**OVERTIME:**

Hours worked in excess of 8 per day/40 per week, Monday through Saturday, and all hours worked on Sunday and holidays shall be paid at time and one-half the hourly rate.

**RECOGNIZED HOILDAYS:**

New Year's Day, Martin Luther King Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day and Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Millwright                      PREVAILING WAGE RATE**

	05/01/24
Foreman	W66.04 B39.75 T105.79
Journeyman	W57.43 B34.65 T92.08

**Craft: Millwright                      APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
6 Months	40%	55%	65%	80%	90%					
Benefits	59.25% of	Appren	tice	Wage	Rate	for all	intervals	+ \$0.62		

**Ratio of Apprentices to Journeymen - 1:3**

**Craft: Millwright                      COMMENTS/NOTES**

**FOREMAN REQUIREMENTS:**

- When there are 2 or more Millwrights on a job, 1 shall be designated as a Foreman.

The regular workday shall consist of 8 hours, starting between 6:00 AM and 9:00 AM.

**SHIFT DIFFERENTIALS:**

- When a 2 shift schedule (including a day shift) is established, the day shift shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis, and receive the regular rate plus 15%, inclusive of benefits.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular hourly rate, the second shift shall receive the regular rate plus 15% and the third shift shall receive the regular rate plus 20%, inclusive of benefits.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis. The second shift shall receive the regular rate plus 15% and the third shift shall receive the regular rate plus 20%, inclusive of benefits.
- When an irregular shift must be established, this shift shall receive the regular rate plus 15%, inclusive of benefits.

**OVERTIME:**

- All hours in excess of 8 per day, or before or after an established shift that are not shift work, and all hours on Saturdays shall be paid at time and one-half the hourly rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the hourly rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for a day lost due to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate, inclusive of benefits.

**RECOGNIZED HOLIDAYS:** New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday. Veterans' Day may be substituted for the day after Thanksgiving.



**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Operating Engineer - Field Engineer**

**PREVAILING WAGE RATE**

Rates are located in the  
"Statewide" rate package

**Craft: Operating Engineer - Field Engineer**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
Yearly	70%	75%	of Rod/	Chainman	Wage					
Yearly			80%	90%	Transit/	Instrument	man	Wage		

**Ratio of Apprentices to Journeymen - \***

\* No more than 1 Field Engineer Apprentice per Survey Crew.

**Craft: Operating Engineer - Field Engineer**

**COMMENTS/NOTES**

Operating Engineer - Field Engineer rates are located in the "Statewide" rate package.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Painter - Line Striping**

**PREVAILING WAGE RATE**

	12/01/23
Apprentice (1st year)	W29.89 B15.70 T45.59
Apprentice (2nd year)	W34.10 B26.65 T60.75
Foreman (Charge Person)	W43.10 B27.43 T70.53
Journeyman 1 (at least 1 year of working exp. as a journeyman)	W38.33 B27.43 T65.76
Journeyman 2 (at least 2 years of working exp. as a journeyman)	W42.10 B27.43 T69.53

**Craft: Painter - Line Striping**

**APPRENTICE RATE SCHEDULE**

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									

**Ratio of Apprentices to Journeymen - 1:1**

**Craft: Painter - Line Striping**

**COMMENTS/NOTES**

**OVERTIME:**

Hours in excess of 8 per day, Monday through Saturday, and all hours on Sundays and holidays shall be paid at time and one-half the hourly rate.

**RECOGNIZED HOLIDAYS:** New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans Day, Thanksgiving Day and Christmas Day. Veterans Day may be substituted for the day after Thanksgiving.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Paperhanger                      PREVAILING WAGE RATE**

	05/02/23
Foreman	W52.82 B29.51 T82.33
Journeyman	W48.02 B29.51 T77.53

**Craft: Paperhanger                      APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
	SEE	COMME R	CIAL	PAINTER						

**Craft: Paperhanger                      COMMENTS/NOTES**

**FOREMEN REQUIREMENTS:**

- When there are 4 or more Paperhangers on a job, 1 shall be designated a Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

**SHIFT DIFFERENTIALS:**

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

**OVERTIME:**

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.
- Four 10-hour days may be worked, at straight time, Monday through Friday.

**RECOGNIZED HOLIDAYS:** New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, General Election Day, Veterans Day, Thanksgiving Day, Christmas Day

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Pipefitter**

**PREVAILING WAGE RATE**

**Craft: Pipefitter**

**COMMENTS/NOTES**

\*\*\*See PLUMBERS Rates\*\*\*

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Plasterer**

**PREVAILING WAGE RATE**

See "Cement Mason" Rates

**Craft: Plasterer**

**COMMENTS/NOTES**

\*\*\*See CEMENT MASON Rates\*\*\*

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Plumber                      PREVAILING WAGE RATE**

	07/01/23
Assistant General Foreman	W59.94 B45.05 T104.99
Foreman	W59.39 B45.05 T104.44
General Foreman	W62.69 B45.05 T107.74
Journeyman	W54.99 B45.05 T100.04

**Craft: Plumber                      APPRENTICE RATE SCHEDULE**

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
Yearly	35%	45%	55%	65%	75%					
Benefits	28.03	30.64	33.28	35.89	38.51					

**Ratio of Apprentices to Journeymen - 1:4**

**Craft: Plumber                      COMMENTS/NOTES**

The regular workday shall consist of 8 hours between 6:00 AM and 4:30 PM.

FOREMAN REQUIREMENTS (number of Plumbers on site):

- (1 to 8)- 1 Foreman
- (9 to 16)- 1 Foreman and 1 Assistant General Foreman
- (17 to 40)- 1 Foreman for every (1 to 8 Plumbers) and 1 Assistant General Foreman every (1 to 5 gangs). One note, a "gang" is a group of 8 men.
- (41 and more)- 1 Foreman for every (1 to 8 Plumbers), 1 Assistant General Foreman every (1 to 5 gangs) and 1 General Foreman. One note, for every additional Assistant General Foreman over five designated, the General Foreman shall receive an additional 10 cents per hour.

SHIFT DIFFERENTIALS:

- The second shift shall work 7.5 hours and receive 8 hours pay, at a rate equal to the hourly rate plus 25%, inclusive of benefits.
- When a third shift is worked, the third shift shall work 7.5 hours and receive 8 hours pay, at a rate equal to the hourly rate plus 30%, inclusive of benefits.
- A second shift may be established without a first shift, provided the second shift starts at 1:00 PM or later.

OVERTIME:

- Hours in excess of 8 per day, or before of after the regular workday, Monday through Friday, that are not shift work, and the first 10 hours on Saturdays, shall be paid at time and one-half, inclusive of benefits. Hours in excess of 10 on

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

Saturdays, and all hours on Sundays and holidays, shall be paid at double time, inclusive of benefits.

- Four 10-hour days may be worked, Mon to Thurs, at straight time, with Friday used as a make-up day for a day lost due to inclement weather. If Fri. is not a make-up day, the first 10 hours shall be paid at time and one-half, and hours in excess of 10 at double time, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Roofer                      PREVAILING WAGE RATE**

	06/13/23
Foreman	W46.77 B30.81 T77.58
Journeyman	W43.77 B30.81 T74.58

**Craft: Roofer                      APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
6 Months	17.50	21.88	26.26	28.45	30.63	32.83	35.01	39.39		
Benefits	2.16	2.16	27.31	27.31	27.31	27.31	27.31	27.31		

**Ratio of Apprentices to Journeymen - \***

- \* [A] For roofing jobs that are of the 1 or single ply nature: 1:2 or fraction thereof
- [B] For roofing jobs on new built up roofs 1:3 or fraction thereof
- [C] For roofing jobs that are of a tear-off nature: 1:2 or fraction thereof
- [D] For re-roofing jobs (not requiring complete removal of existing systems, installation done over existing roof): 1:3 or fraction thereof.

**Craft: Roofer                      COMMENTS/NOTES**

Pitch: +.50 per hour

Mop Man: +.30 per hour

The regular workday consists of 8 hours between 8:00 AM and 4:30 PM.

**OVERTIME:**

Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturdays, Sundays, and holidays shall be paid at time and one-half the regular rate.

**RECOGNIZED HOLIDAYS:** New Year's Day, Good Friday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Sheet Metal Sign Installation**

**PREVAILING WAGE RATE**

	04/17/24
Foreman	W44.19 B43.87 T88.06
Journeyman	W41.69 B43.87 T85.56

**Craft: Sheet Metal Sign Installation**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
1000 hours	35%	40%	45%	50%	55%	60%	65%	70%	75%	80%
Benefits	14.62	16.66	18.72	20.79	23.33	25.43	27.52	29.62	31.73	33.82

**Ratio of Apprentices to Journeymen - 1:3**

**Craft: Sheet Metal Sign Installation**

**COMMENTS/NOTES**

**FOREMAN REQUIREMENT:**

When there are 6 or more Sheet Metal Sign Installers on a job, 1 shall be designated a Foreman.

The regular workday consists of 8 hours, between 7:00 AM and 3:30 PM.

**OVERTIME:**

Hours before or after the regular workday, Monday through Friday, and all hours worked on Saturday shall be paid at time and one-half the hourly rate. All hours on Sunday and holidays shall be paid at double the hourly rate.

Four(4) 10 hour days may be worked, Monday through Friday, at straight time, for projects lasting at least one week in duration. The fifth day may be used as a make-up day at straight time for a day lost due to inclement weather. However, if the fifth day is not a make-up day, all hours worked will be paid at time and one-half the hourly rate.

**RECOGNIZED HOLIDAYS:** New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Saturday holidays observed the preceding Friday, Sunday holidays observed the following Monday.



**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

hours on Saturday, shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.

- Benefits on overtime hours are as follows:

Time and one-half = \$54.69.

Double-time = \$61.99.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holidays will be observed the preceding Friday, Sunday holidays will be observed the following Monday.



**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

paid at time and one-half the regular rate. Hours worked in excess of 10 per day, Monday through Friday, and all hours on Saturday, Sunday and holidays, shall be paid double the regular rate.

Four 10 hour days may be worked, Monday through Friday, at straight-time.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans Day, Thanksgiving Day, Christmas Day.



**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Tile Setter - Ceramic**

**PREVAILING WAGE RATE**

	12/04/23
Finisher	W48.80 B32.67 T81.47
Setter	W63.50 B35.95 T99.45

**Craft: Tile Setter - Ceramic**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
750 Hours	35%	40%	50%	55%	60%	65%	70%	75%	80%	90%

**Ratio of Apprentices to Journeymen - 1:4**

**Craft: Tile Setter - Ceramic**

**COMMENTS/NOTES**

**OVERTIME:**

Hours in excess of 7 per day, and the first 10 hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Saturdays after 10 hours shall be paid double the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.

**RECOGNIZED HOLIDAYS:** New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Tile Setter - Marble**

**PREVAILING WAGE RATE**

	01/01/24
Tile Setter	W63.47 B39.89 T103.36

**Craft: Tile Setter - Marble**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
750 Hours	40%	60%	65%	70%	75%	85%	95%			
Benefits	Interval 1	thru 5 =	75% of	jyrnm. ben	rate	Interval 6	thru 7 =	full jyrnm	benefit	rate

**Ratio of Apprentices to Journeymen - 1:4**

**Craft: Tile Setter - Marble**

**COMMENTS/NOTES**

**OVERTIME:**

Hours in excess of 7 per day, Monday through Friday, and the first 7 hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. Hours in excess of 7 on Saturdays, and all hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

**RECOGNIZED HOLIDAYS:** New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Tile Setter - Mosaic & Terrazzo**

**PREVAILING WAGE RATE**

	01/01/24
Grinder or Assistant	W58.96 B40.83 T99.79
Mechanic	W60.57 B40.84 T101.41
Terrazzo Resinous Worker	W50.50 B33.23 T83.73

**Craft: Tile Setter - Mosaic & Terrazzo**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
750 Hours	50%	55%	60%	65%	70%	75%	85%	95%	100%	

**Ratio of Apprentices to Journeymen - 1:5**

**Craft: Tile Setter - Mosaic & Terrazzo**

**COMMENTS/NOTES**

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM AFTER 7-1-17:

INTERVAL	PERIOD AND RATES						
1500 Hours	35%	45%	60%	70%	80%	90%	100%

The regular workday consists of 7 hours, between 8:00 AM and 3:30 PM.

**OVERTIME:**

- Hours in excess of 7 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.

**RECOGNIZED HOLIDAYS:** New Year's Day, Presidents' Day, Good Friday, Monday after Easter, Memorial Day, July 4th, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Truck Driver**

**PREVAILING WAGE RATE**

	05/01/24
Bucket, Utility, Pick-up, Fuel Delivery trucks	W47.56 B40.88 T88.44
Dump truck (single axle), Asphalt Distributor, Tack Spreader	W47.56 B40.88 T88.44
Euclid-type vehicles (large off-road equipment)	W47.71 B40.88 T88.59
Helper on Asphalt Distributor truck	W47.56 B40.88 T88.44
Low Boy Driver	W49.21 B40.88 T90.09
Slurry Seal, Seeding/Fertilizing/Mulchi ng truck	W47.56 B40.88 T88.44
Straight 3-axle trucks, Dump Truck (3-axle), Dump Truck (tandem)	W47.61 B40.88 T88.49
Tractor-Trailer truck (all types)	W47.71 B40.88 T88.59
Vacuum or Vac-All truck (entire unit)	W47.56 B40.88 T88.44
Winch Trailer Driver	W47.81 B40.88 T88.69

**Craft: Truck Driver**

**COMMENTS/NOTES**

Foreman: + \$.75 cents per hour. Overtime rate shall be increased accordingly.

**HAZARDOUS WASTE REMOVAL WORK:**

- On a hazardous waste site requiring Level A, B, or C personal protection for any worker: + \$3.00 per hour.
- On a hazardous waste site not designated Level A, B, or C: + \$1.00 per hour.

The regular workday consists of 8 hours starting between 6:00 AM and 8:00 AM.

**SHIFT DIFFERENTIAL:**

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

Any shift starting at a time other than 6:00 AM or 8:00 AM shall receive an additional \$3.00 per hour.

**BLENDED RATE:**

- When a truck driver is performing work on site and also serving as a material delivery driver, the driver shall be paid a "blended rate" which shall be 80% of the above-listed wage rates, plus the full benefit rate. This rate shall be used when the driver "round robins" for a minimum of 6 hours during the work day.

**OVERTIME:**

- Hours in excess of 8 per day, or before or after the regular workday that are not shift work, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.

- Benefits on overtime shall be \$48.74.

- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

**RECOGNIZED HOLIDAYS:** New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veteran's Day, Thanksgiving Day, Christmas Day. Veteran's Day may be substituted for the day after Thanksgiving. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Truck Driver-Material Delivery Driver**

**PREVAILING WAGE RATE**

	05/01/24
Driver	W38.05 B40.88 T78.93
New Hires: 1st Year	W38.05 B40.88 T78.93

**Craft: Truck Driver-Material Delivery Driver**

**COMMENTS/NOTES**

NOTE: These rates may only be used for the delivery of \*materials TO the job site (\*building materials that will become a permanent part of the job site, such as sand, stone, aggregates, asphalt, sheetrock, 2x4's, etc.). In addition, only the following types of truck may be used for such deliveries (Dump Truck or Flat-bed truck). Please note that this rate does not apply to material suppliers or their employees (who do not perform services at the job site), and for the delivery of equipment and/or items that will not become a permanent part of the job site.

OVERTIME: Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate. Benefits on overtime shall be \$46.29.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, Veterans's Day, Thanksgiving Day, Christmas Day. Veteran's Day may be substituted for the day after Thanksgiving. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION**

**County - MONMOUTH**

**Craft: Welder                      PREVAILING WAGE RATE**

Welder

**Craft: Welder                      COMMENTS/NOTES**

Welders rate is the same as the craft to which the welding is incidental .

# STATEWIDE RATES

**OPERATING ENGINEERS**    **Rates Expiration Date :**

{For apprentice rates refer to "Operating Engineers" apprentice rates in any county rate package}

The regular workday consists of 8 hours, Monday to Friday, between 6:00 AM and 5:30 PM.

**SHIFT DIFFERENTIALS:**

- Shift work must be established for 5 consecutive workdays.
- Any work started outside of the allowed start time, 6:00 AM to 9:00 AM, except for \* tidal work, shall be considered an irregular shift and paid at straight time, plus 15% for the first eight hours, inclusive of benefits.
- \* FOR TIDAL WORK- a contractor can start their job according to tide schedules (tide schedules are the various high and low tides related to this work), providing the eight hour shift is completed between the hours of 5:00 AM and 6:30 PM.
- All time worked in excess of an established shift (an established shift is a shift that is determined at the time of the bid) shall be paid at the applicable overtime rate. When a portion of an established shift works into Saturday, Sunday or a holiday, that time worked shall be paid at the established shift rate.
- When working with other trades who receive a higher irregular shift differential, these employees shall also receive the higher differential rate.

**OVERTIME:**

- Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, that are not shift work, and all hours on Saturday shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sunday and holidays shall be paid at double the regular rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with all hours on Friday paid at time and one-half the regular rate, inclusive of benefits.

**RECOGNIZED HOLIDAYS:** New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. When all trades on a particular job site agree, the day after Thanksgiving may be substituted for Veterans Day.

For projects bid after April 1, 2020, on hazardous waste removal work of any kind, including a 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.

**OPERATING ENGINEERS**    **Rates Expiration Date :**

**Effective Dates:**

	<b>07/01/2023</b>		<b>07/01/2024</b>	<b>07/01/2025</b>
Rate	Fringe	Total	Total	Total
57.63	37.65	95.28	98.03	100.53

**CLASSIFICATIONS:**

A-Frame

Backhoe (combination)

Boom Attachment on loaders (Except pipehook)

Boring & Drilling Machine

Brush Chopper, Brush Shredder, Tree Shredder, Tree Shearer

Bulldozer, finish grade

Cableway

Carryall

Concrete Pump

Concrete Pumping System (Pumpcrete & similar types)

Conveyor, 125 feet or longer

Drill Doctor (Duties include dust collector and maintenance)

Front End Loader (2 cu. yds. but less than 5 cu. yds.)

Grader, finish

Groove Cutting Machine (ride-on type)

Heater Planer

Hoist: Outside Material Tower Hoist (all types including steam, gas, diesel, electric, air hydraulic, single and double drum, concrete, brick shaft caisson, snorkle roof, and other similar types, Except Chicago-boom type) \* receives an additional \$1.00 per hour on 100 ft. up to 199 ft. total height, and an additional \$2.00 per hour on 200 ft. and over total height.

Hydraulic Crane (10 tons & under)

Hydraulic Dredge

Hydro-Axe

Hydro-Blaster

**OPERATING ENGINEERS**    **Rates Expiration Date :**

**Effective Dates:**

	<b>07/01/2023</b>		<b>07/01/2024</b>	<b>07/01/2025</b>
Rate	Fringe	Total	Total	Total
57.63	37.65	95.28	98.03	100.53

**CLASSIFICATIONS:**

Jack (screw, air hydraulic, power-operated unit, or console type, Except hand jack or pile load test type)

Log Skidder

Pan

Paver, concrete

Plate & Frame Filter Press

Pumpcrete (unit type)

Pumpcrete, Squeezecrete, or Concrete Pumping machine (regardless of size)

Scraper

Side Boom

Straddle Carrier (Ross and similar types)

Whiphammer

Winch Truck (hoisting)

**OPERATING ENGINEERS**    **Rates Expiration Date :**

**Effective Dates:**

	<b>07/01/2023</b>		<b>07/01/2024</b>	<b>07/01/2025</b>
Rate	Fringe	Total	Total	Total
55.72	37.65	93.37	96.12	98.62

**CLASSIFICATIONS:**

- Asphalt Curbing Machine
- Asphalt Plant Engineer
- Asphalt Spreader
- Autograde Curb Trimmer & Sidewalk Shoulder Slipform (CMI & similar types)
- Autograde Curecrete Machine (CMI & similar types)
- Autograde Tube Finisher & Texturing Machine (CMI & similar types)
- Bar Bending Machines (Power)
- Batcher, Batching Plant, & Crusher [On Site]
- Belt Conveyor System
- Boom-Type Skimmer Machine
- Bridge Deck Finisher
- Bulldozer (all sizes)
- Captain (Power Boats)
- Car Dumper (railroad)
- Compressor & Blower unit for loading/unloading of concrete, cement, fly ash, or similar type materials (used independently or truck-mounted)
- Compressor (2 or 3 battery)
- Concrete Breaking Machine
- Concrete Cleaning/Decontamination Machine
- Concrete Finishing Machine
- Concrete Saw or Cutter (ride-on type)
- Concrete Spreader (Hetzl, Rexomatic & similar types)
- Concrete Vibrator

**OPERATING ENGINEERS**    **Rates Expiration Date :**

**Effective Dates:**

	<b>07/01/2023</b>		<b>07/01/2024</b>	<b>07/01/2025</b>
Rate	Fringe	Total	Total	Total
55.72	37.65	93.37	96.12	98.62

**CLASSIFICATIONS:**

- Conveyors - under 125 feet
- Crane Signalman
- Crushing Machine
- Directional Boring Machine
- Ditching Machine - Small (Ditchwitch, Vermeer or similar types)
- Dope Pot - Mechanical (with or without pump)
- Dumpster
- Elevator
- Fireman
- Fork Lift (Economobile, Lull & similar types)
- Front End Loader (1 cu. yd. and over but less than 2 cu. yds.)
- Generator (2 or 3 battery)
- Giraffe Grinder
- Goldhofer/Hydraulic Jacking Trailer
- Grader & Motor Patrols
- Grout Pump
- Gunnite Machine (Excluding nozzle)
- Hammer - Vibratory (in conjunction with generator)
- Heavy Equipment Robotics - Operator/Technician
- Hoist (roof, tugger, aerial platform hoist, house car)
- Hopper
- Hopper Doors (power operated)
- Ladder (motorized)

**OPERATING ENGINEERS**    **Rates Expiration Date :**

**Effective Dates:**

07/01/2023			07/01/2024	07/01/2025
Rate	Fringe	Total	Total	Total
55.72	37.65	93.37	96.12	98.62

**CLASSIFICATIONS:**

Laddervator

Locomotive (Dinky-type)

Maintenance Utility Man

Master Environmental Maintenance Technician

Mechanic

Mixer (Except paving mixers)

Pavement Breaker (truck-mounted or small self-propelled ride-on type)

Pavement Breaker - maintenance of compressor or hydraulic unit

Pipe Bending Machine (power)

Pitch Pump

Plaster Pump (regardless of size)

Post Hole Digger (post pounder, auger)

Rod Bending Machines

Roller (black top)

Scale (power)

Seamen Pulverizing Mixer

Shoulder Widener

Silo

Skimmer Machine (boom type)

Steel Cutting Machine (service & maintenance)

Tamrock Drill

Tractor

Transfer Machines

**OPERATING ENGINEERS**     **Rates Expiration Date :**

**Effective Dates:**

07/01/2023			07/01/2024	07/01/2025
Rate	Fringe	Total	Total	Total
55.72	37.65	93.37	96.12	98.62

**CLASSIFICATIONS:**

Tug Captains

Tug Master (Power Boats)

Ultra High Pressure Waterjet Cutting Tool System -  
Operator/Maintenance Technician

Vacuum Blasting Machine - Operator/Maintenance Technician

Vibrating Plant (used with unloading)

Welder & Repair Mechanic

**Effective Dates:**

07/01/2023			07/01/2024	07/01/2025
Rate	Fringe	Total	Total	Total
50.38	37.65	88.03	90.78	93.28

**CLASSIFICATIONS:**

Assistant Engineer/Oiler

Driller's Helper

Field Engineer - Transit man or Instrument man

Maintenance Apprentice (Deckhand)

Maintenance Apprentice (Oiler)

Mechanic's Helper

Off Road Back Dump

Tire Repair & Maintenance

**Effective Dates:**

07/01/2023			07/01/2024	07/01/2025
Rate	Fringe	Total	Total	Total
47.80	37.65	85.45	88.20	90.70

**CLASSIFICATIONS:**

Field Engineer - Rodman or Chainman

TERRITORY  
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION

OPERATING ENGINEERS     Rates Expiration Date :

Effective Dates:

07/01/2023			07/01/2024	07/01/2025
Rate	Fringe	Total	Total	Total
57.96	37.65	95.61	98.36	100.86

**CLASSIFICATIONS:**

Lead Engineer, Foreman Engineer, Safety Engineer (minimum)

**OPERATING ENGINEERS**    **Rates Expiration Date :**

**Effective Dates:**

	<b>07/01/2023</b>		<b>07/01/2024</b>	<b>07/01/2025</b>
Rate	Fringe	Total	Total	Total
59.22	37.65	96.87	99.62	102.12

**CLASSIFICATIONS:**

- Autograde Pavement Profiler (CMI & similar types)
- Autograde Pavement Profiler - Recycle Type (CMI & similar types)
- Autograde Placer/Trimmer/Spreader Combination (CMI & similar types)
- Autograde Slipform Paver (CMI & similar types)
- Backhoe (Excavator)
- Central Power Plant
- Concrete Paving Machine
- Cranes, Derricks, Pile Drivers (all types), under 100 tons with a boom (including jib and/or leads) under 100 ft.
- Draglines
- Drill, Bauer, AMI and similar types
- Drillmaster, Quarrymaster
- Drillmaster/Quarrymaster (down-the-hole drill), rotary drill, self-propelled hydraulic drill, self-powered drill
- Elevator Grader
- Field Engineer-Chief of Party
- Front End Loader (5 cu. yards or larger)
- Gradall
- Grader, Rago
- Helicopter Co-Pilot
- Helicopter Communications Engineer
- Juntann Pile Driver
- Locomotive (large)
- Mucking Machine

**OPERATING ENGINEERS**    **Rates Expiration Date :**

**Effective Dates:**

<b>07/01/2023</b>			<b>07/01/2024</b>	<b>07/01/2025</b>
Rate	Fringe	Total	Total	Total
59.22	37.65	96.87	99.62	102.12

**CLASSIFICATIONS:**

Pavement & Concrete Breaker (Superhammer & Hoe Ram)

Pile Driver

Prentice Truck

Roadway Surface Grinder

Scooper (loader & shovel)

Shovel (Excavator)

Trackhoe (Excavator)

Tree Chopper with boom

Trenching Machine (cable plow)

Tunnel Boring Machine

Vacuum Truck

**OPERATING ENGINEERS**    **Rates Expiration Date :**

**Effective Dates:**

	<b>07/01/2023</b>		<b>07/01/2024</b>	<b>07/01/2025</b>
Rate	Fringe	Total	Total	Total
54.09	37.65	91.74	94.49	96.99

**CLASSIFICATIONS:**

- Chipper
- Compressor (single)
- Concrete Spreader (small type)
- Conveyor Loader (Except elevator graders)
- Engines, Large Diesel (1620 HP) & Staging Pump
- Farm Tractor
- Fertilizing Equipment (operation & maintenance)
- Fine Grade Machine (small type)
- Form Line Grader (small type)
- Front End Loader (under 1 cubic yard)
- Generator (single)
- Grease, Gas, Fuel, & Oil Supply Trucks
- Heaters (Nelson or other type)
- Lights - portable generating light plant
- Mixer, Concrete (small)
- Mulching Equipment (operation & maintenance)
- Power Broom or Sweeper
- Pump (diesel engine & hydraulic - regardless of power)
- Pump (larger than 2 inch suction, including submersible pumps)
- Road Finishing Machine (small type)
- Roller - grade, fill, or stone base
- Seeding Equipment (operation & maintenance)
- Sprinkler & Water Pump Trucks

**OPERATING ENGINEERS**     Rates Expiration Date :

**Effective Dates:**

07/01/2023			07/01/2024	07/01/2025
Rate	Fringe	Total	Total	Total
54.09	37.65	91.74	94.49	96.99

**CLASSIFICATIONS:**

Steam Generator or Boiler

Stone Spreader

Tamping Machine (vibrating ride-on type)

Temporary Heating Plant (Nelson or other type, including propane, natural gas, and flow-type units)

Water or Sprinkler Truck

Welding Machine (gas, diesel, or electric convertor, of any type)

Welding System - Multiple (rectifier transformer type)

Wellpoint Systems (including installation by bull gang and maintenance)

**Effective Dates:**

07/01/2023			07/01/2024	07/01/2025
Rate	Fringe	Total	Total	Total
61.04	37.65	98.69	101.44	103.94

**CLASSIFICATIONS:**

Helicopter Pilot/Engineer

**Effective Dates:**

07/01/2023			07/01/2024	07/01/2025
Rate	Fringe	Total	Total	Total
65.72	37.65	103.37	106.12	108.62

**CLASSIFICATIONS:**

Cranes, Derricks, Pile Driver (all types), 100 tons and over and TOWER CRANE with boom (including jib and/or leads) 140 ft. and over

**Effective Dates:**

07/01/2023			07/01/2024	07/01/2025
Rate	Fringe	Total	Total	Total
64.72	37.65	102.37	105.12	107.62

**CLASSIFICATIONS:**

Cranes, Derricks, Pile Driver (all types), 100 tons and over and TOWER CRANE with boom (including jib and/or leads) from 100 ft. to 139 ft.

**OPERATING ENGINEERS**     **Rates Expiration Date :**

**Effective Dates:**

<b>07/01/2023</b>			<b>07/01/2024</b>	<b>07/01/2025</b>
Rate	Fringe	Total	Total	Total
61.22	37.65	98.87	101.62	104.12

**CLASSIFICATIONS:**

Cranes, Derricks, Pile Driver (all types) , under 100 tons with a boom (including jib and/or leads) 140 ft. and over

**Effective Dates:**

<b>07/01/2023</b>			<b>07/01/2024</b>	<b>07/01/2025</b>
Rate	Fringe	Total	Total	Total
63.72	37.65	101.37	104.12	106.62

**CLASSIFICATIONS:**

Cranes, Derricks, Pile Driver (all types), 100 tons and over and TOWER CRANE with a boom (including jib and/or leads) under 100 ft.

**Effective Dates:**

<b>07/01/2023</b>			<b>07/01/2024</b>	<b>07/01/2025</b>
Rate	Fringe	Total	Total	Total
60.22	37.65	97.87	100.62	103.12

**CLASSIFICATIONS:**

Cranes, Derricks, Pile Driver (all types), under 100 tons with a boom (including jib and/or leads) from 100 ft. to 139 ft.

**STRUCTURAL STEEL ERECTION**     **Rates Expiration Date :**

{For apprentice rates refer to "Operating Engineers" apprentice rates in any county rate package}

The regular workday consists of 8 hours, Monday to Friday, between 6:00 AM and 5:30 PM.

**SHIFT DIFFERENTIALS:**

- Shift work must be established for 5 consecutive workdays.
- Any work started outside of the allowed start time, 6:00 AM to 9:00 AM, except for \* tidal work, shall be considered an irregular shift and paid at straight time, plus 15% for the first eight hours, inclusive of benefits.
- \* FOR TIDAL WORK- a contractor can start their job according to tide schedules (tide schedules are the various high and low tides related to this work), providing the eight hour shift is completed between the hours of 5:00 AM and 6:30 PM.
- All time worked in excess of an established shift (an established shift is a shift that is determined at the time of the bid) shall be paid at the applicable overtime rate. When a portion of an established shift works into Saturday, Sunday or a holiday, that time worked shall be paid at the established shift rate.
- When working with other trades who receive a higher irregular shift differential, these employees shall also receive the higher differential rate.

**OVERTIME:**

- Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, that are not shift work, and all hours on Saturday shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sunday and holidays shall be paid at double the regular rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with all hours on Friday paid at time and one-half the regular rate, inclusive of benefits.

**RECOGNIZED HOLIDAYS:** New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. When all trades on a particular job site agree, the day after Thanksgiving may be substituted for Veterans Day.

For projects bid after April 1, 2020, on hazardous waste removal work of any kind, including a 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.

**Effective Dates:**

	<b>07/01/2023</b>		<b>07/01/2024</b>	<b>07/01/2025</b>
Rate	Fringe	Total	Total	Total
62.85	37.65	100.50	103.25	105.75

**CLASSIFICATIONS:**

Helicopter Co-Pilot & Communications Engineer

TERRITORY  
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION

STRUCTURAL STEEL ERECTION      Rates Expiration Date :

**Effective Dates:**

07/01/2023			07/01/2024	07/01/2025
Rate	Fringe	Total	Total	Total
58.79	37.65	96.44	99.19	101.69

**CLASSIFICATIONS:**

A-Frame

Cherry Picker -10 tons or less (Over 10 tons use crane rate)

Hoist (all types Except Chicago-boom)

Jack (screw, air hydraulic, power-operated unit or console type, Except hand jack or pile load test type)

Side Boom

Straddle Carrier

**STRUCTURAL STEEL ERECTION**      **Rates Expiration Date :**

**Effective Dates:**

	<b>07/01/2023</b>		<b>07/01/2024</b>	<b>07/01/2025</b>
Rate	Fringe	Total	Total	Total
56.13	37.65	93.78	96.53	99.03

**CLASSIFICATIONS:**

- Aerial Platform Used On Hoists
- Apprentice Engineer/Oiler with Compressor or Welding Machine
- Captain (Power Boats)
- Compressor (2 or 3 in battery)
- Concrete Cleaning/Decontamination Machine Operator
- Conveyor or Tugger Hoist
- Directional Boring Machine
- Elevator or House Car
- Fireman
- Forklift
- Generator (2 or 3)
- Heavy Equipment Robotics, Operator/Technician
- Maintenance Utility Man
- Master Environmental Maintenance Technician
- Tug Master (Power Boats)
- Ultra High Pressure Waterjet Cutting Tool System Operator/Maintenance Technician
- Vacuum Blasting Machine Operator/Maintenance Technician
- Welding Machines, Gas or Electric Converters on any type-2 or 3 in battery including diesels

**STRUCTURAL STEEL ERECTION**      **Rates Expiration Date :**

**Effective Dates:**

07/01/2023			07/01/2024	07/01/2025
Rate	Fringe	Total	Total	Total
54.60	37.65	92.25	95.00	97.50

**CLASSIFICATIONS:**

Compressor (Single)

Generators

Welding Machines, Gas, Diesel, Or Electric Converters of any type-single

Welding System, Multiple (Rectifier Transformer Type)

**Effective Dates:**

07/01/2023			07/01/2024	07/01/2025
Rate	Fringe	Total	Total	Total
50.84	37.65	88.49	91.24	93.74

**CLASSIFICATIONS:**

Assistant Engineer/Oiler

Drillers Helper

Field Engineer - Transit/Instrument Man

Maintenance Apprentice (Deckhand)

Maintenance Apprentice (Oiler)

Off Road Back Dump

**Effective Dates:**

07/01/2023			07/01/2024	07/01/2025
Rate	Fringe	Total	Total	Total
58.41	37.65	96.06	98.81	101.31

**CLASSIFICATIONS:**

Lead Engineer, Foreman Engineer, Safety Engineer (Minimum)

**Effective Dates:**

07/01/2023			07/01/2024	07/01/2025
Rate	Fringe	Total	Total	Total
47.80	37.65	85.45	88.20	90.70

**CLASSIFICATIONS:**

Field Engineer - Rodman or Chainman

**STRUCTURAL STEEL ERECTION**      **Rates Expiration Date :**

**Effective Dates:**

07/01/2023			07/01/2024	07/01/2025
Rate	Fringe	Total	Total	Total
59.55	37.65	97.20	99.95	102.45

**CLASSIFICATIONS:**

Field Engineer-Chief of Party

Vacuum Truck

**Effective Dates:**

07/01/2023			07/01/2024	07/01/2025
Rate	Fringe	Total	Total	Total
67.74	37.65	105.39	108.14	110.64

**CLASSIFICATIONS:**

Cranes (all cranes, land or floating with booms, including jib, 140 ft. and over, above ground). Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, 140 ft. and over, above ground), and Pile Drivers (all types) 100 tons and over and Tower Cranes.

**Effective Dates:**

07/01/2023			07/01/2024	07/01/2025
Rate	Fringe	Total	Total	Total
66.08	37.65	103.73	106.48	108.98

**CLASSIFICATIONS:**

Cranes (all cranes, land or floating with booms including jib, less than 140 ft. above ground), Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, less than 140 ft. above ground), Pile Drivers (all types), 100 tons and over and Tower Crane.

**Effective Dates:**

07/01/2023			07/01/2024	07/01/2025
Rate	Fringe	Total	Total	Total
63.24	37.65	100.89	103.64	106.14

**CLASSIFICATIONS:**

Cranes (all cranes, land or floating with booms including jib, 140 ft. and over, above ground), Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, 140 ft. and over, above ground), Pile Drivers (all types), under 100 tons.

**Effective Dates:**

07/01/2023			07/01/2024	07/01/2025
Rate	Fringe	Total	Total	Total
61.58	37.65	99.23	101.98	104.48

**CLASSIFICATIONS:**

Cranes (all cranes, land or floating with booms including jib, less than 140 ft. above ground), Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, less than 140 ft. above ground), Pile Drivers (all types), under 100 tons.

TERRITORY  
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION

STRUCTURAL STEEL ERECTION      Rates Expiration Date :

Effective Dates:

07/01/2023			07/01/2024	07/01/2025
Rate	Fringe	Total	Total	Total
63.24	37.65	100.89	103.64	106.14

**CLASSIFICATIONS:**

Helicopter Pilot & Engineer

**TEST BORING PRELIMINARY TO CONSTRUCTION-SOUTH/WEST**     **Rates Expiration Date :**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Hunterdon, Mercer, Monmouth, Ocean, Salem, Sussex, Warren

The regular workday consists of 8 hours, Monday to Friday, between 6:00 AM and 5:30 PM.

**SHIFT DIFFERENTIALS:**

- Shift work must be established for 5 consecutive workdays.
- Any work started outside of the allowed start time, 6:00 AM to 9:00 AM, except for \* tidal work, shall be considered an irregular shift and paid at straight time, plus 15% for the first eight hours, inclusive of benefits.
- \* FOR TIDAL WORK- a contractor can start their job according to tide schedules (tide schedules are the various high and low tides related to this work), providing the eight hour shift is completed between the hours of 5:00 AM and 6:30 PM.
- All time worked in excess of an established shift (an established shift is a shift that is determined at the time of the bid) shall be paid at the applicable overtime rate. When a portion of an established shift works into Saturday, Sunday or a holiday, that time worked shall be paid at the established shift rate.
- When working with other trades who receive a higher irregular shift differential, these employees shall also receive the higher differential rate.

**OVERTIME:**

- Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, that are not shift work, and all hours on Saturday shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sunday and holidays shall be paid at double the regular rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with all hours on Friday paid at time and one-half the regular rate, inclusive of benefits.

**RECOGNIZED HOLIDAYS:** New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. When all trades on a particular job site agree, the day after Thanksgiving may be substituted for Veterans Day.

For projects bid after April 1, 2020, on hazardous waste removal work of any kind, including a 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.

**Effective Dates:**

	07/01/2023		07/01/2024	07/01/2025
Rate	Fringe	Total	Total	Total
59.22	37.65	96.87	99.62	102.12

**CLASSIFICATIONS:**

Driller

**Effective Dates:**

	07/01/2023		07/01/2024	07/01/2025
Rate	Fringe	Total	Total	Total
52.38	37.65	90.03	92.78	95.28

**CLASSIFICATIONS:**

Driller's Helper

**FREE AIR TUNNEL JOBS**     **Rates Expiration Date :**

{For apprentice rates refer to "Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

**SHIFT DIFFERENTIALS:**

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$3.00 per hour.

**OVERTIME:**

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

**RECOGNIZED HOLIDAYS:** New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

**Hazardous Waste Work:**

- where Level A, B, or C protection is required: + \$5.00/hr
- other Hazardous Waste site: + \$1.00/hr

**Traffic Control Coordinator:** When either of the work classifications found below are working as a Traffic Control Coordinator they are to receive \$.75 above their current rate of pay.

**Effective Dates:**

	04/17/2024		03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
65.06	37.33	102.39	106.26	109.94

**CLASSIFICATIONS:**

Walking Boss & Superintendent

**Effective Dates:**

	04/17/2024		03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
64.69	37.33	102.02	105.88	109.57

**CLASSIFICATIONS:**

Heading Foreman, Shaft Foreman, Rod Foreman, Electrician Foreman, Rigging Foreman

**FREE AIR TUNNEL JOBS**      **Rates Expiration Date :**

**Effective Dates:**

	04/17/2024		03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
64.06	37.33	101.39	105.26	108.94

**CLASSIFICATIONS:**

Iron Foreman, Caulking Foreman, Form Foreman, Cement Finishing Foreman, Concrete Foreman, Track Foreman, Cleanup Foreman, Grout Foreman

**Effective Dates:**

	04/17/2024		03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
67.19	37.33	104.52	108.38	112.07

**CLASSIFICATIONS:**

Blaster

**Effective Dates:**

	04/17/2024		03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
63.38	37.33	100.71	104.57	108.26

**CLASSIFICATIONS:**

Top Labor Foreman

**Effective Dates:**

	04/17/2024		03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
62.94	37.33	100.27	104.13	107.82

**CLASSIFICATIONS:**

Skilled Men (including Caulker, Powder Carrier, all other skilled men)

Skilled Men (including Miner, Drill Runner, Iron Man, Conveyor Man, Manintenance Man, Safety Miner, Rigger, Block Layer, Cement Finisher, Tod Man)

**Effective Dates:**

	04/17/2024		03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
62.75	37.33	100.08	103.94	107.63

**CLASSIFICATIONS:**

Semi-Skilled Men (including Bell or Signal Man Top or Bottom, Form Worker & Mover, Concrete Worker, Shaft Man, Tunnel Laborer, Caulker's Helper, all other semi-skilled)

Semi-Skilled Men (including Miner's Helper, Chuck Tender, Track Man, Nipper, Brake Man, Derail Man, Cable Man, Hose Man, Gravel Man, Form Man)

TERRITORY  
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION

FREE AIR TUNNEL JOBS      Rates Expiration Date :

Effective Dates:

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
62.25	37.33	99.58	103.44	107.13

**CLASSIFICATIONS:**

All Others (including Powder Watchman, Change House Attendant, Top Laborer)

**DRILL FOR GROUND WATER SUPPLY**    **Rates Expiration Date :**

The well driller and/or helper may perform all work relative to the construction, finishing, and servicing of wells, pumps and borings for ground water supply. The present methods of well drilling entailing as they do, many diverse job operations calling for drilling, pump discharge, piping, and the operation of various types of related power equipment, shall all be within the job duties and functions of the well driller and/or helper. In the event that an extension of work should occur beyond water well drilling functions, into the field of general construction work, such extension of work would come under the appropriate rates listed elsewhere in this wage determination.

- For Work Hours, Shift Differentials, Overtime Rates, and Recognized Holidays see the "Operating Engineers" section of this wage determination.

**Effective Dates:**

	<b>07/01/2023</b>		<b>07/01/2024</b>	<b>07/01/2025</b>
	Rate	Fringe	Total	Total
	57.97	37.65	95.62	98.37
				100.87

**CLASSIFICATIONS:**

Driller

**Effective Dates:**

	<b>07/01/2023</b>		<b>07/01/2024</b>	<b>07/01/2025</b>
	Rate	Fringe	Total	Total
	51.13	37.65	88.78	91.53
				94.03

**CLASSIFICATIONS:**

Driller's Helper

**OPERATING ENGINEERS MARINE-DREDGING**    **Rates Expiration Date :**

NOTE: These wage rates only apply to dredging and other marine construction activities occurring in navigable waters and their tributaries.

Boat crews carrying explosive material (dynamite, pourfex, and other similar materials) shall be paid at 120% of the hourly wage rate for hours engaged in handling of said materials. Employees required to possess a Hazardous Material Certification as a condition of employment shall be compensated at 120% of the hourly wage rate.

**OVERTIME:**

Hours in excess of 40 per week, and all hours on Saturdays and Sundays, shall be paid at time and one-half the hourly rate. All hours on holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Martin Luther King Day, Good Friday, Memorial Day, July 4th, Labor Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

**Effective Dates:**

**10/01/2023**

Rate	Fringe	Total
45.26	15.22	60.48

**CLASSIFICATIONS:**

Lead Dredgerman, Operator, Leverman

Licensed Tug Operator (over 1000 HP)

**Effective Dates:**

**10/01/2023**

Rate	Fringe	Total
39.14	14.79	53.93

**CLASSIFICATIONS:**

Derrick Operator, Spider/Spill Barge Operator

Engineer, Electrician, Chief Welder, Chief Mate

Fill Placer, Operator II

Licensed Boat Operator

Maintenance Engineer

**Effective Dates:**

**10/01/2023**

Rate	Fringe	Total
36.84	14.63	51.47

**CLASSIFICATIONS:**

Certified Welder

**OPERATING ENGINEERS MARINE-DREDGING**      **Rates Expiration Date :**

**Effective Dates:**

**10/01/2023**

Rate	Fringe	Total
35.83	14.31	50.14

**CLASSIFICATIONS:**

Mate, Drag Barge Operator, Steward, Assistant Fill Placer

Welder

**Effective Dates:**

**10/01/2023**

Rate	Fringe	Total
34.68	14.23	48.91

**CLASSIFICATIONS:**

Boat Operator

**Effective Dates:**

**10/01/2023**

Rate	Fringe	Total
28.81	13.82	42.63

**CLASSIFICATIONS:**

Shoreman, Deckhand, Rodman, Scowman

**Effective Dates:**

**10/01/2023**

Rate	Fringe	Total
40.33	14.87	55.20

**CLASSIFICATIONS:**

Crane Operator

MICROSURFACING/SLURRY SEAL     Rates Expiration Date :

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Mercer, Ocean, Salem

\*\*\*IN ALL OTHER COUNTIES use the Heavy and General Laborers - North "Slurry Seal Laborer" rates.\*\*\*

**SHIFT DIFFERENTIALS:**

Any shift starting at 3:30 PM or later shall receive an additional \$0.35/hr

**OVERTIME:**

Hours in excess of 8 per day or 40 per week shall be paid at time and one-half the hourly rate. All hours on holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Washington's Birthday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

**Effective Dates:**

**03/01/2017**

Rate	Fringe	Total
36.50	21.27	57.77

**CLASSIFICATIONS:**

Foreman

**Effective Dates:**

**03/01/2017**

Rate	Fringe	Total
33.80	21.27	55.07

**CLASSIFICATIONS:**

Box man

**Effective Dates:**

**03/01/2017**

Rate	Fringe	Total
31.75	21.27	53.02

**CLASSIFICATIONS:**

Microsurface/Slurry Preparation

**Effective Dates:**

**03/01/2017**

Rate	Fringe	Total
31.75	21.27	53.02

**CLASSIFICATIONS:**

Squeegee man

TERRITORY  
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION

MICROSURFACING/SLURRY SEAL      Rates Expiration Date :

Effective Dates:

03/01/2017

Rate	Fringe	Total
30.30	21.27	51.57

**CLASSIFICATIONS:**

Cleaner, Taper

**ASPHALT LABORERS - SOUTH**    **Rates Expiration Date :**

"THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY: Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Mercer, Ocean, Salem

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

**SHIFT DIFFERENTIALS:**

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$3.00 per hour.

**OVERTIME:**

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

**RECOGNIZED HOLIDAYS:** New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

**Hazardous Waste Work:**

- where Level A, B, or C protection is required: + \$5.00/hr
- other Hazardous Waste site: + \$1.00/hr

**FOR TIDE WORK** (pertains to tidal water): A contractor can start their job according to tide schedules (tide schedules are the various high and low tides related to this work) providing the eight (8) hour shift is completed between the hours of 5:00 AM and 6:30 PM.

**Effective Dates:**

	03/21/2024		03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
53.55	37.33	90.88	94.33	97.58

**CLASSIFICATIONS:**

Paving Foreman

**Effective Dates:**

	03/21/2024		03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
50.10	37.33	87.43	90.88	94.13

**CLASSIFICATIONS:**

Head Raker

**Effective Dates:**

	03/21/2024		03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
50.25	37.33	87.58	91.03	94.28

**CLASSIFICATIONS:**

Screedman

**ASPHALT LABORERS - SOUTH**     **Rates Expiration Date :**

**Effective Dates:**

03/21/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
49.70	37.33	87.03	90.48	93.73

**CLASSIFICATIONS:**

Tampers, Smoothers, Kettlemen,  
Painters, Shovelers, Roller Boys

**Effective Dates:**

03/21/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
49.80	37.33	87.13	90.58	93.83

**CLASSIFICATIONS:**

Milling Controller

**Effective Dates:**

03/21/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
50.00	37.33	87.33	90.78	94.03

**CLASSIFICATIONS:**

Traffic Control Coordinator

**Effective Dates:**

03/21/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
49.95	37.33	87.28	90.73	93.98

**CLASSIFICATIONS:**

Raker, Luteman

TEST BORING PRELIMINARY TO CONSTRUCTION-NORTH      Rates Expiration Date :

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:  
Bergen, Essex, Hudson, Middlesex, Morris, Passaic, Somerset, Union

**SHIFT DIFFERENTIAL:**

Employees on a shift other than between the hours of 8:00 AM and 5:00 PM shall receive an additional \$2.00 per hour.

**OVERTIME:**

Hours in excess of 8 per day, Monday through Friday, and all hours on Saturday shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.

**RECOGNIZED HOLIDAYS:** New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, and Christmas Day. Sunday holidays observed the following Monday.

Hazardous Waste Pay (for Levels A, B, and C): an additional 15% of the hourly rate, per hour.

A newly hired Helper with no experience in the industry shall be paid as follows:

- 1st year on the job - 70% of Helper wage rate
- 2nd year on the job - 80% of Helper wage rate
- 3rd year on the job - 90% of Helper wage rate
- All helpers receive full fringe benefit rate.

**Effective Dates:**

**12/01/2023**

Rate	Fringe	Total
36.28	33.49	69.77

**CLASSIFICATIONS:**

Helper (4th year helper)

**Effective Dates:**

**12/01/2023**

Rate	Fringe	Total
46.25	33.49	79.74

**CLASSIFICATIONS:**

Driller

**Effective Dates:**

**12/01/2023**

Rate	Fringe	Total
52.66	33.49	86.15

**CLASSIFICATIONS:**

Foreman

**HEAVY & GENERAL LABORERS - NORTH**    **Rates Expiration Date :**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Bergen, Essex, Hudson, Hunterdon, Middlesex, Monmouth, Morris, Passaic, Somerset, Sussex, Union, Warren

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

**SHIFT DIFFERENTIALS:**

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$3.00 per hour.

FOR TIDE WORK (pertains to tidal water): A contractor can start their job according to tide schedules (tide schedules are the various high and low tides related to this work) providing the eight (8) hour shift is completed between the hours of 5:00 AM and 6:30 PM.

**OVERTIME:**

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

**Hazardous Waste Work:**

- where Level A, B, or C protection is required: + \$5.00/hr
- other Hazardous Waste site: + \$1.00/hr

**Effective Dates:**

	04/17/2024		03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
49.30	37.33	86.63	90.08	93.33

**CLASSIFICATIONS:**

**"D" Rate:**

basic, landscape, asphalt, slurry seal, or railroad track laborer; utility meter installer; flagman; salamander tender; pitman; dumpman; rakers or tampers on cold patch work; wrappers or coaters of pipe; waterproofer; timberman; wagon drill or drill master helper; powder carrier; magazine tender; signal man; power buggy operator; tree cutter; operator of basic power tools

**Effective Dates:**

	04/17/2024		03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
50.00	37.33	87.33	90.78	94.03

**CLASSIFICATIONS:**

**"C" Rate:**

pipe layer; laser man; conduit or duct line layer; operator of jack hammer, chipping hammer, pavement breaker, concrete cutter, asphalt cutter, sheet hammer, or walk-behind saw cutter; sandblaster; acetylene cutting or burning; wagon drill, directional drill, or hydraulic drill operator; drill master; core driller; asphalt raker or lute man

**HEAVY & GENERAL LABORERS - NORTH**      **Rates Expiration Date :**

**Effective Dates:**

	04/17/2024		03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
50.25	37.33	87.58	91.03	94.28

**CLASSIFICATIONS:**

"B" Rate:

concrete finisher; setter of brick or stone pavers; stone cutter; form setter; manhole, catch basin, or inlet builder; asphalt screedman; rammer; hardscaping; gunite nozzle man

**Effective Dates:**

	04/17/2024		03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
53.80	37.33	91.13	94.58	97.83

**CLASSIFICATIONS:**

"A" Rate:

blaster

**Effective Dates:**

	04/17/2024		03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
53.55	37.33	90.88	94.33	97.58

**CLASSIFICATIONS:**

"FOREMAN" Rate:

labor foreman, asphalt foreman, drill foreman, pipe foreman, grade foreman, finisher foreman, concrete foreman

**Effective Dates:**

	04/17/2024		03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
54.55	37.33	91.88	95.33	98.58

**CLASSIFICATIONS:**

"GENERAL FOREMAN" Rate

**Effective Dates:**

	04/17/2024		03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
50.75	37.33	88.08	91.53	94.78

**CLASSIFICATIONS:**

TRAFFIC CONTROL COORDINATOR Rate

**HEAVY & GENERAL LABORERS - SOUTH**    **Rates Expiration Date :**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Mercer, Ocean, Salem

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

**SHIFT DIFFERENTIALS:**

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$3.00 per hour.

FOR TIDE WORK (pertains to tidal water): A contractor can start their job according to tide schedules (tide schedules are the various high and low tides related to this work) providing the eight (8) hour shift is completed between the hours of 5:00 AM and 6:30 PM.

**OVERTIME:**

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

**Hazardous Waste Work:**

- where Level A, B, or C protection is required: + \$5.00/hr
- other Hazardous Waste site: + \$1.00/hr

**Effective Dates:**

	03/21/2024		03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
49.30	37.33	86.63	90.08	93.33

**CLASSIFICATIONS:**

basic, landscape, or railroad track laborer; utility meter installer; flagman; salamander tender; pitman; dumpman; rakers or tampers on cold patch work; wrappers or coaters of pipe; waterproofers; tree cutter, timberman

**Effective Dates:**

	03/21/2024		03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
49.30	37.33	86.63	90.08	93.33

**CLASSIFICATIONS:**

wagon drill or drill master helper; powder carrier; magazine tender; signal man

**HEAVY & GENERAL LABORERS - SOUTH**      **Rates Expiration Date :**

**Effective Dates:**

<b>03/21/2024</b>			<b>03/01/2025</b>	<b>03/01/2026</b>
Rate	Fringe	Total	Total	Total
50.00	37.33	87.33	90.78	94.03

**CLASSIFICATIONS:**

pipe layer; laser man; conduit or duct line layer; operator of jack hammer, chipping hammer, pavement breaker, concrete cutter, asphalt cutter, sheet hammer, or walk-behind saw cutter; sandblaster; acetylene cutting or burning

**Effective Dates:**

<b>03/21/2024</b>			<b>03/01/2025</b>	<b>03/01/2026</b>
Rate	Fringe	Total	Total	Total
50.00	37.33	87.33	90.78	94.03

**CLASSIFICATIONS:**

wagon or directional drill operator; drill master

**Effective Dates:**

<b>03/21/2024</b>			<b>03/01/2025</b>	<b>03/01/2026</b>
Rate	Fringe	Total	Total	Total
53.80	37.33	91.13	94.58	97.83

**CLASSIFICATIONS:**

blaster

**Effective Dates:**

<b>03/21/2024</b>			<b>03/01/2025</b>	<b>03/01/2026</b>
Rate	Fringe	Total	Total	Total
53.55	37.33	90.88	94.33	97.58

**CLASSIFICATIONS:**

labor foreman, drill foreman, pipe foreman, grade foreman, finisher foreman, concrete foreman

**Effective Dates:**

<b>03/21/2024</b>			<b>03/01/2025</b>	<b>03/01/2026</b>
Rate	Fringe	Total	Total	Total
54.55	37.33	91.88	95.33	98.58

**CLASSIFICATIONS:**

general foreman

TERRITORY  
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION

**HEAVY & GENERAL LABORERS - SOUTH**      **Rates Expiration Date :**

**Effective Dates:**

<b>03/21/2024</b>			<b>03/01/2025</b>	<b>03/01/2026</b>
Rate	Fringe	Total	Total	Total
50.25	37.33	87.58	91.03	94.28

**CLASSIFICATIONS:**

concrete finisher; setter of brick or stone pavers; stone cutter; form setter; manhole, catch basin, or inlet builder; rammer; guniting nozzle man

PIPELINE - MAINLINE TRANSMISSION    Rates Expiration Date :

These rates apply to the following: welding on Transportation Mainline pipe lines (cross-country pipe lines, or any segments thereof, transporting coal, gas, oil, water or other transportable materials, vapors or liquids, including portions of such pipe lines within private property boundaries up to the final metering station or connection - the point where a valve, consumer connection, or town border station divides mainline transmission lines or higher pressure lateral and branch lines from lower pressure distribution systems).

PER DIEM PAYMENT:

In addition to the total wage rate paid for each craft, the following per diem (per day) amounts must also be paid - Pipeline Journeyman: \$80.50; Pipeline Journeyman Welder: \$140.50; and Pipeline Helper: \$64.50. Note: in order to receive the per diem payment an employee must work a minimum of 8 hours in a 24 hour period.

NOTES:

- Journeymen employed as "stringer bead" welders and journeymen who are regularly employed as "hot-pass" welders shall receive \$1.00 per hour more than other journeymen.
- Welders running "stringer bead" or "hot-pass" on "cutouts" or "tie-ins" on a production basis shall be paid \$1.00 per hour above the journeymen rate.
- Whenever a welder helper is employed using a power buffer or power grinder immediately behind the stringer bead and/or hot-pass welders, and the pipe gang is set on a production basis, the helper shall be paid \$2.00 per hour above the helper rate.
- If back welding is performed inside a pipe under either or both of the following conditions, the welder engaged in the welding will receive \$3.00 per hour above the regular rate for the job only for the days on which such back welding is performed:
  - The employer elects, as a regular procedure, to back weld each line-up. This condition is not intended to apply to occasional back welding performed by the pipe gang to repair a bead, to rectify a "high-lo" condition or wall thickness, etc.
  - A welder is required to back weld a completed weld behind the firing line.
- If the welder helper is required to go inside the pipe for the purpose of brushing, buffing and grinding the weld, they shall receive a wage rate \$1.00 per hour above the regular helper rate for the days involved.
- Welders working on "hot work" shall be paid \$2.00 per hour above the regular rate for each day engaged in such work. "Hot work" is defined as work on lines in service where there is the danger of fire or explosion.

The regular workday shall be 8 hours, between 8:00 AM and 4:30 PM.

OVERTIME:

Hours in excess of 8 per day, and all hours on Sundays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, July 4th, Labor Day, Thanksgiving Day, and Christmas Day. Sunday holidays observed the following Monday.

Effective Dates:

**07/01/2023**

Rate	Fringe	Total
57.34	34.70	92.04

**CLASSIFICATIONS:**

Pipeline Journeyman Welder

TERRITORY  
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION

PIPELINE - MAINLINE TRANSMISSION      Rates Expiration Date :

Effective Dates:

**07/01/2023**

Rate	Fringe	Total
57.34	34.70	92.04

**CLASSIFICATIONS:**

Pipeline Journeyman

Effective Dates:

**07/01/2023**

Rate	Fringe	Total
33.84	24.32	58.16

**CLASSIFICATIONS:**

Pipeline Helper

**PIPELINE - GAS DISTRIBUTION**    **Rates Expiration Date :**

These rates apply to the following: welding on gas line distribution systems (that portion of the gas distribution system placed in streets, roads, subways, tunnels, viaducts, highways and easements which serves the users of gas).

**SHIFT DIFFERENTIALS:**

An "irregular" shift may start any time from 5:00 PM to 12:00 AM, Monday through Friday, and shall receive an additional 15% of the regular rate per hour, inclusive of benefits.

**OVERTIME:**

Hours in excess of forty per week, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

**RECOGNIZED HOLIDAYS:** New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, and Christmas Day. Sunday holidays observed the following Monday.

**Effective Dates:**

**11/01/2023**

Rate	Fringe	Total
64.70	31.84	96.54

**CLASSIFICATIONS:**

Pipeline Journeyman Welder

**Effective Dates:**

**11/01/2023**

Rate	Fringe	Total
64.70	31.84	96.54

**CLASSIFICATIONS:**

Pipeline Journeyman

**Effective Dates:**

**11/01/2023**

Rate	Fringe	Total
41.00	23.56	64.56

**CLASSIFICATIONS:**

Pipeline Helper

**ASPHALT LABORERS- NORTH**    **Rates Expiration Date :**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Bergen, Essex, Hudson, Hunterdon, Middlesex, Monmouth, Morris, Passaic, Somerset, Sussex, Union, Warren

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

**SHIFT DIFFERENTIALS:**

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$3.00 per hour.

**OVERTIME:**

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

**RECOGNIZED HOLIDAYS:** New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

**Hazardous Waste Work:**

- where Level A, B, or C protection is required: + \$5.00/hr
- other Hazardous Waste site: + \$1.00/hr

**FOR TIDE WORK** (pertains to tidal water): A contractor can start their job according to tide schedules (tide schedules are the various high and low tides related to this work) providing the eight (8) hour shift is completed between the hours of 5:00 AM and 6:30 PM.

**Effective Dates:**

	<b>04/17/2024</b>		<b>03/01/2025</b>	<b>03/01/2026</b>
Rate	Fringe	Total	Total	Total
53.55	37.33	90.88	94.33	97.58

**CLASSIFICATIONS:**

Asphalt Foreman

**Effective Dates:**

	<b>04/17/2024</b>		<b>03/01/2025</b>	<b>03/01/2026</b>
Rate	Fringe	Total	Total	Total
50.25	37.33	87.58	91.03	94.28

**CLASSIFICATIONS:**

Asphalt Screedman

**Effective Dates:**

	<b>04/17/2024</b>		<b>03/01/2025</b>	<b>03/01/2026</b>
Rate	Fringe	Total	Total	Total
50.00	37.33	87.33	90.78	94.03

**CLASSIFICATIONS:**

Asphalt Raker or Lute Man

TERRITORY  
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION

ASPHALT LABORERS- NORTH      Rates Expiration Date :

Effective Dates:

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
49.30	37.33	86.63	90.08	93.33

**CLASSIFICATIONS:**

Asphalt Laborer

**ELECTRICIAN- UTILITY WORK (NORTH)**     **Rates Expiration Date :**

Electrician-Utility Work (North)

(For apprentice rates refer to Electrician-Utility Work (North) in any county rate package).

These rates apply to work contracted for by the following utility companies:

Public Service Electric & Gas Co. of NJ, GPU Energy, Borough of Madison Electric Department, Sussex Rural Electric Cooperative, Rockland Utilities, and Butler Municipal Electric Co.

These rates do not apply to work on substations or switching stations.

For Utility work contracted for by a utility company other than those listed above or those listed under "Electrician-Utility Work (South), see the "Outside Commercial Rates" for the county in which the jobsite is located.

\* FOR OUTSIDE COMMERCIAL RATES PLEASE SEE COUNTY RATES

The regular workday is 8 hours, between 6:00 AM and 6:00 PM.

FOR EMERGENCY WORK ONLY: (emergency work is defined as work caused by storm, catastrophe, act of god, and circumstances beyond the control of the employer)-all hours of work shall be paid at double the hourly rate.

**SHIFT DIFFERENTIALS:**

Shift work must run for a minimum of 5 consecutive workdays.

2nd shift (between the hours of 4:30 PM and 1:00 AM): 8 hours of work + 17.3% of the regular rate, inclusive of benefits.

3rd shift (between the hours of 12:30 AM and 9:00 AM): 8 hours of work + 31.4% of the regular rate per hour, inclusive of benefits.

**OVERTIME:**

Hours in excess of 8 per day, or before or after the regular workday Monday through Friday, that is not shift work, and all hours on Saturday shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the hourly rate, inclusive of benefits.

Four 10-hour days may worked, at straight time, between 6:00 AM and 6:00 PM, Monday through Thursday.

**RECOGNIZED HOLIDAYS:**

New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day and Christmas Day, or day on which they are legally observed.

**Effective Dates:**

	<b>12/03/2023</b>		<b>12/01/2024</b>
Rate	Fringe	Total	Total
62.94	43.42	106.36	109.56

**CLASSIFICATIONS:**

Chief Lineman

**Effective Dates:**

	<b>12/03/2023</b>		<b>12/01/2024</b>
Rate	Fringe	Total	Total
59.38	40.97	100.35	103.36

**CLASSIFICATIONS:**

Journeyman Lineman

**ELECTRICIAN- UTILITY WORK (NORTH)**      **Rates Expiration Date :**

**Effective Dates:**

<b>12/03/2023</b>			<b>12/01/2024</b>
Rate	Fringe	Total	Total
59.38	40.97	100.35	103.36

**CLASSIFICATIONS:**

Special License Operator

**Effective Dates:**

<b>12/03/2023</b>			<b>12/01/2024</b>
Rate	Fringe	Total	Total
58.79	40.56	99.35	102.32

**CLASSIFICATIONS:**

Transit Man

**Effective Dates:**

<b>12/03/2023</b>			<b>12/01/2024</b>
Rate	Fringe	Total	Total
57.00	39.33	96.33	99.21

**CLASSIFICATIONS:**

Line Equipment Operator

**Effective Dates:**

<b>12/03/2023</b>			<b>12/01/2024</b>
Rate	Fringe	Total	Total
49.88	34.41	84.29	86.81

**CLASSIFICATIONS:**

Dynamite Man

**Effective Dates:**

<b>12/03/2023</b>			<b>12/01/2024</b>
Rate	Fringe	Total	Total
74.23	51.21	125.44	129.20

**CLASSIFICATIONS:**

General Foreman

**Effective Dates:**

<b>12/03/2023</b>			<b>12/01/2024</b>
Rate	Fringe	Total	Total
68.29	47.12	115.41	118.85

**CLASSIFICATIONS:**

Assistant General Foreman

**ELECTRICIAN- UTILITY WORK (NORTH)**      **Rates Expiration Date :**

**Effective Dates:**

<b>12/03/2023</b>			<b>12/01/2024</b>
Rate	Fringe	Total	Total
66.51	45.89	112.40	115.76

**CLASSIFICATIONS:**

Line Foreman

**Effective Dates:**

<b>12/03/2023</b>			<b>12/01/2024</b>
Rate	Fringe	Total	Total
48.10	33.18	81.28	83.72

**CLASSIFICATIONS:**

Street Light Mechanical Leader

**Effective Dates:**

<b>12/03/2023</b>			<b>12/01/2024</b>
Rate	Fringe	Total	Total
45.72	31.54	77.26	79.58

**CLASSIFICATIONS:**

Groundman Winch Operator

**Effective Dates:**

<b>12/03/2023</b>			<b>12/01/2024</b>
Rate	Fringe	Total	Total
45.72	31.54	77.26	79.58

**CLASSIFICATIONS:**

Groundman Truck Operator

**Effective Dates:**

<b>12/03/2023</b>			<b>12/01/2024</b>
Rate	Fringe	Total	Total
45.13	31.13	76.26	78.55

**CLASSIFICATIONS:**

Street Light Mechanic

**Effective Dates:**

<b>12/03/2023</b>			<b>12/01/2024</b>
Rate	Fringe	Total	Total
45.13	31.13	76.26	78.55

**CLASSIFICATIONS:**

Line Equipment Mechanic

**ELECTRICIAN- UTILITY WORK (NORTH)**      **Rates Expiration Date :**

**Effective Dates:**

<b>12/03/2023</b>			<b>12/01/2024</b>
Rate	Fringe	Total	Total
38.60	26.63	65.23	67.17

**CLASSIFICATIONS:**

Groundman 2nd Year

**Effective Dates:**

<b>12/03/2023</b>			<b>12/01/2024</b>
Rate	Fringe	Total	Total
35.63	24.58	60.21	62.02

**CLASSIFICATIONS:**

Groundman 1st Year

**Effective Dates:**

<b>12/03/2023</b>			<b>12/01/2024</b>
Rate	Fringe	Total	Total
58.79	40.56	99.35	102.32

**CLASSIFICATIONS:**

Line Equipment Foreman

**ELECTRICIAN- UTILITY WORK (SOUTH)**    **Rates Expiration Date :**

Electrician-Utility Work (South)

(For apprentice rates refer to Electrician-Utility Work (South) in any county rate package).

These rates apply to work contracted for by the following utility company:

Atlantic City Electric.

These rates do not apply to work on substations or switching stations.

For utility work contracted for by a utility company other than the one listed above or those listed under "Electrician-Utility Work (North), see the "Outside Commercial Rates" for the county in which the jobsite is located.

\* FOR OUTSIDE COMMERCIAL RATES PLEASE SEE COUNTY RATES

The regular workday is 8 hours, between 7:00 AM and 4:30 PM.

FOR EMERGENCY WORK ONLY: (emergency work is defined as work caused by storm, catastrophe, act of god, and circumstances beyond the control of the employer)- all hours of work shall be paid at double the hourly rate.

**SHIFT DIFFERENTIALS:**

Shift work must run for a minimum of 5 consecutive workdays.

When two (2) or three (3) shifts are worked the following shall apply:

1st shift (between the hours of 8:00 AM and 4:30 PM)

2nd shift (between the hours of 4:30 PM and 12:30 AM): 8 hours of work + 10% of the regular rate of pay for 7.5 hours worked.

3rd shift (between the hours of 12:30 AM and 8:00 AM): 8 hours of work + 15% of the regular rate of pay for 7 hours worked.

**OVERTIME:**

Hours in excess of 8 per day, or before or after the regular workday Monday through Friday, that is not shift work, and all hours on Saturday shall be paid at time and one-half the regular rate. All hours on Sundays and Holidays shall be paid double the hourly rate.

Four 10-hour days may be worked, at straight time, between 6:00 AM and 6:00 PM, Monday through Thursday with Friday used as a make-up day.

**RECOGNIZED HOLIDAYS:**

New Year's Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day and Christmas Day or on days celebrated.

**WORKING RULES:**

There shall be a Foreman in charge of each work crew. No crews are to exceed twelve (12) men, including Foremen.

There shall be a General Foreman designated for transmission work when three (3) or more crews are on the same job and for distribution work where there are more than twenty (20) employees on site.

A small job crew shall consist of five (5) or less employees, one (1) of the Journeyman Linemen in the crew shall be designated as a Small Job Foreman.

Work performed from ladders and/or mechanical lift equipment shall be the work of Linemen and/or Apprentices.

On new construction, fitting and framing poles, towers or structures may be done by Journeymen and/or Apprentices. Groundmen may assist, but may not perform any work which would be performed by Linemen if assembled in the air.

There shall be a Journeyman Lineman in each pole setting, erection, grounding, wire and cable-pulling crew of more than three (3) men.

**Effective Dates:**

**12/03/2023**

Rate	Fringe	Total
69.38	57.15	126.53

**CLASSIFICATIONS:**

General Foreman

**ELECTRICIAN- UTILITY WORK (SOUTH)**      **Rates Expiration Date :**

**Effective Dates:**

**12/03/2023**

Rate	Fringe	Total
61.79	52.45	114.24

**CLASSIFICATIONS:**

Foreman

**Effective Dates:**

**12/03/2023**

Rate	Fringe	Total
58.54	50.46	109.00

**CLASSIFICATIONS:**

Small Job Foreman

**Effective Dates:**

**12/03/2023**

Rate	Fringe	Total
54.20	47.78	101.98

**CLASSIFICATIONS:**

Heavy Equipment Operator

**Effective Dates:**

**12/03/2023**

Rate	Fringe	Total
54.20	47.78	101.98

**CLASSIFICATIONS:**

Cable Splicer

**Effective Dates:**

**12/03/2023**

Rate	Fringe	Total
54.20	47.78	101.98

**CLASSIFICATIONS:**

Journeyman Lineman

**Effective Dates:**

**12/03/2023**

Rate	Fringe	Total
54.20	47.78	101.98

**CLASSIFICATIONS:**

Journeyman Welder

**ELECTRICIAN- UTILITY WORK (SOUTH)**      **Rates Expiration Date :**

**Effective Dates:**

**12/03/2023**

Rate	Fringe	Total
54.20	47.78	101.98

**CLASSIFICATIONS:**

Journeyman Painter

**Effective Dates:**

**12/03/2023**

Rate	Fringe	Total
43.36	41.09	84.45

**CLASSIFICATIONS:**

Light Equipment Operator

**Effective Dates:**

**12/03/2023**

Rate	Fringe	Total
37.94	37.71	75.65

**CLASSIFICATIONS:**

Groundman Truck Driver

**Effective Dates:**

**12/03/2023**

Rate	Fringe	Total
35.23	36.05	71.28

**CLASSIFICATIONS:**

Groundman 3rd Year

**Effective Dates:**

**12/03/2023**

Rate	Fringe	Total
32.52	34.37	66.89

**CLASSIFICATIONS:**

Groundman 2nd Year

**Effective Dates:**

**12/03/2023**

Rate	Fringe	Total
29.81	32.69	62.50

**CLASSIFICATIONS:**

Groundman 1st Year

TERRITORY  
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION

ELECTRICIAN- UTILITY WORK (SOUTH)      Rates Expiration Date :

Effective Dates:

12/03/2023

Rate	Fringe	Total
23.85	29.03	52.88

**CLASSIFICATIONS:**

Flagman

HEAVY & GENERAL LABORERS- NEW TRANS HUDSON TUNNELS      Rates Expiration Date :

**\*\*THESE RATES APPLY TO CONSTRUCTION ON NEW TRANS HUDSON TUNNELS ONLY\*\***

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

**SHIFT DIFFERENTIALS:**

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$3.00 per hour.

**OVERTIME:**

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

**RECOGNIZED HOLIDAYS:** New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

**Hazardous Waste Work:**

- where Level A, B, or C protection is required: + \$5.00/hr
- other Hazardous Waste site: + \$1.00/hr

**Traffic Control Coordinator:** When either of the work classifications found below are working as a Traffic Control Coordinator they are to receive \$.75 above their current rate of pay.

**Effective Dates:**

	04/17/2024		03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
78.08	37.33	115.41	119.68	123.81

**CLASSIFICATIONS:**

Walking Boss & Superintendent

**Effective Dates:**

	04/17/2024		03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
77.63	37.33	114.96	119.23	123.36

**CLASSIFICATIONS:**

Heading Foreman, Shaft Foreman, Rod Foreman, Electrical Foreman, Rigging Foreman

**HEAVY & GENERAL LABORERS- NEW TRANS HUDSON TUNNELS**      **Rates Expiration Date :**

**Effective Dates:**

	04/17/2024		03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
76.88	37.33	114.21	118.48	122.61

**CLASSIFICATIONS:**

Iron Foreman, Caulking Foreman, Form Foreman, Cement Finishing Foreman, Concrete Foreman, Track Foreman, Clean-up Foreman, Grout Foreman

**Effective Dates:**

	04/17/2024		03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
80.63	37.33	117.96	122.23	126.36

**CLASSIFICATIONS:**

Blaster

**Effective Dates:**

	04/17/2024		03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
76.05	37.33	113.38	117.66	121.78

**CLASSIFICATIONS:**

Top Labor Foreman

**Effective Dates:**

	04/17/2024		03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
75.53	37.33	112.86	117.13	121.26

**CLASSIFICATIONS:**

Skilled Men (including Caulker, Powder Carrier, all other skilled men)

Skilled Men (including Miner, Drill Runner, Iron Man, Conveyor Man, Maintenance Man, Safety Miner, Rigger, Block Layer, Cement Finisher, Rod Man)

**Effective Dates:**

	04/17/2024		03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
75.30	37.33	112.63	116.91	121.03

**CLASSIFICATIONS:**

Semi-Skilled Men (including Bell or Signal Man top or bottom, Form Worker & Mover, Concrete Worker, Shaft Man, Tunnel Laborer, Caulker's Helper, all other semi-skilled)

Semi-Skilled Men (including Miner's Helper, Chuck Tender, Track Man, Nipper, Brake Man, Derail Man, Cable Man, Hose Man, Gravel Man, Form Man)

TERRITORY  
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT  
PREVAILING WAGE RATE DETERMINATION

HEAVY & GENERAL LABORERS- NEW TRANS HUDSON TUNNELS      Rates Expiration Date :

Effective Dates:

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
74.70	37.33	112.03	116.31	120.43

**CLASSIFICATIONS:**

All others (including Powder Watchman, Change House Attendant, Top Laborer, Job Steward)

# Schedule of Amounts for Contract Payments

U.S. Department of Housing and Urban Development  
Office of Public and Indian Housing

OMB Approval No. 2577-0157  
(Exp. 11/30/2023)

No progress payments shall be made to the contractor unless a schedule of amounts for contract payments in accordance with the construction contract is received.

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. HUD may not conduct or sponsor, and an applicant is not required to respond to a collection of information unless it displays a currently valid OMB control number. Construction practices and HUD administrative requirements establish the need that HAs maintain certain records or submit certain documents in conjunction with the oversight of the award of construction contracts for the construction of new low-income housing developments or modernization of existing developments. These forms are used by HAs to provide information on the construction progress schedule and schedule of amounts for contract payments. Responses to the collection of information are required to obtain a benefit or to retain a benefit. The information requested does not lend itself to confidentiality.

Project Name and Location	Project Number
---------------------------	----------------

Name, Address, and Zip Code of Contractor
---

Nature of Contract	Contract Number
--------------------	-----------------

Approved for Contractor by	Title	Date (mm/dd/yyyy)
----------------------------	-------	-------------------

Approved for Architect by	Title	Date (mm/dd/yyyy)
---------------------------	-------	-------------------

Approved for Owner by	Title	Date (mm/dd/yyyy)
-----------------------	-------	-------------------

Item No. (1)	Description of Item (2)	Quantity (3)	Unit of Measure (4)	Unit Price in Place (5)	Amount of Sub-Item (6)	Amount of Principal Item (7)
			<b>D</b>			

<b>Total Amount of Contract or Carried Forward</b>	\$
--	----

To the best of my knowledge, all the information stated herein, as well as any information provided in the accompaniment herewith, is true and accurate.  
**Warning:** HUD will prosecute false claims and statements. Conviction may result in criminal and/or civil penalties. (18 U.S.C. 1001, 1010, 1012; 31 U.S.C. 3729, 3802)

Signature of authorized representative	Date signed (mm/dd/yyyy)
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## Instructions for Preparation of form HUD-51000

1. A separate breakdown is required for each project and prime contract instructions for preparation are given below.
  - a. **Heading.** Enter all identifying information required for both forms.
  - b. **Columns 1 and 2.** In column 1, enter the item numbers starting with No. 1, and in column 2 enter each principal division of work incorporated in the contract work.
    - (1) **Master List.** The Master list contains the basic items into which any construction contract may be subdivided for the purpose of preparing the Construction Progress Schedule and the Periodical Estimates for Partial Payments. Only those items shall be selected which apply to the particular contract. To ensure uniformity, no change shall be made in the item numbers. Generally, about 25 to 40 major items appear in a contract.
    - (2) **Items Subdivided.** In the Contractor's breakdown, against which all periodical estimates will be checked prior to payment, each major item must be subdivided into sub-items pertinent to the project involved and in agreement with the Contractor's intended basis for requesting monthly payments.
  - c. **Column 3.** Enter the total quantity for each sub-item of each principal division of work listed in the breakdown.
  - d. **Column 4.** Enter the appropriate unit of measure for each sub-item of work opposite the quantities described in column 3, such as "sq. ft.," "cu. yd.," "tons," "lb.," "lumber per M/BM," "brickwork per M," etc., applicable to the particular sub-item. Items shown on "lump sum" or equivalent basis will be paid for only on completion of the whole item and not on a percentage of completion basis.
  - e. **Column 5.** Enter the unit price, in place, of each sub-item of work.
  - f. **Column 6.** Enter the amount of each sub-item obtained by multiplying the quantities in column 3 by the corresponding unit prices in column 5.
  - g. **Column 7.** Enter the amount of principal item only, obtained by adding the amounts of all sub-items of each principal division of work listed in column 6. Continue with the breakdown on form HUD-51000.
  - h. The "Schedule of Amounts for Contract Payments" shall be signed and dated in the space provided at the bottom of each sheet of the form by the individual who prepared the breakdown for the Contractor.
2. The minimum number of copies required for each submission for approval is an original and two copies. When approved, one fully approved copy will be returned to the Contractor.

### Master List of Items

Item No.	Division of Work	Item No.	Division of Work	Item No.	Division of Work
1	Bond	20	Rough Carpentry		
2	General Conditions	21	Metal Bucks	44	Retaining Walls
3	Demolition & Clearing	22	Caulking	45	Storm Sewers
	<b>Structures</b>	23	Weatherstripping	46	Sanitary Sewers
4	General Excavation	24	Lath & Plastering-Drywall	47	Water Distribution System
5	Footing Excavation	25	Stucco	48	Gas Distribution System
6	Backfill	26	Finish Carpentry	49	Electrical Distribution System
7	Foundation Piles & Caissons	27	Finish Hardware	50	Street & Yard Lighting
8	Concrete Foundations	28	Glass & Glazing	51	Fire & Police Alarm System
9	Concrete Superstructures	29	Metal Doors	52	Fire Protection System
10	Reinforcing Steel	30	Metal Base & Trim	53	Street Work
11	Waterproofing & Dampproofing	31	Toilet Partitions	54	Yard Work
12	Spandrel Waterproofing	32	Floors	55	(Other)
13	Structural Steel	33	Painting & Decorating	56	(Other)
14	Masonry	34	Screens		
15	Stonework	35	Plumbing		<b>Equipment</b>
16	Miscellaneous & Ornamental Metal	36	Heating	57	Shades & Drapery Rods
17	Metal Windows	37	Ventilating System	58	Ranges
18	Roofing	38	Electrical	59	Refrigerators
19	Sheet Metal	39	Elevators	60	Kitchen Cabinets & Work Tables
		40	Elevator Enclosures—Metal	61	Laundry Equipment
		41	Incinerators—Masonry & Parts	62	(Other)
		42	(Other)		
		43	(Other)	63	<b>Punch List</b> <sup>1</sup> / <sub>2</sub>
				64	Lawns & Planting

1 General Conditions should be 3% to 5% of contract amount.

2 Punch List should be approximately 1/2 of 1% or \$30 per dwelling unit, whichever is greater.

# Periodic Estimate for Partial Payment

**U.S. Department of Housing  
and Urban Development**  
Office of Public and Indian Housing

OMB Approval No. 2577-0157  
(exp. 11/30/2023)

Submit original and one copy to the Public Housing Agency.  
Complete instructions are on the back of this form.

Public reporting burden for this collection of information is estimated to average 3.5 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. HUD may not conduct or sponsor, and an applicant is not required to respond to a collection of information unless it displays a currently valid OMB control number. This information is collected under the authority of Section 6(c) of the U.S. Housing Act of 1937 and HUD regulations. HAs are responsible for contract administration to ensure that the work for project development is done in accordance with State laws and HUD requirements. The contractor/subcontractor reports provide details and summaries on payments, change orders, and schedule of materials stored for the project. The information will be used to ensure that the total development costs, identified in the ACC, are kept as low as possible and consistent with HUD construction requirements. Responses to the collection are necessary to obtain a benefit. The information requested does not lend itself to confidentiality.

Name of Public Housing Agency	Periodic Estimate Number	Period From (mm/dd/yyyy) To (mm/dd/yyyy)
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Location of Project	Project Number
---------------------	----------------

Name of Contractor	Contract Number
--------------------	-----------------

Item Number (1)	Description of Item (2)	Completed to Date (3)
		\$

<b>Value of Contract Work Completed to Date (Transfer this total to line 5 on back of this sheet)</b>	<b>\$</b>
---	-----------

**Instructions**

**Headings.** Enter all identifying data required. Periodic estimates must be numbered in sequence beginning with the number 1.

**Columns 1 and 2.** The "Item Number" and "Description of Item" must correspond to the number and descriptive title assigned to each principal division of work in the "Schedule of Amounts for Contract Payments", form HUD-51000.

**Column 3.** Enter the accumulated value of each principal division of work completed as of the closing date of the periodic estimate. Enter the total in the space provided.

**Certifications.** The certification of the contractor includes the analysis of amounts used to determine the net balance due. In the first paragraph, enter the name of the Public Housing Agency, the contractor, and the date of the contract. Enter the calculations used in arriving at the "Balance Due This Payment" on lines 1 through 16.

Enter the contractor's name and signature in the certification following line 16.

The latter portion of this certification relating to payment of legal rates of wages, is required by the contract before any payment may be made. However, if the contractor does not choose to certify on behalf of his/her subcontractors to wage payments made by them, he/she may modify the language to cover only himself /herself and attach a list of all subcontractors who employed labor on the site during the period covered by the Periodic Estimate, together with the individual certifications of each.

**Certification of the Contractor or Duly Authorized Representative**

According to the best of my knowledge and belief, I certify that all items and amounts shown on the other side of this form are correct; that all work has been performed and material supplied in full accordance with the items and conditions of the contract between the (name of owner)

\_\_\_\_\_ and (contractor) \_\_\_\_\_

dated (mm/dd/yyyy) \_\_\_\_\_, and duly authorized deviations, substitutions, alterations, and additions; that the following is a true and correct statement of the Contract Account up to and including the last day of the period covered by this estimate, and that no part of the "Balance Due This Payment" has been received.

1. Original Contract Amount \$ \_\_\_\_\_

**Approved Change Orders:**

2. Additions (Total from Col. 3, form HUD-51002) \$ \_\_\_\_\_  
3. Deductions (Total from Col. 5, form HUD-51002) \$ \_\_\_\_\_ (net) \$ \_\_\_\_\_  
4. Current Adjusted Contract Amount (line 1 plus or minus net) \$ \_\_\_\_\_

**Computation of Balance Due this Payment**

5. Value of Original Contract work completed to date (from other side of this form) \$ \_\_\_\_\_

**Completed Under Approved Change Orders**

6. Additions (from Col. 4, form HUD-51002) \$ \_\_\_\_\_  
7. Deductions (from Col.5, form HUD-51002) \$ \_\_\_\_\_ (net) \$ \_\_\_\_\_  
8. Total Value of Work in Place (line 5 plus or minus net line 7) \$ \_\_\_\_\_  
9. **Less:** Retainage, \_\_\_\_\_ % \$ \_\_\_\_\_  
10. Net amount earned to date (line 8 less line 9) \$ \_\_\_\_\_  
11. **Less:** Previously earned (line 10, last Periodic Estimate) \$ \_\_\_\_\_  
12. Net amount due, work in place (line 10 less line 11) \$ \_\_\_\_\_

**Value of Materials Properly Stored**

13. At close of this period (from form HUD-51004) \$ \_\_\_\_\_  
14. **Less:** Allowed last period \$ \_\_\_\_\_  
15. Increase (decrease) from amount allowed last period \$ \_\_\_\_\_  
16. **Balance Due This Payment** \$ \_\_\_\_\_

I further certify that all just and lawful bills against the undersigned and his/her subcontractors for labor, material, and equipment employed in the performance of this contract have been paid in full in accordance with the terms and conditions of this contract, and that the undersigned and his/her subcontractors have complied with, or that there is an honest dispute with respect to, the labor provisions of this contract.

Name of Contractor \_\_\_\_\_ Signature of Authorized Representative \_\_\_\_\_ Title \_\_\_\_\_ Date (mm/dd/yyyy) \_\_\_\_\_

**Certificate of Authorized Project Representative and of Contracting Officer**

Each of us certifies that he/she has checked and verified this Periodic Estimate No. \_\_\_\_\_; that to the best of his/her knowledge and belief it is a true statement of the value of work performed and material supplied by the contractor; that all work and material included in this estimate has been inspected by him/her or by his/her authorized assistants; and that such work has been performed or supplied in full accordance with the drawings and specifications, all applicable accessibility requirements (including Section 504 and Title II of the Americans with Disabilities Act; and the Fair Housing Act and Title III of the Americans with Disabilities Act, if applicable), the terms and conditions of the contract, and duly authorized deviations, substitutions, alterations, and additions, all of which have been duly approved.

We, therefore, approve as the "Balance Due this Payment" the amount of \$ \_\_\_\_\_

Authorized Project Representative \_\_\_\_\_ Date (mm/dd/yyyy) \_\_\_\_\_ Contracting Officer \_\_\_\_\_ Date (mm/dd/yyyy) \_\_\_\_\_

I certify the information on this form and in any accompanying documentation is true and accurate. I acknowledge making, presenting, or submitting a false, fictitious, or fraudulent statement, representation, or certification may result in criminal, civil, and/or administrative sanctions, including fines, penalties, and confinement for up to 5 years, (18 U.S.C. §§ 287, 1001 and 31 U.S.C. §3729)

# Schedule of Change Orders

**U.S. Department of Housing and Urban Development**  
Office of Public and Indian Housing

OMB Approval No. 2577-0157  
(exp. 11/30/2023)

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. HUD may not conduct or sponsor, and an applicant is not required to respond to a collection of information unless it displays a currently valid OMB control number.

This information is collected under the authority of Section 6(c) of the U.S Housing Act of 1937 and HUD regulations. HAs are responsible for contract administration to ensure that the work for project development is done in accordance with State laws and HUD requirements. The contractor/subcontractor reports provide details and summaries on payments, change orders, and schedule of materials stored for the project. The information will be used to ensure that the total development costs, identified in the ACC, are kept as low as possible and consistent with HUD construction requirements. Responses to the collection are necessary to obtain a benefit. The information requested does not lend itself to confidentiality.

**Instructions:** Contractors use this form for reporting the details of approved Change Orders. Attach an original (or a copy) to each copy of the Periodic Estimate for Partial Payment (form HUD-51001) submission, and send to the Public Housing Agency. Complete all entries. Only Change Orders which bear the signatures required by the contract are to be recorded.

Name of Public Housing Agency	Supporting Periodic Estimate for Partial Payment Number	Period From (mm/dd/yyyy) to (mm/dd/yyyy)
Location of Project	Project Number	
Name of Contractor	Contract Number	

Approved Change Orders		Additions		Deductions
Change Order Number (1)	Dated (mm/dd/yyyy) (2)	Total Amount of Change Order (3)	Value of Work Completed to Date (4)	Total Amount of Change Order (5)
		\$	\$	\$
<b>Totals</b>		\$	\$	\$

Authorized Project Representative	Date (mm/dd/yyyy)
-----------------------------------	-------------------

I certify that the information provided on this form and in any accompanying documentation is true and accurate. I acknowledge that making, presenting, or submitting a false, fictitious, or fraudulent statement, representation, or certification may result in criminal, civil, and/or administrative sanctions, including fines, civil penalties, and confinement for up to 5 years. (18 U.S.C. §§ 287, 1001 and 31 U.S.C. §3729)

## SECTION 011000 - SUMMARY

### PART 1 - GENERAL REQUIREMENTS

#### 1.01 SUMMARY

- A. The owner is: **The Asbury Park Housing Authority**  
**1000 ½ 3<sup>rd</sup> Avenue**  
**Asbury Park NJ 07712**
- Attn: Ms. Shemea Marshall, MBA – Executive Director**  
**Mr. Ed McDonald - Director of Maintenance**
- B. Section Includes:
1. Project description.
  2. Contracts scope description.
  3. Applicable regulatory requirements.
  4. Permits and licenses.
  5. Access to the site.
  6. Contractor's use of the premises.
  7. Coordination requirements.
  8. Coordination drawings.
  9. Pre-construction meeting.

#### 1.02 PROJECT DESCRIPTION

- A. The project consists of **New Wrought Iron Perimeter Fencing & Masonry Pier Work at The Lumley Homes Site Located at 1004 Comstock Street & 1025 Second Avenue Asbury Park, NJ 07712**
1. As shown in contract documents prepared by MVMK, LLC
- B. The work consists of:
- New Wrought Iron Perimeter Fencing & Masonry Pier Work  
at The Lumley Homes Site Located at 1004 Comstock Street & 1025 Second Avenue Asbury  
Park, NJ 07712**
- C. **Milestone Events and Dates:**
1. Initial Mobilization, Initial Site Setup and Commencement of Construction  
**Date of Contract Signing & Notice to Proceed**
  2. **Substantial Completion** of All aspects of this project:  
  
60 Consecutive Calendar Days after Contract Signing & Notice to Proceed Issued
- D. The Contractor shall complete any uncompleted items on the Certificate of Substantial completion with 30 calendar days or a time fixed by the Architect on the Certificate of Substantial Completion. If the contractor fails to complete all uncompleted items within the time established, the Contractor will pay additional Liquidated Damages in the same amount established for Substantial completion until all work is finally completed.

### **1.03 ENUMERATION OF PRIME CONTRACTS**

- A. The General Contractor's prime contract shall include the work described in:
  - 1. The agreement & all project work.
  - 2. The general and supplementary conditions.
  - 3. All Specifications & Construction Documents

### **1.04 DEFINITIONS**

- A. **Furnish:** To supply products to the project site, including delivering ready for unloading and replacing damaged and rejected products.
- B. **Install:** To put products in place in the work ready for the intended use, including unloading, unpacking, handling, storing, assembling, installing, erecting, placing, applying, anchoring, working, finishing, curing, protecting, cleaning, and similar operations.
- C. **Indicated:** Shown, noted, scheduled, specified, or drawn, somewhere in the contract documents.

### **1.05 REGULATORY REQUIREMENTS**

- A. The following regulations are applicable to this project:
  - 1. The International Building Code (current edition). Any additional agencies required for mold remediation work as per Section 028500 Mold Remediation.
- B. Other regulations may also be applicable.
- C. Submit copies of all permits, licenses, and similar permissions obtained, and receipts for fees paid, to the owner directly.

### **1.06 ACCESS TO THE SITE AND USE OF THE PREMISES**

- A. Access to site will be extremely limited; obtain owner's approval of proposed routes of access.
- B. The following existing facilities may not be used by construction personnel:
  - 1. Toilet facilities – Only with approval from the owner
  - 2. Contractor to provide Port O John in the event toilet facilities are not granted by ownership
- C. The owner & tenants will occupy the existing building during the construction period.
  - 1. The owner will endeavor to cooperate with the contractor's operations when the contractor has notified the owner in advance of need for changes in operations in order to accommodate construction operations.
  - 2. Conduct the work so as to cause the least interference with the owner's operations.
- D. Coordinate with Local Authorities as to which routes are capable of handling heavy truck traffic.

- E. Signs: Provide signs adequate to direct visitors.
  - 1. Do not install, or allow to be installed, signs other than specified sign(s) and signs identifying the principal entities involved in the project.
- F. All deliveries by the Contractors to be coordinated with the Owner, prior to the delivery date.

**PART 2 - PRODUCTS (NOT USED)**

**PART 3 - EXECUTION**

**3.01 PRECONSTRUCTION MEETING**

- A. A pre-construction meeting will be held at a time and place designated by the construction manager, architect & owner's representatives for the purpose of identifying responsibilities of the owner's and the architect's personnel and explanation of administrative procedures.
- B. The contractor shall also use this meeting for the following minimum agenda:
  - 1. Construction schedule.
  - 2. Use of areas of the site
  - 3. Delivery and storage.
  - 4. Safety.
  - 5. Security.
  - 6. Cleaning up.
  - 7. Contractor procedures relating to:
    - a. Submittals.
    - b. Applications for payment.
    - c. Record documents.
- C. Attendees shall include:
  - 1. The Owner's Representatives
  - 2. The Contractor's Construction Manager.
  - 3. The Architect and any consultants.
  - 4. The General Contractor, their superintendents & Sub-Contractors.
  - 5. Others interested in the work.
- D. Owner's Representative

**Mr. Ed McDonald - Director of Maintenance**

**The Asbury Park Housing Authority  
1000 1/2 3<sup>rd</sup> Avenue  
Asbury Park NJ 07712**

**3.02 COORDINATION WITH OCCUPANTS**

- A. Occupied areas include all areas in which the owner's regular operations will be going on or to which the owner requires access during the construction period, whether conducted by the owner or his customers, clientele, or the public.
- B. Contractors shall coordinate all work schedules with the owner.

- C. Limit access through occupied areas to those days and times which the owner approves.
- D. Provide separated access from the exterior to the construction area, without passing through occupied area, unless coordinated with the owner in advance.
- E. When the following must be modified, provide alternate facilities acceptable to the owner:
  - 1. Emergency means of egress.
  - 2. Entrances which must remain open.
  - 3. Utilities which must remain in operation.
  - 4. Informational signage.

### **3.03 SECURITY PROCEDURES**

- A. Limit access to the site to persons involved in the work.
- B. Provide secure storage for materials for which the owner has made payment and which are stored on site.
- C. Secure completed work as required to prevent loss.

### **3.04 COORDINATION**

- A. The General contractor shall coordinate his activities with the activities of other contractors.**
  - 1. Inform the owner when coordination of his work is required.
- B. Participate in progress meetings; report progress, changes required in schedules, and unresolved problems.
- C. Observe work for compliance with contract documents and notify the applicable contractor in writing of observed defects in the work.
- D. Coordinate maintenance of record documents.
- E. Assist the architect with final inspections.

**END OF SECTION 011000**

## **SECTION 012000 - ALTERNATES, ALLOWANCES AND UNIT PRICES**

### **PART 1 - GENERAL**

#### **1.01 SUMMARY**

- A. Section Includes:
  - 1. Alternates:
    - a. N/A
  - 2. Allowances:
    - a. List of Allowances to be included in contract.
    - b. Procedures for using allowance amounts.
  - 3. Unit Prices:
    - a. See Unit Prices Below
- B. Related Sections:
  - 1. Applications for payment: Elsewhere in Division 1.
  - 2. Procedures for modifications to the contract: Elsewhere in Division 1.
  - 3. Contract closeout procedures: Elsewhere in Division 1.

#### **1.02 ALTERNATES**

- A. N/A

#### **1.03 ALLOWANCE LIST**

- B. **Allowance GC-1 - General Allowance (To be included in the base bid of project)**  
General Construction Allowance - \$5,000.00 - (Five Thousand Dollars)

#### **1.04 UNIT PRICES**

- A. **GC-1 – 6'-0" wide x 8'-0" finished steel fence panel**  
Price includes all Labor & Material

#### **1.05 SUBMITTALS**

- A. Supporting Data: With applications for payment covering allowance work submit executed modification to the contract.
  - 1. For variations in lump sum cost, include invoices showing actual cost.
- B. Supporting Data: With applications for payment covering unit price work submit substantiated measurement of quantity installed or executed.

**1.06 CONTRACT CONSIDERATIONS**

A. Allowances & Unit Prices:

1. Include in the contract sum all allowances defined in the contract documents.

B. Procedures for Modifications to the Contract: Procedures for submitting and handling modifications due to changes are specified elsewhere.

**PART 2 - PRODUCTS (NOT USED)**

**PART 3 - EXECUTION (NOT USED)**

**END OF SECTION 012000**

## SECTION 012200 - PAYMENT, MODIFICATION, AND COMPLETION PROCEDURES

### PART 1 - GENERAL

#### 1.01 SUMMARY

- A. Section Includes:
  - 1. Payment procedures.
  - 2. Modification procedures.
  - 3. Completion procedures.
  
- B. Related Requirements Specified Elsewhere in the Project Manual:
  - 1. Progress payment dates and time limits.
  - 2. Retainage.

#### 1.02 CONTRACT CONDITIONS

- A. See the conditions of the contract for additional requirements.
- B. No payment will be made for materials or equipment stored off site.
- C. **Payments will be withheld if the contractor fails to make dated submittals within the time periods specified.**

#### 1.03 DEFINITIONS

- A. Change Proposal Request: Any written request from the owner or architect to the contractor for a quotation, price, or breakdown on a change proposed but not ordered.
- B. Final Completion: The stage at which all incomplete and incorrect work has been completed or corrected in accordance with the contract documents.
- C. List of Incomplete Work: A comprehensive list of items to be completed or corrected, prepared by the contractor for the purpose of obtaining certification of substantial completion. This list is also referred to as a "punchlist."
- D. Modifications: Written amendments to the contract signed by both the owner and the contractor, change orders, construction change directives, and written orders for a minor change in the work issued by the architect.
- E. Substantial Completion: The time at which the work, or a portion of the work which the owner agrees to accept separately, is sufficiently complete in accordance with the contract documents so that the owner can occupy or use the work for its intended purpose.
- F. Time and Material Work: Work which will be paid for on the basis of the actual cost of the work, including materials, labor, equipment, and other costs as defined elsewhere, as documented by detailed records. This basis is also referred to using the terms "cost-plus," "cost of the work," "force account," and similar terms.

#### 1.04 SUBMITTALS

- A. Applications for Progress Payments: Submit sufficiently in advance of date established for the progress payment to allow for the processing indicated.
- B. Architect will establish deadline dates for submission of each month's Application for Progress Payments, at the first job progress meeting. These dates will be adhered to by the Contractor. Application for Progress payments received after the established dates, will be return to the contractor for resubmission at the next month's pay period.

## **PART 2 - PRODUCTS (NOT USED)**

## **PART 3 - EXECUTION**

### **3.01 APPLICATIONS FOR PAYMENT**

- A. Application for Payment Forms: Use HUD 51001 Periodic Estimate for Partial Payment Application and HUD 51000a Schedule of Amounts for Contract Payments, Certified Payroll Reports
- B. Preparation of Applications for Payment: Complete form entirely.
  - 1. Make current application consistent with previous applications, certificates for payment, and payments made.
  - 2. Provide digital pencil copy for first review prior to hard copies listed below.
  - 3. Base application on current schedule of values and contractor's construction schedule.
  - 4. Include amounts of modifications issued before the end of the construction period covered by the application.
  - 5. Include signature by person authorized by the contractor to sign legal documents.
  - 6. Notarize each copy once approved.
  - 7. Submit three (3) copies to the Architect, plus one (1) additional copy to the Architect's Consultants as required.
  - 8. Attach waivers of lien.
  - 9. Attach current, updated schedule of values.
  - 10. Attach Owner's Voucher form with each application for payment.
- C. Provide the following information with every application for payment which involves work completed on a time and material basis:
  - 1. Detailed records of work done, including:
    - a. Dates and times work was performed, and by whom.
    - b. Time records and wage rates paid.
    - c. Invoices and receipts for products.
  - 2. Provide similar detailed records for subcontracts.
- D. Transmit application for payment with a transmittal form itemizing supporting documents attached.
  - 1. Transmit to the Architect.
    - a. Plumbing and Gas Fitting Prime Contractor to transmit one (1) copy to the Architect's Mechanical Engineer.
    - b. Heating Ventilating and Air Conditioning Systems and Equipment Prime Contractor to transmit one (1) copy to the Architect's Mechanical Engineer.
    - c. Electrical Prime Contractor to transmit one (1) copy to the Architect's Electrical Engineer.
    - e. Architect's Consultants (Plumbing, Mechanical and Electrical) are noted on the title

page of the Specifications Manual.

### **3.02 WAIVERS OF LIEN**

- A. Submit, with each application for payment, waivers of lien from every entity who performed work during the period covered by the previous application for payment, and who may be legally entitled to file a mechanic's or other lien against the work.
- B. Waiver of Lien Forms: Use forms acceptable to the owner / provided by owner.

### **3.03 FIRST PAYMENT PROCEDURE**

- A. The first application for payment will not be reviewed until the following submittals have been received and approved by the Owner and Architect:
  - 1. Certificates of Insurance.
  - 2. Performance and Payment Bonds.
  - 3. Schedule of Values.
  - 4. List of subcontractors, principal suppliers, and fabricators.
  - 5. Contractor's Construction Schedule.
  - 6. Submittal Schedule.
  - 7. Quality control activities schedule.
  - 8. Schedule of Products.
  - 9. Unit Price Schedule.
  - 10. Names of the contractor's principal staff assigned to the project.
  - 11. Names of the contractor's principal consultants.
  - 12. Copies of building permits and other authorizations from governing authorities.
  - 13. First Progress Report.
  - 14. All submittals specified to occur prior to first application for payment or prior to first payment.

### **3.04 MODIFICATION PROCEDURES**

- A. Designate a single individual authorized to receive change documents and who will be responsible for informing others of changes to the work.
- B. Changes in cost resulting from modifications shall include only those costs specified elsewhere in the contract documents.
- C. When requested in writing, the contractor shall provide sufficient information for evaluation of proposed changes within 10 working days.
- D. Provide the following information for every change proposal request:
  - 1. The amount of change in the contract sum, if any.
  - 2. The amount of change in the contract time, if any, with explanation.
  - 3. Cost breakdown, using schedule of values line items, separated into material and labor costs, additions and deletions, and with overhead and profit handled in the same manner as specified for the schedule of values.
  - 4. The period of time within which the proposed changes in contract sum or time will be valid.
  - 5. A statement describing the effect the change may have on the work of other prime contractors.
  - 6. Upon request, provide the following information:
    - a. Quantities and unit costs of products, labor, and equipment.
    - b. Taxes, insurance, and bonds.

- c. Overhead and profit.
- E. When changes are performed on a time and material basis, identify the applicable modification on the application for payment.
- F. Provide the following information with every claim for additional costs:
  - 1. Origin and date of claim.
  - 2. Detailed records as specified for time and material work.
  - 3. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
- G. The contractor may propose changes.
  - 1. Do not use change order form.
  - 2. Provide the information required for change proposal requests.
  - 3. Describe reasons for change.
  - 4. Document proposed substitutions as specified elsewhere.

### 3.05 SUBSTANTIAL COMPLETION PROCEDURES

- A. Request for inspection and application for payment may coincide.
- B. The Architect will perform **one (1) inspection** for substantial completion, upon request of the contractor.
  - 1. **If the Architect is unable to issue the certificate of substantial completion because the work is not considered to be substantially complete, the contractor shall pay all subsequent inspection costs, including compensation for the Architect's services and expenses.**
  - 2. Only one certificate of substantial completion will be issued, for the entire project.
- C. Do not submit request for inspection for substantial completion until the following activities and submittals have been completed:
  - 1. Submit list of incomplete work ("Punchlist").
  - 2. Delivery of maintenance materials and tools.
    - a. Submit a copy of the transmittal to the Architect.
  - 3. Demonstration of all equipment and systems.
    - a. Submit a copy of the demonstration reports to the Architect.
  - 4. Instruction of the owner's personnel.
    - a. Submit a copy of the instruction reports to the Architect.
  - 5. Removal of temporary facilities.
  - 6. Changeover to permanent locking systems.
    - a. Submit copies of all keying records to the Architect.
  - 7. Final cleaning.
  - 8. The owner has been informed, in writing, of necessary procedures for changing over insurance coverages.
    - a. Submit copy of letter to the Architect.
  - 9. The owner has been informed of procedures for changing over operation, maintenance, security,

etc., confirmed in writing.

- a. Submit a copy of the confirmation letter to the Architect.
10. The Owner has received occupancy and operating permits from authorities having jurisdiction.
    - a. Submit copies of all occupancy permits and operating permits to the Architect.
  11. Submit copies of all startup reports.
  12. Submit copies of all final testing, adjusting, and balancing reports.
  13. Submit all specific warranties, required by the individual specifications sections.
  14. Submit all required maintenance agreements, as required by the individual specifications section.
  15. Submit all required operation and maintenance data.
  16. Submit all project record documents.
    - a. See specification section 01800 for specific requirements for submittal of project record documents.
  17. All activities and submittals specified to occur prior to substantial completion.
- D. Submit the following with application for payment at substantial completion:
1. Contractor's Affidavit of Release of Liens.
  2. Contractor's Affidavit of Payment of Debts and Claims.
  3. Meter readings of all utilities services for which the contractor has been paying.
  4. Final list of incomplete work ("Punchlist").
  5. Other data required by the contract documents.

### 3.06 FINAL COMPLETION PROCEDURES

- A. Request for final inspection and final application for payment may coincide.
- B. The Architect will perform **one (1) inspection** for final completion, upon request of the contractor.
  1. Submit the following with request for inspection:
    - a. Previous inspection lists indicating completion of all items.
    - b. If any items cannot be completed, obtain prior approval of such delay.
  2. **If the Architect is unable to issue the certificate for final payment because the work is not complete, the contractor shall pay all subsequent inspection costs, including compensation for the Architect's services and expenses.**
- C. Do not submit request for final inspection until the following activities have been completed:
  1. Completion of all work, except those items agreed upon by the owner.
  2. Contractor has arranged for trash collection with County and or Local agencies.
  3. All activities specified to occur between substantial completion and final completion.
- D. Do not submit request for final inspection until the following submittals have been completed:
  1. Submit Prevailing Wage Rate Affidavit.
  2. Submit Asbestos-Free Materials Statement.
    - a. Certification that no asbestos products nor asbestos contained products have been used

on this project.

3. Submit final meter readings for utilities and similar data as of the date of Substantial Completion or when the Owner took possession and or responsibility for corresponding elements of the work.
  4. All other outstanding specified submittals.
- E. Prior to application for final payment, furnish a written notarized certification, certifying that the Work is in conformance with applicable laws, ordinances, rules, regulations and lawful orders.
- F. Submit the following with the final application for payment:
1. Certified copy of the previous list of items to be completed or corrected, ("Punchlist") stating that each has been completed or otherwise resolved for acceptance.
  2. Updated final statement, accounting for final changes to the contract sum, including copies of all approved change orders.
  3. Consent of Surety to Final Payment.
    - a. The Contractor shall file with the Owner, as a condition of final acceptance, a statement from the Surety of his Performance Bond and Payment Bond that the Surety is satisfied that all claims for labor and material supplied under his contract have been satisfactorily settled.
  4. Final Liquidated Damages Statement, acceptable to Owner.
  5. Meter readings of all utilities services for which the contractor has been paying after substantial completion.
  6. Certification that financial obligations to governing authorities and public utilities have been fulfilled.
  7. Description of any unsettled claims.
  8. Certification that insurance coverage has been maintained throughout the length of the entire project, from Notice to Proceed to Final Closeout.
  9. Certificates of insurance for all coverages specified to commence at final completion, if required.
  10. Maintenance Bond in ten (10%) percent of the contract sum (for one year from date of Substantial Completion).
  11. Change-over of permanent locks and delivery of keys to the Owner, if applicable.
  12. Other data required by the contract documents.

**END OF SECTION 012200**

## **SECTION 012500 - PROGRESS DOCUMENTATION AND PROCEDURES**

### **PART 1 - GENERAL**

#### **1.01 SUMMARY**

- A. Section Includes:
  - 1. Progress documentation requirements:
    - a. Preliminary demolition schedule.
    - b. Contractor's demolition & construction schedule.
    - c. Progress reports.
    - d. Progress photographs.
  - 2. Progress procedures:
    - a. Progress meetings if needed.
- B. Contract time is indicated elsewhere.
- C. Related Sections:
  - 1. Applications for payment: Elsewhere in Division 1.
  - 2. Coordination meetings: Elsewhere in Division 1.
  - 3. Preconstruction meeting: Elsewhere in Division 1.
  - 4. Schedule of values: Elsewhere in Division 1.
  - 5. Submittal schedule: Elsewhere in Division 1.
  - 6. Quality control activities schedule: Elsewhere in Division 1.
  - 7. Milestone Dates and Events: Elsewhere in Division 1.

#### **1.02 SUBMITTALS**

- A. Preliminary demolition & construction schedule.
  - 1. Submit within 7 days after notice to proceed.
- B. Contractor's demolition & construction schedule.
  - 1. Submit before second project meeting, or as directed by the Architect .
  - 2. Submit revised schedule with application for payment.
- C. PDF Daily construction progress reports: Submit every week.
- D. PDF Progress Reports: Submit with each application for payment if needed.
- E. Digital Progress Photographs: Submit with each application for payment.
- F. PDF Minutes of progress meetings if applicable

#### **1.03 FORM OF SUBMITTALS**

- A. Schedules - General:

1. Provide legend of symbols and abbreviations for each schedule.
  2. Use the same terminology as that used in the contract documents.
  3. Provide digital copies via PDF of all submittals
- C. Reports - General:
1. Provide pdf's of any construction & remediation information
- D. Photographs: Digital
1. Provide weekly photos of remediation & construction

#### **1.04 COORDINATION**

- A. The General Work Contractor, Contract No.1 is responsible for coordinating all prime Contractor's schedules.
- B. Each Prime Contractor responsible for coordinating reporting with other contractors.
- C. In preparation of schedules, take into account the time allowed or required for the housing authority administrative procedures.
- D. Notify entity responsible for coordination of schedules promptly when problems are anticipated in meeting schedule dates.

#### **PART 2 - PRODUCTS (NOT USED)**

#### **PART 3 - EXECUTION**

##### **3.01 PRELIMINARY CONSTRUCTION SCHEDULE**

- A. The General Work Contractor, Contract No.1, shall prepare and submit preliminary demolition & construction schedule:
  1. All prime Contractors submit their schedules to the General Work Contractor in time for incorporation into the preliminary construction schedule.
  2. Submit digital copies to all other prime contractors.
- B. Provide preliminary demolition schedule in the form of bar charts or network analysis diagrams:
  1. Show activities of construction in detail;
  2. Show completion of the work in advance of the date established for substantial completion.
  3. Include dates and description of all submittals required during construction.
    - a. Include those required by the construction schedule.
    - b. Submittal dates may be provided in a separate list rather than on the schedule.
  4. The Architect will notify the Contractors if schedule is not satisfactory; revise and resubmit.
    - a. Resubmit within 3 days.

### 3.02 CONTRACTOR'S DEMOLITION & CONSTRUCTION SCHEDULE

- A. The General Construction Work Contractor, Contract No.1 shall prepare and submit a complete construction schedule:
  - 1. Obtain and incorporate schedules of all other prime Contractors.
  - 2. Base any demolition schedule on preliminary construction schedule, with adjustments due to changes since start of work.
  
- B. Provide demolition & construction schedule:
  - 1. Show each prime Contractor work and the activities of all prime contractors.
  - 2. Use the same items of work as shown in the schedule of values.
  - 3. Where related activities must be performed in sequence, show relationship graphically.
  - 4. Indicate activities separately for:
    - a. Each Unit
    - b. Exterior and/or Interior Alterations.
  - 5. Incorporate the submittal schedule specified elsewhere.
  - 6. Incorporate the quality control activities schedule specified elsewhere.
  - 7. Show dates of:
    - a. Each activity that influences the construction time.
    - b. Occupancy of public property and obstruction of the public way.
    - c. Preconstruction meeting.
    - d. Specified pre-installation meetings.
    - e. Quality control activities which involve long lead time or long elapsed time.
    - f. Ordering dates for products requiring long lead time.
    - g. All submittals required.
    - h. Completion of mechanical work.
    - i. Completion of electrical work.
    - j. Completion of Plumbing Work
    - m. Substantial and final completion, with time frames for the Architect's completion procedures.
  - 8. Show dates required for:
    - a. Delivery of Owner-furnished products.
    - b. Selection of products to be furnished under an allowance.
    - c. Approval of mock-ups required for approval of products.
  - 9. In developing the schedule take into account:
    - a. Phased completion if agreed upon.
    - b. Work under other contracts.
    - c. Work by Owner.
    - d. Continued occupancy.
    - e. Interruption of services to occupied facilities.
    - f. Occupancy by Owner prior to substantial completion.
    - g. Site limitations.
    - h. Provisions made for future work.

- I. Weather, including seasonal changes.
  - J. Need for temporary heating, ventilating, or air-conditioning.
10. Include the following supporting report(s):
- a. Data summary.
  - b. Critical path summary as needed.
  - c. Cost summary as needed.
- C. The Architect will notify the Contractor if schedule is not satisfactory; revise and resubmit.
- 1. Resubmit within (7) days unless otherwise directed by the Architect.
- D. The General Construction Work Contractor shall provide digital copies of schedule and distribute to the Architect, to the Owner, to all prime Contractors, and to other entities whose work will be influenced by schedule dates.
- 1. Each prime Contractor shall make digital copies to his subcontractors, suppliers, and other parties.
  - 2. Hang a copy of the schedule up in each field office or meeting room.
- E. The General Construction Work Contractor shall update the schedule whenever changes occur or are made, or when new information is received, but not less often than at the same intervals at which applications for payment are made.
- 1. Indicate changes made since last issue; show actual dates for activities completed.
  - 2. Submit updated schedule with application for payment.
  - 3. Issue updated schedule with report of meeting at which revisions are made.
  - 4. Issue updated schedule in same manner as original schedule.
  - 5. Include the same supporting reports as for original schedule.
  - 6. Updating of Schedule: The General Construction Work Contractor, Contract No.1 will be required to update the Schedule at intervals not less than those at which applications for than those at which applications for payment are made. All original supporting reports will be required. If any additional information not originally asked for or not applicable to the original submission is required, Specifier will need to describe that information.

### **3.03 PROGRESS REPORTS**

- A. Daily Construction Logs: Every day, the General Construction Work Contractor shall record the following information concerning events at the site:
- 1. Weather conditions; high and low temperatures.
  - 2. Approximate number of persons at the site.
  - 3. Names of prime Contractors at site.
  - 4. Visitors to the site.
  - 5. All information required of each prime Contractor.
- B. Daily Construction Logs: Every day, each prime Contractor shall record the following information concerning events at the site:
- 1. Modifications to the contract received; modifications implemented.
  - 2. Changes in occupancy.
  - 3. Delays; reasons for delay.
  - 4. Emergencies and accidents.
  - 5. Equipment and system start-ups and tests.

6. Field quality control activities conducted.
  7. Instrument and meter readings.
  8. Losses of material and property.
  9. Meetings held and significant decisions made there.
  10. Names of subcontractors at site.
  11. Special reports made.
  12. Orders and requests of representatives of governing authorities.
  13. Unusual events.
  14. Utility service disconnections and connections.
- C. Progress Reports: The General Construction Work Contractor shall prepare a narrative report describing the general state of completion of the work and describing in detail the following:
1. Actual and anticipated delays, their impact on the schedule, and corrective actions taken or proposed.
  2. Actual and potential problems.
  3. Status of change order work.
  4. Effect of delays, problems, and changes on the schedules of other prime contractors.
  5. Outstanding change proposal requests.
  6. Status of corrective work ordered by the Architect.
- D. Progress Photographs: Contractors shall take and submit progress photographs:
1. Take photos of site before start of construction.
  2. Take a minimum of 12 photos for each submission.
  3. Take photos not more than one week prior to submittal of application for payment.
  4. Take photos from positions chosen to show the current status of completion and progress since previous photos were taken.
    - a. Select 2 views which will show overall status during entire construction period; take photographs of these views each time.

### **3.04 PROGRESS MEETINGS**

- A. The General Construction Work Contractor shall schedule and conduct periodic progress meetings during the construction period, prepare and distribute agenda, and record and distribute minutes.
1. Have meetings bi-weekly or as directed by the Architect / Owner.
  2. Notify the Architect and the Owner at least one week in advance of date of meeting; the Architect and the Owner may attend.
- B. The following are required to attend:
1. All prime Contractors.
  2. All prime Contractors' superintendents.
  3. Major subcontractors and suppliers.
  4. Others who have an interest in the agenda.
- C. Prepare and distribute agenda prior to meetings; cover the following topics when applicable:
1. Review minutes of previous meeting.
  2. Status of submittals and impending submittals.
  3. Off-site fabrication and delivery schedules.

4. Actual progress of activities in relation to the schedule.
  5. Actual and anticipated delays, their impact on the schedule, and corrective actions taken or proposed.
  6. Actual and potential problems.
  7. Status of change order work.
  8. Effect of proposed changes on schedule and coordination.
  9. Effect of delays, problems, and changes on the schedules of all prime Contractors.
  10. Status of corrective work ordered by the Architect.
  11. Progress expected to be made during the next period.
- D. Record minutes and distribute copies within 5 days to the Architect, to the Owner, to all participants, and to all entities affected by decisions made.

**END OF SECTION 012500**

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SECTION 012600 - CONTRACT MODIFICATION PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for handling and processing Contract modifications.
- B. Related Requirements:
  - 1. Section 013 00 "Or Equal" Substitution Procedures for administrative procedures for handling requests for substitutions made after the Contract award.

1.3 MINOR CHANGES IN THE WORK

- A. Architect will issue supplemental instructions authorizing minor changes in the Work, not involving adjustment to the Contract Sum or the Contract Time, on AIA Document G710, "Architect's Supplemental Instructions."

1.4 PROPOSAL REQUESTS

- A. Owner-Initiated Proposal Requests: Architect will issue a detailed description of proposed changes in the Work that may require adjustment to the Contract Sum or the Contract Time. If necessary, the description will include supplemental or revised Drawings and Specifications.
  - 1. Work Change Proposal Requests issued by Architect are not instructions either to stop work in progress or to execute the proposed change.
  - 2. Within time specified in Proposal Request after receipt of Proposal Request, submit a quotation estimating cost adjustments to the Contract Sum and the Contract Time necessary to execute the change.
    - a. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
    - b. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
    - c. Include costs of labor and supervision directly attributable to the change.
    - d. Include an updated Contractor's construction schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and

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finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.

- e. Quotation Form: Use forms acceptable to Architect.

B. Contractor-Initiated Proposals: If latent or changed conditions require modifications to the Contract Documents, Contractor may initiate a claim by submitting a request for a change to Architect.

1. Include a statement outlining reasons for the change and the effect of the change on the Work. Provide a complete description of the proposed change. Indicate the effect of the proposed change on the Contract Sum and the Contract Time.
2. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
3. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
4. Include costs of labor and supervision directly attributable to the change.
5. Include an updated Contractor's construction schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.
6. Comply with requirements in Section 012500 "Substitution Procedures" if the proposed change requires substitution of one product or system for product or system specified.
7. Proposal Request Form: Use CSI Form 13.6A, "Change Order Request (Proposal)," with attachments CSI Form 13.6D, "Proposal Worksheet Summary," and Form 13.6C, "Proposal Worksheet Detail."

C. Contractor Responsibilities: Contractor shall compensate the Architects and/or his consultants at a cost of \$250.00 per hour for all re-designs. Contractor shall not be required to compensate the Architect and/or his consultants if a re-design is required because of a latent or changed condition.

## 1.5 ADMINISTRATIVE CHANGE ORDERS

- A. Allowance Adjustment: See Section "Allowances" for administrative procedures for preparation of Change Order Proposal for adjusting the Contract Sum to reflect actual costs of allowances.
- B. Unit-Price Adjustment: See Section "Unit Prices" for administrative procedures for preparation of Change Order Proposal for adjusting the Contract Sum to reflect measured scope of unit-price work.

## 1.6 CHANGE ORDER PROCEDURES

- A. On Owner's approval of a Work Changes Proposal Request, Architect will issue a Change Order for signatures of Owner and Contractor on AIA Document G701.

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1.7 CONSTRUCTION CHANGE DIRECTIVE

- A. Construction Change Directive: Architect may issue a Construction Change Directive on AIA Document G714. Construction Change Directive instructs Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order.
  - 1. Construction Change Directive contains a complete description of change in the Work. It also designates method to be followed to determine change in the Contract Sum or the Contract Time.
- B. Documentation: Maintain detailed records on a time and material basis of work required by the Construction Change Directive.
  - 1. After completion of change, submit an itemized account and supporting data necessary to substantiate cost and time adjustments to the Contract.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 012600

## SECTION 013000 - SUBMITTALS

### PART 1 - GENERAL

#### 1.01 SUMMARY

- A. Section Includes:
1. Preparing and processing of submittals for review and action.
  2. Preparing and processing of informational submittals.
- B. Submit the following for the architect's review and action via digital format:
1. Shop drawings.
  2. Product data.
  3. Samples.
  4. **Submittals for which procedures are not defined elsewhere.**
- C. Submit the following as informational submittals:
1. Certificates.
  2. Coordination drawings.
  3. Reports.
  4. Qualification statements for manufacturers/installers.
- D. Specific submittals are described in individual sections.
1. Provide other information required by Division 15 for mechanical work.
  2. Provide other information required by Division 16 for electrical work.
- E. **Do not commence work which requires review of any submittals until receipt of returned submittals with an acceptable action.**
- F. Do not allow submittals without an acceptable action marking to be used for the project.
- G. **Submit all submittals to the Architect.**
1. Contractor to allow for adequate time for mailing; failure of the Contractor in this respect will not be considered as grounds for an extension of the contract time.
- H. **Do not submit substitute items that have not been approved by means of the procedure specified elsewhere.**
- I. **Do not include requests for substitution (either direct or indirect) on submittals; comply with procedures for substitutions specified elsewhere.**
- J. Related Sections: The following are specified elsewhere in Division 1:
1. Payment, modification, and completion submittals.
    - a. Applications for payment.
    - b. Schedule of values.
    - c. Change proposals.
  2. Progress of work submittals:

- a. Contractor's construction schedules.
  - b. Progress reports.
  - c. Progress photographs.
3. Quality control submittals:
- a. Inspection reports.
  - b. Test reports.
4. Product submittals:
- a. Product option submittals.
  - b. Requests for substitution.
  - c. Operating and maintenance data.
  - d. Warranties.
  - e. Maintenance materials and tools.
5. Contract closeout submittals:
- a. Equipment and systems demonstration reports.
  - b. Request for determination of substantial completion.
  - c. Certificate of occupancy.
  - d. Project record documents.
  - e. Bonds.
6. Other administrative submittals:
- a. Survey data.
  - b. Layout data.

## 1.02 DEFINITIONS

- A. Shop Drawings: See General Conditions.
1. Shop drawings also include:
    - a. Product data specifically prepared for this project.
    - b. Shop or plant inspection and test reports, when made on specific materials, products, or systems to be used in the work.
- B. Product Data: See General Conditions.
1. Product data submittals also include:
    - a. Performance curves, when issued by the manufacturer for all products of that type.
    - b. Selection data showing standard colors.
    - c. Wiring diagrams, when standard for all products of that type.
- C. Samples: See General Conditions.
- D. Informational Submittals: Submittals identified in the contract documents as to be submitted for information only.

## 1.03 FORM OF SUBMITTALS

- A. Sheet Size Digital Format:
  - 1. Minimum: 8 1/2 inches by 11 inches.
  - 2. Maximum: 36 inches by 48 inches.
  - 3. Exception: Full size pattern or template drawings.
- B. **Number of Copies:**
  - 1. **Submittals for Review: 1 digital copy for distribution**
  - 2. **Informational Submittals: 1 digital copy for distribution**
- C. **Samples: 3 sets of each.**
  - 1. **1 set will be returned. 1 for architect & 1 for owner**
- D. **If additional items are needed by other entities involved in work represented by the samples, submit with original submittal, and mark accordingly.**
- E. **Provide additional copies, if required for operating and maintenance data, marked to indicate their purpose.**
- F. **Provide additional copies for project record documents as requested.**
- G. **Copies in excess of the number requested will not be returned, unless they are marked to indicate their purpose.**

#### **1.04 COORDINATION OF SUBMITTALS**

- A. Coordinate submittals and activities that must be performed in sequence, so that the architect has enough information to properly review the submittals.
- B. **Coordinate submittals of different types for the same product or system so that the architect has enough information to properly review each submittal.**
  - 1. Contractor to be responsible for coordination of submittals from his/her different subcontractors to provide a complete system for review by the Architect.
- C. Coordinate submittals for products requiring color selections. Submit together with sufficient time for Architect to review and make the required color selections.
  - 1. Floor, wall, ceiling finish materials, cabinetry, and any product required to receive a color selection to be color coordinated with the color selections of the room are to be submitted within the same time period.
  - 2. The Architect will make the final decision as to whether a product is necessary in the color selection scheme of the area in question.

#### **PART 2 - PRODUCTS (NOT USED)**

#### **PART 3 - EXECUTION**

##### **3.01 TIMING OF SUBMITTALS**

- A. Schedule of Submittals:
  - 1. Prepare and submit for approval a schedule showing the required dates of submittal of all required

- submittals.
  - 2. Organize the schedule by the applicable specification section number.
  - 3. Submit Schedule of Submittals within ten (10) working days after "Notice to Proceed."
  - 4. Revise and resubmit the schedule for approval when requested.
- B. Transmit each submittal at or before the time indicated on the approved schedule of submittals.
- C. Deliver each submittal requiring approval in time to allow for adequate review and processing time, including resubmittals if necessary; failure of the contractor in this respect will not be considered as grounds for an extension of the contract time.
- D. Deliver each informational submittal prior to start of the work involved, unless the submittal is of a type which cannot be prepared until after completion of the work; submit promptly.
- E. If a submittal must be processed within a certain time in order to maintain the progress of the work, state so clearly on the submittal.
- F. Allow a minimum of 10 working days for the first processing of each submittal. Allow more time when submittals must be coordinated with later submittals.**
- G. Allow a minimum of 5 working days for processing of resubmittals.**
- H. If a submittal must be delayed for coordination with other submittals not yet submitted, the architect may at his option either return the submittal with no action or notify the contractor of the other submittals which must be received before the submittal can be reviewed.
- I. All required submittals must be completely and properly submitted to the Architect within 30 calendar days from "Notice to proceed". Failure to make submittals within this time period shall constitute a delay by the responsible contractor, and may cause for Liquidated Damages as defined in other sections of these contract documents.**

### **3.02 SUBMITTAL PROCEDURES – GENERAL - Digital Copies Only**

- A. Contractor Review: Contract to sign each copy of each submittal certifying compliance with the requirements of the contract documents.**
- B. Notify the Architect, in writing and at time of submittal, of all points upon which the submittal does not conform to the requirements of the contract documents, if any.
- C. Preparation of Submittals:
- 1. Label each copy of each submittal, with the following information:
    - a. Project name.
    - b. Date of submittal.
    - c. Contractor's name and address.
    - d. Architect's name and address.
    - e. Construction Manager's name & address
    - f. Subcontractor's name and address.
    - g. Supplier's name and address.
    - h. Manufacturer's name.
    - i. Specification section where the submittal is specified.
    - j. Numbers of applicable drawings and details.
    - k. Other necessary identifying information.

2. Pack submittals suitably for shipment.
3. Submittals to receive Architect's action marking: Provide blank space on the label or on the submittal itself for action marking; minimum 4 inches wide by 5 inches high.

D. Transmittal of Submittals:

1. **Submittals will be accepted from the general contractor ONLY. Submittals received from other entities will be returned without review or action.**
2. Submittals received without a transmittal form will be returned without review or action.
3. Transmittal form: Use AIA G810.
  - a. Any form acceptable to the Architect, obtain approval prior to submittal.
  - b. The contractor's certification signature.
4. **Fill out a separate transmittal form for each submittal; also include the following:**
  - a. Other relevant information.
  - b. Requests for additional information.

### 3.03 SHOP DRAWINGS – Digital Copies Only

A. Content: Include the following information:

1. Dimensions, at accurate scale.
2. All field measurements that have been taken, at accurate scale.
3. Names of specific products and materials used.
4. Details, identified by contract document sheet and detail numbers.
5. Show compliance with the specific standards referenced.
6. Coordination requirements; show relationship to adjacent or critical work.
7. Name of preparing firm.

B. Preparation:

1. **Reproductions of contract documents are not acceptable as shop drawings.**
2. Identify as indicated for all submittals.
3. Space for architect's action marking shall be adjacent to the title block.

### 3.04 PRODUCT DATA - Digital Copies Only

A. Submit all product data submittals for each system or unit of work as one submittal.

B. When product data submittals are prepared specifically for this project (in the absence of standard printed information) submit such information as shop drawings and not as product data submittals.

C. Content:

1. Submit manufacturer's standard printed data sheets.
2. Identify the particular product being submitted; submit only pertinent pages.
3. Show compliance with properties specified.
4. Identify which options and accessories are applicable.
5. Include recommendations for application and use.
6. Show compliance with the specific standards referenced.
7. Show compliance with specified testing agency listings; show the limitations of their labels or seals, if any.
8. Identify dimensions which have been verified by field measurement.

9. Show special coordination requirements for the product.

### **3.05 SAMPLES**

#### **A. Samples:**

1. Provide samples that are the same as proposed product.
2. Where unavoidable variations must be expected, submit "range" samples, minimum of three (3) units, and describe or identify variations among units of each set.
3. Where selection is required, provide full set of **all options**.
  - a. **"All options"**, means both standard and custom selections.
4. Where products are to match a sample prepared by other entities, prepare sample to match.

#### **B. Preparation:**

1. Attach a description to each sample.
2. Attach name of manufacturer or source to each sample.
3. Where compliance with specified properties is required, attach documentation showing compliance.
4. Where there are limitations in availability, delivery, or other similar characteristics, attach description of such limitations.
5. Where samples are specified to be returned for installation in the work, indicate such requirement on transmittal form.
6. Where selection is required, the first submittal may be a single set of all options; after return of submittal with selection indicated, submit standard number of sets of selected item.

- C. Keep final sample set(s) at the project site, available for use during progress of the work.

### **3.06 WARRANTIES - Digital Copies Only**

- A. Submit to the Architect certified copies of all guarantees and warranties required by the Contract Documents.

### **3.07 REVIEW OF SUBMITTALS**

- A. Submittals for approval will be reviewed, marked with appropriate action, and returned.
- B. Informational submittals: Submittals will be reviewed.

### **3.08 RETURN, RESUBMITTAL, AND DISTRIBUTION**

- A. Submittals will be returned to the contractor by email.
- B. Perform resubmittals in the same manner as original submittals; indicate all changes other than those requested by the Architect.
- C. Distribution:
  1. Distribute returned submittals to all subcontractors and suppliers involved in work covered by the submittal.
  2. Distribute to each prime contractor.
  3. Record distribution on transmittal form with copy to the architect.

**END OF SECTION 013300**

## **SECTION 014000 - QUALITY CONTROL PROCEDURES**

### **PART 1 - GENERAL**

#### **1.01 SUMMARY**

- A. Section Includes:
  - 1. General quality control activities.
  - 2. Procedures for the following:
    - a. Preparation and maintenance of schedule of quality control activities.
    - b. Testing and evaluation of test results.
    - c. Inspections.
  - 3. Procedures for quality control activities performed by:
    - a. Public authorities having jurisdiction.
    - b. Architect.
    - c. Construction Manager
    - d. Independent testing agencies.
    - e. Contractors.
    - f. Manufacturers' representatives.
  - 4. Procedures for submittal of quality control documentation.
- B. Quality control activities required are specified in other sections.
- C. See General Conditions for additional requirements for testing, inspections, and approvals.
- D. The cost of quality control activities specified to be paid for by the owner is not to be included in the contract sum.
- E. Related Sections:
  - 1. Alternates if applicable: Elsewhere in Division 1.
  - 2. Contractor's construction schedule: Elsewhere in Division 1.
  - 3. Submittal procedures: Elsewhere in Division 1.

#### **1.02 CONTRACT CONDITIONS**

- A. Independent testing agencies, whether employed by the owner or the contractor, may not change the requirements of the contract documents and may not approve any portion of the work.
- B. Employment of testing agencies, by the contractor or the owner, shall not relieve the contractor of his obligation to perform the work in accordance with the contract documents.

#### **1.03 DEFINITIONS**

- A. Certificate: A written statement that a portion of the work as accomplished or a particular product conforms to the requirements of the contract documents.
- B. Owner's Testing Agency: Any independent testing and inspection agency employed by the owner to perform certain quality control activities.

#### 1.04 REFERENCE STANDARDS

- A. ASTM E 699-79 -- Standard Criteria for Evaluation of Agencies Involved in Testing, Quality Assurance, and Evaluating Building Components in Accordance with Test Methods Promulgated by ASTM Committee E-6

#### 1.05 SUBMITTALS

- A. Schedule of Quality Control Activities:
  - 1. Submit as part of the contractor's construction schedule.
  - 2. Revise as required by the owner, to coordinate with the owner's testing agency activities.
  - 3. Distribute to:
    - a. The Owner & Construction Manager.
    - b. The Architect.
    - c. Each entity performing work for which quality control activities are specified.
- B. Reports: Provide digital copies of reports.
  - 1. Unless otherwise indicated, submit for review by the architect.
  - 2. Submit reports within 2 weeks after execution of quality control activity, but not later than the date of application for payment for the work to which the quality control activity relates.
  - 3. Reports shall be prepared by the entity performing the quality control activity.
  - 4. Submit copies directly to governing authorities when so directed.
  - 5. When the contractor employs an independent testing agency, submit copies directly to the Architect.
  - 6. Include the following information in all types of reports:
    - a. Date of report.
    - b. Project name (and number, if applicable).
    - c. Description of the quality control activity.
    - d. Name, address, and telephone number of entity performing activity.
    - e. Date quality control activity was performed.
    - f. Specification section(s) involved.
    - g. Basis for evaluation (test method, etc.).
    - h. Results or conclusions, including evaluations and interpretations.
    - i. Title, name, and signature of person performing activity.
  - 7. Include the following information in all test reports:
    - a. Locations from which samples were taken, if any.
    - b. Ambient conditions at time of activity.
    - c. Recommendations for retesting, if any.
- C. Certificates: Submit for information only, unless otherwise indicated.
  - 1. Certificates shall be signed by the product manufacturer, unless otherwise specified or not applicable.
  - 2. Include the following information:
    - a. Date of certificate.
    - b. Project name (and number, if applicable).
    - c. Description of the product or system certified.
    - d. Specification section(s) involved.
    - e. When actual materials to be used are to be certified, include lot identification markings, destination

- or shipment, and quantity in shipment.
- f. Title, name, and signature of person authorized to make certification.

## **1.06 QUALITY ASSURANCE**

- A. Qualifications of Testing and Inspection Personnel:
  - 1. As indicated in individual sections.
  - 2. Independent Testing Agency Qualifications: When employed by the contractor:
    - a. A firm independent from the contractor's organization.
    - b. Having experience in the testing specified, and having the capability to conduct satisfactorily the testing specified without delaying the progress of the work, as shown by information supplied as required by ASTM E 699.
    - c. Approved by the Architect.
    - d. Authorized to conduct business in the state in which the project is located.
  - 3. Do not employ the same testing agency the owner has employed for testing or inspecting the same portion of the work (if any), unless otherwise agreed upon in writing.
- B. Testing Equipment: Calibrated at reasonable intervals with devices of an accuracy traceable to either the National Bureau of Standards (NBS) standards or to accepted values of natural physical constants.

## **1.07 SEQUENCING AND SCHEDULING**

- A. Prepare a schedule of quality control activities required.
  - 1. Include activities of the owner's testing agencies.
  - 2. Provide the following information for each activity:
    - a. Specification section number.
    - b. Description of the activity.
    - c. Identification of test or inspection methods.
    - d. Enumeration of results required.
    - e. Number of tests required.
    - f. Number and type of samples to be taken, if any.
    - g. Starting time of activity.
    - h. The date that the work will be ready for the owner's testing agency access.
    - i. Elapsed time required for activity.
    - j. Entity responsible.
    - k. Special requirements for activity.
- B. Coordinate quality control activities to avoid delay and to make it unnecessary to uncover work for testing or inspection.
- C. Notify the owner's testing agencies 2 weeks prior to commencement or completion of work which is to be tested or inspected, whichever is applicable.

## **PART 2 - PRODUCTS (NOT USED)**

## **PART 3 - EXECUTION**

### **3.01 GENERAL**

- A. Provide work of the specified quality; where quality level is not indicated, provide work of quality customary in similar types of work.
  - 1. Where codes, laws, or regulations require work of higher quality or performance, provide work complying with those codes, laws, and regulations.
  - 2. Where two or more quality provisions of the contract documents conflict, comply with the most stringent requirement; where requirements are different but apparently equal, and where it is uncertain which requirement is most stringent, obtain clarification from the architect before proceeding.
  - 3. Actual quality may exceed the specified quality; verify that such differences are acceptable to the owner (other criteria may make excessive quality undesirable).
- B. Control products, suppliers, manufacturers, site conditions, installers, and workmanship in such a manner as to produce work of the specified quality.
- C. Comply with manufacturers' instructions and recommendations.
  - 1. Keep a record of instructions and recommendations which supplement or conflict with the manufacturer's written instructions.
  - 2. When manufacturers' instructions and recommendations conflict with the contract documents, obtain clarification from the architect before proceeding.
- D. Use installers who are capable of producing work of the specified quality.
- E. Each prime contractor shall perform all specified quality control activities related to his work unless indicated to be performed by other entities.

### **3.02 TESTING**

- A. Perform tests specified.
- B. When results of tests are unsatisfactory, make whatever changes or repairs are necessary and retest.
- C. Submit written report of each original test and of each retest.

### **3.03 INSPECTING**

- A. Perform inspections specified.
- B. When inspections reveal unsatisfactory work, make whatever changes or repairs are necessary and re-inspect.
- C. Submit written report of each original inspection and each re-inspection.

### **3.04 PROTECTION AND REPAIR**

- A. When work is uncovered during quality control activities, provide protection from damage.
- B. Correct work damaged by quality control activities; where repair is indicated as an unacceptable method, replace the work.

**END OF SECTION 014000**

## SECTION 015000 - TEMPORARY FACILITIES AND CONTROLS

### PART 1 - GENERAL

#### 1.01 SUMMARY

A. Section Includes:

1. Temporary utilities.
2. Temporary construction.
3. Protective facilities.
4. Employee facilities.
5. Administrative facilities.
6. Temporary services.

B. Enumeration of Temporary Facilities and Services:

1. **General Construction Work Contractor** shall provide, be responsible and pay for the following, as specified in this section, for the use of all contractors and subcontractors:
  - a. Employee parking facilities.
  - b. Existing property protection.
  - c. Fire protection facilities, other than piped utilities.
  - d. Fire protection services.
  - e. Other employee protection facilities required by law.
  - f. Project identification sign(s).
  - g. Public protective facilities required by law.
3. Waste disposal service.
4. **Contractor** shall provide and pay for the following, as specified in this section, for the use of all contractors and subcontractors:
  - a. Electrical service & extension cords.
    1. Include electric service usage charges.
  - b. Sanitary Services & Water Usage
5. Each contractor shall provide all other facilities and services required to accomplish his work.

C. Related Sections:

1. Construction use of permanent elevators: Division 1
2. Access to site: Elsewhere in Division 1.
3. Regulatory requirements: Elsewhere in Division 1.
4. Storage and protection of materials and equipment: Elsewhere in Division 1.

#### 1.02 REFERENCES

- A. FM P7825 -- Approval Guide; Factory Mutual System;

- B. NEMA WD 6 -- Wiring Devices--Dimensional Requirements; National Electrical Manufacturers Association

### **1.03 DEFINITIONS**

- A. Temporary Facilities: Construction, fixtures, fittings, and other built items required to accomplish the work but which are not incorporated into the finished work.
- B. Temporary Utilities: A type of temporary facility; primary sources of electric power, water, natural gas supply, etc., obtained from public utilities, other main distribution systems, or temporary sources constructed for the project, but not including the fixtures and equipment served.
- C. Temporary Services: Activities required during construction which do not directly accomplish the work.

### **1.04 SUBMITTALS**

- A. Reports of inspections, tests, and approvals for the installation and use of construction facilities, which are made or given by public authorities.
- B. Copies of permits required by public authorities.

### **1.05 QUALITY ASSURANCE**

- A. Comply with requirements of governing authorities, as to type, quantity, location, and use of temporary facilities.
- B. Comply with requirements of governing authorities, as to type and frequency of temporary services.
- C. Comply with requirements of public utilities affected.

### **1.06 PROJECT CONDITIONS**

- A. Obtain easements where required.
- B. Coordinate scheduling of the implementation and termination of temporary facilities and services with all other contractors affected.
- C. Use of permanent facilities prior to substantial completion is subject to the owner's approval and conditions.
  - 1. Each permanent facility used for construction purposes shall be operated, maintained, and protected during such use by the original installer.
  - 2. Specified warranties shall not be reduced or voided by temporary use.

### **1.07 SEQUENCING AND SCHEDULING**

- A. Maintain required facilities until not needed or until shortly before substantial completion; remove facilities before substantial completion.
  - 1. Exception: Where use of permanent facilities is allowed.
- B. Change over to use of permanent facilities, when applicable, as soon as possible, except when use of permanent facilities is not allowed.

## **PART 2 - PRODUCTS**

### **2.01 MATERIALS**

- A. General: Provide materials which are both suitable for the use and durable enough to withstand the use and abuse to be expected.
- B. Temporary Heating Units: UL or FM labeled for the fuel used; do not use gasoline-burning, open burning, or solid fuel heaters or salamanders.
  - 1. Use equipment that is known to be safe and that will not damage work in progress.

### **2.02 TEMPORARY UTILITIES**

- A. Temporary Power: (See 3.05)
  - 1. Provide electricity adequate for demand of construction operations. Include electric service usage charges that are incurred by the owner.
    - a. Electrical service & extension cords.

### **2.03 PROTECTIVE FACILITIES**

- A. Fire Protection Facilities: Provide at least the temporary facilities required by the authorities having jurisdiction.
  - 1. Provide Fire extinguishers for the project. Fire extinguishers building shall not be used during construction.
  - 2. Reinstate facilities into operation as soon as possible.
- B. Existing Property Protection: Provide fixed barriers to prevent damage due to construction machinery, vehicles, and adjacent work; provide for:

### **2.04 EMPLOYEE FACILITIES**

- A. Existing lighting to be used. If additional lighting required, provide at least the lighting required by law; two (2) watts per square foot minimum. Other required special lighting to be provided by each prime contractor.

### **2.06 TEMPORARY CONSTRUCTION**

- A. Temperature Control and Ventilation Facilities: Provide adequate facilities:
  - 1. To provide proper conditions for installation.
  - 2. For drying and curing of completed work.
  - 3. For protection from deterioration due to high or low temperatures and humidity's.
  - 4. To provide suitable working conditions
  - 5. Permanent equipment and facilities may be used.
- B. Temporary Enclosures for Mold & Remediation Resistance: When building separation walls is not yet complete but interior tenant units may be exposed provide temporary enclosures adequate to keep out weather.

## **PART 3 - EXECUTION**

### **3.01 GENERAL**

- A. Cooperate with owner if temporary facilities will be required.

### **3.02 TEMPORARY SERVICES**

- A. Waste Disposal Service: Provide contracted removal service at regular intervals.
  - 1. Remove waste at least once a week.
  - 2. When temperature exceeds or is expected to exceed 80 degrees F, remove at least twice a week.
  - 3. Provide waste collection containers for use of all contractors.
- B. Dust Control Services: Keep down dust on roads regularly.

### **3.03 TERMINATION AND REMOVAL**

- A. Permanent Facilities Used during Construction: Clean; replace parts that are worn in excess of that expected during normal usage

**END OF SECTION 015000**

## **SECTION 016000 - PRODUCT REQUIREMENTS**

### **PART 1 - GENERAL**

#### **1.01 SUMMARY**

- A. Section Includes:
  - 1. General product requirements, including:
    - a. General specification requirements for all products.
    - b. Product options.
    - c. Procedures for substitution requests.
    - d. General requirements and procedures for maintenance materials and tools.
  - 2. General requirements for product documentation, including:
    - a. Requirements and procedures for schedule of products.
    - b. General requirements for operation and maintenance data.
    - c. General requirements for warranties.
  - 3. General procedures for products including:
    - a. Procedures for transportation and handling.
    - b. Procedures for delivery and receiving.
    - c. Procedures for storage.
- B. Related Sections:
  - 1. Submittal transmission, handling, and action procedures: Elsewhere in Division 1.
  - 2. General installation procedures: Elsewhere in Division 1.
  - 3. Project record documents: Elsewhere in Division 1.

#### **1.02 DEFINITIONS**

- A. Damage: Any sort of deterioration whether due to mold / moisture, normal wear and tear, accident, or abuse, resulting in soiling, marring, breakage, corrosion, rotting, or impairment of function.

#### **1.03 SUBMITTALS**

- A. Schedule of Products: Submit for approval.
- B. Final Schedule of Products: Submit for project record.
- C. Operation and Maintenance Data: Submit for information only.
- D. Warranties: Submit for project record.
- E. Receipts for maintenance materials and tools.

### **PART 2 - PRODUCTS**

#### **2.01 GENERAL**

- A. Components required to be supplied in quantity within a specification section shall be identical, interchangeable, and made by the same manufacturer.
- B. Do not use products removed from existing construction, unless specifically permitted by the contract documents or approved by the owner.

## 2.02 MAINTENANCE MATERIALS AND TOOLS

- A. Maintenance Materials: Parts and materials for repair and maintenance; specific items required are specified in product sections.
  - 1. Provide products and tools which are identical to those used in the work; if necessary to obtain identical items, order at the same time as products to be installed or tools to be used in the work.
- B. Package appropriately and label to show type and quantity of contents.
- C. Deliver, handle, and store in the same manner as products to be installed.
- D. Do not turn over to the owner until date of substantial completion, unless otherwise approved by the owner.
- E. Deliver to the owner; unload.
- F. Obtain receipt prior to final payment.

## PART 3 - EXECUTION

### 3.01 PRODUCT OPTIONS

- A. It is the contractor's responsibility to select products which comply with the contract documents and which are compatible with one another, with existing work, and with products selected by other contractors.
  - 1. Where visual matching to an established physical sample is required, **the Architect's decision will be final.**
- B. **Do not use any substitute products which have not been approved in accordance with the requirements of the contract documents.**
- C. Where the specification is silent on whether substitutions will be considered, substitutions will not be considered.
- D. Definition of Substitute Product: Any product which does not meet the requirements of the contract documents, whether in product characteristics, performance, quality, or manufacturer or brand names, is considered a substitute.
- E. Product Options: Where products are specified using more than one method, such as description with a manufacturer list, use a product meeting the requirements of both specification methods.
- F. Products Specified by Reference Standard: Use any product meeting the specification. Provisions of reference standards shall not modify the responsibilities of the owner or architect as defined in the contract documents.
- G. Products Specified by Description: Use any product meeting the specification.
- H. Products Specified by Performance Requirements: Use any product meeting the specification.
- I. Products Specified to Match a Physical Sample: Use any product that matches; obtain the architect's approval.
- J. Products Specified by Listing a Brand Name Product as the "Basis of Design": Provide a product

equivalent to the product specified within the limits of variation specified; submit substitution request for all products other than that listed as basis of design.

- K. Products Specified by Listing Brand Name(s) Accompanied by Language Indicating that Substitutions Are Not Allowed: Provide one of the products listed.
- L. Products Specified by Listing Brand Name(s) Accompanied by Language Indicating that Substitutions Are Allowed: Provide a product meeting the specification; submit substitution request for any brand-name product that is not listed.
- M. Products Specified by Listing Manufacturer(s) Accompanied by Language Indicating that Substitutions Are Not Allowed: Provide a product meeting the specification and made by one of the manufacturers listed.
- N. Products Specified by Listing Manufacturer(s) Accompanied by Language Specifically Indicating that Substitutions Are Allowed: Provide a product meeting the specification; submit substitution request for any manufacturer not listed.
- O. Language indicating that substitutions are **not** allowed includes:
  - 1. "Provide one of the following products."
  - 2. "Provide products made by one of the manufacturers listed."
  - 3. "Provide products complying with the contract documents and made by one of the following."
  - 4. "No substitutions."
  - 5. Other similar language.
- P. Language indicating that substitutions are allowed includes:
  - 1. Substitutions will be considered.
  - 2. ". . . will be among those considered acceptable."
  - 3. Other similar language.

### **3.02 SUBSTITUTIONS AFTER AWARD OF THE CONTRACT**

- A. Substitutions will be considered within **30** calendar days after the award of the contract; subsequent requests will be considered only when, through no fault of the contractor, none of the specified products is available.
- B. The contractor will be notified in writing within a reasonable time; verbal acceptance will not be valid.
- C. Acceptable substitutions will be added to the contract documents by appropriate modification.

### **3.03 SUBSTITUTION PROCEDURE**

- A. Submission of request for substitution shall constitute a representation by the contractor that he:
  - 1. Has investigated the proposed product and determined that it is equal to or better than the specified product.
  - 2. Will provide the same warranty for the proposed product as for the specified product.
  - 3. Will coordinate the installation and make other changes which may be required for the work to be complete in all respects, including:
    - a. Redesign.
    - b. Additional components and capacity required by other work affected by the change.
  - 4. Waives all claims for additional costs and time extensions which subsequently may become apparent and which are caused by the change.
  - 5. Will reimburse the owner for additional costs for evaluation of the substitution request, redesign if

- required, and re-approval by authorities having jurisdiction if required.
6. Will reimburse the Owner for additional costs related to modifications to all other trades resulting from substitutions of systems or equipment from that specified.
- B. Substitutions will not be considered when acceptance would require substantial revision of the contract documents.
- C. Substitutions will not be considered when they are indicated or implied on shop drawing or product data submittals without separate written request.**
- D. Substitution requests will not be considered when submitted directly by subcontractor or supplier.
- E. Substitution Request Procedure: Submit written request with complete data substantiating compliance of the proposed product with the requirements of the contract documents.
1. Submit request to the architect.
  2. Submit 3 copies of each request and accompanying data.
  3. Submit all requests on a standard form.
  4. Only one request for substitution will be considered for each product.
- F. Data Required with Substitution Request: Provide at least the following data:
1. Identify product by specification section and paragraph number.
  2. Manufacturer's name and address, trade name and model number of product (if applicable), and name of fabricator or supplier (if applicable).
  3. Complete product data.
  4. A list of other projects on which the proposed product has been used, with project name, the design professional's name, and owner contact.
  5. An itemized comparison of the proposed product to the specified product, based upon the cited requirements of the individual specification sections.
  6. Net amount of change to the contract sum.
  7. List of maintenance services and replacement materials available.
  8. Statement of the effect of the substitution on the construction schedule.
  9. Description of changes that will be required in other work or products if the substitute product is approved.
- G. The Architect will determine acceptability of the proposed substitution.
- H. When the proposed substitution is not accepted, provide the product (or one of the products, as the case may be) specified.

### **3.04 SCHEDULE OF PRODUCTS**

- A. Prepare a complete schedule of products used, including the following for each product:
1. Manufacturer's name.
  2. Brand or trade name.
  3. Model number, if applicable.
  4. Reference standard, if more than one is applicable.
  5. Arrange products in the schedule by specification sections; indicate paragraph where specified.
- B. Prepare and submit a preliminary schedule within 10 working days after award of contract; resubmit when revised; submit final schedule prior to final payment.
- C. Schedule of products shall not be used to obtain approval of substitute products; make separate request for substitution.

### **3.05 OPERATION AND MAINTENANCE DATA**

- A. Provide operation and maintenance data as specified in individual product sections.
  - 1. Provide data sufficient for operation and maintenance by owner without further assistance from the manufacturer.
  - 2. Provide completed data in time for use during owner instruction.
- B. Data Required For Products - General:
  - 1. Name of manufacturer and product.
  - 2. Name, address, and telephone number of subcontractor or supplier.
  - 3. Local source of replacements.
  - 4. Local source of replaceable parts and supplies.
- C. Product Data: Where product data is specified for inclusion in operation and maintenance data, provide manufacturer's data sheets marked to indicate specific product and product options actually installed; delete inapplicable data.
- D. Project Record Documents: Provide an additional copy of applicable record documents for inclusion with the operation and maintenance data.
- E. Coordination Drawings: When coordination drawings are prepared, include a copy with the operating and maintenance data.
- F. Custom Manufactured Products: Provide all information needed for reordering.
- G. Finish Materials: Manufacturer's product data, color/texture designations, and manufacturer's instructions for care, cleaning, and maintenance.
- H. Products Exposed to Weather and Products for Moisture Protection: Manufacturer's product data, recommended inspection schedule and procedures, maintenance and repair procedures, and maintenance materials required.
- I. Equipment: Provide at least the following information:
  - 1. Product data giving equipment and function description, with normal operating characteristics and limiting conditions.
  - 2. Starting, operating, and troubleshooting procedures.
  - 3. Cleaning and maintenance requirements and procedures.
  - 4. External finish maintenance requirements.
  - 5. List of maintenance materials required.
  - 6. List of special tools required.
  - 7. Parts list: List all replaceable parts, with ordering data.
  - 8. Recommended quantity of spare parts to be maintained in storage.
- J. Systems: Provide overall function description, with diagrams, prepared especially for this project.
- K. Form of Data: Prepare data in the form of an instructional manual.
  - 1. Arrange contents logically, using section numbers and sequence of sections indicated on the table of contents of this project manual.
  - 2. When multiple volumes are used, arrange by related subjects; identify contents in cover title.
  - 3. Assemble into 3-ring binders with maximum 2-inch ring size.
    - a. Hardback, cleanable plastic covers.

- b. Identify each book with title "Operation and Maintenance Instructions" and project name.
  - c. Page size 8-1/2 by 11 inches, maximum.
  - d. Prepare special typewritten data on minimum 20-pound paper.
  - e. Provide tabbed divider for each product and system.
  - f. Drawings: Bind in with other data; provide reinforced binding edge; fold larger drawings to size of pages.
    - 1. Do not use pockets or loose drawings.
4. Provide table of contents for each volume listing:
- a. Name of the project.
  - b. Name, address, telephone number, and contact name of:
    - 1. Architect.
    - 2. Contractor.
  - c. Index of products and systems included in volume.

### **3.06 WARRANTIES**

- A. Provide warranties as specified in individual product sections.
- B. Manufacturer Warranties: Manufacturer's standard product warranty running for the manufacturer's standard term, unless otherwise indicated.
  - 1. Submit copies of all manufacturer warranties which extend beyond the end of the contract correction period.
- C. Special Project Warranties: Written warranty commencing at date of substantial completion, running for the term indicated, and signed by the entities specified.
  - 1. Where completion of warranty item is materially delayed beyond the date of substantial completion, provide warranty commencing on date of acceptance.
  - 2. Submit each special project warranty.
- D. Provide 2 notarized copies of each executed warranty.
- E. Show actual date of commencement on each warranty.

### **3.07 TRANSPORTATION AND HANDLING**

- A. Require supplier to package finished products in a manner which will protect from damage during shipping, handling, and storage.
- B. Transport products by methods which avoid damage.
- C. Deliver in dry, undamaged condition in manufacturer's unopened packaging.
- D. Provide equipment and personnel adequate to handle products by methods which prevent damage.
- E. Provide additional protection during handling where necessary to prevent damage to products and packaging.
- F. Lift large and heavy components at designated lift points only.

### **3.08 DELIVERY AND RECEIVING**

- A. Arrange deliveries of products to allow time for inspection prior to installation.
- B. Coordinate delivery to avoid conflict with the work and to take into account both the conditions at the site and the availability of personnel, handling equipment, and storage space.
- C. Clearly mark partial deliveries to identify contents, to permit easy accumulation of entire delivery, and to facilitate assembly.
- D. Promptly inspect shipments and remedy damage, incorrect quantity, incompleteness, improper or illegible labeling, and noncompliance with requirements of contract documents and approved submittals.

### **3.09 STORAGE**

- A. No indoor storage areas are available on site.
- B. General Storage Procedures:
  - 1. Store products immediately on delivery.
  - 2. Store products in accordance with manufacturer's instructions, with seals and labels intact and legible.
  - 3. Store in a manner to prevent damage to the stored products and to the work.
  - 4. Store moisture-sensitive products in weather tight enclosures.
  - 5. Store indoors if necessary to keep temperature and humidity within ranges required by manufacturer.
  - 6. Store unpacked and loose products on shelves, in bins, or in neat groups of like items.
  - 7. Arrange storage to provide access for inspection and inventory.
  - 8. Periodically inspect and remedy damage and noncompliance with required conditions.
- C. Loose Granular Materials: Store on solid surfaces in well-drained area; prevent mixing with foreign materials.
- D. Exterior Storage:
  - 1. Cover products subject to weather damage with impervious sheet covering; provide ventilation to avoid condensation.
  - 2. Provide surface drainage to prevent runoff or ponded water from damaging stored products.
  - 3. Prevent damage and contamination from refuse and chemically injurious materials and liquids.
  - 4. Store fabricated products on substantial platforms, blocking, or skids above the ground, sloped to drain.

**END OF SECTION 016000**

## SECTION 017000 – CONSTRUCTION PROCEDURES

### PART 1 - GENERAL

#### 1.01 SUMMARY

- A. Section Includes:
  - 1. Laying out the work.
  - 2. General construction and installation procedures.
  - 3. Cleaning during construction.
  - 4. Project completion procedures.
  - 5. Final cleaning.
  
- B. Related Sections:
  - 1. Cleaning requirements for specific products and systems: Applicable product sections in Divisions 2-16.
  - 2. Final payment procedures: Elsewhere in Division 1.
  - 3. Sequence of the work: Elsewhere in Division 1.
  - 4. Waste removal services: Elsewhere in Division 1.

#### 1.02 DEFINITIONS

- A. Concealed Spaces: Spaces which are not accessible after completion of construction.
- B. Cutting: Removal of material by cutting, sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation.
- C. Damage: Any sort of deterioration whether due to weather, normal wear and tear, accident, or abuse, resulting in soiling, marring, breakage, corrosion, rotting, or impairment of function.
- D. Debris: Rubbish, waste materials, litter, volatile wastes, and similar materials, with the exception of surplus materials which are to become the property of the owner.
- E. Fire Barriers: Any wall, floor, ceiling, or roof which is indicated as having a fire resistance rating.
- F. Patching: Restoration to completed condition by patching, repairing, refinishing, finishing, filling, closing up, and similar operations.
- G. Smoke Barriers: Any wall, floor, ceiling, or roof which is indicated as being designed to prevent passage of smoke and gases; may be indicated as "smoke barrier," "smoke partitions," "smoke wall," or similar designation.
- H. Spaces Not Normally Occupied: Accessible spaces such as roofs, accessible plenums and shafts, accessible spaces above ceilings, trenches, equipment vaults, manholes, accessible attics, and similar spaces, but not including the interior of duct or concealed spaces.

#### 1.03 QUALITY ASSURANCE

- A. Cleaning: Perform cleaning in accordance with the recommendations of the manufacturer or fabricator of the product or system. Use only cleaning materials and tools which are specifically recommended, which are not hazardous to health or property, and which will not damage finishes.

#### 1.04 PROJECT CONDITIONS

- A. Take precautions to prevent fires and to facilitate fire-fighting operations.

1. Keep flammable materials in non-combustible containers; store away from potential fire sources; remove flammable waste regularly.
  2. Keep temporary and permanent fire fighting facilities readily accessible; keep fire fighting routes open.
  3. Do not allow smoking in areas where highly combustible materials are present.
  4. Carefully supervise the operation of potential fire sources, including heating units.
  5. Conduct welding operations in manner to prevent fire; comply with local regulations.
- B. Take precautions to prevent accidents due to physical hazards:
1. Provide barricades, warning lights, or signs as required to inform personnel and the public of the hazard being protected against.
  2. Safety barricades: Comply with regulations.
  3. Provide temporary walkways where walking surfaces are hazardous.
  4. Notify the owner before beginning work that involves hazardous operations.
- C. Take care to prevent particulates, pollution of air, water, and soil.
1. Comply with environmental protection regulations.
  2. Limit effluent and rainwater runoff into waterways as required by regulations.
  3. Do not dump contaminants in areas that will result in contamination of waterways.
- D. Control windblown dust; prevent erosion to site and nuisance to neighbors
- E. Protect existing property indicated to remain, including:
- F. Do not use tools or equipment which produce harmful levels of noise.
- G. Keep the site and adjacent public ways free of hazardous and unsanitary conditions and public nuisances.
- H. Provide adequate traffic control by means of signs, signals, and flagmen, as necessary.
- I. Conduct construction operations so that no part of the work is subjected to damaging operations or influences which are in excess of those to be expected during normal occupancy conditions.
- J. Conduct construction operations so that waste of power, water, and fuel is avoided.
- K. Provide temporary supports as required to prevent movement and structural failure.
- L. Install products only during environmental conditions which will ensure the best possible results.

## **1.06 SEQUENCING AND SCHEDULING**

- A. Install products only at the time and in the sequence which will ensure the best possible results.
- B. Coordinate required administrative activities with related construction activities.
- C. Contractor to install and guarantee that effected kitchen area will be operational at end of each work day. This is to include running water and functional range / oven, refrigerator.

## **PART 2 - PRODUCTS**

### **2.01 MATERIALS**

- A. Patching Materials: Identical to the materials of the work to be cut, unless indicated as specific materials specified

in other sections.

## **PART 3 - EXECUTION**

### **3.01 LAYING OUT THE WORK**

- A. The General Work Contractor shall perform all layout work and locate the construction on the site where indicated.
- B. Verify locations of layout control points.
- C. Check layout data provided in the contract documents.
  - 1. Promptly notify the architect of discrepancies found.
- D. As the work proceeds, check the location, level, and plumbness of every major element.
- E. Furnish location data required for work related to the project which is to be performed by other entities, including public utilities.
- F. Reference Points: Where actual location or elevation of layout points or lines cannot be marked, provide temporary reference points or marks sufficient to locate the construction.
  - 1. Preserve reference points during construction.
  - 2. Promptly report and replace lost or destroyed reference points.
  - 3. Promptly report the necessity to relocate reference points due to required changes in grades or locations.
  - 4. Remove temporary reference points and marks when no longer needed; restore marked construction to original condition.

### **3.02 GENERAL EXAMINATION REQUIREMENTS**

- A. Prior to performing work, examine the applicable substrates and the conditions under which the work is to be performed.
- B. If unsafe or otherwise unsatisfactory conditions are encountered, take corrective action before proceeding.
  - 1. If the conditions to be corrected involve the work of another prime contract, notify the architect promptly.
  - 2. Commencement of work by the contractors will be acceptance of all conditions. Any remedial work required to perform their work will be at contractor's expense, with no cost to the owner.
- C. Conditions which could have been discovered by examination will not be allowed as cause for claims for extra work.
  - 1. The existence and location of construction indicated as existing on the drawings are not guaranteed.
- D. Verify that utility requirements of operating equipment are compatible with building utilities.
- E. Verify space requirements of items which are shown diagrammatically on the drawings.

### **3.03 GENERAL PREPARATION REQUIREMENTS**

- A. Take field measurements as required to fit the work properly.
- B. Recheck measurements prior to installing each product.

### **3.04 GENERAL INSTALLATION PROCEDURES**

## **CONSTRUCTION PROCEDURES**

**017000-3**

- A. Accurately locate the work and components of the work; make vertical work plumb; make horizontal work level.
- B. See sections describing specific parts of the work for additional requirements.
- C. Where space is limited, install components to maximize space available for maintenance and to maximize ease of removal for replacement.
- D. In finished areas, conceal pipes, ducts, and wiring within the construction, unless otherwise indicated.
- E. Coordinate exact locations of fixtures and outlets with finish elements.
- F. Install work in such manner and sequence as to preclude, if possible, or at least to minimize, cutting and patching.

### **3.05 CLEANING AND PROTECTION**

- A. Remove debris from concealed spaces prior to enclosing the space.
- B. Keep the site and the work free of waste materials and debris.
  - 1. Remove waste from site at least once a day.
  - 2. When temperature exceeds or is expected to exceed 80 degrees F, remove waste at frequency necessary to prevent development of health hazards and nuisance odors.
  - 3. Keep hazardous and unsanitary materials in containers separate from other waste.
- C. Clean areas in which work is to be done to level of cleanliness necessary for proper execution of that work.
  - 1. Where dust would impair execution of work, broom- and vacuum-clean the entire interior area and keep clean.
- D. Keep installed work clean, and clean again when soiled by other operations.
  - 1. Provide periodic cleaning as required to prevent damage due to soiling.
  - 2. Remove liquid spills promptly.
- E. Protect installed work from soiling and damage.
  - 1. Provide protective coverings as required.
  - 2. Provide protective coverings for work which may be damaged by subsequent operations.
  - 3. Where heavy abuse is expected, use minimum of plywood for protection.
  - 4. Maintain protective coverings until substantial completion.

### **3.06 CUTTING AND PATCHING PROCEDURES**

- A. Fire/Smoke Barriers: Do not cut more than absolutely necessary.
  - 1. Cut penetration holes to sizes required for penetration seal assemblies required.
  - 2. Patch all oversize holes and cuts made in error.
  - 3. Perform patching in a manner which complies in all respects with the original construction; if not possible, report nature of difficulty to the architect and request instructions.
- B. Operational and Safety Limitations: Do not cut and patch operating elements or safety related components in a manner that would result in reducing their capacity to perform as intended, or result in increased maintenance, or decreased operational life or safety.

- C. Visual Requirements: Do not cut and patch construction exposed on the exterior or in occupied spaces, in a manner that would, **in the Architect's opinion**, reduce the building's aesthetic qualities or result in visual evidence of cutting and patching. Remove and replace Work cut and patched in a visually unsatisfactory manner.
- D. Materials: Use materials that are identical to existing materials. If identical materials are not available or cannot be used where exposed surfaces are involved, use materials that match existing adjacent surfaces to the fullest extent possible with regard to visual effect. Use materials whose installed performance will equal or surpass that of the existing materials.
- E. Inspection: Before cutting existing surfaces, examine surfaces to be cut and patched and conditions under which cutting and patching is to be performed. Take corrective action before proceeding, if unsafe or unsatisfactory conditions are encountered.
- F. Preparation:
1. Provide temporary support of Work to be cut.
  2. Protect existing construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of the Project that might be exposed during cutting and patching operations.
  3. Avoid interference with use of adjoining areas or interruption of free passage to adjoining areas.
  4. Take all precautions necessary to avoid cutting existing pipe, conduit or ductwork serving the building, but scheduled to be removed or relocated until provisions have been made to bypass them.
- G. Performance:
1. Cut existing construction using methods least likely to damage elements to be retained or adjoining construction. Where possible review proposed procedures with the original installer; comply with the original installer's recommendations.
    - a. In general, where cutting is required, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots neatly to size required with minimum disturbance of adjacent surfaces. Temporarily cover opening not in use.
    - b. To avoid marring existing finished surfaces, cut or drill from exposed or finished side into concealed surfaces.
    - c. Cut through concrete and masonry using a cutting machine such as a carborundum saw or diamond core drill.
    - d. Comply with requirements of applicable Sections of Division - 2, where cutting and patching requires excavating and backfilling.
    - e. Bypass utility services such as pipe or conduit, before cutting, where services are shown or required to be removed, relocated or abandoned. Cut-off pipe or conduit in walls or partitions is to be removed. Cap, valve or plug and seal the remaining portions of pipe or conduit to prevent entrance of moisture or other foreign matter after by-passing and cutting.
  2. Patching: Patch with durable seams that are as invisible as possible. Comply with specified tolerances.
    - a. Where feasible, inspect and test patched areas to demonstrate integrity of the installation.
    - b. Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will eliminate evidence of patching and refinishing.
    - c. Where removal of walls or partitions extends one finished area in to another, patch and repair floor and wall surfaces in the new space to provide an even surface of uniform color and appearance. Remove existing floor and wall coverings and replace with new materials, if necessary to achieve uniform color and appearance.

(1)Where patching occurs in a smooth painted surface, extend final paint coat over unbroken area containing the patch, after the patched area has received primer and second coat.

- d. Patch, repair or re-hang existing ceiling as necessary to provide an even plane surface of uniform appearance.
- H. Cleaning: Thoroughly clean areas and spaces where cutting and patching is performed or used as access. Remove completely paint, mortar, oils, putty and items of similar nature. Thoroughly clean piping, conduit and similar features before painting or other finishing is applied. Restore damaged pipe covering to its original condition.

### 3.07 INSTALLATION OF COMPONENTS

- A. Install all products in accordance with manufacturer's instructions and recommendations, whether conveyed in writing or not.
- B. Mounting Heights: Where mounting heights are not indicated, mount at heights directed by the Architect.**
- C. Separate incompatible materials with suitable materials or spacing.
  - 1. Prevent cathodic corrosion.
- D. Provide all anchors and fasteners required and use methods necessary to securely fasten work.
  - 1. Allow for thermal expansion and contraction, and for building movement.
- E. Joints in Exposed Work:
  - 1. Make joints of uniform widths.
  - 2. Where joint locations are not indicated, arrange joints for the best visual effect.
    - a. When in doubt, obtain the architect's instructions.
- F. After installation, adjust operating components to proper operation.

### 3.08 FINAL CLEANING

- A. The General Work Contractor, shall perform all final cleaning.**
- B. Remove materials and equipment which are not part of the work and all debris from the site prior to substantial completion.
  - 1. Remove all surplus materials which are to remain property of the contractor; obtain the owner's instructions as to disposition of surplus material remaining on site and deliver, store, or dispose of as directed.
  - 2. Remove protective coverings.
  - 3. Remove temporary facilities.
- C. Dispose of debris in a lawful manner.
  - 1. Do not burn or bury debris on the site.
  - 2. Do not dispose of volatile wastes in storm or sanitary drains.
- D. Perform final cleaning after substantial completion has been certified, but before final payment.**
  - 1. Use only professional cleaners.
  - 2. **Clean to the level of cleanliness that would be expected by a residential building owner from a maid service.**

- E. In spaces to be occupied, remove dirt, stains, and other foreign substances from all accessible surfaces and remove nonpermanent labels.
- F. In spaces not normally occupied, remove debris and surface dust and wipe equipment clean, removing excess lubrication, paint, and other foreign substances.
- G. Remove paint and other coatings from permanent labels and from mechanical and electrical equipment nameplates.
- H. Leave the project clean and ready for occupancy.

### **3.09 PROJECT COMPLETION PROCEDURES**

- A. Complete the work, prior to substantial completion, as required to obtain consent to occupancy from the governing authorities.
- B. Arrange for final inspections by governing authorities to be accomplished prior to substantial completion.
  - 1. Obtain certificate of occupancy.
- C. If temporary locking systems differ from permanent locking systems, change over to permanent systems prior to substantial completion.
- D. Final Extermination: The General Work Contractor, Contract #1, shall engage a licensed exterminator to make a final inspection and rid the project of rodents, insects, and other pests.

**END OF SECTION 017000**

## **SECTION 018000 - PROJECT RECORD DOCUMENTS**

### **PART 1 - GENERAL**

#### **1.01 SUMMARY**

- A. Section Includes:
  - 1. Project record documents consisting of:
    - a. Record drawings, including As-built drawings.
    - b. Record project manual (specifications).
    - c. Progress Photographs – See Specification Section 012500.
- B. Related Sections:
  - 1. Payment, Modification, and Completion Procedures: Elsewhere in Division 1.
  - 2. Operation and maintenance data: Elsewhere in Division 1.
  - 3. Warranties: Elsewhere in Division 1.

#### **1.02 SUBMITTALS**

- A. Project Record Documents: Submit prior to substantial completion.
  - 1. Submit digital marked-up print set.
  - 2. Sets shall include all drawings, whether changed or not.

### **PART 2 - PRODUCTS (NOT USED)**

### **PART 3 - EXECUTION**

#### **3.01 MAINTENANCE OF PROJECT RECORD DOCUMENTS**

- A. Do not use record documents of any type for construction purposes.
- B. Maintain any needed record documents in a secure location at the site while providing for access by the contractor and the architect during normal working hours; store in a fire-resistive room or container outside of normal working hours.
- C. Record information as soon as possible after it is obtained.
- D. Assign a person or persons responsible for maintaining record documents.
- E. Record the following types of information on all applicable record documents:
  - 1. Dimensional changes.
  - 2. New and revised details.
  - 3. Depths of foundations.
  - 4. Locations and depths of underground utilities.
  - 5. Actual routings of piping and conduits.
  - 6. Revisions to electrical circuits.
  - 7. Actual equipment locations.
  - 8. Sizes and routings of ducts.
  - 9. Locations of utilities concealed in construction.
  - 10. Particulars on concealed products which will not be easy to identify later.
  - 11. Changes made by modifications to the contract; note identification numbers if applicable.
  - 12. New information which may be useful to the owner, but which was not shown in either the contract documents or submittals.

### **3.02 RECORD AND AS-BUILT DRAWINGS**

- A. Each contractor shall maintain a digital copy of the contract drawings, marked to show changes which occur due to his work.
- B. Where the actual work differs from that shown on the drawings, mark this set to show the actual work.
  - 1. Mark location of concealed items before they are covered by other work.
  - 2. Mark either record contract drawings or shop drawings, whichever are best suited to show the change.
  - 3. Where changes are marked on record shop drawings, mark cross-reference on the applicable contract drawing.
- C. When the contractor is required by a provision of a modification to prepare a new drawing, rather than to revise existing drawings, obtain instructions from the Architect as to the drawing scale and information required.
- D. Keep drawings in labeled for revisions.
- E. Where record drawings are also required as part of operation and maintenance data submittals, make copies from the original record drawing set.
- F. As-Built Drawings: Each contractor shall submit the following complete sets of digital As-Built record drawings ( same size format as original project drawings);

### **3.03 RECORD PROJECT MANUAL**

- A. Each contractor shall maintain a digital copy of the project manual, marked to show changes which occur due to his work.
- B. Where the actual work differs from that shown in the digital project manual, mark the record copy to show the actual work.
  - 1. Include a copy of each addendum and modification to the contract.
  - 2. In addition to the types of information required on all record documents, record the following types of information:
    - a. Product options taken, when the specification allows more than one.
    - b. Product substitutions.
    - c. Proprietary name and model number of actual products furnished, for each product, material, and item of equipment specified.
    - d. Name of the supplier and installer, for each product for which neither a product data submittal nor a maintenance data submittal was specified.

### **3.04 RECORD SUBMITTALS**

- A. Each contractor shall maintain a complete digital set of all submittals made during construction, marked to show changes which occur due to his work.
  - 1. Maintain submittals in electronic file
  - 2. Sort submittals by applicable specification section and file in order of submittal identification number.
- B. Record Product Data Submittals: Record the types of information specified for all record documents.
  - 1. In addition, record the following types of information:

- a. Changes in the products as delivered to the site.
  - b. Changes in manufacturer's instructions or recommendations for installation.
- C. Record Coordination Drawings: Record the types of information required for all record documents.
- 1. Mark up in the manner specified for record drawings.

**3.05 TRANSMITTAL TO OWNER, CONSTRUCTION MANAGER & ARCHITECT**

- A. Collect, organize, label, and electronically file package ready for reference.
- 1. Submittals.
  - 2. "PROJECT RECORD DOCUMENTS - This document has been prepared using information furnished by \_\_\_\_\_", and the date of preparation.
- B. Submit to the architect for transmittal to the owner, unless otherwise indicated.

**END OF SECTION 018000**

## **SECTION 022000 – SITEWORK**

### **PART 1 - GENERAL**

#### **1.01 SUMMARY**

A. Section Includes:

1. Site clearing.
2. Earth moving and excavation.
3. Grading.
4. Backfilling.
5. Filling.
6. Compacting.
7. Outdoor Structures & Other Equipment
8. Landscaping – See Drawings for types and planting details

B. Related Sections:

1. Concrete: Division 3.

#### **1.02 SITE CONDITIONS**

A. Traffic: Do not interfere with or close public ways without permission of governing authorities. Do not interfere with adjacent private facilities.

B. Site Utilities:

1. Advise utility companies of excavation activities before starting excavations. Locate and identify underground utilities passing through work area before starting work.
2. If underground utilities are encountered in locations other than indicated, immediately advise utility owners before proceeding. Amend project record documents to show actual locations.
3. Protect existing utilities indicated to remain.
4. Do not interrupt existing utilities without advance notice to and written approval from the Owner.

### **PART 2 - PRODUCTS**

#### **2.01 MATERIALS**

- A. Where sufficient approved materials are not available from required excavations on site, obtain and pay for materials from approved sources off site without charge to the Owner.
- B. Obtain approval of the architect for each soil material.
- C. Topsoil: Friable clay loam surface soil.
- D. Satisfactory Topsoil: Fertile agricultural soil, typical for locality, capable of sustaining vigorous plant growth; free of subsoil, rocks larger than 2 inches in diameter, clay, toxic matter, plants, weeds, and roots.
- E. Backfill and Fill Materials: Materials classified as satisfactory.

- F. Satisfactory Soil Material (ASTM D 2487): Free of stones larger than 2 inches in any dimension, trash, debris, organic material, other objectionable material and classified as follows:
1. GW (well-graded gravel).
  2. GM (silty gravel).
  3. SW (well-graded sand).
  4. SM (silty sand).
  5. CL (lean clay).
  6. ML (silt).
- G. Unsatisfactory Soil Material (ASTM D 2487):
1. GP (poorly graded gravel).
  2. GC (clayey gravel).
  3. SP (poorly graded sand).
  4. SC (clayey sand).
  5. OL (organic clay).
  6. OS (organic silt).
  7. CH (fat clay).
  8. MH (elastic silt).
  9. OH (organic clay).
  10. OS (organic silt).
  11. PT (peat).
- H. Capillary Water Barrier: Clean, crushed rock or gravel or uncrushed gravel; 100 percent passing a 1-1/2-inch sieve; not more than 2 percent passing a No. 4 sieve.
- I. Subbase Material: Well-graded, clean, sound, durable particles of crushed stone, crushed blast furnace slag, or crushed gravel, and screening. Obtain the architect's approval of source, quality, and gradation.

## **PART 3 - EXECUTION**

### **3.01 PREPARATION**

- A. Protection: Provide markers indicating limits of work and clear identification of items and areas requiring protection.
- B. Provide barricades, warning signs, and warning lights around open excavations as necessary to prevent injury to persons.
- C. The contractor is solely responsible for determining the potential for injury to persons and damage to property.
1. Where such potential is present, take appropriate protective measures.
  2. Protect persons from injury and protect existing and new improvements from damage caused directly or indirectly by construction operations.
- D. Do not allow excavation subgrades and soil at foundations to be subjected to freezing temperatures or frost. Provide protective insulating materials as necessary. Should prepared, compacted subgrades be damaged by freezing, remove soil materials to the depth required by the architect and replace and recompact in conformance with specified requirements.

### **3.02 EROSION CONTROL**

- A. To the maximum extent practicable, prevent erosion or displacement of soils and discharge of soil-bearing water runoff to adjacent properties and waterways.
- B. Provide erosion control during the entire project in accordance with applicable regulations.

### **3.03 PROTECTION OF TREES**

- A. Provide temporary guards to protect trees and vegetation to remain. Place guards so as to prevent all forms of vehicular traffic or parking within drip lines.
  - 1. Do not allow excess foot traffic within drip lines.
  - 2. Do not stockpile construction materials, soil, or aggregates within drip lines.
  - 3. Water trees and other vegetation to remain within limits of the area of construction activities as required to maintain their health during course of construction operations.
- B. Raising Grades:
  - 1. Minor fills less than 6 inches: Place specified topsoil without compacting, and finish grade by hand.
- C. Promptly repair any damaged trees to prevent death or loss of vigor.

### **3.04 CLEARING AND GRUBBING**

- A. Remove all vegetable matter from within the limits indicated on the drawings.
  - 1. Fill holes thus created with approved, compacted soil.
  - 2. Remove and dispose of grass and other vegetation before stripping topsoil. Strip topsoil down to subsoil without contaminating topsoil with subsoil.
  - 3. Stockpile in a manner to freely drain surface water and to prevent contamination by subsoil or other materials; cover if necessary to prevent wind-blown dust.
  - 4. Do not strip topsoil within driplines of trees indicated to remain.

### **3.05 DEWATERING**

- A. Do not allow surface or ground water to flow into or accumulate in excavations.
- B. Do not allow water to flow in an uncontrolled fashion across the project site or to erode slopes or to undermine foundations. Do not allow water to be diverted onto adjacent properties. Arrange excavation operations so as to provide continual and effective drainage of excavations.
- C. Provide and maintain temporary diversion ditches, dikes, and grading as necessary; do not use trench excavations for this purpose. When required by surface or subsurface water conditions, provide sumps, well points, French drains, pumps, and other control measures necessary to keep excavations free of water. When existence of ground water near or above final excavation level is indicated or suspected, provide control measures prior to excavating to water level and maintain water level continuously below working level.

### **3.06 EXCAVATION**

- A. General: Excavation includes the removal of any materials necessary to achieve the required

Sub-grade elevations and includes reuse or disposal of such materials.

- B. Unnecessary Excavation: The expense of excavation of materials outside of limits indicated or ordered in writing by the architect and the correction thereof to the satisfaction of the architect shall be borne by the contractor.
  - 1. Unnecessary excavation under footings: Either deepen footings to bear on actual sub-grade elevation without changing top elevations or place concrete fill up to required elevation, as required by the Architect.
  - 2. Unnecessary excavation other than under footings: Either place compacted fill or otherwise correct conditions, as required by the Architect.
- C. Approval of Sub-grade: Notify the architect when required elevations have been reached.
  - 1. When required by the architect due to the unforeseen presence of unsatisfactory materials or other factors, perform additional excavation and replace with approved compacted fill material in accordance with the architect's instructions.
  - 2. Payment for unforeseen additional work will be made in accordance with established unit prices or, if none, in accordance with provisions for changes in the work. No payment will be made for correction of subgrades improperly protected against damage from freeze-thaw or accumulation of water, or for correction of otherwise defective subgrades.
- D. Excavation Stabilization: Wherever it is possible to slope faces of excavations to achieve stabilization, do so in compliance with requirements of governing authorities. Otherwise, provide shoring and bracing.
  - 1. Design, provide, maintain, and remove shoring and bracing in compliance with requirements of governing authorities. Remove temporary shoring and bracing when stabilization is no longer required.
- E. Excavation for Structures:
  - 1. Excavate beyond footings and foundations so as to allow proper construction and inspection of concrete formwork and other materials. Excavate to the required elevation.
    - a. Tolerance: Plus or minus 0.10 foot.
- F. Excavation for Footings and Foundations:
  - 1. Delay excavation to final grade and final compaction until just before concrete will be placed.
  - 2. Remove any loose or sloughed material and adjust excavations to conform to required lines, grades, and tolerances and to form a suitable bearing surface. Do not disturb bottom of completed excavations.
- G. Excavation for Pavements: Excavate, shape, and compact to the lines, sub-grade elevations, and cross sections indicated.

### **3.07 STORAGE**

- A. Stockpile materials to be used for filling and backfilling, including excavated materials classified as satisfactory soil materials, at locations indicated or as directed. Stockpile in a manner to freely drain surface water; cover if necessary to prevent wind-blown dust.

1. Store soil materials without intermixing. Protect from contamination with other soils or debris.
2. Do not stockpile materials inside of drip line of trees to remain.

### **3.08 BACKFILLING**

- A. Preparation: Backfill excavations as soon as practicable. Complete the following operations before backfilling:
  1. Inspection and acceptance of below-grade construction.
  2. Inspection, testing, and approval of underground utilities.
  3. Surveying of underground utilities for record documents.
  4. Concrete formwork removal.
  5. Removal of loose material, muck, debris, and trash from excavation.
  6. Installation of temporary or permanent horizontal bracing for structures to receive backfill.
- B. Remove temporary shoring and bracing as the work progresses and when its use is no longer necessary.
- C. Installation: Place approved soil materials in layers to required elevations.
  1. Do not place material on muddy or frozen surfaces or on surfaces containing frost.
- D. Installation: Place satisfactory soil materials in layers to required subgrade elevations.

### **3.09 FILLING**

- A. Preparation: Verify that area has been stripped of vegetation including roots below grade. Remove and dispose of any unsatisfactory soils.
  1. When filling slopes steeper than 1 in 4 rise, plow, step, or break up surfaces to promote bond of new to existing material.
  2. Should density of sub-grade to receive fill be less than specified for fill, break up and pulverize sub-grade to a depth of at least 6 inches, moisture condition if necessary, and re-compact to required density at optimum moisture content.
- B. Installation: Place fill materials to required elevations in lifts of required depth. Provide fill materials beneath each area as indicated.
  1. Planted areas: Satisfactory soil materials.
  2. Paved areas: Combination of sub-base material and satisfactory soil materials as indicated on drawings.
  3. Exterior steps/ramps: Satisfactory soil materials.
  4. Building slabs: Capillary water barrier material.

### **3.10 PAVEMENT SUBBASE COURSE PLACEMENT**

- A. Place lifts such that compaction true to grade and level is accomplished with a minimum of surface disturbance and segregation or degradation of materials. Maintain grade control and cross section by means of line and grade stakes. Maintain moisture content within prescribed limits during placing and compacting.
- B. When the total thickness of sub-base is less than the maximum lift thickness permitted, place material in a single lift. When the total thickness of sub-base is greater than the maximum lift thickness permitted, place materials in two or more lifts of uniform thickness with no lift less than 3 inches in thickness.
- C. Place material along the edges of the sub-base course so as to maintain compaction of the subbase course. Construct at least a 1-foot width of shoulder simultaneously with each lift of the subbase course.
- D. Cut any overbuild to grade. Should top elevation be lower than allowable tolerances, scarify to a depth of 3 inches, add new material, and re-compact to bring to grade within required tolerances.

### **3.11 BUILDING SLAB AREAS**

- A. Place fill or backfill lifts such that compaction true to grade and level is accomplished with a minimum of surface disturbance and segregation or degradation of materials. Maintain grade control and cross section by means of line and grade stakes. Maintain moisture content within prescribed limits during placing and compacting.
- B. When the total thickness of materials to be placed is less than the maximum lift thickness permitted, place material in a single lift less than 3 inches in thickness.
  - 1. Capillary water barrier: Under slabs on grade, place capillary water barrier material directly on sub-grade, shape surface to within the required tolerances and compact.

### **3.12 COMPACTION**

- A. Place materials used in backfilling and filling in layers not exceeding loose depths as follows:
  - 1. Heavy equipment compaction: 6 inches.
  - 2. Hand-operated tampers: 3 inches.
- B. Place material simultaneously on opposite sides of walls, small structures, utility lines, etc. to avoid displacement or overstressing.
- C. In-Place Density Requirements: Compact soil to not less than the values given below, expressed as a percentage of maximum density at optimum moisture content.
  - 1. Unpaved areas: Top 6 inches of sub-grade and subsequent lifts:
    - a. 90 percent.
  - 2. Paved areas: Top 12 inches of sub-grade and subsequent lifts:
    - a. 95 percent.
  - 3. Exterior steps and ramps: Top 8 inches of sub-grade and subsequent lifts:
    - a. 95 percent.
  - 4. Building slabs and structures: Top 12 inches of sub-grade and subsequent lifts:
    - a. 95 percent.
- D. Moisture Control: During compaction, control moisture of sub-grades and subsequent lifts to within tolerances from optimum moisture content as recommended by testing laboratory. Wet surface with water when additional moisture is required. Aerate soil to aid in drying or replace soil when excessive moisture is present.

### **3.13 GRADING**

- A. General: Smooth grade to a uniform surface that complies with compaction requirements and required lines, grades, and cross sections and is free from irregular surface changes.
- B. Provide smooth transition between existing adjacent grades and changed grades. Cut out soft spots, fill low spots, and cut down high spots to conform to required surfaces tolerances.
- C. Slope grades to direct water away from structures and to prevent ponding. Finish sub-grade to required elevations within the following tolerance:
  - 1. Unpaved areas: Plus or minus 0.10 foot.
  - 2. Paved areas: Plus or minus 0.05 foot.
  - 3. Exterior steps and ramps: Plus or minus 0.05 foot.
  - 4. Inside building lines: ½ inch as measured with a 10-foot straightedge.

### **3.14 MAINTENANCE**

- A. Completed Areas: Protect from damage by pedestrian or vehicular traffic, freezing, erosion, and contamination with foreign materials.
  - 1. Repair and re-establish grades to specified tolerances in settled, eroded, or rutted areas.
- B. Damaged Areas: Where completed or partially completed surfaces become eroded, rutted, settled, or lose compaction and whether due to subsequent construction operations or weather conditions, restore materials to required conditions: Scarify or remove and replace to the required depth, return to optimum moisture content, and compact materials to the required density before continuing construction.
- C. Correction: Should settling occur within the project correction period, remove finished surfacing, add additional approved material, compact material, and reconstruct surfacing. Construct surfacing to match and blend in with adjacent surfacing as nearly as practicable.

### **3.15 DISPOSAL OF EXCESS AND WASTE MATERIALS**

- A. Evenly spread any excess satisfactory topsoil in locations on site as directed by the architect. Properly dispose of unsatisfactory topsoil off site.
- B. Remove any material not required for use on the project (including unsatisfactory soil, excess satisfactory soil, trash, and debris) and legally dispose of it off the owner's property.
- C. On-site burning is not permitted.

**END OF SECTION 022000**

## **SECTION 033000 - CAST-IN-PLACE CONCRETE**

### **PART 1 - GENERAL**

#### **1.01 SUMMARY**

- A. Section Includes:
  - 1. Formwork for cast-in-place concrete, with shoring, bracing, and anchorage.
  - 2. Formwork accessories.
  - 3. Form stripping.
  - 4. Reinforcing steel for cast-in-place concrete.
- B. Cast-in-place concrete, including concrete for the following:
  - 1. Foundations, footings.
  - 2. Slabs on grade.
  - 3. Foundation walls.
  - 4. Retaining walls.
- C. Concrete curing.

#### **1.02 DEFINITIONS**

- A. Unexposed Finish: A general-use finish, with no appearance criteria, applicable to all formed concrete concealed from view after completion of construction.
- B. Exposed Finish: A general-use finish applicable to all formed concrete exposed to view and including surfaces which may receive a paint coating (if any).

#### **1.03 SUBMITTALS**

- A. Product Data: Submit manufacturer's product data for the following:
  - 1. Formwork accessories.
  - 2. Mechanical connectors for reinforcing steel.
  - 3. Concrete admixtures.
  - 4. Grout.
  - 5. Curing compound.
  - 6. Bonding compound.
- B. Aggregates: Submit test reports showing compliance with specified quality and gradation.
- C. Quality Control Submittals: Submit the following information related to quality assurance requirements specified:
- D. Design data: Submit proposed mix designs and test data before concrete operations begin. Identify for each mix submitted the method by which proportions have been selected.
- E. For mix designs based on field experience, include individual strength test results, standard deviation, and required average compressive strength  $f'(cr)$  calculations.
- F. For mix designs based on trial mixtures, include trial mix proportions, test results, and graphical analysis and show required average compressive strength  $f'(cr)$ .

1. Indicate quantity of each ingredient per cubic yard of concrete.
  2. Indicate type and quantity of admixtures proposed or required.
- G. Test reports: Submit laboratory test reports for all testing specified.
- H. Certifications: Provide certification from an independent testing agency that mechanical connectors for reinforcing steel comply with specified requirements.
- I. Delivery tickets: Submit copies of delivery tickets complying with ASTM C 94 for each load of concrete delivered to site.
1. Include on the tickets the additional information specified in the ASTM document.
- J. Cold weather concreting: Submit description of planned protective measures.
- K. Hot weather concreting: Submit description of planned protective measures.

#### **1.04 QUALITY ASSURANCE**

- A. Codes and Standards: Comply with the following documents, except where requirements of the contract documents or of governing codes and governing authorities are more stringent:
1. ACI 301.
  2. ACI 318.
  3. CRSI Manual of Standard Practice.
  4. Testing Agency Services:
- B. Employ, at contractor's expense, an independent testing agency acceptable to the Architect to perform specified tests and other services required for quality assurance.
1. Testing agency shall meet ASTM E 329 requirements.
- C. Source of Materials: Obtain materials of each type from same source for the entire project.

#### **1.05 DELIVERY, STORAGE, AND HANDLING**

- A. Deliver reinforcement to project site bundled and tagged with metal tags indicating bar size, lengths, and other data corresponding to information shown on placement drawings.
- B. Store concrete reinforcement materials at the site to prevent damage and accumulation of dirt or rust.
- C. Store cementitious materials in a dry, weathertight location. Maintain accurate records of shipment and use.
- D. Store aggregates to permit free drainage and to avoid contamination with deleterious matter or other aggregates. When stockpiled on ground, discard bottom 6 inches of pile.
- E. Handle aggregates to avoid segregation.

#### **1.06 PROJECT CONDITIONS**

- A. Cold-Weather Concreting: Comply fully with the recommendations of ACI 306.
1. Well in advance of proposed concreting operations, advise the Architect of planned

protective measures including but not limited to heating of materials, heated enclosures, and insulating blankets.

- B. Hot-Weather Concreting: Comply fully with the recommendations of ACI 305R.
  - 1. Well in advance of proposed concreting operations, advise the Architect of planned placement during evening to dawn hours, fogging during finishing and curing, shading, and windbreaks.

## **PART 2 - PRODUCTS**

### **2.01 FORMWORK**

- A. Facing Materials:
  - 1. Unexposed finish concrete: Any standard form materials that produce structurally sound concrete.
  - 2. Exposed finish concrete: Materials selected to offer optimum smooth, stain-free final appearance and minimum number of joints. Provide materials with sufficient strength to resist hydrostatic head without bow or deflection in excess of allowable tolerances, and as follows:
    - a. Overlaid plywood: PS-1 "B-B High Density Concrete Form Overlay," Class I.
- B. Formwork Accessories:
  - 1. Form coating: Form release agent that will not adversely affect concrete surfaces or prevent subsequent application of concrete coatings.
  - 2. Metal ties: Commercially manufactured types; cone snap ties, taper removable bolt, or other type which will leave no metal closer than 1-1/2 inches from surface of concrete when forms are removed, leaving not more than a 1-inch-diameter hole in concrete surface.
  - 3. Fillets: Wood or plastic fillets for chamfered corners, in maximum lengths possible.

### **2.02 REINFORCING MATERIALS**

- A. Reinforcing Bars: Provide deformed bars complying with the following, except where otherwise indicated:
  - 1. ASTM A 615, Grade 60.
- B. In locations indicated, provide reinforcing complying with the following:
  - 1. Plain steel wire: ASTM A 82, cold-drawn steel, plain.
  - 2. Reinforcing Bar Mats: ASTM A 184, clipped type.
  - 3. Provide mechanical connections for reinforcement splices of the type indicated and capable of developing at least 125 percent of the specified yield strength of the bar when tested in tension and compression.
  - 4. Welded Wire Fabric: ASTM A 185, cold-drawn steel, plain.
- C. Reinforcing Accessories:
  - 1. Tie wire: Black annealed type, 16-1/2 gage or heavier.
  - 2. Supports: Bar supports conforming to specifications of CRSI "Manual of Standard Practice."
    - a. Class 1 (plastic protected) at all formed surfaces which will be exposed to weather
    - b. Class 1 (plastic protected) or Class 2 (stainless steel protected) at all formed surfaces which will be exposed to view but not to weather.
    - c. Precast concrete blocks of strength equal to or greater than specified strength of concrete or Class 3 supports equipped with sand plates, where concrete will be cast against earth. Concrete masonry units will not be accepted.

### **2.03 CONCRETE MATERIALS**

- A. Portland Cement: ASTM C 150, and as follows:
  - 1. Type I, except where other type is specifically permitted or required.
  - 2. Type I may be replaced by Type III (high early strength) for concrete placed during cold weather.
- B. Water: Potable.
- C. Aggregates:
  - 1. Normal weight concrete: ASTM C 33.

2. Class 4S.
  3. Maximum size of coarse aggregates, whichever is least:
    - a. One-fifth narrowest dimension between sides of forms.
    - b. One-third of depth of slabs.
    - c. Three-fourths of minimum clear distance between reinforcing bars or between bars and side of form.
    - d. Columns and piers: Two-thirds of minimum clear distance between bars.
- D. Admixtures - General: Admixtures which result in more than 0.1 percent of soluble chloride ions by weight of cement are prohibited.
- E. Air-Entraining Admixture: ASTM C 260 and certified by manufacturer for compatibility with other mix components.
- F. Water-Reducing Admixture: ASTM C 494, Type A.
- G. Water-Reducing, Retarding Admixture: ASTM C 494, Type D.
- H. Water-Reducing and Accelerating Admixtures: ASTM C 494, Type E.

#### **2.04 MISCELLANEOUS MATERIALS AND ACCESSORIES**

- A. Nonshrink Grout: ASTM C 1107.
1. Type: Provide metallic type only.
- B. Burlap: AASHTO M 182, Class 2 jute or kenaf cloth.
- C. Liquid Curing Compounds:
1. Material - curing compounds: Comply with ASTM C 309, Type 1.
  2. Non-yellowing formulation where subject to ultraviolet light.
- D. Curing and sealing compound: Where indicated, provide curing and sealing formulation with long-lasting finish that is resistant to chemicals, oil, grease, deicing salts, and abrasion.
- E. Solvents: Provide water-based products.
- F. Bonding Compound: Non-redispersable acrylic bonding admixture, ASTM C 1059, Type II.
- G. Expansion Joint Filler:

1. Nonextruding bituminous type: ASTM D 1751.

## 2.05 CONCRETE MIX DESIGN

- A. Review: Do not begin concrete operations until proposed mix has been reviewed by the Architect.
- B. Proportioning of Normal Weight Concrete: Comply with recommendations of ACI 211.1.
- C. Required Average Strength: Establish the required average strength  $f'(cr)$  of the design mix on the basis of either field experience or trial mixtures as specified in ACI 301, and proportion mixes accordingly. If trial mixtures method is used, employ an independent testing agency acceptable to the Architect for preparing and reporting proposed mix design.
- D. Specified Compressive Strength  $f'(c)$  at 28 Days for Locations as Indicated on Drawings:
  1. Floor slab: 3000 psi. minimum, unless otherwise specifically indicated.
  2. Walls: 3000 psi. minimum, unless otherwise specifically indicated.
  3. Sidewalks: 5000 psi. minimum.
- E. Admixtures:
  1. Air-entraining admixture: Use in mixes for exterior exposed concrete unless otherwise specifically indicated. Add at rate to achieve total air content in accordance with Table 1.4.3 of ACI 201.2. For concrete not exposed to exterior, add at rate to achieve total air content between 2 percent and 4 percent.
    - a. Do not use in slabs-on-grade scheduled to receive topping, unless manufacturer of topping recommends use over air-entrained concrete.
  2. Water-reducing admixture: Add as required for placement and workability.
  3. Water-reducing and retarding admixture: Add as required in concrete mixes to be placed at ambient temperatures above 90 degrees F.
  4. Water-reducing and accelerating admixture: Add as required in concrete

mixes to be placed at ambient temperatures below 50 degrees F.

5. Do not use admixtures not specified or approved.
6. Mix Adjustments: Provided that no additional expense to Owner, Contractor may submit for Architect's approval and requests for adjustment to approved concrete mixes when circumstances such as changed project conditions, weather, or unfavorable test results occur. Include laboratory test data substantiating specified properties with mix adjustment requests.

## **2.06 CONTROL OF MIX IN THE FIELD**

- A. Slump: A tolerance of up to 1 inch above approved design mix slump will be permitted for 1 batch in 5 consecutive batches tested. Concrete of lower slump than that specified may be used, provided proper placing and consolidation is obtained.
- B. Total Air Content: A tolerance of plus or minus 1-1/2 percent of approved design mix air content will be allowed for field measurements.
- C. Do not use batches that exceed tolerances.

## **2.07 CONCRETE MIXING**

- A. Transit Mixers: Mix concrete materials in transit mixers, complying with requirements of ASTM C 94.
  1. At ambient temperatures of 85 to 90 degrees F, reduce mixing and delivery time to 75 minutes.
  2. At ambient temperatures above 90 degrees F, reduce mixing and delivery time to 60 minutes.

## **PART 3 - EXECUTION**

### **3.01 CONCRETE FORM PREPARATION**

- A. General: Comply with requirements of ACI 301 for formwork, and as herein specified. The Contractor is responsible for design, engineering, and construction of

formwork, and for its timely removal.

- B. Earth Forms: Hand-trim bottoms and sides of earth forms to profiles indicated on the drawings.  
Remove loose dirt before placing concrete.
- C. Design: Design and fabricate forms for easy removal, without impact, shock, or damage to concrete surfaces or other portions of the work. Design to support all applied loads until concrete is adequately cured, within allowable tolerances and deflection limits.
- D. Construction: Construct and brace formwork to accurately achieve end results required by contract documents, with all elements properly located and free of distortion. Provide for necessary openings, inserts, anchorages, and other features shown or otherwise required.
  - 1. Joints: Minimize form joints and make watertight to prevent leakage of concrete.
  - 2. Align joints symmetrically at exposed conditions.
  - 3. Chamfers: Provide chamfered edges and corners at exposed locations, unless specifically indicated otherwise on the drawings.
  - 4. Permanent openings: Provide openings to accommodate work of other trades, sized and located accurately. Securely support items built into forms; provide additional bracing at openings and discontinuities in formwork.
  - 5. Temporary openings: Provide temporary openings for cleaning and inspection in most inconspicuous locations at base of forms, closed with tight-fitting panels designed to minimize appearance of joints in finished concrete work.
  - 6. Tolerances for Formed Surfaces: Comply with minimum tolerances established in ACI 117, unless more stringent requirements are indicated on the drawings.
- E. Release Agent: Provide either form materials with factory-applied nonabsorptive liner or field-applied form coating. If field-applied coating is employed, thoroughly clean and recondition formwork and reapply coating before each use. Rust on form surfaces is unacceptable.

### **3.02 CONNECTION TO EXISTING CONCRETE**

- A. Preparation: At locations where new concrete is to join existing concrete, prepare existing surface by cleaning with wire brush and applying bonding compound in accordance with manufacturer's instructions.
- B. Doweled Connections: At locations where new concrete is doweled to existing work, drill holes in existing concrete, insert steel dowels, and pack solid with nonshrink grout.

### **3.03 PLACING REINFORCEMENT**

- A. General: Comply with requirements of ACI 301 and as herein specified.
- B. Preparation: Clean reinforcement of loose rust and mill scale, soil, and other materials which adversely affect bond with concrete.
- C. Placement: Place reinforcement to achieve not less than minimum concrete coverages required for protection. Accurately position, support, and secure reinforcement against displacement. Provide Class C tension lap splices complying with ACI 318 unless otherwise indicated. Do not field-bend partially embedded bars unless otherwise indicated or approved.
- D. Use approved bar supports and tie wire, as required. Set wire ties to avoid contact with or penetration of exposed concrete surfaces. Tack welding of reinforcing is not permitted.
- E. Wire fabric: Install in maximum lengths possible, lapping adjoining pieces not less than one full mesh. Offset end laps to prevent continuous laps in either direction, and splice laps with tie wire.
- F. Welding: Welding of reinforcement is not permitted.

### **3.04 JOINT CONSTRUCTION**

- A. Construction Joints: Locate and install construction joints as indicated on drawings. If construction joints are not indicated, locate in manner which will not impair strength and will have least impact on appearance, as acceptable to the Architect.
- B. Keyways: Provide keyways not less than 1-1/2 inches deep.

- C. Reinforcement: Continue reinforcement across and perpendicular to construction joints, unless details specifically indicate otherwise.
- D. Expansion Joints: Construct expansion joints where indicated. Install expansion joint filler to full depth of concrete. Recess edge of filler to depth indicated to receive joint sealant (and backer rod where necessary) specified in Division 7.
- E. Control Joints: Construct contraction joints in slabs poured on grade to form panels of sizes indicated on drawings, but not more than 15 feet apart in either direction.
- F. Inserts: Form control joints by means of premolded plastic, hardboard, or fiberboard inserts, 1/8 to 1/4 inch wide and of a depth one-fourth that of the slab. Press inserts into fresh concrete and tool slab edges on either side. Remove inserts and clean resulting groove after concrete has cured.

### **3.05 INSTALLATION OF EMBEDDED ITEMS**

- A. General: Set anchorage devices and other items required for other work connected to or supported by cast-in-place concrete, using templates, setting drawings, and instructions from suppliers of items to be embedded.
- B. Edge Forms and Screeds: Set edge forms and intermediate screeds as necessary to achieve final elevations indicated for finished slab surfaces.

### **3.06 CONCRETE PLACEMENT**

- A. Preparation: Provide materials necessary to ensure adequate protection of concrete during inclement weather before beginning installation of concrete.
- B. Inspection: Before beginning concrete placement, inspect formwork, reinforcing steel, and items to be embedded, verifying that all such work has been completed.
- C. Wood forms: Moisten immediately before placing concrete in locations where form coatings are not used.

D. Placement - General: Comply with requirements of ACI 304 and as follows:

1. Schedule continuous placement of concrete to prevent the formation of cold joints.
2. Provide construction joints if concrete for a particular element or component cannot be placed in a continuous operation.
3. Deposit concrete as close as possible to its final location, to avoid segregation.
4. Placement in Forms: Limit horizontal layers to depths which can be properly consolidated, but in no event greater than 24 inches.
5. Consolidate concrete by means of mechanical vibrators, inserted vertically in freshly placed concrete in a systematic pattern at close intervals. Penetrate previously placed concrete to ensure that separate concrete layers are knitted together.
6. Vibrate concrete sufficiently to achieve consistent consolidation without segregation of coarse aggregates.
7. Do not use vibrators to move concrete laterally.
8. Slab Placement: Schedule continuous placement and consolidation of concrete within planned construction joints.
9. Thoroughly consolidate concrete without displacing reinforcement or embedded items, using internal vibrators, vibrating screeds, roller pipe screeds, or other means acceptable to Architect.
10. Strike off and level concrete slab surfaces, using highway straightedges, darbies, or bull floats before bleed water can collect on surface. Do not work concrete further until finishing operations are commenced.

E. Cold Weather Placement: Comply with recommendations of ACI 306 when air temperatures are expected to drop below 40 degrees F either during concrete placement operations or before concrete has cured.

1. Do not use frozen or ice-laden materials.
2. Do not place concrete on frozen substrates.

F. Hot Weather Placement: Comply with recommendations of ACI 305R when ambient temperature before, during, or after concrete placement is expected to exceed 90 degrees F or

when combinations of high air temperature, low relative humidity, and wind speed are such that the rate of evaporation from freshly poured concrete would otherwise exceed 0.2 pounds per square foot per hour.

1. Do not add water to approved concrete mixes under hot weather conditions.
2. Provide mixing water at lowest feasible temperature, and provide adequate protection of poured concrete to reduce rate of evaporation.
3. Use fog nozzle to cool formwork and reinforcing steel immediately prior to placing concrete.

### **3.07 FINISHING FORMED SURFACES**

- A. Repairs, General: Repair surface defects, including tie holes, immediately after removing formwork.
- B. Remove honeycombed areas and other defective concrete down to sound concrete, cutting perpendicular to surface or slightly undercutting. Dampen patch location and area immediately surrounding it prior to applying bonding compound or patching mortar.
- C. Before bonding compound has dried, apply patching mixture matching original concrete in materials and mix except for omission of coarse aggregate, and using a blend of white and normal portland cement as necessary to achieve color match. Consolidate thoroughly and strike off slightly higher than surrounding surface.
- D. Unexposed Form Finish: Repair tie holes and patch defective areas. Rub down or chip off fins or other raised areas exceeding 1/4 inch height.
- E. Exposed Form Finish: Repair and patch defective areas, with fins or other projections completely removed and smoothed.
- F. Smooth rubbed finish: Apply to surfaces indicated no later than 24 hours after form removal.
- G. Wet concrete surfaces to be finished and rub with Carborundum brick or other abrasive until uniform color and texture are achieved.

1. Do not apply separate grout mixture.
- H. Contiguous unformed surfaces: Strike smooth and float to a similar texture tops of walls, horizontal offsets, and other unformed surfaces adjacent to or contiguous with formed surfaces. Continue final finish of formed surfaces across unformed surfaces, unless otherwise specifically indicated.

### **3.08 FINISHING SLABS**

- A. Finishing Operations - General:
1. Do not directly apply water to slab surface or dust with cement.
  2. Use hand or powered equipment only as recommended in ACI 302.1R.
- B. Screeding: Strikeoff to required grade and within surface tolerances indicated. Verify conformance to surface tolerances. Correct deficiencies while concrete is still plastic.
- C. Bull Floating: Immediately following screeding, bull float or darby before bleed water appears to eliminate ridges, fill in voids, and embed coarse aggregate. Recheck and correct surface tolerances.
- D. Do not perform subsequent finishing until excess moisture or bleed water has disappeared and concrete will support either foot pressure with less than 1/4-inch indentation or weight of power floats without damaging flatness.
- E. Final floating: Float to embed coarse aggregate, to eliminate ridges, to compact concrete, to consolidate mortar at surface, and to achieve uniform, sandy texture. Recheck and correct surface tolerances.
- F. Coordinate appearance and texture of required final finishes with the Architect before application.
- G. Apply final finishes in the locations indicated on the drawings.
- H. Broomed Float Finish: After floating and when water sheen has practically disappeared, apply uniform transverse corrugations approximately 1/16 inch deep, without tearing surface.

- I. Slab Surface Tolerances:
  - 1. Achieve flat, level planes except where grades are indicated. Slope uniformly to drains.
- J. Floated finishes: Depressions between high spots shall not exceed 5/16 inch under a 10-foot straightedge.
- K. Repair of Slab Surfaces: Test slab surfaces for smoothness and to verify surface plane to tolerance specified. Repair defects as follows:
- L. High areas: Correct by grinding after concrete has cured for not less than 14 days.
- M. Low areas: Immediately after completion of surface finishing operations, cut out low areas and replace with fresh concrete. Finish repaired areas to blend with adjacent concrete. Proprietary patching compounds may be used when approved by the Architect.
- N. Crazed or cracked areas: Cut out defective areas, except random cracks and single holes not exceeding 1 inch in diameter, by cutting out and replacing with fresh concrete. Remove defective areas with clean, square cuts. Dampen exposed concrete and apply bonding compound. Mix, place, compact, and finish patching concrete to match adjacent concrete.
- O. Isolated cracks and holes: Groove top of cracks and cut out holes not over 1 inch in diameter. Dampen cleaned concrete surfaces and apply bonding compound; place dry pack or proprietary repair compound acceptable to the Architect while bonding compound is still active:
  - 1. Dry-pack mix: One part portland cement to 2-1/2 parts fine aggregate and enough water as required for handling and placing.
  - 2. Install patching mixture and consolidate thoroughly, striking off level with and matching surrounding surface. Do not allow patched areas to dry out prematurely.

### **3.09 CONCRETE CURING AND PROTECTION**

- A. General:

1. Prevent premature drying of freshly placed concrete, and protect from excessively cold or hot temperatures until concrete has cured.
  2. Provide curing of concrete by one of the methods listed and as appropriate to service conditions and type of applied finish in each case.
- B. Curing Period:
1. Not less than 7 days for standard cements and mixes.
  2. Not less than 4 days for high early strength concrete using Type III cement
  3. Formed Surfaces: Cure formed concrete surfaces by moist curing with forms in place for full curing period or until forms are removed.
  4. Keep wooden or metal forms moist when exposed to heat of the sun.
  5. If forms are removed prior to completion of curing process, continue curing by one of the applicable methods specified.
  6. Surfaces Not in Contact with Forms:
  7. Start curing as soon as free water has disappeared, but before surface is dry. Place to protect adjacent concrete edges. Acceptable curing methods:
- C. Curing compound: Apply at rate stated by manufacturer to conform with moisture-retention requirements specified, using second, immediate application at right angles to first, if necessary, and reapply if damaged by rain.
- D. Curing and sealing compound: Apply at rate stated by manufacturer to conform with moisture-retention requirements specified, using second, immediate application at right angles to first, if necessary, and reapply if damaged by rain. Apply additional coat near substantial completion to act as sealer.
1. Use curing compounds only in locations permitted or required. Do not apply to surfaces to receive other finishes, coatings, or coverings.
- E. During and following curing period, protect concrete from temperature changes of adjacent air in excess of 5 degrees F per hour and 50 degrees F per 24 hours. Progressively adjust protective measures to provide uniform temperature changes over entire concrete surface.

### **3.10 SHORES AND SUPPORTS**

- A. General: Comply with recommendations of ACI 347 for shoring and reshoring in multistory construction.
  - 1. Low-Rise Construction: Extend shoring from ground to roof for structures 4 stories or less in height.
- B. Reshoring: Remove shores and reshore in a planned sequence, to avoid damage to partly cured concrete. Locate and provide adequate reshoring to safely support work without excessive stress or deflection.

### **3.11 REMOVAL OF FORMS AND SUPPORTS**

- A. Non-Load-Bearing Formwork: Provided that concrete has hardened sufficiently that it will not be damaged, forms not actually supporting weight of concrete or weight of soffit forms may be removed after concrete has cured at not less than 50 degrees F for 24 hours. Maintain curing and protection operations after form removal.

### **3.12 MISCELLANEOUS CONCRETE ITEMS**

- A. Fill-in: Fill in holes and openings left in concrete structures for passage of work by other trades after such work is in place. Place such fill-in concrete to blend with existing construction, using same mix and curing methods.

### **3.13 CONCRETE REPAIRS**

- A. Perform cosmetic repairs of concrete surfaces as specified under concrete application.

### **3.14 QUALITY CONTROL TESTING DURING CONSTRUCTION**

- A. Composite Sampling, and Making and Curing of Specimens: ASTM C 172 and ASTM C 31.
  - 1. Take samples at point of discharge.
- B. Slump: ASTM C 143. One test per strength test and additional tests if concrete consistency

changes.

1. Modify sampling to comply with ASTM C 94.
- C. Air Content of Normal Weight Concrete: ASTM C 173 or ASTM C 231. One test per strength test performed on air-entrained concrete.
- D. Concrete Temperature:
1. Test hourly when air temperature is 40 degrees F or below.
  2. Test hourly when air temperature is 90 degrees F or above.
  3. Test each time a set of strength test specimens is made.
- E. Compressive Strength Tests: ASTM C 39.
1. Compression test specimens: Mold and cure one set of 4 standard cylinders for each compressive strength test required.
- F. Testing for acceptance of potential strength of as-delivered concrete:
1. Obtain samples on a statistically sound, random basis.
- G. Minimum frequency:
1. One set per 100 cubic yards or fraction thereof for each day's pour of each concrete class.
  2. One set per 3500 square feet of slab or wall area or fraction thereof for each day's pour of each concrete class.
  3. When less than 5 cubic yards is placed in one day, the Architect may, at his option, waive laboratory testing of specimens if adequate evidence of satisfactory strength is provided. (Molding and curing of these specimens is not waived.)
  4. When the above testing frequency would provide fewer than 5 strength tests for a given class of concrete during the project, conduct testing from not less than 5 randomly selected batches, or from each batch if fewer than 5.
  5. Test one specimen per set at 7 days for information unless an earlier age is required.
  6. Test 2 specimens per set for acceptance of strength potential; test at 28 days unless other age is specified. The test result shall be the average of the two specimens. If one specimen shows evidence of improper sampling, molding, or testing, the test result shall be the result

- of the remaining specimen; if both show such evidence, discard the test result and inform the Architect.
7. Retain one specimen from each set for later testing, if required.
- H. Strength potential of as-delivered concrete will be considered acceptable if all of the following criteria are met:
1. No individual test result falls below specified compressive strength by more than 500 psi.
  2. Not more than 10 percent of individual test results fall below specified compressive strength  $f'(c)$ .
  3. Average of any 3 consecutive strength test results equals or exceeds specified compressive strength  $f'(c)$ .
- I. Testing for evaluation of field curing:
1. Frequency: 1 field set of specimens per strength acceptance test.
  2. Mold specimens from same sample used for strength acceptance tests. Field-cure, and test at same age as for strength acceptance tests.
- J. Evaluate construction and curing procedures and implement corrective action when strength results for field-cured specimens are less than 85 percent of test values for companion laboratory-cured specimens.
- K. Test Results: Testing agency shall report test results in writing to Architect/Engineer and the Contractor within 24 hours of test.
- L. Test reports shall contain the following data:
1. Project name, number, and other identification.
  2. Name of concrete testing agency.
  3. Date and time of sampling.
  4. Concrete type and class.
  5. Location of concrete batch in the completed work.
  6. All information required by respective ASTM test methods.
- M. Nondestructive testing devices such as impact hammer or sonoscope may be used at Architect's option for assistance in determining probable concrete strength at various locations or

for selecting  
areas to be cored, but such tests shall not be the sole basis for acceptance or rejection.

- N. The testing agency shall make additional tests of in-place concrete as directed by the Architect/Engineer when test results indicate that specified strength and other concrete characteristics have not been attained.
- O. Testing agency may conduct tests of cored cylinders complying with ASTM C 42, or tests as directed.
- P. Cost of additional testing shall be borne by the Contractor when unacceptable concrete has been verified.

**END OF SECTION 033000**

## **SECTION 042000 - UNIT MASONRY**

### **PART 1 - GENERAL**

#### **1.01 SUMMARY**

A. Section Includes:

1. Modular Brick Masonry Units
2. Concrete masonry units.
3. Concrete masonry lintels and bond beams.
4. Mortar and grout.
5. Reinforcement, anchorage, and accessories.
6. Installation of miscellaneous loose steel lintels, plates and other steel fabrications.
7. Cast Stone Pier Coping Cap

B. Related Documents:

1. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
  2. Delivery, Storage and Handling of masonry products and accessories : Division 1.
  3. Manufacturer's Warranty submittals: Division 1.
  4. Installation of reinforcing bars for reinforced unit masonry: Division 3.
  5. Installation of miscellaneous loose steel lintels, plates and other steel fabrications: Division 5.
  6. Joint sealers: Division 7.
  7. Wall vents and Louvers: Division 10.
  8. Mechanical Equipment Heat Load and Venting of Chimney Construction: Division 15.
3. Enumeration of Contracts for Seismic Plates:
1. 10 Ga. Seismic Plates (as shown on the structural drawings ) shall be supplied and installed by the General Construction Work Contractor.
  2. Structural Steel Seismic Plates (as shown on the structural drawings) shall be supplied by the Structural Steel Work Contractor and placed and installed by the General Construction Work Contractor.

#### **1.02 SUBMITTALS**

- A. Product Data: Submit published data from manufacturers of products and accessories specified, indicating compliance with requirements.
- B. Mill Certificates: Submit certification from producer of reinforcing steel for steel analysis and results of bending and tensile tests. unit.

### **1.03 QUALITY ASSURANCE**

- A. Fire Ratings: Where fire-rated masonry construction is indicated or required, provide materials and construction methods identical to those of assemblies tested in accordance with ASTM E 119 for hourly ratings required. Provide evidence acceptable to governing authority that proposed construction complies with fire performance requirements.
- B. Source Control: Obtain each type of exposed masonry unit from a single manufacturer, with texture and color of each type uniform or of a uniform blend acceptable to the Architect.

### **1.04 DELIVERY, STORAGE AND HANDLING**

- 1. Deliver, handle and store masonry units by means which will prevent mechanical damage and deterioration due to moisture, temperature change and contamination by other materials.
  - 1. Provide Protection which will limit moisture absorption of concrete masonry units to the maximum percentage specified for Type I units at a relative humidity which is normal for the project site.
  - 2. Protect cementitious materials from precipitation and absorption of ground moisture.
  - 3. Store Masonry accessories to prevent corrosion, dirt accumulation and other deterioration.

## **PART 2 – PRODUCTS**

### **2.01 Modular Brick Masonry Units**

- A. Modular brick masonry units - Comply with referenced standards for types required, and as follows:

B. Basis of Design: Watson Brick

1. Atlantic Series – Latrobe KT Flashed
  - a. Distributed by Extech – Joe Turzilli
  - b. C:347-582-1060 – E: jturzilli@extechbuilding.com
2. Size: Standard units with nominal face dimensions of 8 inches long and 4 inches wide x 2 1/4" high (3-5/8 x 2 5/16 by 7-5/8 actual), with nominal thicknesses to match existing masonry units.
3. Special shapes: Provide brick types where required for corners, control joints, headers and other special conditions, whether or not specifically indicated on the drawings as special.

## 2.02 CONCRETE MASONRY UNITS

- A. Concrete Block: Comply with referenced standards for types required, and as follows:
1. Size: Standard units with nominal face dimensions of 16 inches long and 8 inches high (15-5/8 by 7-5/8 actual), with nominal thicknesses as indicated on drawings for various locations.
  2. Special shapes: Provide special block types where required for corners, control joints, headers, lintels, and other special conditions, whether or not specifically indicated on the drawings as special.
    - a. Outside corners: Bullnose units.
  3. Hollow load-bearing units: ASTM C 90, and as follows:
    - a. Type I: Moisture-controlled units.
    - b. Lightweight; Oven-dry, density less than 90 lbs./c.f.
    - c. Exposed faces: Manufacturer's standard color and texture.
  4. Aggregates: Lightweight, 100% expanded shale, clay, or slate produced by the rotary kiln process meeting requirements of ASTM C-331. Blending of screening or any other deleterious substance which impairs the fire rating or insulation values is prohibited.
  5. Fire Rating: The producer of the concrete masonry units shall furnish certification from an Independent Testing Laboratory confirming that all 6" or larger units meet all of the UL design requirements for two (2) hours or better (as required), referencing full scale fire test reports (ASTM E-119).

### **2.03 CONCRETE MASONRY UNIT LINTELS AND BOND BEAMS**

- A. Concrete Masonry Unit Lintels and Bond Beams: Provide special units, fill cells solidly with grout or concrete.
- B. Provide not less than two No. 5 reinforcing bars, unless indicated otherwise. Reinforcing shall overlap a minimum of 40 bar diameters at splices.
- C. Terminate bond beams and reinforcing on each side of expansion joints and control joints.
- D. Concrete masonry units used for lintels and bond beams shall have exposed surfaces of the same material and texture as the adjoining masonry units.
- E. Lintels shall be straight and true and shall have at least 8 inches of bearing at each end. Allow lintels to set at least 6 days before shoring is moved.

### **2.04 MORTAR AND GROUT MATERIALS**

- A. Portland Cement: ASTM C 150, Type I.
  - 1. Type III may be substituted during cold-weather construction.
  - 2. Provide portland cement of color required to produce approved mortar sample.
- B. Hydrated Lime: ASTM C 207, Type S.
- C. Aggregate for Mortar: ASTM C 144.
  - 1. White mortar aggregates: Sand or ground stone.
  - 2. Colored mortar aggregates: Ground stone, in colors required to match Architect's sample.
- D. Grout Aggregate: ASTM C 404.
- E. Pigments for Colored Mortar: Iron oxides and chromium oxides with demonstrated record of satisfactory performance in mortar mixes.
- F. Water: Potable.

### **2.05 REINFORCEMENT AND ANCHORAGE**

- A. Reinforcing Bars: As specified in Division 3 and indicated on architectural and/ or structural drawings.

- B. Joint Reinforcement and Anchorage Materials: Comply with the following general requirements for materials required in joint reinforcement and anchorage devices:
1. Steel wire: ASTM A 82.
    - a. Hot-dip galvanizing (after fabrication): ASTM A641.
      1. Use: Interior locations.
    - b. Hot-dip galvanizing (after fabrication): ASTM A 153, Class B-2.
      1. Use: Exterior locations or in contact with earth.
      2. Hot-dip galvanized steel sheet: ASTM A 525, Class G-60.
        - a. Use: Anchors and miscellaneous sheet metal in masonry accessories at exterior exposures.
      3. Manufacturers: Products of the following manufacturer is noted as the "**Basis of Design**", other manufacturers will be considered, provided they comply with requirements of the contract documents, and are submitted as per the requirements of specification section 01600:
        - a. Dur-O-Wal, Inc.
- C. Joint Reinforcement: Welded-wire units prefabricated into straight lengths of not less than 10 feet, with deformed continuous side rods and plain cross rods.
1. Width: Approximately two inches less than nominal wall width, providing not less than 5/8 inch mortar coverage on exterior exposures and 1/2 inch elsewhere.
  2. Wire sizes:
    - a. Side rod diameter: 9 gauge.
    - b. Cross rod diameter: 9 gauge.
  3. Configuration:
    - a. Applications of single unit width: Truss design, diagonal cross rods at not more than 16 inches on center.
      1. "Basis of Design": Dur-o-Wal, Inc. No.# D/A 310 Truss.
    - b. Applications of more than one unit width: Truss design, diagonal cross rods at not more than 16 inches on center:
      1. "Basis of Design": Dur-o-Wal, Inc. No.# D/A 310 DSR

## Double Sided Rod.

- c. Corners: Prefabricated L- and T-shaped units.
- D. Flexible Anchors: 2-piece anchors permitting vertical or horizontal differential movement between masonry and structural frame but preventing lateral movement of masonry out of plane.
  - 1. For steel framework, provide crimped anchor section 0.25 inch thick for welding and triangular wire tie 0.25 inch thick; size ties to fall no more than 1 inch short of masonry face.
  - 2. "Basis of Design": Dur-o-Wal, Inc. - Column Anchors No.# D/A 709 with Triangle Ties No.#700-704 (sized adequate to attach from steel column to masonry at all column locations).
    - a. Provide triangular ties sufficient to anchor from flanges and webs to concrete masonry units.

### **2.06 CONCEALED FLASHING MATERIALS**

- A. Sheet Metal Flashing: Furnish materials and fabricate as specified in Division 7.
- B. Flexible Sheet Flashing: Furnish materials as specified in Division 7.

### **2.07 MISCELLANEOUS MASONRY ACCESSORIES**

- A. Expansion Joint Strips: Neoprene filler strips complying with ASTM D 1056, Classification 2 A1, capable of 35 percent compression and sized for specific conditions indicated.
- B. Pre-molded Control Joints: Strips sized for standard sash block and designed to allow movement while maintaining lateral stability, and as follows:
  - 1. ASTM D 2000: Styrene-butadiene rubber compound; Designation 2AA-805.
- C. Bond Breaker Strips: ASTM D 226, Type I; No. 15 asphalt felt.
- D. Sealant and Backer Rod: As specified in Division 7.
- E. Mortar / Grout Screen: High strength non-corrosive polypropylene polymers, standard widths to match wall widths.

### **2.08 MORTAR AND GROUT MIXES**

- A. General: Do not use admixtures unless indicated as acceptable in the contract

documents.

1. Do not use calcium chloride in mortar or grout mixture.
- B. Mixing: Use mechanical batch mixer and comply with referenced ASTM standards.
- C. Mortar for Unit Masonry: ASTM C 270, Proportion Specification.
1. Limit cementitious materials to lime and portland cement.
  2. Masonry below grade and in contact with earth: Type M.
  3. Reinforced masonry: Type S.
  4. Applications as follows: Type N.
    - a. Locations for which another mortar type has not been specifically indicated.
- D. Mortar Colored with Aggregates: Produce required mortar color by use of colored aggregates in combination with selected cementitious materials.
1. Color as selected by the Architect after award of contract.
- E. Mortar Colored with Pigments: Proportion selected pigments with other ingredients to produce required color. Do not exceed ratio of pigment-to-cement recommended by pigment manufacturer.
1. Color as selected by the Architect after award of contract.
- F. Grout: ASTM C 476; provide consistency required at time of placement to fill completely all spaces indicated to be grouted.
1. Use fine grout in spaces less than 2 inches in least horizontal dimension.
  2. Use coarse grout in spaces 2 inches or more in least horizontal dimension.

## **2.09 CAST STONE PIER COPING / CAP - AS NEEDED**

- A. Cast Stone Wall Coping - Comply with referenced standards for types required, and as follows:
1. Size: Standard units with nominal face dimensions of 25" min. long and 25" inches wide x 3-5/8" high with verify thicknesses as indicated on drawings for various locations.
    - a. Basis of Design: Continental Cast Stone, Inc
    - b. Style: Single Slope Flat
    - c. Color to be chosen at time of bid award (custom color option)
    - d. Provide 4" - #4 steel dowel @ 4 per cap to masonry base

- e. Provide sealant at end intersection as per specification section 07900 joint sealers.
2. Special shapes: Provide cast stone types where required for corners, control joints, headers and other special conditions, whether or not specifically indicated on the drawings as special.

## **PART 3 - EXECUTION**

### **3.01 INSTALLATION PROCEDURES**

- A. Concrete Masonry Units: Do not wet concrete masonry units prior to laying.
- B. Reinforcement and Anchorage: Before placing metal masonry accessories, remove loose rust, dirt, and other coatings.
- C. Chases and Recesses: Build masonry to accommodate the work of other trades, including chases and recesses as shown or required. Provide not less than 8 inches of masonry between jambs of openings and chases and recesses.
- D. Openings for Equipment and Services: Leave openings in masonry as required for subsequent installation of equipment and services. Make openings in designated locations and in exact size required, if known; otherwise, leave rough openings in approximate size required and complete masonry work after installation of equipment, matching adjoining masonry.
- G. Cutting: Where cutting is required, use power saws to provide clean, sharp, unchipped edges.
  1. Do not use wet cutting techniques with concrete unit masonry.

### **3.02 CONSTRUCTION TOLERANCES**

- A. Variation from Plumb: Do not exceed the following construction tolerances in vertical elements, including surfaces of walls, columns, and arises:
  1. 1/4 inch in 10 feet.
    - a. **1/8 inch in 10 feet maximum, for surfaces to receive wall tile finishes.**
  2. 3/8 inch in one story height, or 20 feet, whichever is less, except 1/4 inch for external corners, expansion joints, and other highly conspicuous vertical elements.
  3. 1/2 inch in 40 feet or more.

4. Plus or minus 1/4 inch in 10 feet, 1/2 inch maximum, for vertical alignment of head joints.
- B. Variation from Plan Lines: Do not exceed the following horizontal construction tolerances for related portions of columns, walls, and partitions:
1. 1/2 inch in any bay or in 20 feet maximum.
  2. 3/4 inch in 40 feet or more.
- C. Variation in Cross Section: Do not exceed the following construction tolerances for thickness of walls and other masonry elements:
1. Minus 1/4 inch.
  2. Plus 1/4 inch.
- E. Variation in Mortar Joint Thickness: Do not exceed the following construction tolerances for thickness of mortar joints:
1. Bed joints: Plus or minus 1/8 inch.
  2. Head joints: Plus or minus 1/8 inch.

### **3.03 MASONRY CONSTRUCTION - GENERAL**

- A. Layout: Lay out masonry for accurate pattern bond, for uniform joint widths, and for accurate location of specific features before beginning actual construction. Avoid use of masonry units of less than 1/2 size. Do not use units with less than nominal 4 inch horizontal face dimensions at corners and jambs.
- B. Pattern Bond: Lay exposed masonry in running bond except where other bonds are indicated at special features.
1. Lay concealed masonry in running bond, or lap units at least 2 inches
  2. All fire rated C.M.U. walls to have staggered vertical joints.
- C. Stopping Work: Lay masonry in proper sequence to avoid toothing. Rack walls back in each course at end of each work day. Before resuming, clean exposed surfaces and remove loose masonry units and mortar.
1. Lightly wet previously laid clay masonry units which have rate of absorption of more than 1 gram per square inch per minute (ASTM C 67), before laying fresh masonry.
- D. Built-in Work: As work progresses, build in items indicated for installation in masonry, filling around built-in items solidly with masonry.

1. Fill joints between masonry and metal frames solidly with mortar, unless specific conditions are otherwise detailed.
  2. At locations where built-in items are to be connected to hollow unit masonry, solidly grout cores to provide adequate anchorage.
  3. Unless other conditions are specifically detailed, solidly grout cores for at least 24 inches below bearing plates, lintels, and similar features and conditions.
- E. Expansion and Control Joints: Build in movement joints where indicated, installing accessory items as masonry is constructed.
1. Install prefabricated elastic joints in accordance with Division 7 specifications.
  2. Install non-elastic joint fillers as indicated.
- F. Nonbearing Partitions: Extend full height to floor roof deck above, unless otherwise detailed.
1. Fill joint at top of nonbearing partitions with compressible filler/sealant as indicated on drawings.
- G. Lintels and shelf angles: Install lintels of types indicated at all openings.
1. Bearing: Provide not less than 8 inches of bearing at each jamb.
  2. Reinforcement: At masonry openings greater than one foot in width, install horizontal joint reinforcement in 2 courses immediately above lintel and 2 courses immediately below sill. Except at control joints, install opening reinforcement to extend not less than 24 inches beyond jamb on each side.
  3. Extend flashing a minimum of 4 inches into masonry at each end at exterior openings.

### **3.04 LAYING MASONRY UNITS**

- A. Hollow Masonry Units: Install so that face shells are solidly mortared, horizontally and vertically. Bed webs solidly in mortar at starting course.
1. Bed webs solidly in mortar at cores to be grouted.
- B. Joints: Make mortar joints visually and dimensionally consistent.

1. Except as otherwise indicated, maintain mortar joint widths of 3/8 inch.
- C. Concealed Joints: Cut flush, unless otherwise detailed.
- D. Exposed Joints: Using concave jointer slightly larger than joint width, tool exposed joints before mortar has assumed final set.
- E. Resetting: Do not pound, tap, or otherwise attempt to adjust masonry units after initial set has occurred. Remove units which require adjusting, clean thoroughly, and reset in fresh mortar.

### **3.05 JOINT REINFORCEMENT, SINGLE-WYTHE WALLS**

- A. General: Provide continuous horizontal joint reinforcement for all single-wythe masonry walls, unless otherwise indicated. Lap reinforcing a minimum of 6 inches.
- B. Vertical Spacing: Not more than 16 inches on center.
- C. Continuity: Use prefabricated L-shaped and T-shaped sections at corners and intersections. Do not span movement joints with reinforcement.

### **3.06 ANCHORING MASONRY**

- A. Structural Framing Anchorage: Anchor masonry to structural framework at points of adjacency, and as follows:
  1. Maintain open space of 1 inch or more between face of framing member and masonry elements.
  2. Fasten anchors to structure and embed in mortar joints as masonry is laid.
  3. Space anchors as indicated on the drawings.
- B. **Firewalls:** All C.M.U. firewalls as indicated on drawings shall not be anchored to structural framework.

### **3.07 INSULATION**

- A. Install board-type insulation for masonry cavity walls as specified in Division 7.

### **3.08 INSTALLING REINFORCED UNIT MASONRY**

- A. Preparation: Clean reinforcement bars of loose rust; do not use bars which have

rusted excessively or which have bends or kinks not shown on drawings.

- B. **Placing Reinforcement:** Secure reinforcement accurately at locations indicated and to avoid displacement; minimum spacing between bars or to masonry surfaces shall be bar diameter or 1/4 inch for fine grout and 1/2 inch for coarse grout, whichever is greater.
- C. **Splicing:** Provide lapped splices of minimum size indicated or permitted by governing code at locations shown; other methods or locations must be approved by the architect.
- D. **Formwork:** Construct formwork where required for temporary support of reinforced masonry, bracing as required to maintain proper shape during placement and curing of grout and adequately tight to avoid grout leakage.
- E. **Mortar Joints:** Where reinforcement other than prefabricated joint reinforcement is required in mortar joints, adjust joint thickness to provide not less than 1/4 inch of mortar between reinforcement and masonry surfaces.
- F. **Reinforced Hollow Unit Masonry:** Maintain vertical continuity of core or cell cavities to be grouted. Keep cavities clear of mortar, including bed area of first course, to provide minimum clear dimension indicated, to provide minimum clearance and grout coverage for vertical reinforcement bars, and to provide direct grout contact with supporting surfaces.
  - 1. At bond beams or other horizontally reinforced masonry, provide special masonry units or saw units to accommodate reinforcement.
  - 2. Contractor option: Fill all cores with grout in lieu of closing core spaces below bond beams and providing mortar bedding of masonry cross webs.

### **3.10 GROUTING**

- A. **Grouting Technique:** Perform all grouting by means of low-lift technique; do not use high-lift grouting.
- B. **Low-Lift Grouting of Hollow Unit Masonry:**
  - 1. Maintain minimum dimension of 2 inches and minimum area of 6 square inches in cells to be grouted. Extend vertical reinforcement above pour height as required for splicing.
  - 2. Lay masonry units to maximum pour height, not to exceed 5 feet.
  - 3. Place grout continuously, and consolidate immediately; do not interrupt pour

for more than one hour. Terminate each pour 1 to 1-1/2 inches below top course,  
except at tops of walls.

4. Stop vertical pours 1-1/2 inches below bond beam locations; place reinforcement and pour bond beams to interlock with vertical cores.

### **3.10 INSTALLING CONCEALED MASONRY FLASHING**

- A. General: Whether or not specifically indicated, install flashing at all conditions such as lintels and shelf angles, where the downward flow of any water within the masonry will be interrupted, so that such water will be diverted to the exterior. Extend flashings full width at such obstructions and at least 4 inches into adjoining masonry, or turn up to form watertight pan at non-masonry construction. Remove or cover protrusions or sharp edges on substrates which could puncture flashings. Place flashings on sloped mortar bed; seal lapped ends and penetrations of flashing before covering with mortar.
  1. Extend metal flashings to within 1/4 inch of exterior face of masonry.
  2. Extend fabric or laminated flashings to within 1/4 inch of exterior face of masonry.
- B. Through-Wall Flashings: Bring completely through inner wythe and turn up where concealed by other construction; otherwise stop not more than 1/2 inch from inner face. Drop flashing at least 4 inches before bringing through outer wythe.
- C. Sealing: Seal all joints in flashing to assure watertight integrity.
  1. Seal deformed metal flashing at ends by lapping at least 2 inches and interlocking deformations; install sealant at lapped edge.
  2. Lap end joints on nondeformed metal flashings at least 4 inches; seal laps with elastic sealant or mastic.
  3. Lap end joints of flexible flashings at least 4 inches; seal in accordance with manufacturer's instructions.
- D. Reglets and Other Accessories: Install to receive flashing where indicated.

### **3.11 REPAIRING MASONRY**

- A. Replacement: Carefully remove areas of damaged masonry and replace with matching, undamaged units using mortar which matches original work.
- B. Pointing: As joints are being tooled, remove mortar with visible holes or mortar

which cannot be compacted properly because of hidden voids, and replace with fresh mortar, filling each joint completely and tooling to match adjacent work.

### **3.12 CLEANING AND PROTECTION**

- A. Clean masonry after mortar is thoroughly set and cured.
  - 1. Scrape off adhered mortar particles by hand, using non-metallic tools.
  - 2. Test cleaning methods on half of sample panel, leaving other half in original state.
  - 3. Protect adjacent surfaces from cleaner with appropriate coating or polyethylene sheet.
  - 4. Before applying cleaning solution, saturate masonry surfaces with water; rinse thoroughly immediately after cleaning.  
with manufacturer's instructions.
  - 5. Comply with directions of concrete unit masonry manufacturer and NCMA Tek Bulletin No. 45 for cleaning CMU.
  
- B. Protection: Institute protective measures as required to ensure that unit masonry work will be clean and undamaged at substantial completion.

**END OF SECTION 042000**

## **SECTION 055000 – WROUGHT IRON FENCING**

### **PART 1 - GENERAL**

#### **1.01 SUMMARY**

- A. Section Includes:
  - 1. Wrought Iron Fencing.
  - 2. Miscellaneous metal fabrications. Metal fabrications include items made from iron and steel shapes, plates, bars, strips, pipes and castings which are not specified elsewhere.
  - 3. Rough Hardware.
- B. Extent of structural fabrications is indicated on drawings.
- C. Related Sections:
  - 1. Modular Unit Masonry: Division 4

#### **1.02 SUBMITTALS**

- A. Shop Drawings: For each fabricated item, show the following:
  - 1. Plans and elevations.
  - 2. Jointing and connections.
    - a. Indicate welded connections using standard AWS symbols; indicate net weld length.
  - 3. Profiles of sections and reinforcing.
  - 4. Fasteners and anchors.
  - 5. Accessories.
  - 6. Location of each finish.
- B. Product Data: Manufacturer's specifications and installation instructions. Submit for:
  - 1. All manufactured products used in fabrications.
  - 2. Paints.
  - 3. Grouts.
- C. Samples of products and materials when requested.

#### **1.03 JOB CONDITIONS**

- A. Fit fabrications accurately to actual construction. Record field measurements on shop drawings.
- B. Coordination with Masonry and Concrete Work: Where fabricated items or their anchors are to be embedded into concrete and masonry work, deliver such items to those performing the installation, together with coordination drawings and installation instructions.

## **PART 2 - PRODUCTS**

### **2.01 MATERIALS – WROUGHT IRON FENCING**

#### **A. Manufacturer**

##### **1. Wrought Iron Fence Shop**

- a. Style: Classic with Pickets – Signature Grade Product Line
- b. Panel Size: 8'-0" wide x 6'-0" high
  - 1. See Manufacturer's spec attached
  - 2. Provide all components for fence to fence, fence to masonry piers, fence to post and fence to gate & driveway locations.

Manufacturer's Representative

Jason Kauffman; Ext. 803  
(800)261-2729 Call Me  
(330)673-2729 Text Me  
Iron Fence Shop@ <sales@ironfenceshop.com>

### **2.02 MATERIALS - MISCELLANEOUS**

- A. Grout: Nonmetallic, non-corrodible, non-shrink, factory blended and packaged; complying with ASTM C 1107; recommended by manufacturer for exterior use.
- B. Concrete Inserts: Style as required for application.
- C. Fasteners: Use fasteners suitable for the material being fastened and for the type of connection required.
- D. Shop Primer: Rust-inhibitive, lead and chrome free, low VOC primer, complying with FS TT-P-664, or equivalent.

### **2.03 FABRICATION - GENERAL**

- A. Workmanship: Use materials of size and thickness indicated or, if not indicated, as required to produce strength and durability in finished product for use intended. Work to dimensions indicated or accepted on shop drawings, using proven details of fabrication on support. Use type of materials indicated or specified for various components of work.
- B. Form exposed work true to line and level with accurate angles and surfaces and straight sharp edges. Ease exposed edges to a radius of approximately 1/32" unless otherwise indicated. Form bent- metal corners to smallest radius possible without causing grain separation or otherwise impairing work.
- C. Weld corners and seams continuously, complying with AWS recommendations. At exposed connections, grind exposed welds smooth and flush to match and blend with adjoining surfaces.
- D. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners wherever possible. Use exposed fasteners of type indicated or, if not indicated, Phillips flat-head (countersunk) screws or bolts.
- E. Provide for anchorage of type indicated, coordinated with supporting structure. Fabricate and

space anchoring devices to provide adequate support for intended use.

- F. Cut, reinforce, drill and tap miscellaneous metal work as indicated to receive finish hardware and similar items.
- G. Fabricate joints which will be exposed to weather in a manner to exclude water or provide weep holes where water may accumulate.
- H. Fabricate and shop-assemble in largest practical sections for delivery to site.
- I. Fasteners: Use concealed fasteners if possible.
  - 1. Exposed fasteners: Flathead, countersunk type unless otherwise indicated.
- J. Anchors: Fabricate to suit conditions indicated; use anchors of same material and finish as item except where specifically indicated otherwise.
- K. Joints Exposed to Weather: Fabricate to keep water out, or provide adequate drainage of water that penetrates.
- L. **ROUGH HARDWARE**
  - 1. Furnish bent or otherwise custom fabricated bolts, plates anchors hangers, dowels and other miscellaneous steel and iron shapes as required for framing and supporting woodwork, and for anchoring and securing woodwork to concrete or other structures. Provide straight bolts and other stock rough hardware items.
  - 2. Fabricate items to sizes, shapes and dimensions required. Furnish malleable-iron washers for heads and nuts which bear on wood structural connections; elsewhere, furnish steel washers.
- M. **MISCELLANEOUS FRAMING AND SUPPORTS:**
  - 1. Provide miscellaneous wrought iron / steel framing and supports which are not a part of the structural steel framework, as required to complete work. Fabricate miscellaneous units to sizes, shapes and profiles indicated or , if not indicated, of required dimensions to receive adjacent other work to be retained by framing. Except as otherwise indicated, fabricate from structural steel shapes and plates and steel bars, of welded construction using mitered joints for field connection. Cut, drill and tap units to receive hardware and similar items. Equip units with integrally welded anchors for casting into concrete or building into masonry. Furnish inserts if units must be installed after concrete is placed.

#### **2.04 FABRICATION - SHOP COATINGS**

- A. Hot-dip galvanize steel and iron assemblies set in concrete and masonry.
- B. Shop prime all iron and steel fabrications.
- C. Prepare surfaces to be coated as follows:
  - 1. Solvent-clean in accordance with SSPC-SP 1
  - 2. Exterior fabrications: Clean in accordance with SSPC-SP 3, SSPC-SP 6, SSPC-SP 8, or SSPC-SP 10.
  - 3. Interior fabrications: Clean in accordance with SSPC-SP 3, SSPC-SP 5, SSPC-SP 6, SSPC-SP8, or SSPC-SP 10.
- D. Shop Priming: Comply with SSPC-PA 1.

1. Apply primer immediately following surface preparation.
  2. Do not prime surfaces to be welded.
  3. Do not prime surfaces in direct contact bond with concrete.
  4. Apply extra coat to corners, welds, edges, and fasteners.
- E. Shop Painting: Comply with SSPC-PA 1.

### **PART 3 - EXECUTION**

#### **3.01 INSTALLATION - GENERAL**

- A. Fastening to In-place Construction: Provide anchorage devices and fasteners where necessary for securing miscellaneous metal fabrications to in-place construction; including, threaded fasteners for concrete and masonry inserts, toggle bolts, through-bolts, lag bolts, wood screws and other connectors as required.
- B. Cutting, Fitting and Placement: Perform cutting, drilling and fitting required for installation of miscellaneous metal fabrications. Set work accurately in location, alignment and elevation, plumb, level, true and free of rack, measured from established lines and levels. Provide temporary bracing or anchors in formwork for items which are to be built into concrete masonry or similar construction.
- C. Anchor metal fabrications to substrates indicated; provide all fasteners required.
- D. Perform all field fabrication required for installation.
1. Fit joints tightly.
- E. Do not cut or weld items galvanized after fabrication that are indicated for bolted or screwed connections.
- F. Install items in correct location, plumb and level, without rack or warp.
- G. Provide temporary supports and bracing as required.

#### **3.02 CLEANING AND TOUCH-UP**

- A. Touch up damage to galvanized surfaces using galvanizing repair paint in accordance with ASTM A 780.
- B. Touch up paint immediately after erection.
1. Clean field welds, bolted joints, and areas where primer is damaged.
  2. Paint with material used for shop painting, minimum 2 mils dry film thickness.

**END OF SECTION 055000**



## **- STRONGHOLD IRON FENCE PARTS AND MATERIALS SPECIFICATIONS -**

### **PART 1.01: MATERIALS**

- **STEEL:** All steel material for the fence and gate system shall conform to the requirements of ASTM A-787 and ASTM A653 with minimum yield strength of 50,000 psi. All components are galvanized inside and out for superior rust protection.
- **CAST IRON:** All iron components are made of ductile iron for superior strength (versus standard grey iron) and are galvanized prior to powder coating for extra rust protection. All iron pieces will be sand-cast.

### **PART 1.02: FENCE PANELS**

#### **1.02A – SIGNATURE GRADE FENCE PANELS**

- **HORIZONTAL RAILS** - Rail members will be constructed of 1 1/2" x 1/2" x 1/8" (11 gauge) cold rolled bar channel. Number of rails per-piece will vary by panel style. Rails will be punched for picket pass-through and welding from underneath.
- **PICKETS:** Material for the pickets will be 3/4" x 3/4" x 16 gauge square tubing.
- **PICKET SPACING:** Standard pickets will have a 3.875" air gap in-between. Double or puppy pickets will have a 1.56" to 1.69" air gap.
- **FINIALS:** Finial tips will be 6" tall x 2" wide and are sand-cast from ductile iron with a safety ball top as part of the casting. All cast iron finial tips will be welded to the picket.

#### **1.02B - TRADITIONAL GRADE FENCE PANELS**

- **HORIZONTAL RAILS** - Rail members will be constructed of 1" x 1/2" x 1/8" (11 gauge) cold rolled bar channel. Number of rails per-piece will vary by panel style. Rails will be punched for picket pass-through and welding from underneath.
- **PICKETS:** Material for the pickets will be 1/2" x 1/2" x 18 gauge square tubing.
- **PICKET SPACING:** Standard pickets will have a 3.875" air gap in-between. Double or puppy pickets will have a 1.56" to 1.69" air gap.
- **FINIALS:** Finial tips will be 4" tall x 1" wide and are sand-cast from ductile iron with a safety ball top as part of the casting. All cast iron finial tips will be welded to the picket.



## **PART 1.03: WALK GATES**

### **1.03A – SIGNATURE GRADE WALK GATES**

- **FRAME:** All walk gates will match fence panel styles and be framed with 2" x 2" x 14 gauge square tubing mitered and welded.
- **HORIZONTAL RAILS** - Rail members will be constructed of 1 1/2" x 1/2" x 1/8" (11 gauge) cold rolled bar channel. Rails will be punched for picket pass-through and welding.
- **PICKETS:** Material for the pickets will be 3/4" x 3/4" x 16 gauge square tubing.
- **PICKET SPACING:** Standard pickets will have a 3.875" air gap in-between. Double or puppy pickets will have a 1.56" to 1.69" air gap.
- **FINIALS:** Finial tips will be 6" tall x 2" wide and are sand-cast from ductile iron with a safety ball top as part of the casting. All cast iron finial tips will be welded to the picket.

### **1.03B – TRADITIONAL GRADE WALK GATES**

- **FRAME:** All walk gates will match fence panel styles and be framed with 1.5" x 1.5" x 14 gauge square tubing mitered and welded.
- **HORIZONTAL RAILS** - Rail members will be constructed of 1" x 1/2" x 1/8" (11 gauge) cold rolled bar channel. Rails will be punched for picket pass-through and welding.
- **PICKETS:** Material for the pickets will be 1/2" x 1/2" x 18 gauge square tubing.
- **PICKET SPACING:** Standard pickets will have a 3.875" air gap in-between. Double or puppy pickets will have a 1.56" to 1.69" air gap.
- **FINIALS:** Finial tips will be 4" tall x 1" wide and are sand-cast from ductile iron with a safety ball top as part of the casting. All cast iron finial tips will be welded to the picket.



#### **PART 1.04A: SIGNATURE GRADE ESTATE DRIVEWAY GATES**

- **FRAME:** All estate gates will match fence panel styles and be framed with 2" x 2" x 11 gauge square tubing mitered and welded.
- **HORIZONTAL RAILS** - Rail members will be constructed of 1 1/2" x 1/2" x 1/8" (11 gauge) cold rolled bar channel. Rails will be punched for picket pass-through and welding. Center horizontal rail provided for extra strength and easy automatic closer installation.
- **PICKETS:** Material for the pickets will be 3/4" x 3/4" x 16 gauge square tubing.
- **PICKET SPACING:** Standard pickets will have a 3.875" air gap in-between. Double or puppy pickets will have a 1.56" to 1.69" air gap.
- **FINIALS:** Finial tips will be 6" tall x 2" wide and are sand-cast from ductile iron with a safety ball top as part of the casting. All cast iron finial tips will be welded to the picket.

#### **PART 1.04B: TRADITIONAL GRADE ESTATE DRIVEWAY GATES**

- **FRAME:** All estate gates will match fence panel style and be framed with 2" x 2" x 11 gauge square tubing mitered and welded.
- **HORIZONTAL RAILS** - Rail members will be constructed of 1" x 1/2" x 1/8" (11 gauge) cold rolled bar channel. Rails will be punched for picket pass-through and welding. Center horizontal rail provided for extra strength and easy automatic closer installation.
- **PICKETS:** Material for the pickets will be 1/2" x 1/2" x 18 gauge square tubing.
- **PICKET SPACING:** Standard pickets will have a 3.875" air gap in-between. Double or puppy pickets will have a 1.56" to 1.69" air gap.
- **FINIALS:** Finial tips will be 4" tall x 1" wide and are sand-cast from ductile iron with a safety ball top as part of the casting. All cast iron finial tips will be welded to the picket.



## **PART 1.05: POSTS AND STANDARD HARDWARE**

- **STANDARD STEEL POSTS:** All posts used for hanging fence panels and walks gates will be 14 gauge and offered in a 2", 2.5", 3" and 4" square tube size. Lengths include 5', 6', 7', 8', and 9' with availability varying by post diameter.
- **STEEL FLANGE POSTS:** Posts with a welded foot for mounting to surfaces will be 14 gauge and offered in a 2.5" square tube size. Lengths offered are 3', 4', 5 and 6'. Welded flange foot will be 5" square with a 1/2" hole in each corner for hardware.
- **ESTATE GATE POSTS:** All heavy-duty estate gate posts will be 3/16" thick (7 gauge) and offered in a 4" and 6" square tube size. Available in 8' and 9' lengths.
- **POST CAPS:** All post caps are comprised of sand-cast ductile iron. Offered in standard and ball style to match all available post sizes.
- **SIGNATURE GRADE FENCE PANEL BRACKET:** Brackets are comprised of sand cast ductile iron. The bracket has a 1.5" wide x 1/2" tall x 1" deep inner diameter (ID) and a 1.875" wide x 1" tall x 1" deep outer diameter (OD). A 3/4" tab with opening for a #14 hex head screw hangs below the bottom.
- **TRADITIONAL GRADE FENCE PANEL BRACKET:** Brackets are comprised of sand-cast ductile iron. The bracket has a 1" wide x 1/2" tall x 1.25" deep inner diameter (ID) and a 1.375" wide x 1" tall x 1" deep outer diameter (OD). A 3/4" tab with opening for a #14 hex head screw hangs below the bottom.
- **J-BOLT HINGES:** Used for walk gates and drive gates. Offered in a 5" size (5/8" shank) for walk gates and 7" size (3/4" shank) for drive gates. Both sizes feature adjustable gate settings and installed grease zerks.
- **HINGE BOLT KIT:** Comprised of stainless steels bolts, nuts and washers in various sizes to work with all hinge and post sizes.
- **SELF-TAPPING SCREWS:** Used to secure panels to the post via bracket. Hex-head configuration and is sized 1" x #14. All screws are steel have an anodized black finish for rust inhibition.



## **STRONGHOLD IRON FENCE FABRICATION**

### **PART 2.01 – ASSEMBLY**

- **RAILS:** All horizontal rails will be cold rolled and punched at approximately 4 ½” on center to provide an air gap of 3.875”.
- **PICKET TO RAIL WELDING:** All items will be firmly positioned square in a jig fixture and MIG welded with the use of an inert shielding gas to reduce splatter and insure good penetration. Each picket will be welded on at least two sides at the juncture of every rail. All weld spots are then coated in a zinc rich primer for extra rust protection.
- **PICKET SPACING:** Standard pickets will have a 3.875” air gap in-between. Double or puppy pickets will have a 1.56” to 1.69” air gap.
- **FINIAL TO PICKET WELDING:** Finials will be placed on top of pickets and then MIG welded on all four sides with the use of an inert shielding gas to reduce splatter and insure good penetration. All welds are then cleaned for appearance and coated in a zinc rich primer for extra rust protection.
- **WALK AND DRIVE GATES:** All Gate frames are miter cut in the corners and MIG welded with the use of an inert shielding gas to reduce splatter and insure good penetration. Using gate jigs, the picket and rail components are then MIG welded to the frame. All welds are then cleaned for appearance and coated in a zinc rich primer for extra rust protection.

## **STRONGHOLD IRON FENCE FINISHING**

### **PART 3.01 – FINISHING**

- **CLEANING:** All finished pieces are inspected for weld spatter and wire brushed accordingly. The inspected pieces then go through a 4-stage pretreatment and wash cycle to remove any impurities from handling and the manufacturing process.
- **POWDER COATING** – A satin black polyester-based TGIC powder coating is electrostatically applied to a minimum 2.5 mils to all finished pieces. The powder contains a UV fade inhibitor to help resist fading of the finish.



## **WROUGHT IRON FENCE LONGEVITY CASE STUDIES**

### **PART 4.01 – LONGEVITY**

**SOURCE:** AMERICAN GALVANIZERS ASSOCIATION ([www.galvanizeit.org](http://www.galvanizeit.org))

#### **How long will hot-dip galvanizing protect my steel from corrosion?**

The corrosion rate of zinc and how long it will provide protection is a function of the coating thickness and the amount of corrosive elements in the atmosphere. For example, in rural settings where there is less automotive/truck exhaust and plant emissions, galvanized steel can easily last for 100 – 150 years without maintenance. Industrial and marine locations contain significantly more aggressive corrosion elements such as chlorides and sulfides and galvanized steel may last for 50 – 100 years in those cases. The relationship between coating thickness and atmospheric conditions is contained in a popular graph developed by the AGA.

#### **Where are galvanized steel products used?**

First of all, the variety of things galvanized is broad. Structural steel (angles, channels, wide-flange beams, I-beams, H-beams), grating, expanded metal, corrugated sheets, wire, cables, plate, castings, tubing, pipe, bolts & nuts. The industries that utilized hot-dip galvanized steel range from bridge & highway (reinforcing steel for decks and column concrete, girders, stringers, light and signposts, guardrail, fencing), water & wastewater treatment plants (walkway grating/expanded metal, handrails) architectural (facades, exposed structural steel, lentils), parking garages (reinforcing steel for concrete decks, exposed structural steel columns and barriers), pulp & paper plants (structural steel, walkways, handrail), OEMs (motor housings, electrical cabinets, frames, heat exchanger coils), electrical utilities (transmission towers, distribution poles, substations, wind turbine poles), communication (cell towers), rail transportation (poles, switchgear, miscellaneous hardware), chemical/petro-chemical (pipeline hardware, manufacturing buildings, storage tanks, walkways), recreation (boat trailers, stadiums, arenas, racetracks), and many more.



DISTINCT FROM FORCE TO FINISH.

**CASE STUDY #1:**

**Baseball Hall of Fame, Main Entrance**

**DATE GALVANIZED**  
2008

**ENVIRONMENT**  
Industrial/Urban

**LOCATION**  
Cooperstown, NY

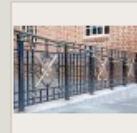
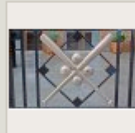
**SECTOR**  
Duplex Systems  
Building & Architecture  
Artistic

**REASON FOR GALVANIZING**  
Aesthetics  
Durability  
Corrosion Protection

**PROJECTED FIRST MAINTENANCE**  
72 years

**PROJECT DESCRIPTION**

Home of one of the most universally known sports museums in the world, the Cooperstown Baseball Hall of fame is an extremely popular vacation spot. The handrail located on the front entrance of the building is passed by thousands of people daily. The original rails had become corroded and worn. Paint alone was not enough to keep the Baseball Hall of Fame entrance welcoming. A face lift was needed, and a duplex system of hot-dip galvanizing (HDG) and powder coating was chosen for the job. It was essential the Baseball Hall of Fame entrance would have a lasting beautiful finish, the layer of HDG provides the sacrificial protection lacking in the original railing and the barrier system of power coating gives another layer against New York's corrosive elements. The duplexed protection of the Baseball Hall of Fame entrance will enable the railing to live a legacy parallel to America's favorite pastime.





DISTINCT FROM FORCE TO FINISH.

**CASE STUDY #2:**

**Ironwood Highway Guardrail System**

**DATE GALVANIZED**  
1999

**ENVIRONMENT**  
Rural

**LOCATION**  
Jefferson County, NY

**SECTOR**  
Bridge & Highway

**REASON FOR GALVANIZING**  
Corrosion Protection  
Safety

**PROJECTED FIRST MAINTENANCE**  
120 years

**PROJECT DESCRIPTION**

Jefferson County, N.Y. has developed an amazing new guardrail system. This new, reinforced system not only makes driving safer for commuters, but it also adds to the beauty of the surrounding environment. The Ironwood Highway Guardrail System is the only federally approved alternative to weathering steel guardrail systems, and provides the organic aesthetics of wood with the safety, strength and durability of hot-dip galvanized steel. The most important reason for deciding to use hot-dip galvanizing as the corrosion prevention system is that nine tons (8 tonnes) of hot-dip galvanized steel protect the guardrail from upstate New York's aggressive environment. Through the years, the guardrail will encounter various destructive elements that it will have to fend off: intense moisture coming off Lake Ontario, fertilizers, herbicides and road maintenance elements like salt and sand. Another advantage of hot-dip galvanizing is the significantly lower maintenance and repair costs when compared to previously used corrosion prevention systems.





DISTINCT FROM FORGE TO FINISH.

## ***STRONGHOLD IRON QUICK-REFERENCE SPECIFICATIONS***

ITEM	TRADITIONAL GRADE	SIGNATURE GRADE
<b>FENCE PANELS</b>		
<b>WIDTH</b>	8' (96")	8' (96")
<b>PICKETS</b>	1/2" 18ga	3/4" 16ga
<b>PICKET SPACING</b>	3.875" Air Gap on Standard Panels. 1.69" Air Gap on Puppy Picket Panels	3.875" Air Gap on Standard Panels. 1.69" Air Gap on Puppy Picket Panels
<b>RAILS</b>	1" x 1/2" Rolled and Punched Rail, 1/8" thickness	1.5" x 1/2" Rolled and Punched Rail, 1/8" Thickness
<b>FINIALS</b>	4" Tall x 1" Wide	6" Tall x 2" Wide
<b>WALK GATES</b>		
<b>GATE FRAME</b>	1.5" x 1.5" 14ga boxed and welded u-frame	2" x 2" 14ga boxed and welded u-frame
<b>PICKETS</b>	1/2" 18ga	3/4" 16ga
<b>RAILS</b>	1" x 1/2" Rolled and Punched Rail, 1/8" thick	1.5" x 1/2" Rolled and Punched Rail, 1/8" Thickness
<b>FINIALS</b>	4" Tall x 1" Wide	6" Tall x 2" Wide
<b>DRIVEWAY ESTATE GATES</b>		
<b>FRAME</b>	2" x 2" 11ga boxed and welded u-frame	2" x 2" 11ga boxed and welded u-frame
<b>PICKETS</b>	1/2" 18ga	3/4" 16ga
<b>RAILS</b>	1" x 1/2" Rolled and Punched Rail, 1/8" thick	1.5" x 1/2" Rolled and Punched Rail, 1/8" Thickness
<b>FINIALS</b>	4" Tall x 1" Wide	6" Tall x 2" Wide

### **FENCE AND GATE POSTS**

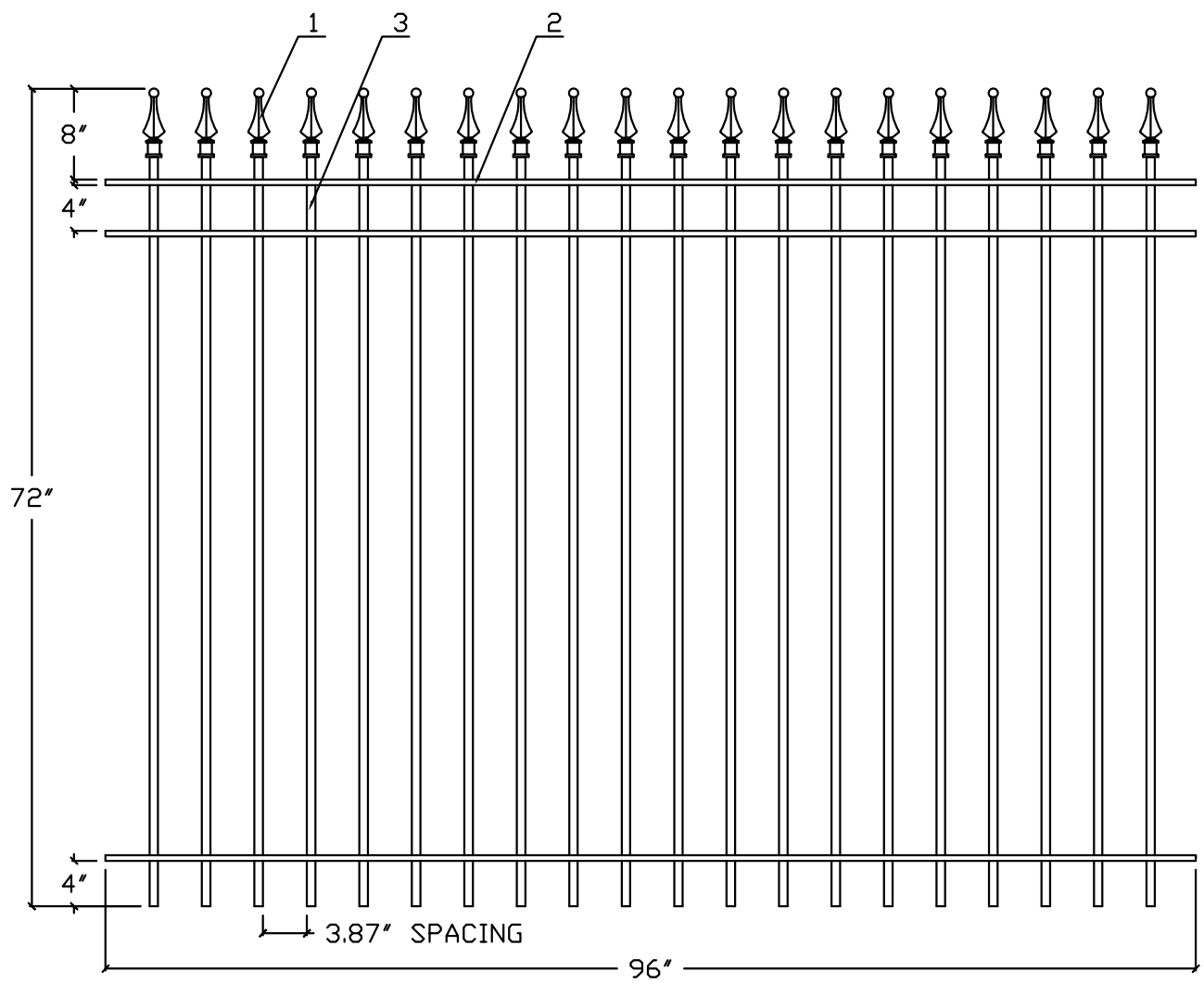
SIZE	STANDARD APPLICATION	THICKNESS
<b>2"</b>	Traditional Panel or Walk Gate Only	14ga
<b>2.5"</b>	Traditional or Signature Panel/ Walk Gate	14ga
<b>3"</b>	Traditional or Signature Panel/ Walk Gate	14ga
<b>4" LT</b>	Small Estate Gates or Special Applications	14ga
<b>4" HD</b>	Double Estate Driveway Gates	7ga
<b>6" HD</b>	Single and Double Estate Driveway Gates	7ga

- All Fence Panels and Gates Finished with a TGIC Powdercoat in Satin Black

6'H X 8'W STRONGHOLD IRON FENCE PANEL  
SIGNATURE GRADE - STYLE #1: CLASSIC



www.ironfenceshop.com  
(800) 261-2729



NO.	MATERIAL	QTY
1	CAST IRON FINIAL	20
2	┌ 1 1/2"X1/2"X1/8"	3
3	3/4"X3/4"X16ga	20

TP0608-3C



DISTINCT FROM FORGE TO FINISH.

## ORNAMENTAL IRON FENCE **25 YEAR LIMITED WARRANTY**

For a 25 Year period from the original date of purchase Iron Fence Shop LLC guarantees, with proper installation and normal and proper usage, against any defects in materials and workmanship on all framework.

The powder coat surface on all framework is also guaranteed for 25 Years for adhesion protection against cracking, peeling or blistering.

Should any Iron Fence Shop LLC ornamental iron fence fail in accordance with any of the above conditions, Iron Fence Shop LLC warrants to the original purchaser correction through replacement, renewal or a pro-rated credit. This decision is solely at the discretion of Iron Fence Shop LLC.

Notice of failure under the conditions of this warranty must be sent in writing to Iron Fence Shop LLC with proof of purchase. Iron Fence Shop LLC will not be responsible or guarantee performance of any fence improperly installed. This warranty is also invalid in the event of corrosive elements, abuse or misuse, vandalism or Acts of God. This warranty is Non-Transferable and must be completed in full and a copy returned within 30 Days of Installation.

MAIL TO:  
Iron Fence Shop LLC  
PO Box 1147  
Hudson, OH 44236

Dealer Name & Address: \_\_\_\_\_

Installation Name & Address: \_\_\_\_\_

Purchase Date: \_\_\_\_\_

Installer Signature: \_\_\_\_\_

TOLL FREE PHONE 800.261.2729 · LOCAL PHONE 330.673.2729

PO Box 1147  
HUDSON, OH 44236

WWW.IRONFENCESHOP.COM

## **PART 1 GENERAL**

### **1.1 RELATED DOCUMENTS:**

- A. Section 01 33 13 - Submittal Procedures.
- B. Section 01 78 00 - Closeout Submittals
- C. Section 01 79 00 – Demonstration and Training

### **1.2 RELATED WORK SPECIFIED ELSEWHERE:**

- A. Section 03 30 00 - Cast-in-Place Concrete: Structural portal foundations.

### **1.3 SYSTEM DESCRIPTION**

- A. Modular automated cantilevered vehicular access gate for closure of vehicular access routes and regulation of traffic flow. Unique construction completely eliminates the cross bracing commonly used on cantilever gates, which is both unsightly and compromises security, by providing a foothold to climbers. Always supply a separate pedestrian entrance when foot traffic is anticipated near an automated gate. Section includes the following components:
  - 1) Aluminum Cantilever sliding gate
  - 2) Electric gate operator
  - 3) Gate support posts (structural portals) and rolling hardware.
  - 4) Gate operator accessories including safety and reversing devices. Excluding access controls, see section 028000 – Electronic security

### **1.4 SUBMITTALS**

- A. Product Data
  - 1) Gates and hardware.
  - 2) Gate operator including operating instructions, motor name plate data, ratings, characteristics and mounting arrangement.
- B. Shop Drawings:
  - 1) Submit shop drawings in accordance with Section 01 33 13 - Submittal Procedures.
  - 2) Gate Operator: Show locations and details for installing operator components, switches, and controls. Indicate motor size, electrical characteristics, drive arrangement, mounting, and grounding provisions
  - 3) Wiring Diagrams: Power and control wiring [and access controls if applicable]. Differentiate between manufacturer-installed and field-installed wiring and between components provided by gate and gate operator manufacturer and those provided by others.
  - 4) Provide detailed diagrams of all gate components.
- C. Installation instructions:
  - 1) Submit two copies of manufacturer's written installation instructions.
- D. Test reports:
  - 1) [If requested] Submit affidavits from the manufacturer demonstrating that the gate mechanism has been tested to 200,000 cycles without breakdown.

- 
- 2) ISO 9001 Compliant manufacturer.

## 1.5 QUALITY ASSURANCE

- A. Manufacturer: A company specializing in the manufacturing of gates and electric gate operators of the type specified, with a minimum of ten years experience.
- B. Installer Qualifications: an experienced installer who has completed fences and gates similar in material, design, and extent to those indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
- C. Source Limitations for Gates operators and Gates: obtain each color, grade, finish, type, and variety of components for fences and gates from one source with resources to provide fences and gates of consistent quality in appearance and physical properties.
- D. Electrical Components, Devices, and Accessories: listed and labelled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- E. UL Standard: Provide gate operators, tested and listed by a nationally recognized testing laboratory to comply with UL 325 5<sup>th</sup> edition.
- F. Emergency Access Requirements: comply with requirements of local authorities having jurisdiction for automatic gate operators serving as a required means of access.
- G. Installer: A minimum of three years experience installing similar equipment and approved by manufacturer.

## 1.6 Warranty

- A. Provide a two-year warranty against all defects in material and workmanship.

## PART 2 PRODUCTS

### 2.1 CANTILEVERED ACCESS GATE

- A. Manufacturer:
  - 1) Wallace Perimeter Security  
Model: Delta Gate with Kinetic gate operator  
Contact Wallace Perimeter Security:  
T. 866.300.1110 F. 204.284.1868  
[wallaceperimetersecurity.com](http://wallaceperimetersecurity.com)

### 2.2 MATERIALS

- A. Electrical components: CSA/UL approved.
- B. Power Supply: 115 or 240V, 50/60 Hertz, single phase, field selectable

### 2.3 COMPONENTS

- A. Cantilevered Gate:
  - 1) Gate:
    - a. See construction drawing for size & assembly
    - b. Site tensioned backbone comprising an immensely strong 205mm x 285mm

- section, corrosion resistant, aircraft grade hollow aluminum extrusion of unique profile, incorporating high-tensile steel tensioning rods.
- c. Pre-galvanized 26mm pickets are inserted vertically through the main beam and secured to top and bottom.
  - d. Galvanized 0.3 inches [8mm] diameter internal tension rods.
  - e. Serrated –anti climb, aluminum top strip 2 3/8<sup>th</sup> " x 1 5/16<sup>th</sup>" [60 x 30mm]
  - f. 20ga 1.0" (25mm) Reverse twist hex netting (ASTM)
  - g. .13 (3mm) Aluminum flat bar secured to bottom of pickets below beam (ASTM)
- 2) Gate widths are (see drawing):
  - 3) Standard gate heights are (see drawing):
    - a. 2000mm [6']
  - 4) Guides:
    - a. Welded structural gate posts (portals) with guide wheels and running wheels.
    - b. Galvanized after fabrication to ASTM 123M
    - c. Structural support posts, connected at the top, form rigid frames to support the gate. Flanged for securing to foundation.
    - d. Sealed bearing, nylon polyamide 6 5/16" [160mm] maintenance free, enclosed roller sets.
    - e. Catch post (portal) with run-on plate for secure closure.
    - f. Gate support posts feature integral mount for gate operator, ensuring correct alignment for the life of the system
    - g. Included standard "reach through guards" per ASTM F2200.
  - 5) Fasteners: Concealed, stainless steel.

**B. Kinetic electronic gate drive:**

- 1) Electric microprocessor controller unit with many standard logic sequences, provisions for dedicated, labeled accessory inputs and outputs. Alert, Fault, Error logging for simplified troubleshooting and remote diagnostics.
- 2) Limit Switches: motor output shaft embedded encoder with 1/32<sup>nd</sup> " resolution to determine gate full open, full close, partial open, acceleration and deceleration points.
- 3) Variable Speed (field selectable speed +- .25fps) rack and pinion drive mechanism with nylon polyamide drive gear/rack hardware. Select 1 or 2 foot per second gate travel speed based on site's UL 325 5<sup>th</sup> edition classification.
- 4) Integrated un-interruptible power supply (U.P.S)
- 5) Field selectable, fail safe or fail secure operation upon AC power loss.
- 6) Field selectable 110V/240V single phase input power.
- 7) Super energy efficient design, optimized for solar applications
- 8) Adaptive inherent entrapment sensor with "ice breaker mode"
- 9) Built-in multi-level power surge and lightning strike protection using opti-isolation technology
- 10) Tested and Listed for all UL 325 usage classes 1-4. Speed greater than 1 foot per second approved only for use on UL325 class 3 and 4 sites.

## 2.4 ACCESSORIES & OPTIONS

### A. Vehicle obstruction devices

- 1) Inductive loop vehicle detectors: Micro-processor based, digital type, with sensitivity to detect a wide variety of vehicle sizes. Built in frequency counter and automatic frequency assignment to prevent any possibility of 'cross talk'.  
Inductive vehicle Loop: select either 'pre-formed' type or 'saw cut' field constructed type. Size, location and construction type should be shown on drawing.
- B. Safety Devices: (Note: The word "Safety" only applies to devices intended to reduce likelihood of a gate striking or injuring a pedestrian. See 'obstruction devices' for vehicular reversing options).
  - 1) Through- Beam photo cells
  - 2) Radio transmitting 5' gate contact edge and radio receiver
- C. Notification or instructive Devices:
  - 1) Audible beacon
  - 2) Strobe or flashing light indicating gate in motion or pending motion.
  - 3) Traffic indicator lights (8" Green arrow / Red "X" typical)
- D. Access control devices, see section 028000 – electronic security devices including access controls.

## 2.5 FINISHES

- A. Visible surface color: Aluminum beam and rails with galvanized steel components
- B. Optional: [Powder coated to 80 micron thickness - standard RAL colors- check with manufacturer before specifying color] .

## PART 3 EXECUTION

### 3.1 INSTALLATION

- A. Install cantilevered sliding access gate to manufacturer's written instructions.
- B. Install structural post (portals) in concrete foundations; completely level both horizontally and vertically.
- C. Test and adjust complete system for proper function and leave in perfect working order.
- D. Install vehicle detection loops and lead-in-wires per manufacturer's instructions.
- E. Supply and install other electrical wiring, conduit junction boxes, transformers, circuit breakers and auxiliary components required for complete installation. Conform to CSA/NEC and local requirements.

### 3.2 FIELD QUALITY CONTROL

- A. Test gate operators through ten full cycles and adjust for operation without binding or scraping.
- B. Owner or owner's representative, shall complete "punch list" with installing contractor prior to final acceptance of the installation and submit completed warranty documentation to manufacturer

### 3.3 CLEANING, MAINTENANCE AND DOCUMENTATION

- A. Perform cleaning and maintenance procedures in strict accordance with manufacturer's written instructions.
- B. Train owner's personnel on how to safely shut off electrical power, release and manually operate the gate. Additionally, demonstrate the general maintenance of the gate operator and accessories and provide copy of "Installation and Maintenance Manual" for the owner. Manual will identify parts of the

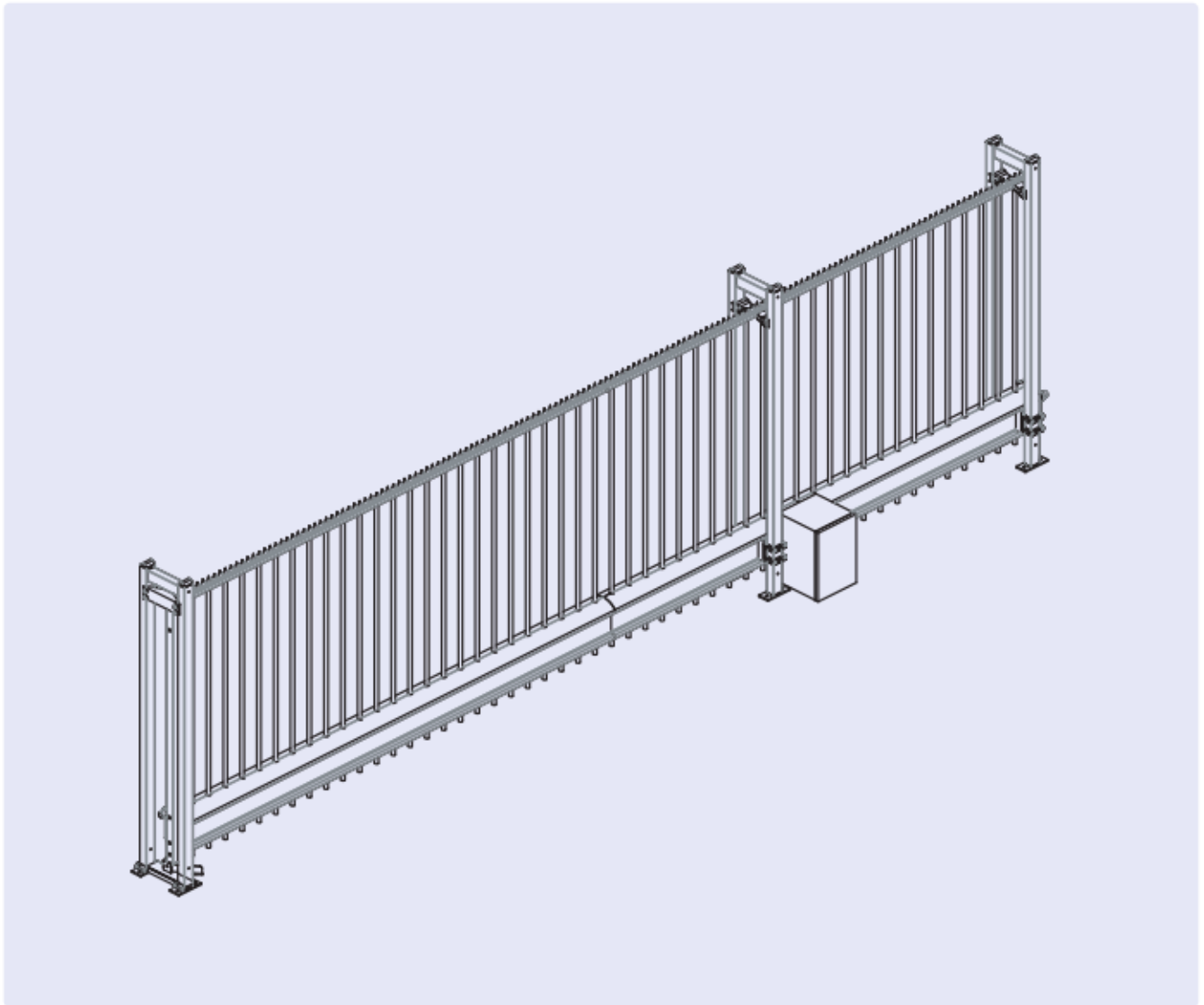
equipment for future procurement.

- C. Maintain logbook of repairs and maintenance.

**END OF SECTION**

[Installation manual](#)

# Delta



## Disclaimer

Read the full manual before installation. All described work must be performed by certified personnel. Should you deviate from the described actions, any guarantee entitlement and liability of the manufacturer shall no longer apply.

## Safety

Always wear the correct protective clothing when performing the work.

Always use a lifting tool/hoisting system when moving heavy and/or large objects.

Always use suitable tools.

Adding or removing parts other than as described in this manual can have negative consequences on the operation and, therefore, the safe operation of the final product and we categorically advise against this.



**DANGER!** Have work on electric parts only performed by certified personnel.

## Removing and disassembling

Dispose of the product in accordance with local legislation and regulations.

For use and maintenance see the user manual and/or service manual.

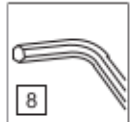
## Dimensioning

All sizes and dimensions are in mm unless stated otherwise.

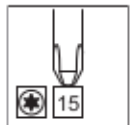
## Explanation of used symbols



Use an open-end spanner  
 The number specifies the insertion size in mm.



Use an Allen key  
 The number specifies the insertion size in mm.



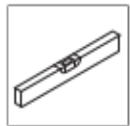
Use a screwdriver  
 The symbol specifies the type of screw. The number specifies the size of the screw.



Use an electric screwdriver  
 The symbol specifies the type of screw. The number specifies the size of the screw.



Use a drill  
 The number specifies the drill bit diameter in mm.



Ensure that the specified levels are level.



Dig a hole



Do not perform the work on your own.



Use a lifting tool/hoisting system.



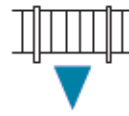
Use concrete  
 Follow the instructions on the packaging.



Use grout  
 Follow the instructions on the packaging.



Line of action of the gate  
 Specifies the line of action of the gate.



Fencing line  
 Specifies the fencing line of an (existing) fence.



Viewing angle  
 A different viewing angle is used.



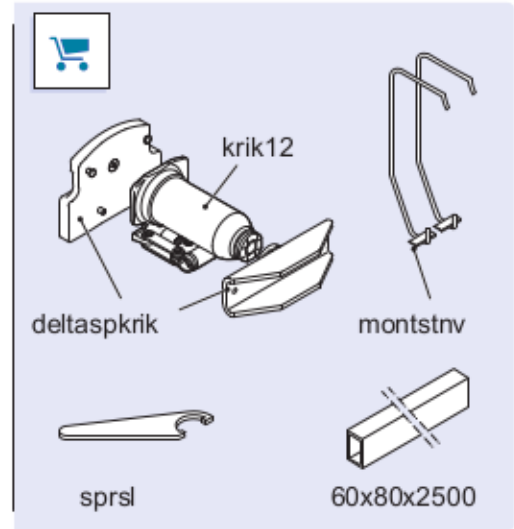
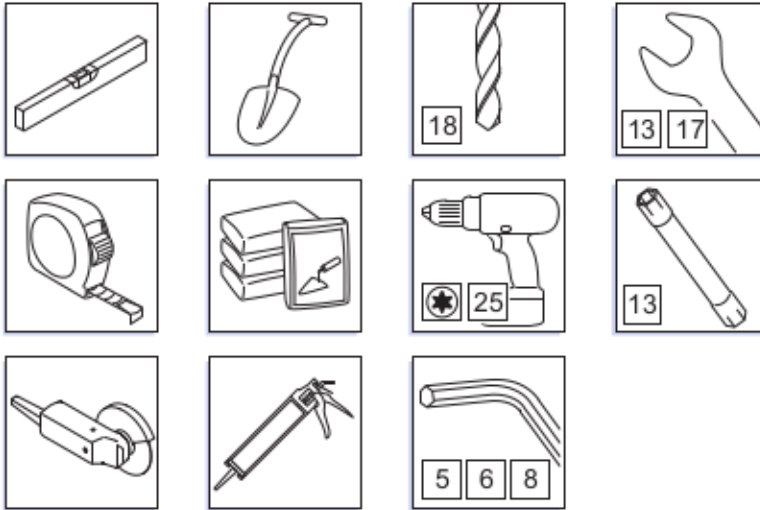
Extra to order



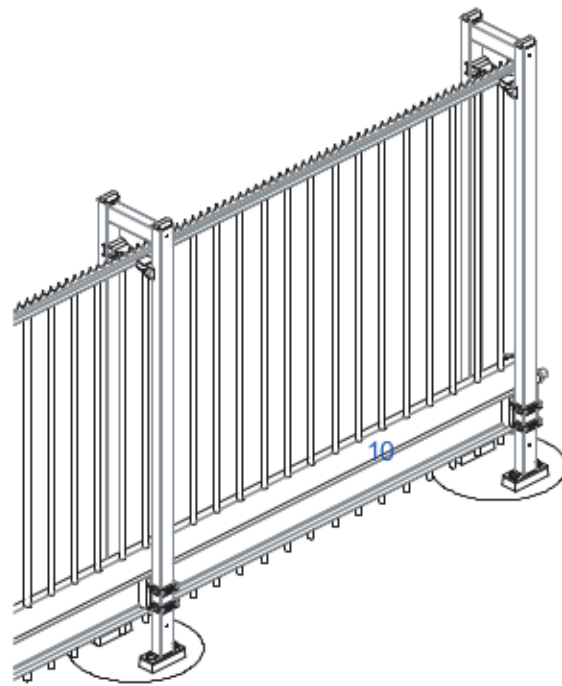
Page reference  
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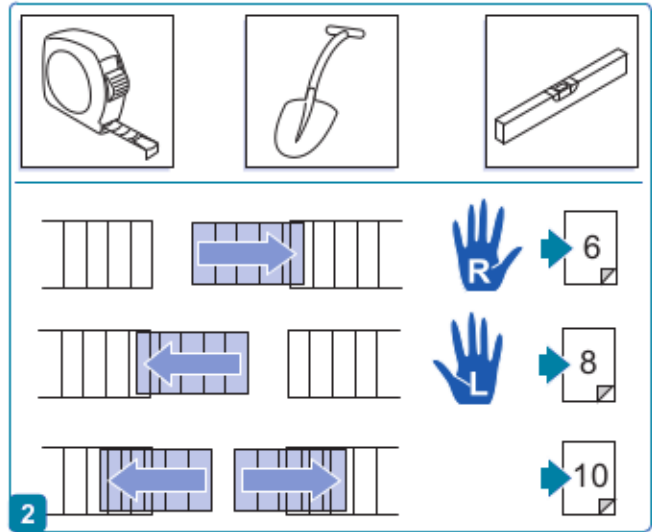
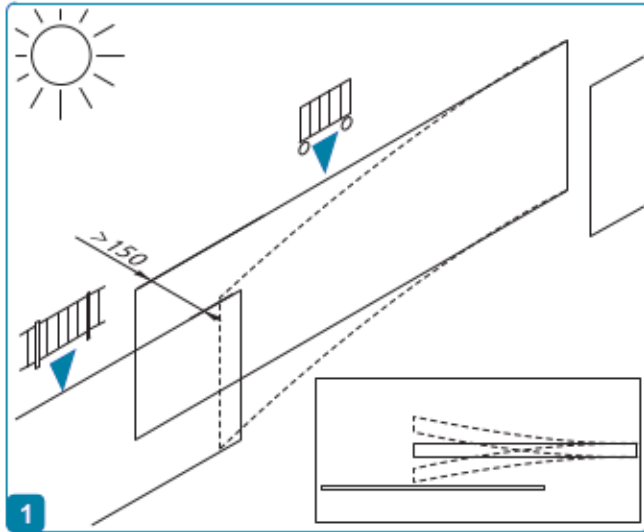


Drawing reference  
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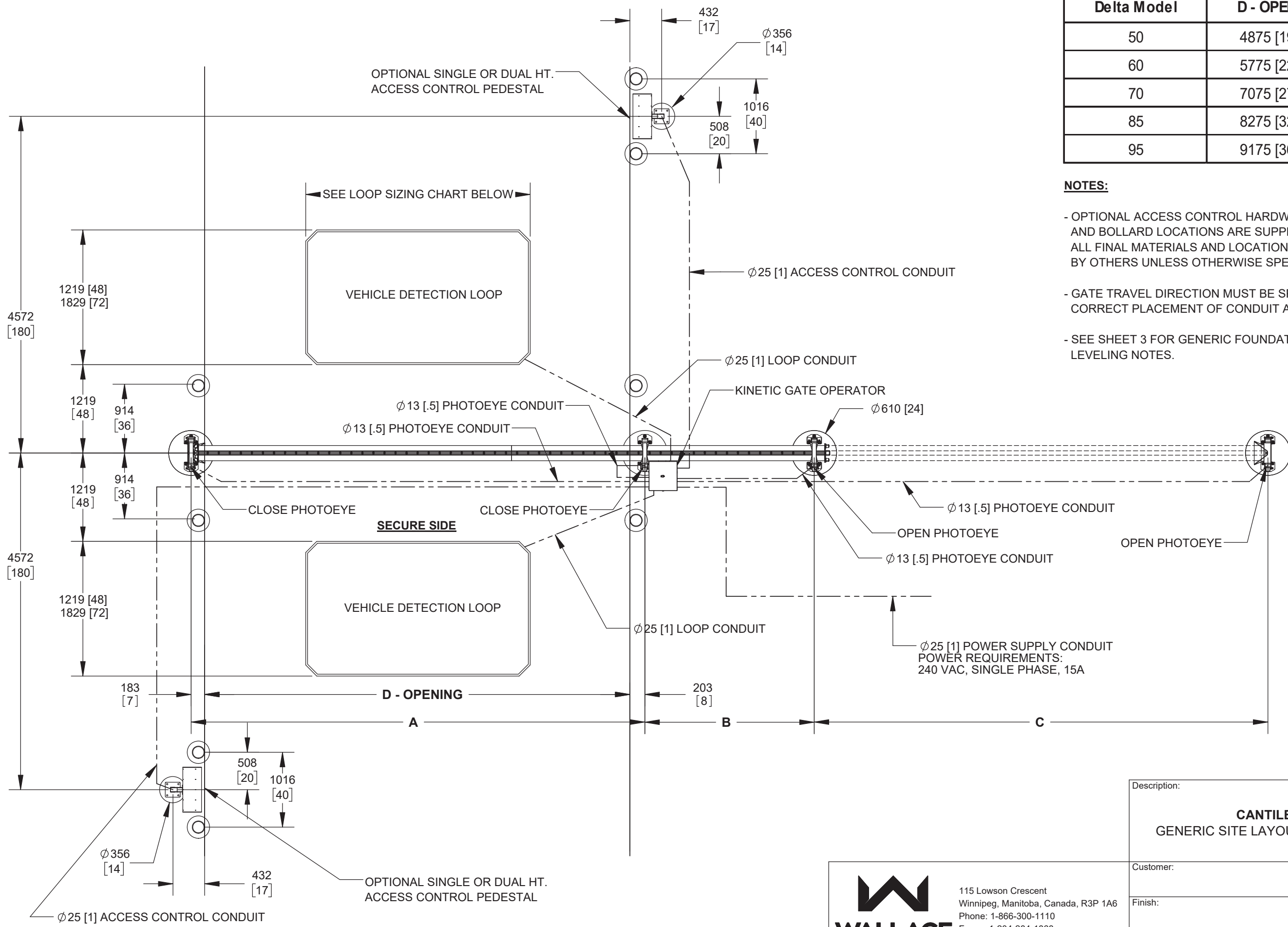



5









Delta Model	D - OPENING	LOOP WIDTH
50	4875 [191.9]	3658 [144.0]
60	5775 [227.4]	4267 [168.0]
70	7075 [278.5]	5486 [216.0]
85	8275 [325.8]	6096 [240.0]
95	9175 [361.2]	6096 [240.0]

**NOTES:**

- OPTIONAL ACCESS CONTROL HARDWARE, VEHICLE DETECTION LOOP AND BOLLARD LOCATIONS ARE SUPPLIED AS A REFERENCE ONLY. ALL FINAL MATERIALS AND LOCATIONS ARE SUPPLIED AND INSTALLED BY OTHERS UNLESS OTHERWISE SPECIFIED AT TIME OF ORDER.
- GATE TRAVEL DIRECTION MUST BE SPECIFIED AT TIME OF ORDER FOR CORRECT PLACEMENT OF CONDUIT AND GATE OPERATOR.
- SEE SHEET 3 FOR GENERIC FOUNDATION SIZING, INSTALLATION AND LEVELING NOTES.

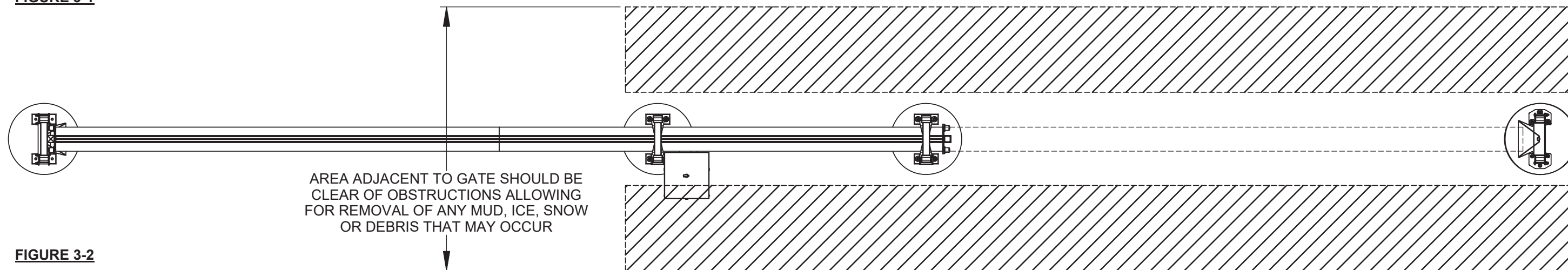
Product must be installed in accordance with ASTM: F-2200 & UL325


**WALLACE**  
 PERIMETER SECURITY

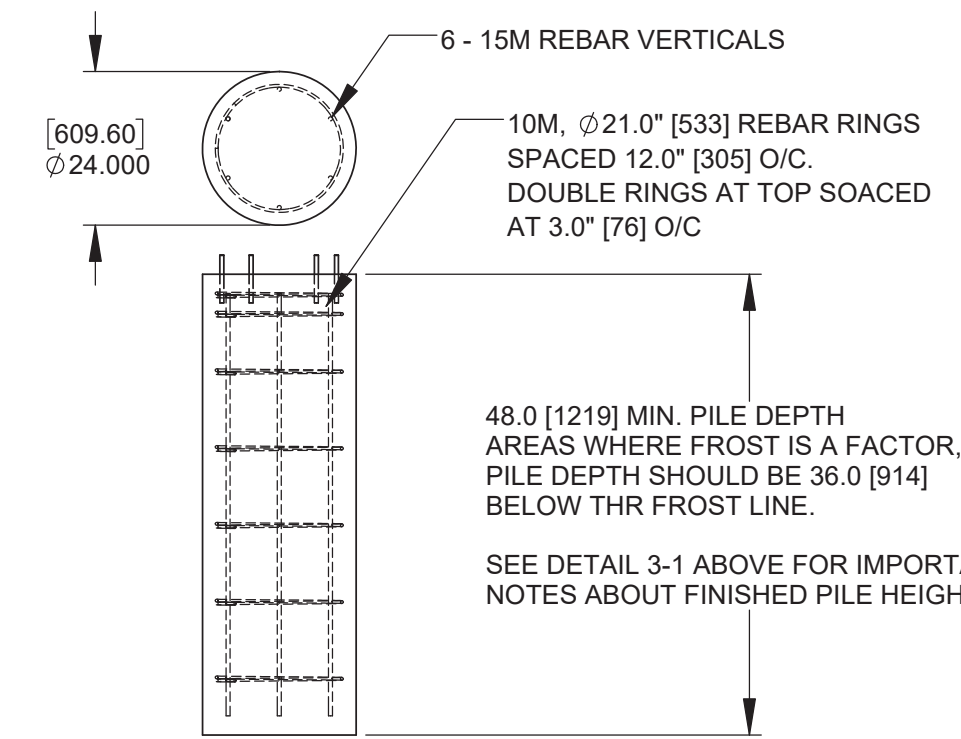
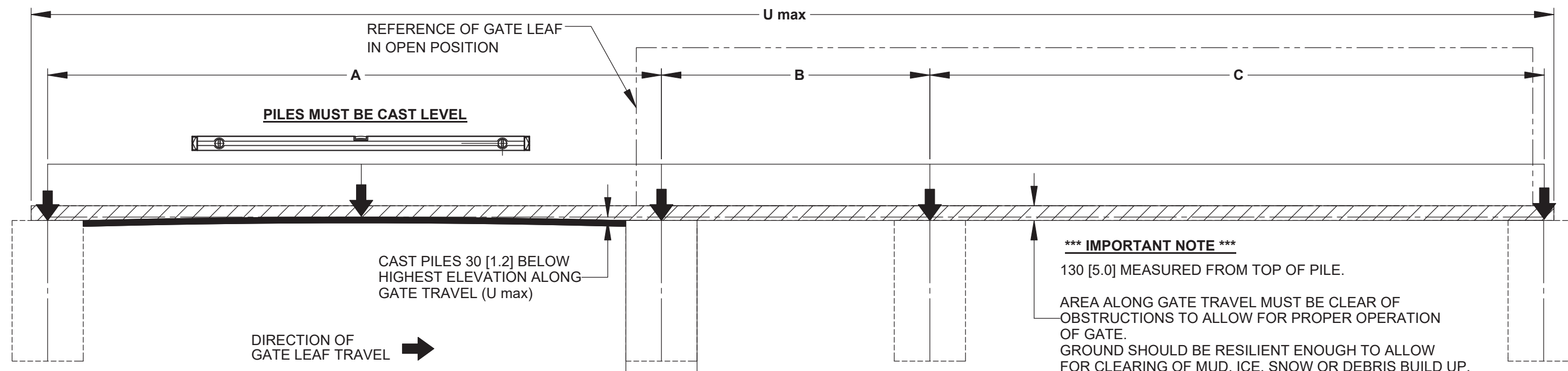
115 Lawson Crescent  
 Winnipeg, Manitoba, Canada, R3P 1A6  
 Phone: 1-866-300-1110  
 Fax: 1-204-284-1868  
 Web: www.wallaceperimetersecurity.com

Description:		
<b>DELTA CANTILEVER SLIDE GATE</b>		
GENERIC SITE LAYOUT / CONDUIT REQUIREMENTS		
Customer:		
Finish:	Date:	
	11/25/2022	
Drawing No.	Rev.	Sheet:
<b>DELTA-09-26-22</b>	<b>A</b>	<b>2 of 6</b>

**FIGURE 3-1**



**FIGURE 3-2**



**FIGURE 3-3: CONCRETE PILE**  
FOUNDATIONS ARE SHOWN AS A RECOMMENDED PILE TYPE ONLY. LOCAL SOIL CONDITIONS AND TEMPERATURES WILL DICTATE THE ACTUAL FOUNDATIONS REQUIRED.  
MINIMUM RECOMMENDED PILE DEPTH IS 48.0" [1219]

48.0 [1219] MIN. PILE DEPTH AREAS WHERE FROST IS A FACTOR, PILE DEPTH SHOULD BE 36.0 [914] BELOW THR FROST LINE.

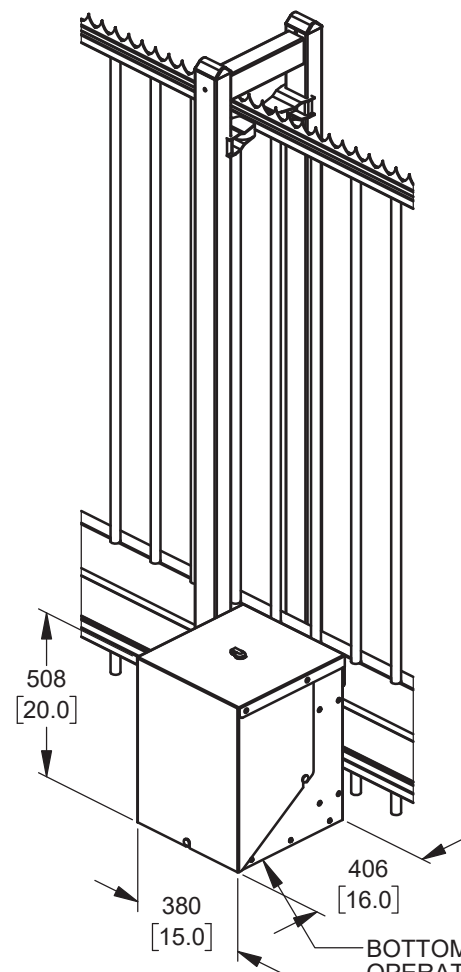
SEE DETAIL 3-1 ABOVE FOR IMPORTANT NOTES ABOUT FINISHED PILE HEIGHTS

610 [24.0] PILE SEE FIGURE 3-3 FOR CONCRETE PILE DETAILS

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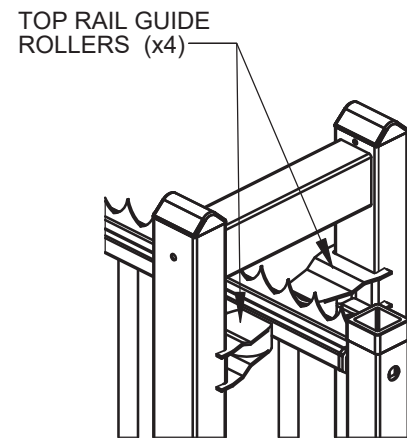
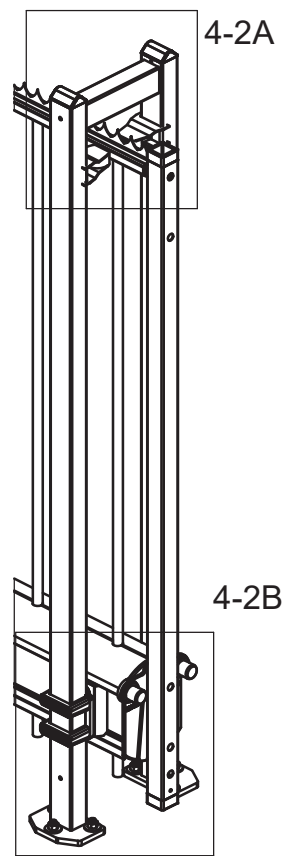
Description:		
<b>DELTA CANTILEVER SLIDE GATE FOUNDATION INSTALLATION NOTES</b>		
Customer:		
Finish:	Date:	
	4/27/2023	
Drawing No.	Rev.	Sheet:
<b>DELTA-09-26-22</b>	<b>A</b>	<b>3 of 6</b>



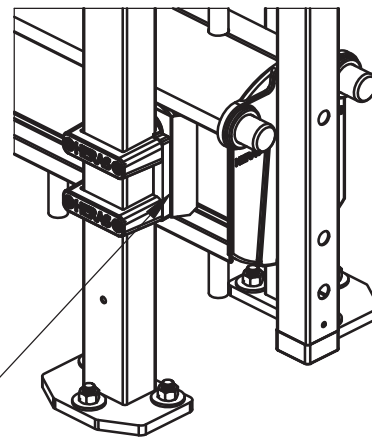
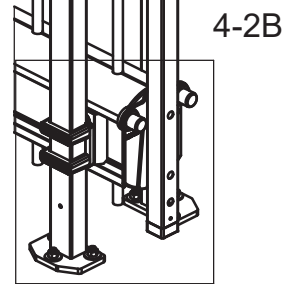
BOTTOM OF KINETIC GATE OPERATOR IS 81 [3] FROM GRADE

**NOTE:**  
KINETIC GATE OPERATOR IS LOCATED ON THE SECURE SIDE OF GATE. GATE TRAVEL DIRECTION MUST BE SPECIFIED AT TIME OF ORDER TO DETERMINE CORRECT CONTROLLER LOCATION. REFER TO SHEET 2 FOR MORE INFORMATION.

**DETAIL 4-1 - GATE CONTROLLER**



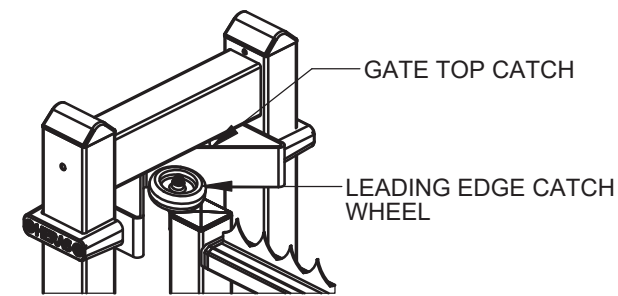
**DETAIL 4-2A - TOP RAIL GUIDE ROLLER**



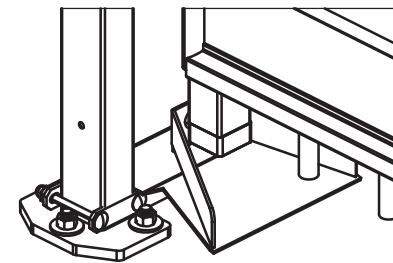
**DETAIL 4-2B - MAIN BEAM ROLLER SET**

MAIN BEAM ROLLER SET (X2)

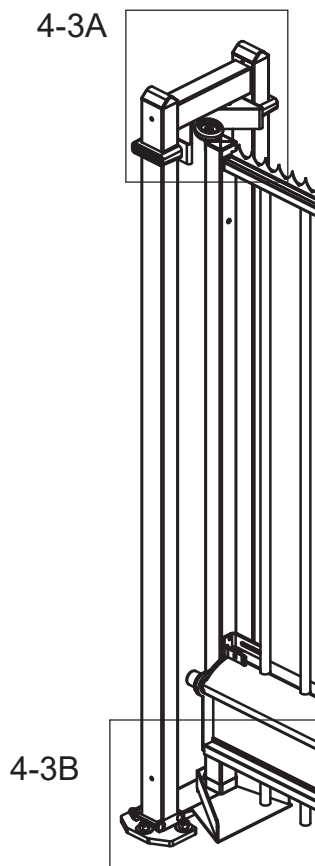
**DETAIL 4-2 - ROLLERS**



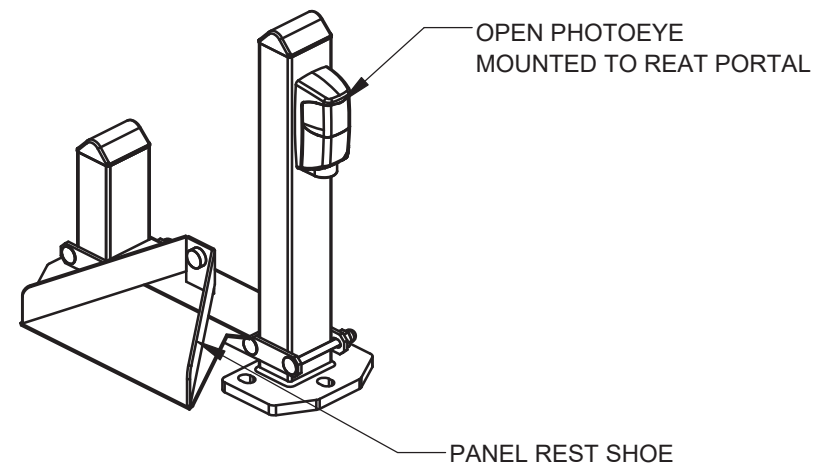
**DETAIL 4-3A - LEADING EDGE CATCH WHEEL**



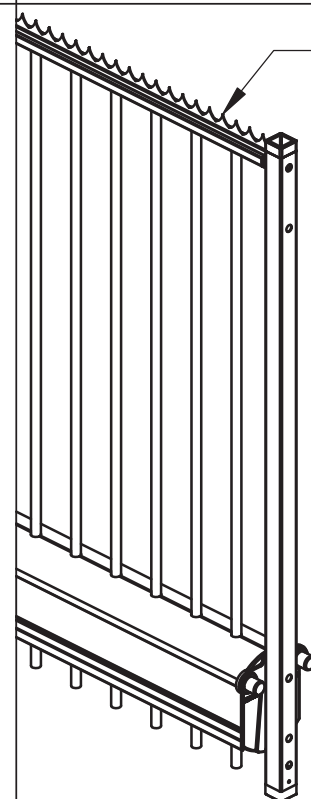
**DETAIL 4-3B - BOTTOM PANEL CATCH / REST**



**DETAIL 4-3 - PANEL CATCH PORTAL**

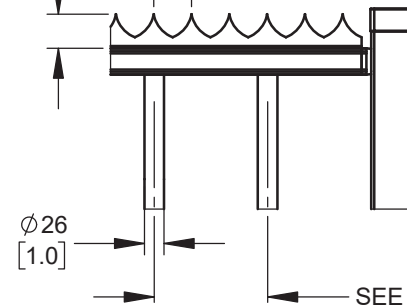


**DETAIL 4-4 - PANEL REST PORTAL**



SERRATED ANTI-CLIMB EDGE

45 [1.8]      50 [2.0]



SEE CHART ON PAGE 1

**DETAIL 4-4 - PANEL PICKETS \ DETAILS**

**NOTES:**

**GATE FINISH:**

- HOT DIPPED GALVANIZED FINISH ON ALL STEEL COMPONENTS
- ALUMINUM GATE BEAMS - CLEAR ANODIZED FINISH

**OPTIONAL FINISH:**

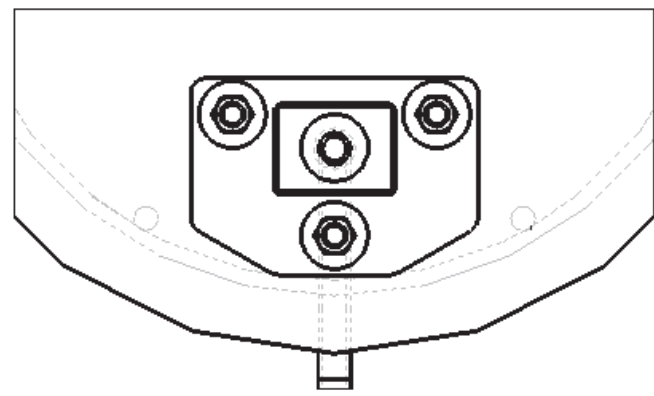
- POWDER COAT FINISH AVAILABLE - RAL COLOR NUMBER MUST BE PROVIDED AT TIME OF ORDER

GATE MUST BE INSTALLED IN ACCORDANCE WITH ASTM F-2200 & UL325

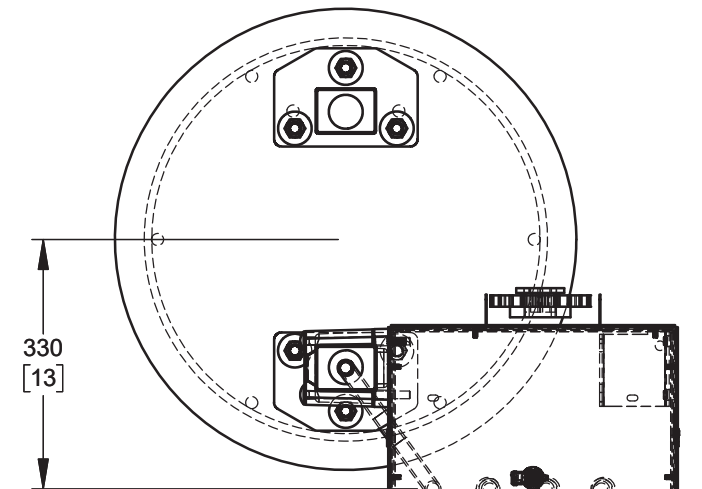
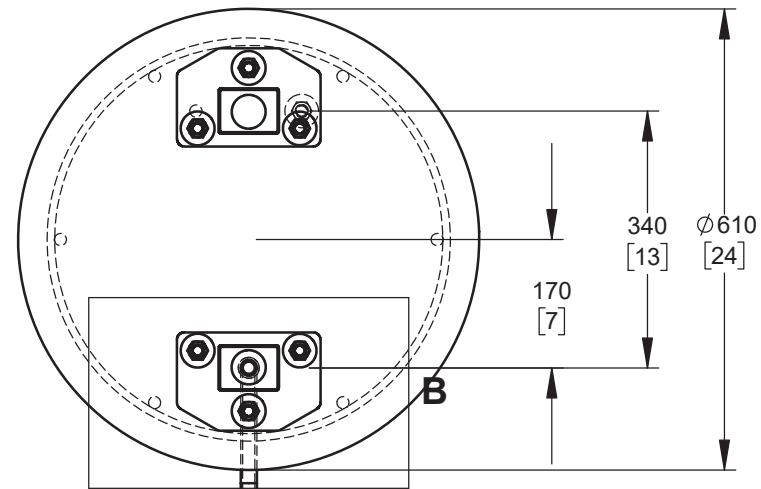
Description:		<b>DELTA CANTILEVER GATE SYSTEM DETAILS &amp; NOTES</b>	
Customer:			
Finish:		Date:	11/26/2022
Drawing No.	<b>DELTA-09-26-22</b>	Rev.	<b>A</b>
		Sheet:	4 of 6



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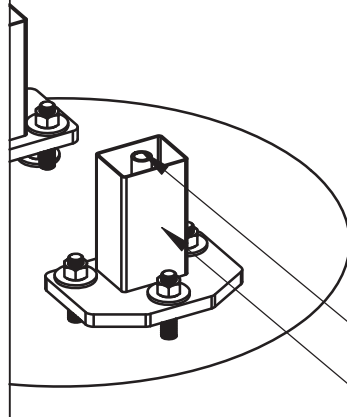


**DETAIL B**  
USE TEMPLATE SUPPLIED WITH DELTA GATE TO ENSURE PROPER PLACEMENT OF CONDUIT IN PILE



- 13mm 1/2" FLEX TYPE PHOTOEYE CONDUIT
- 25mm 1" POWER CONDUIT
- 25mm 1" COMMUNICATION CONDUIT
- 25mm 1" SPARE CONDUIT

KINETIC GATE OPERATOR



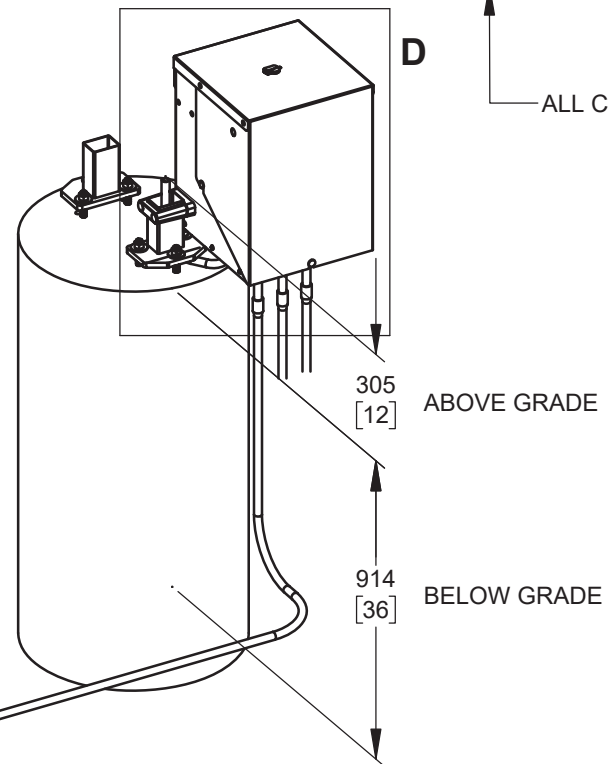
**DETAIL C**  
CATCH PORTAL PHOTOEYE CONDUIT INSTALLED ON SECURE SIDE OF GATE PORTAL

13 [1/2"] FLEX TYPE CONDUIT

CATCH PORTAL, SECURE SIDE OF GATE

13 [1/2"] FLEX TYPE CONDUIT STUBBED INTO CENTER OF GATE CATCH PORTAL SEE DETAILS B & C

C



D

305 [12] ABOVE GRADE

914 [36] BELOW GRADE

ALL CONDUIT BELOW GRADE TO BE RIGID TYPE PVC

KINETIC GATE OPERATOR

13 [1/2"] FLEX TYPE CONDUIT FROM KINETIC GATE OPERATOR TO PHOTOEYE MOUNTED ON PORTAL - BY GATE INSTALLERS

GROUT FLEX CONDUIT IN PLACE WHEN INSTALLATION IS COMPLETE.

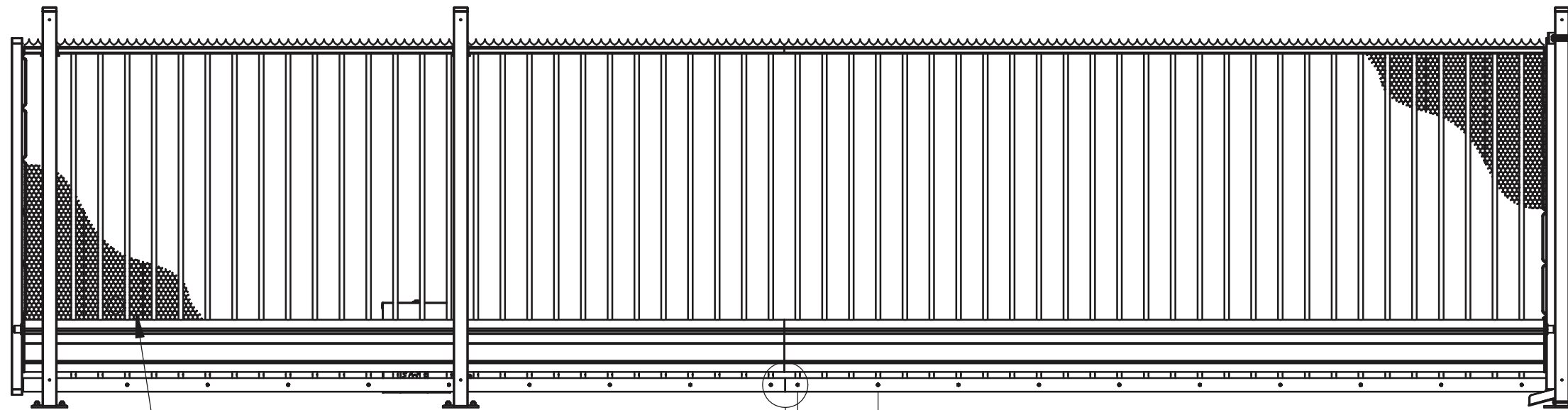
**DETAIL D**  
OPERATOR / PORTAL PHOTOEYE CONDUIT

Product must be installed in accordance with ASTM: F-2200 & UL325



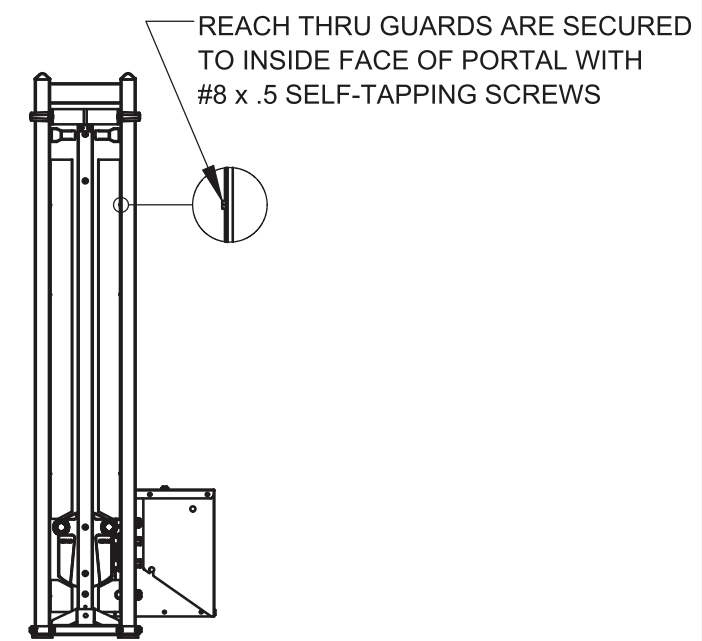
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Fax: 1-204-284-1868  
Web: www.wallaceperimetersecurity.com

Description:		<b>DELTA CANTILEVER SLIDE GATE CONDUIT</b>	
Customer:			
Finish:		Date:	11/28/2022
Drawing No.	<b>DELTA-09-26-22</b>	Rev.	<b>A</b>
		Sheet:	5 of 6



20ga REVERSE TWIST PVC BLACK HEX NETTING SECURED TO PICKETS AND END MESH RETAINERS WITH 9ga FENCE TIES.

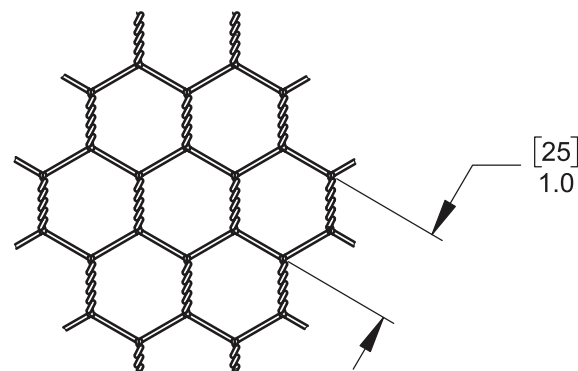
[450]  
17.7



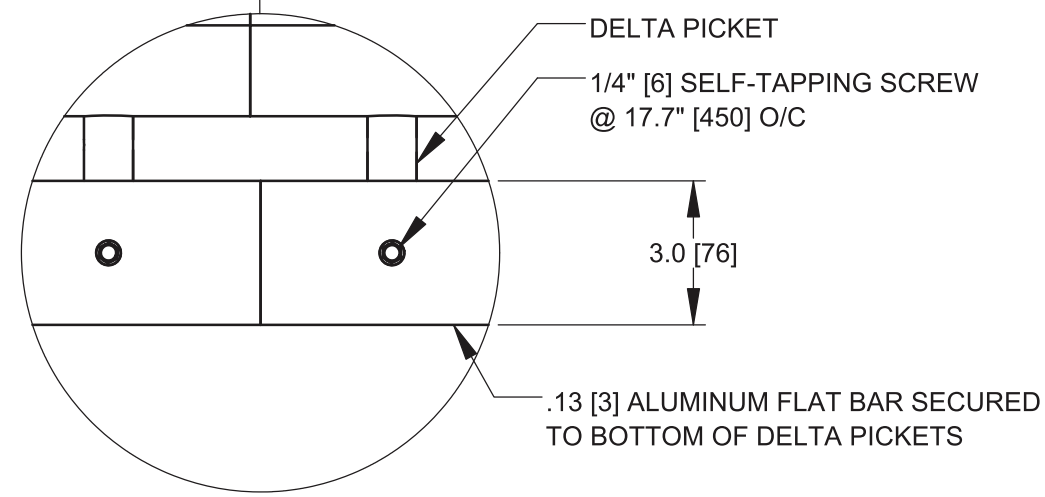
REACH THRU GUARDS ARE SECURED TO INSIDE FACE OF PORTAL WITH #8 x .5 SELF-TAPPING SCREWS

**DETAIL C**  
PORTAL REACH THRU GUARDS

**DETAIL A**  
20ga 1.0" [25] REVERSE TWIST HEX NETTING

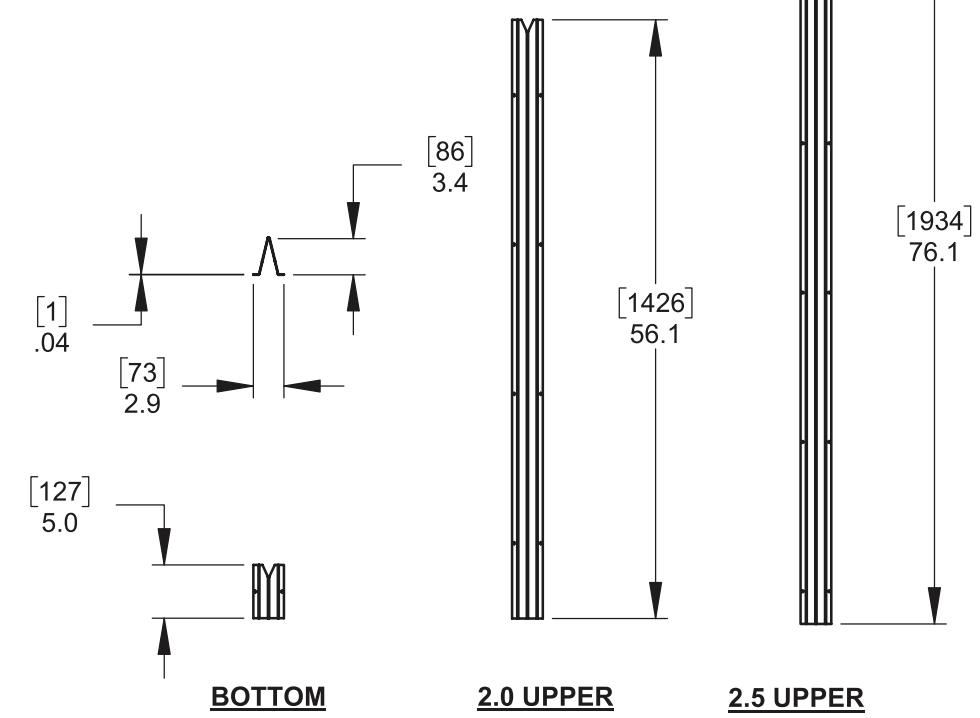


[25]  
1.0



DELTA PICKET  
1/4" [6] SELF-TAPPING SCREW @ 17.7" [450] O/C  
3.0 [76]  
.13 [3] ALUMINUM FLAT BAR SECURED TO BOTTOM OF DELTA PICKETS

**DETAIL B**  
3.0 [76] x .13 [3] BOTTOM PICKET GUARD



[1]  
.04

[73]  
2.9

[127]  
5.0

[86]  
3.4

[1426]  
56.1

[1934]  
76.1

**BOTTOM**

**2.0 UPPER**

**2.5 UPPER**

Description: <b>DELTA GATE UL325 KIT INSTALLATION DETAIL</b>		
Customer:		
Finish:	Date: 11/25/2022	
Drawing No. <b>DELTA-09-26-22</b>	Rev. <b>A</b>	Sheet: 6 of 6


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# GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE UNIFORM CONSTRUCTION CODE OF THE STATE OF NEW JERSEY (CURRENT EDITION), IBC CODE (CURRENT EDITION), & ALL RELATED CODES & STANDARDS, AND THE REQUIREMENTS OF THE AGENCIES HAVING JURISDICTION. ALL STRUCTURAL, ELECTRICAL, & MECHANICAL WORK SHALL COMPLY WITH THE GOVERNING CODES AS ADMINISTERED BY THE LOCAL BUILDING OFFICIALS & SHALL BE CONSIDERED AS PART OF THE CONSTRUCTION DOCUMENTS.

2. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK SHOWN, CALLED FOR AND / OR REASONABLY IMPLIED, UNLESS OTHERWISE AGREED TO (IN WRITING) BY THE OWNER.

3. THE CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL APPLICATIONS, PERMITS, TESTS, INSPECTIONS, APPROVALS, & CERTIFICATES FROM ALL LOCAL, COUNTY, STATE, & FEDERAL AGENCIES HAVING JURISDICTION.

4. PLUMBING & ELECTRICAL WORK WHERE REQUIRED SHALL BE DESIGN-BUILD BY THE GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS. ALL WORK SHALL MEET OR EXCEED STANDARD RESIDENTIAL CRITERIA FOR SIMILAR INSTALLATIONS (UNLESS OTHERWISE NOTED TO MEET A MORE STRINGENT CRITERIA) AND SHALL BE PERFORMED IN COMPLIANCE WITH GENERAL NOTES.

5. ALL CONTRACTORS SHALL REVIEW AND COORDINATE THE PLANS AND SPECIFICATIONS FOR THE PROPOSED WORK WITH THE EXISTING BUILDING, UTILITIES, AND FIELD CONDITIONS AND SHALL REPORT ANY AND ALL DISCREPANCIES AND INTERFERENCE TO THE ARCHITECT (IN WRITING) PRIOR TO COMMENCING WORK AND ORDERING MATERIALS. THE CONTRACTORS SHALL BE RESPONSIBLE FOR THE COMPLETENESS AND CORRECT FIT OF THEIR WORK WITH THAT OF ADJACENT TRADES.

6. MAINTAIN ALL UTILITIES IN FUNCTIONAL ORDER, WATER AND WEATHER TIGHTNESS OF ALL WORK AREAS, ACCESS TO AND SECURITY OF THE PREMISES, JOB SITE SAFETY AND PROVIDE AND MAINTAIN FIRE EXTINGUISHERS DURING THE COURSE OF CONSTRUCTION.

7. ALTERNATE PROPOSALS FOR DETAILS OF CONSTRUCTION, DIFFERENT, PRODUCT MFG., AND ASSEMBLIES MAY BE CONSIDERED WHEN SPECIFICALLY BROUGHT TO THE ATTENTION OF THE ARCHITECT (IN WRITING) ON A TIMELY BASIS WHICH WOULD NOT DELAY THE PROGRESS OF WORK.

8. ALL CONTRACTORS SHALL GUARANTEE THEIR WORK (IN WRITING) FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE (U.N.O.)

9. ALL CONTRACTORS SHALL PROVIDE MANUFACTURERS GUARANTEES, OPERATION AND MAINTENANCE PROCEDURES (I.E. HANDS ON INSTRUCTION) FOR ALL MATERIALS AND EQUIPMENT, FIXTURES AND DEVICES.

10. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, SEQUENCES, TECHNIQUES, AND JOB SITE SAFETY AND SHALL COORDINATE SAME WITH OWNER AND ALL ADJACENT TRADES. THE GENERAL CONTRACTOR SHALL SUPERVISE ALL WORK AND SHALL ASSURE THAT ALL DESIGN CONDITIONS ARE VERIFIED AND SATISFIED.

11. CHANGES TO THE PLANS AND / OR SPECIFICATIONS AND / OR THE USES THEREOF WHICH CAUSE ANY KIND OF DAMAGE TO PERSONS OR PROPERTY (DIRECTLY OR INDIRECTLY) SHALL BE THE RESPONSIBILITY OF THOSE PARTIES AUTHORIZING AND / OR UNDERTAKING SUCH CHANGES WHERE SUCH CHANGES HAVE NOT BEEN AUTHORIZED BY THE ARCHITECT. MATTERS NOT ADDRESSED BY THE PLANS AND SPECIFICATIONS SHALL BE WHEN ADDRESSED BY OTHERS, THE RESPONSIBILITY OF THOSE OTHERS.

12. LOCATE ALL UTILITIES PRIOR TO COMMENCEMENT OF WORK AND REPORT ALL INTERFERENCE OF PROPOSED WORK TO THE ARCHITECT. RELOCATE EXISTING TELEPHONE, ELECTRICAL, PLUMBING LINES, ETC. AS CONDITIONS WARRANT TO MAINTAIN AND PROVIDE COMPLETE AND FUNCTIONING SYSTEMS.

13. COORDINATE LOCATION OF MATERIAL STOCK PILES WITH ALL TRADES AND OWNER AND MAINTAIN OWNERS ACCESS.

14. ALL DEBRIS FROM DEMOLITION AND CONSTRUCTION WORK SHALL BE REMOVED FROM THE SITE ON A REGULAR BASIS BY THE GENERAL CONTRACTOR.

15. ALL PAINTING AND STAINING SHALL BE PERFORMED UNDER THIS CONTRACT AT AREAS OF NEW WORK (UNLESS OTHERWISE NOTED). ALL COLORS AND FINISHES SHALL BE AS SELECTED BY OWNER. SUBMIT SAMPLES FOR SELECTION BY OWNER.

16. THE DRAWINGS PREPARED BY THE ARCHITECT REPRESENT GENERAL DESIGN INTENT AND ARE NOT TO BE CONSTRUED - EXPLICITLY OR IMPLICITLY - TO REPRESENT ACTUAL AS-BUILT CONDITION OF ANY BUILDING. IN ACCORDANCE WITH FIELD CONDITIONS, TRADE PRACTICES, BUILDER PREFERENCES, MATERIAL AND EQUIPMENT SELECTIONS, OWNERS REQUIREMENTS, THE REQUIREMENTS OF UTILITY COMPANIES AND AGENCIES HAVING JURISDICTION AND ANY SUCH - LIKE CIRCUMSTANCES AND / OR CONDITIONS. THE OWNER MAY CHOOSE TO ALTER VARIOUS ELEMENTS OF THE BUILDING WHILE MAINTAINING THE GENERAL DESIGN INTENT OF THE DRAWINGS AND COMPLIANCE WITH CODES, STANDARDS, AND AGENCIES HAVING JURISDICTION. NO FUTURE OWNER OF THIS BUILDING SHALL RELY UPON THE ARCHITECT'S DRAWINGS FOR ANY PURPOSE BEING AS BUILT DRAWINGS.

17. ALL NEW WORK SHALL INCLUDE ELEMENTS OF CONSTRUCTION SELECTED TO MATCH EXISTING ELEMENTS OF CONSTRUCTION (UNLESS OTHERWISE NOTED) USED IN SIMILAR CONDITIONS INCLUDING, BUT NOT NECESSARILY LIMITED TO THE FOLLOWING (AS MAY BE APPLICABLE TO THIS PROJECT):

- A. DEMOLITION
- B. CARPENTRY
- C. PAINTING
- D. PLUMBING
- E. ELECTRICAL
- F. MISC. ITEMS AS CALLED FOR ON THE PLANS.

18. EACH CONTRACTOR SHALL REMOVE ALL MANNER OF EXISTING ELEMENTS (IN THEIR TRADE) THAT WOULD INTERFERE WITH THE PURPOSE WORK OF THEIR TRADE AND ADJACENT TRADES - AS SHOWN AND / OR REASONABLY IMPLIED. WHERE THESE ELEMENTS WHICH INTERFERE ARE REQUIRED IN ORDER TO MAINTAIN THE EXISTING AND PROPER FUNCTION OF THE BUILDING UPON THE COMPLETION OF THE PROJECT, EACH CONTRACTOR SHALL (IN ITS OWN TRADE) RELOCATE, AND / OR ALTER OR MAKE NEW THOSE ELEMENTS TO PROVIDE THE PROPER FUNCTION, AND SHALL DO SO IN COORDINATION WITH THE GENERAL CONTRACTOR AND ALL ADJACENT TRADES.

19. CONTRACTOR TO MAINTAIN LIABILITY INSURANCE OF SUFFICIENT AMOUNT AS AGREED UPON BY THE OWNER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

20. NOTHING IN THESE DRAWINGS SHALL IMPOSE LIABILITY ON THE ARCHITECT / ENGINEER FOR CLAIMS, LAWSUITS, EXPENSES, OR DAMAGES ARISING FROM OR IN ANY MANNER RELATED TO THE EXPOSURE TO OR THE HANDLING, MANUFACTURE OR DISPOSAL OF ASBESTOS, ASBESTOS PRODUCTS, OR HAZARDOUS WASTE IN ANY OF ITS VARIOUS FORMS, AS DEFINED BY THE ENVIRONMENTAL PROTECTION AGENCY.

21. CONTRACTOR SHALL IDENTIFY AND NOTIFY THE OWNER AND THE ARCHITECT OF THE PRESENCE OF ASBESTOS OR OTHER SUSPECTED HAZARDOUS MATERIALS BEFORE INITIATING THE DEMOLITION OF SAME, AT WHICH TIME THE APPROPRIATE IDENTIFICATION AND REMOVAL OF SUCH SUSPECTED MATERIALS BY LICENSED AND APPROVED CONTRACTOR SHALL COMMENCE. METHOD AND COST OF REMOVAL SHALL BE APPROVED AND PAID FOR DIRECTLY BY THE OWNER.

# CONSTRUCTION SAFETY NOTES:

CONTRACTOR TO ENSURE ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH OSHA REQUIREMENTS.

ARCHITECT IS NOT TO BE HELD RESPONSIBLE FOR ANY INFERIOR, INCORRECT OR NON CODE CONFORMANCE OF CONSTRUCTION OR CONSTRUCTION METHODS

# DEMOLITION NOTES:

UNLESS OTHERWISE INDICATED ON THE CONTRACT DOCUMENTS; WHERE CUTTING, PATCHING, OR REPAIRING ARE REQUIRED:

1. PATCH AND REPAIR EXISTING FINISHES TO MATCH EXISTING ADJACENT FINISHES WHERE DAMAGED BY WORK UNDER THIS CONTRACT.

2. DO NOT CUT AND PATCH CONSTRUCTION THAT WILL BE VISIBLE IN A MANNER THAT WOULD, IN THE ARCHITECTS OPINION, REDUCE THE BUILDINGS AESTHETIC QUALITIES OR RESULT IN THE VISUAL EVIDENCE OF CUTTING OR PATCHING.

3. REMOVE ANY WORK CUT AND PATCHED IN A VISUALLY UNSATISFACTORY MANNER AND REPLACE WITH NEW MATERIALS.

4. USE NEW MATERIALS THAT ARE IDENTICAL TO EXISTING MATERIALS. IF IDENTICAL MATERIALS ARE NOT AVAILABLE OR CANNOT BE USED WHERE EXPOSED SURFACES ARE INVOLVED, USE MATERIALS THAT MATCH EXISTING, ADJACENT SURFACES TO THE FULLEST EXTENT POSSIBLE WITH REGARD TO VISUAL EFFECT AND WHOSE PERFORMANCE WILL EQUAL OR SURPASS THAT OF THE EXISTING MATERIALS.

5. RESTORE EXPOSED FINISHES OF PATCHED AREAS AND EXTEND FINISH RESTORATION INTO ADJOINING CONSTRUCTION IN A MANNER THAT WILL ELIMINATE EVIDENCE OF PATCHING AND REFINISHING.

6. WHERE PATCHED SURFACES CANNOT BE PAINTED TO MATCH EXISTING PAINT COLORS AND CONDITIONS EXACTLY, PAINT ENTIRE ROOM SURFACE TYP.

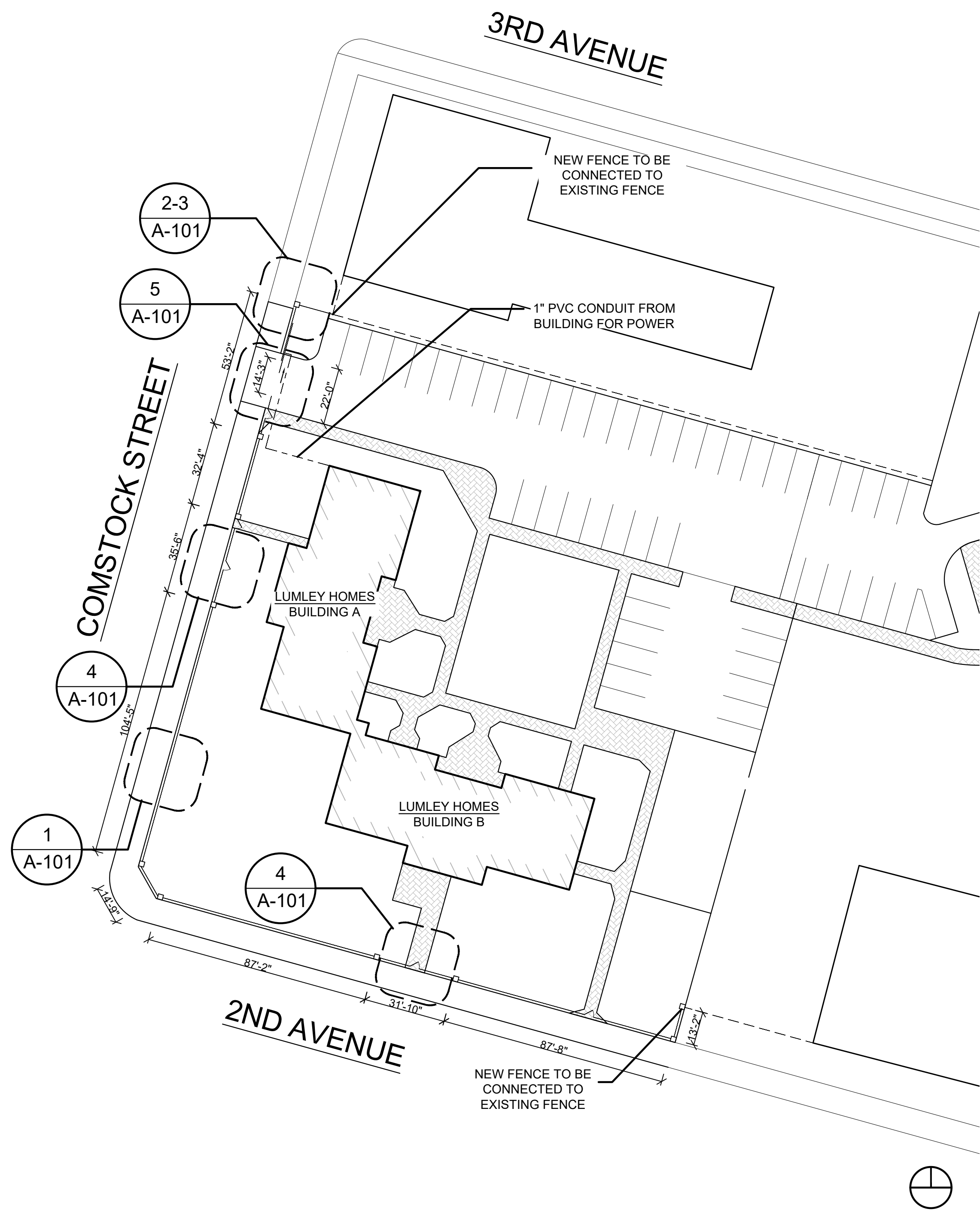
# SCOPE OF WORK

THE FOLLOWING PROJECT AS PRESENTED IN THESE DOCUMENTS SHALL CONSIST OF BUT IS NOT LIMITED TO THE FOLLOWING:

1. PLANE EXISTING ASPHALT & PREPARE TO RECEIVE NEW CONSTRUCTION.
2. REMOVE SEEDED AREAS AND CURBING WITHIN AREA OF WORK SHOWN IN ORDER TO EXPAND PARKING AREA.
3. CONSTRUCT CURBING AND FENCING AS SHOWN ON THE PROPOSED PLAN
4. PAVE AND STRIPE PARKING LOT AS SHOWN ON THE PROPOSED PLAN

# OWNERSHIP OF DOCUMENTS:

DRAWINGS AND SPECIFICATIONS, AS INSTRUMENTS OF SERVICE ARE THE EXCLUSIVE PROPERTY OF THIS ARCHITECT WHETHER THE PROJECT FOR WHICH THEY WERE PREPARED IS EXECUTED OR NOT. THESE DOCUMENTS ARE NOT TO BE REPRODUCED IN ANY FORM AND THEY ARE NOT TO BE USED BY THE PROJECT OWNER OR ANY OTHER ENTITY ON ANY OTHER PROJECTS OR FOR ANY EXTENSIONS OR ADDITIONS OR ALTERATIONS TO THE ORIGINAL PROJECT EXCEPT BY WRITTEN AUTHORIZATION AND PERMISSION FROM AND AGREEMENT WITH THE ARCHITECT.



**1 LUMLEY HOMES - SITE PLAN**  
SCALE: 1/32"=1'-0"

SEAL  
Frank J. Minervini, AIA  
NJ License # 12576  
NY License # 03 0297 63  
Anthony C. Vandermark, Jr. AIA  
NJ License # 17698  
NY License # 32710-1  
Adrian Melia, AIA  
NJ License # 18738  
Claran Kelly, AIA  
NJ License # 18866

1	05-10-2024	BID SET
#	Date	Issue

Project Title  
ASBURY PARK HOUSING AUTHORITY

ASBURY PARK, NEW JERSEY 07712

Project Description

STORM DOOR REPLACEMENT

Applicant  
ASBURY PARK HOUSING AUTHORITY

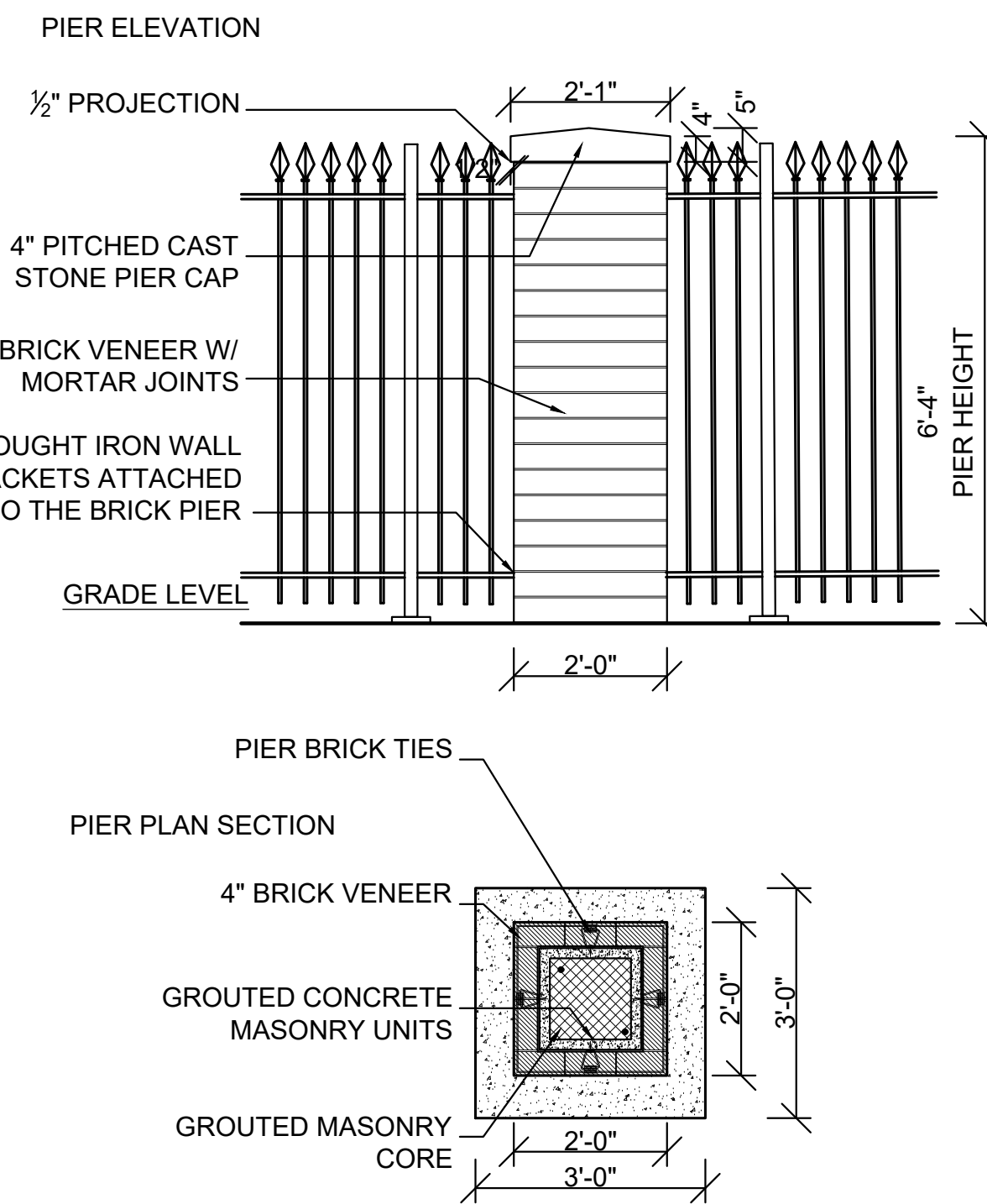
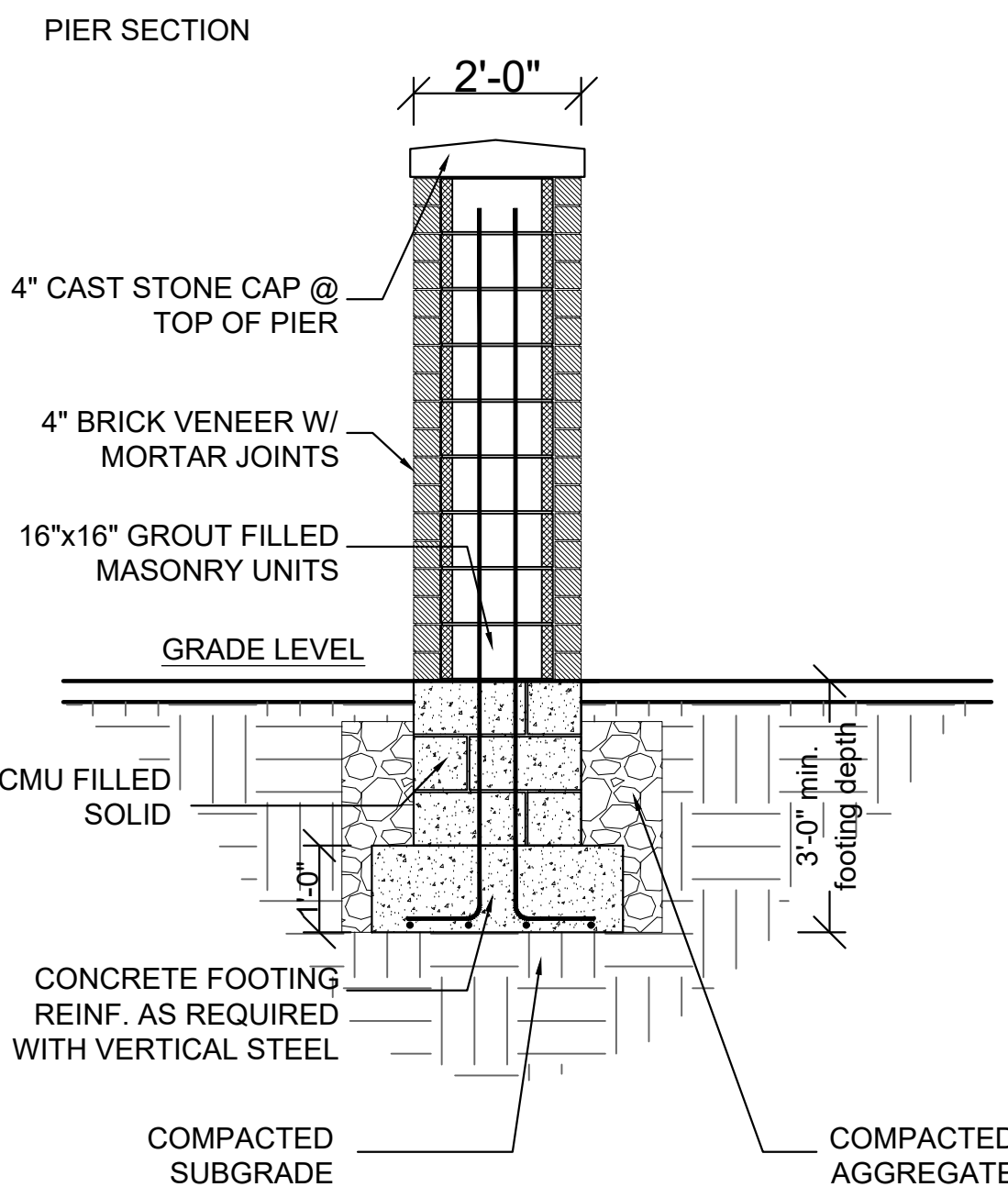
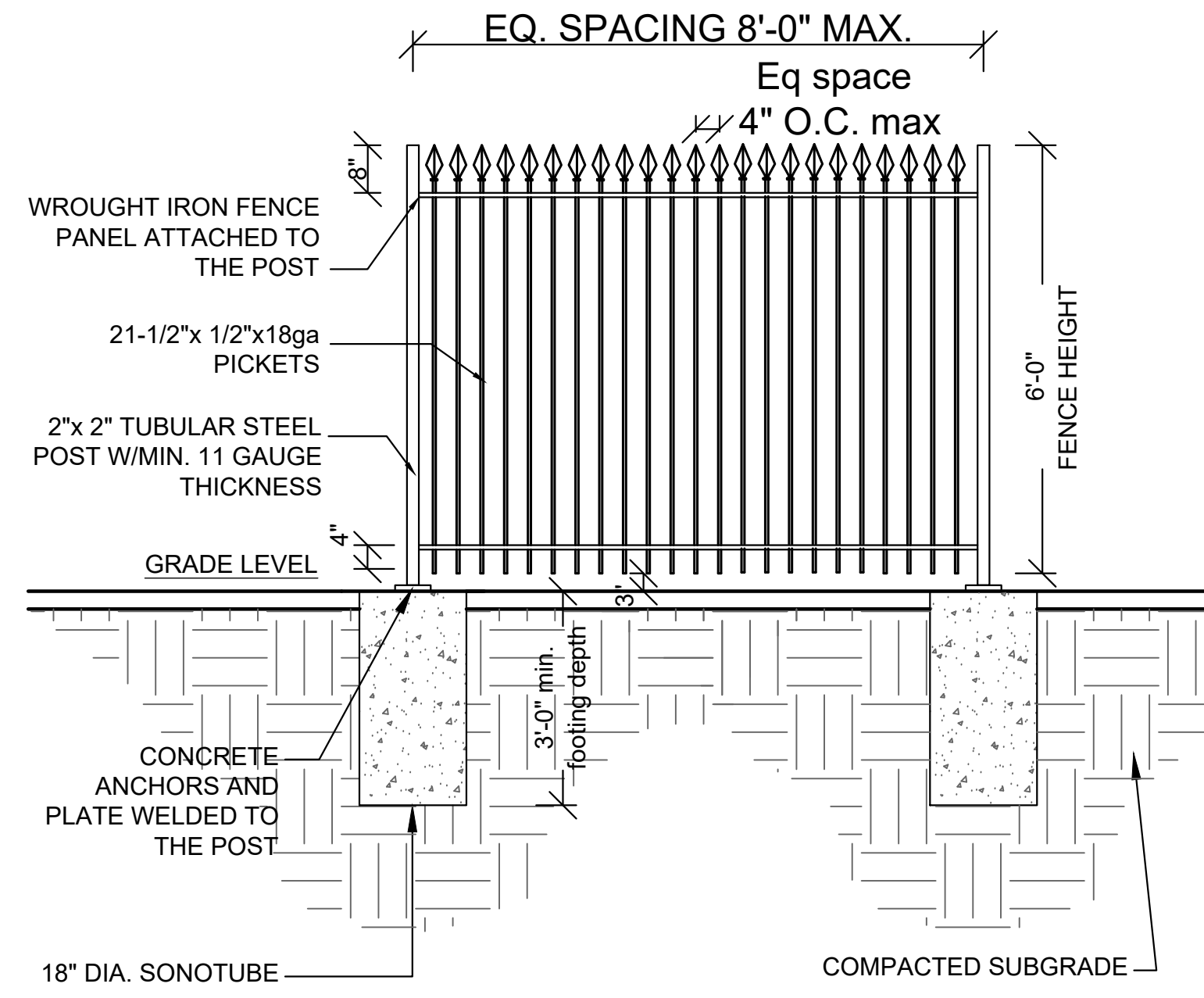
Project Number: 23-1653  
Drawn by : GL  
Checked by : AV  
Scale : As Noted

Sheet Title

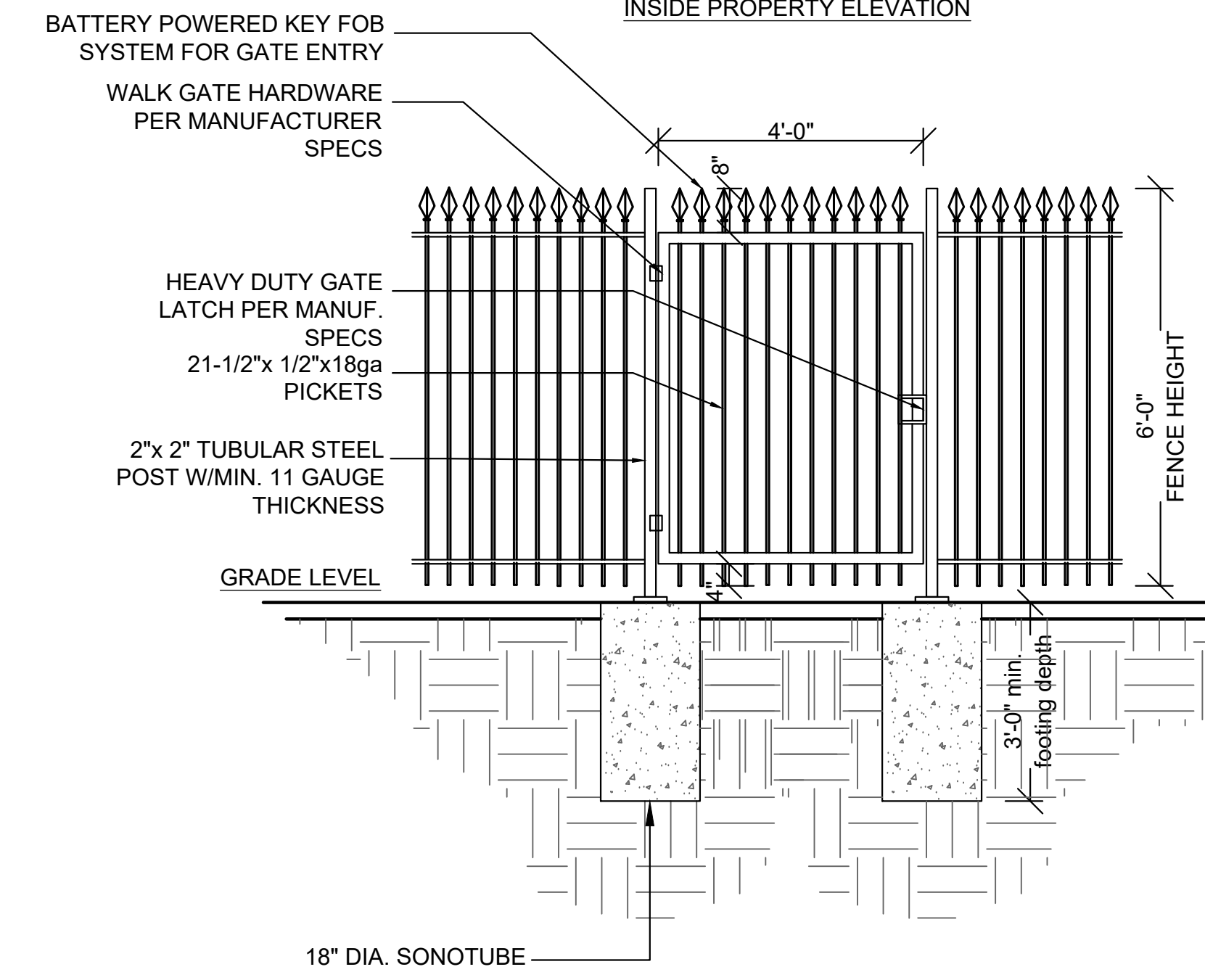
LUMLEY HOMES  
SITE PLAN AND GENERAL NOTES

Sheet Number

WROUGHT IRON FENCE PANEL. TYPICAL



WROUGHT IRON WALK GATE. TYPICAL



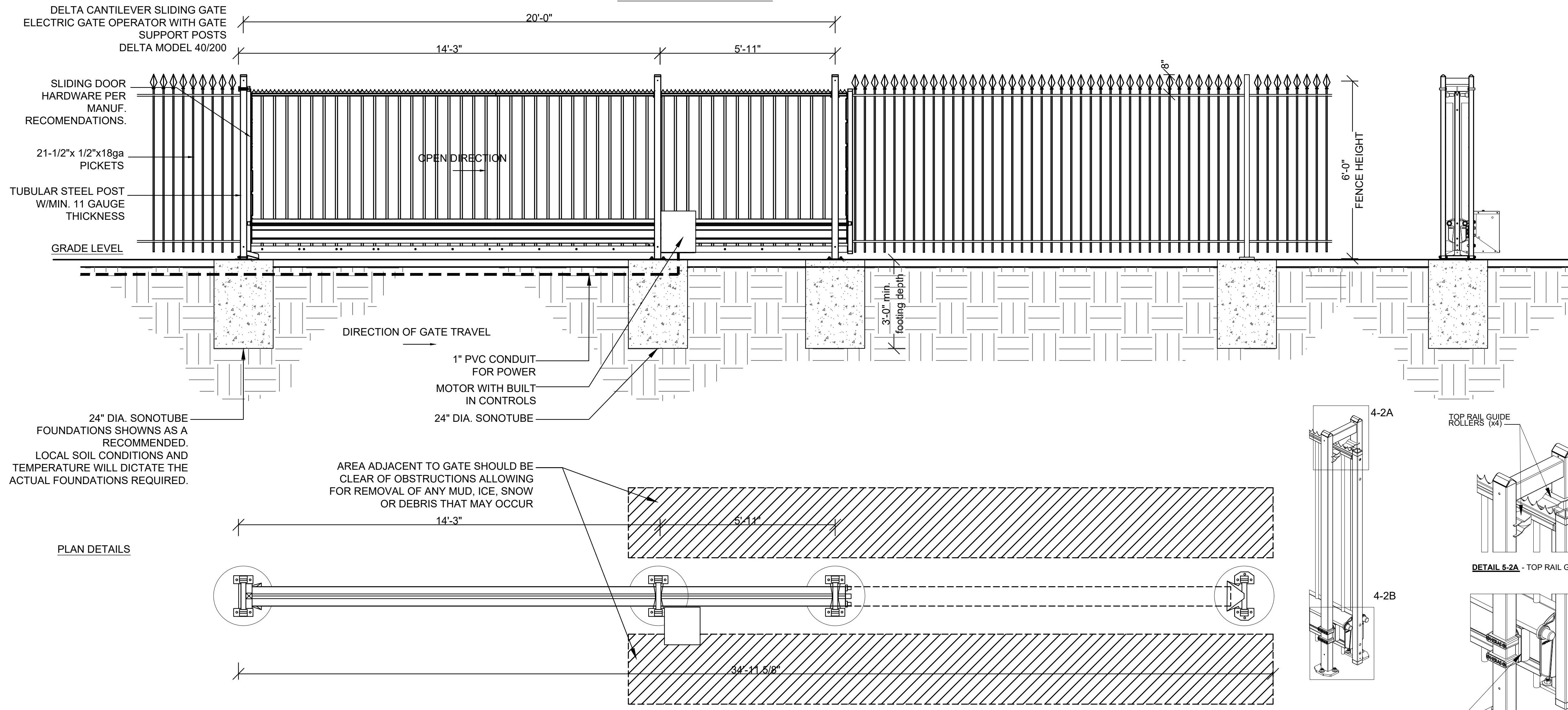
1 WROUGHT IRON FENCE ELEVATION

2 FENCE PIER SECTION

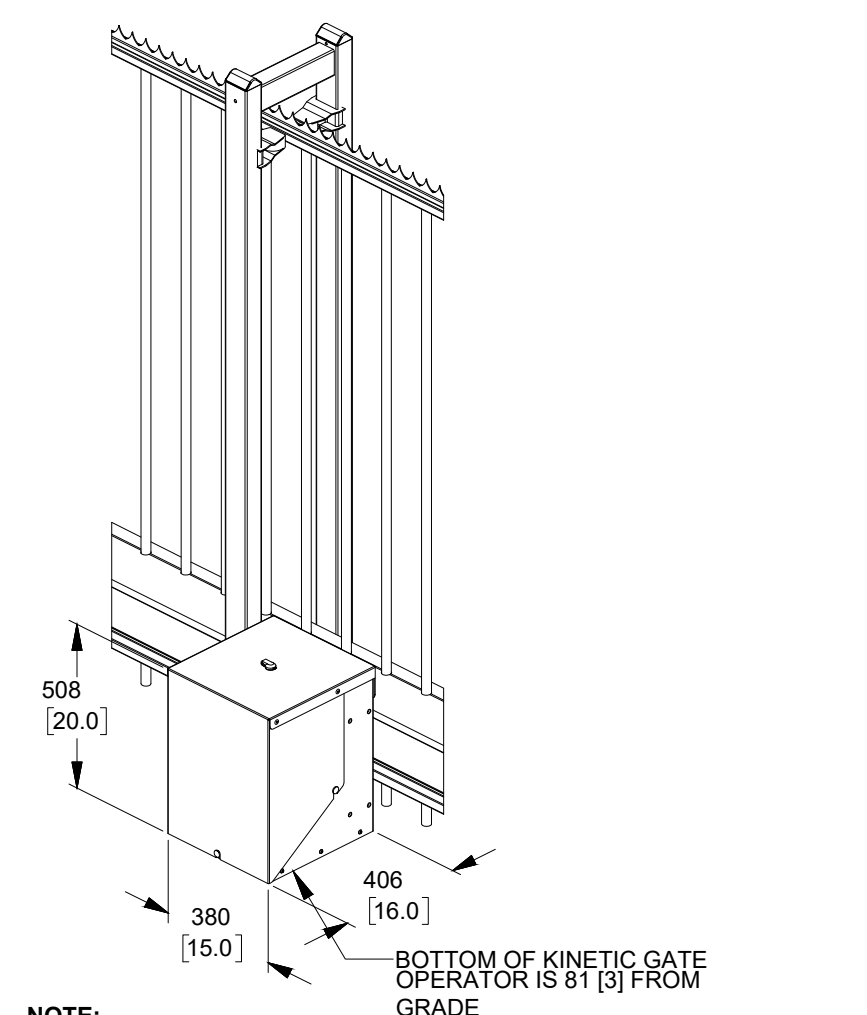
3 FENCE PIER PLAN AND ELEVATION

4 4' WIDE WALK GATE ELEVATION

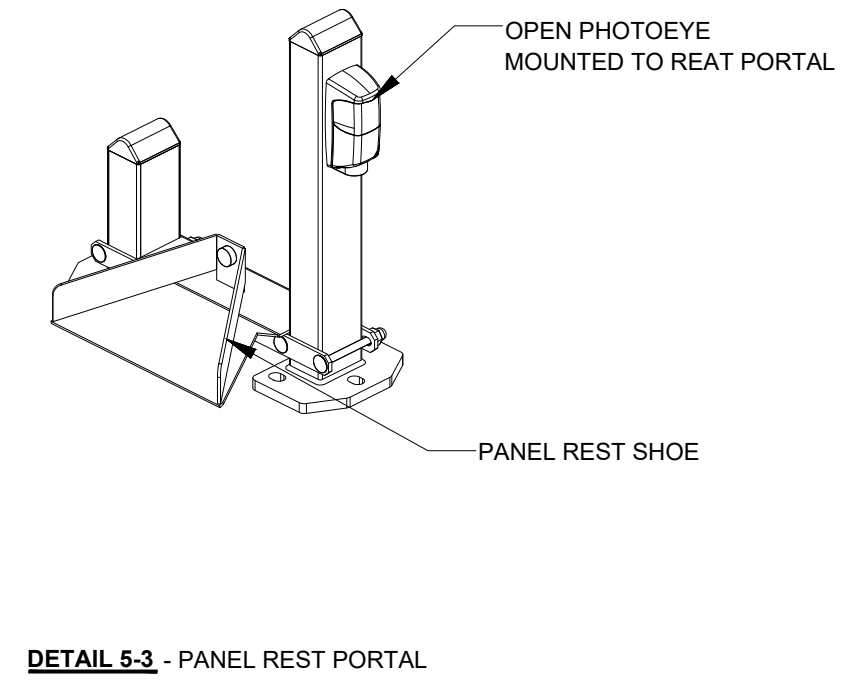
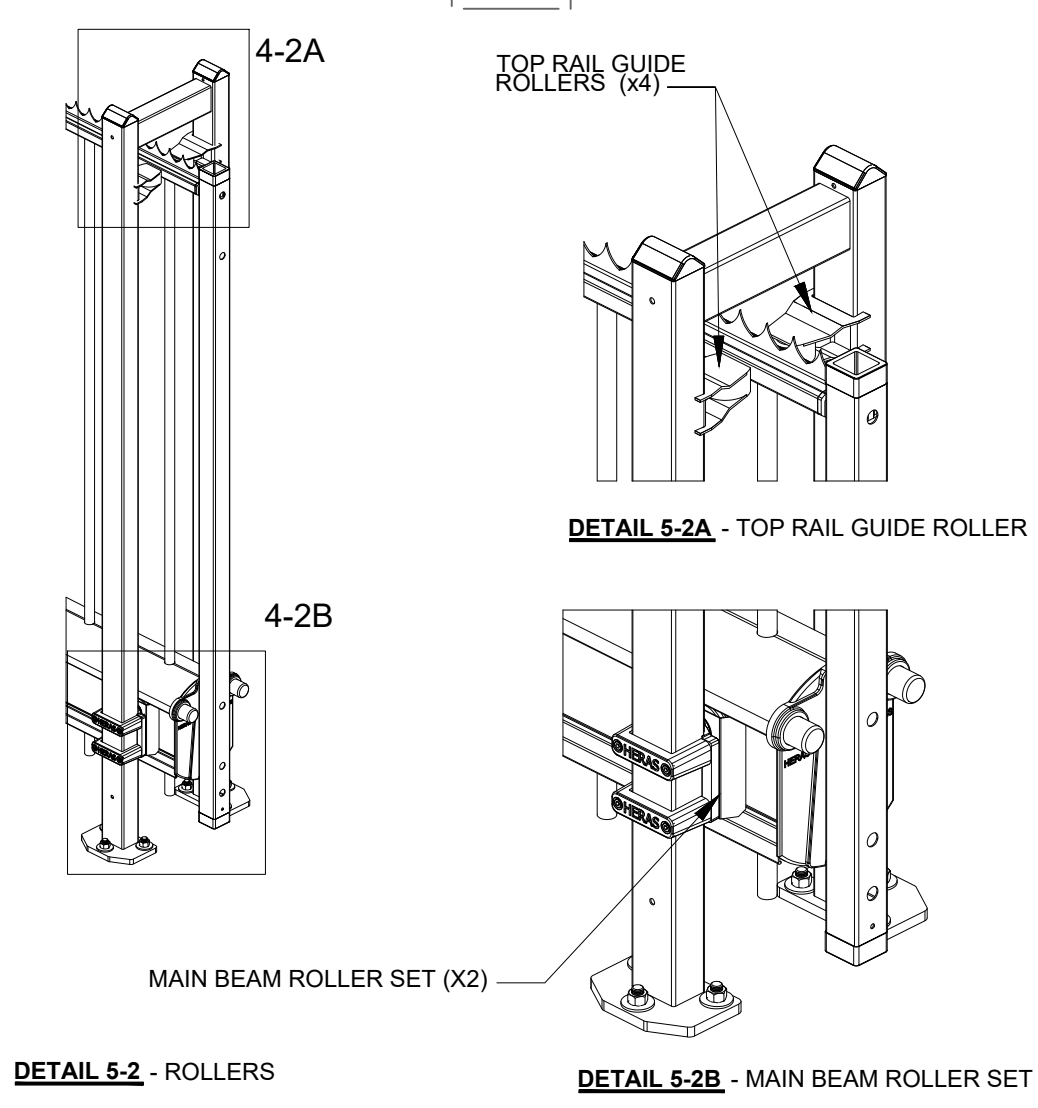
WROUGHT IRON DRIVEWAY SLIDING CANTILEVER GATE



PORTAL REACH THROUGH GUARDS DETAIL



NOTE: KINETIC GATE OPERATOR IS LOCATED ON THE SECURE SIDE OF GATE. GATE TRAVEL DIRECTION MUST BE SPECIFIED AT TIME OF ORDER TO DETERMINE CORRECT CONTROLLER LOCATION. REFER TO SHEET 2 FOR MORE INFORMATION.  
**DETAIL 5-1 - GATE CONTROLLER**



5 CANTILEVER SLIDING GATE DETAILS



SEAL  
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 NJ License # 18738  
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ASBURY PARK HOUSING AUTHORITY		
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STORM DOOR REPLACEMENT		
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Project Number: 23-1653		
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LUMLEY HOMES FENCE DETAILS		
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