



NEW YORK CITY DEPARTMENT OF CORRECTION

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February 25, 2015

**ADDENDUM # 3**

Re: PIN 072201440CPD for Roof Replacement at  
AMKC, Rikers Island.

Dear Prospective Bidders:

Pursuant to Section 3-02 (i) and 3-03 (f)(2) of the Procurement Policy Board (PPB) Rules, the Department of Correction (DOC) is issuing **Addendum #3** to 072201440CPD-Roof Replacement at AMKC, Rikers Island.

**BID DUE DATE**

Please be advised that the Bid Opening Date for the above referenced procurement remains **Tuesday, March 10, 2015 at 11:00A.M.**

**DEADLINE FOR CLARIFICATIONS**

The deadline for questions is **March 4, 2015** at close of business. The Department will endeavor to answer any questions received after this date, but there may not be sufficient time for replies to be received before the bid due date.

**ATTACHMENTS**

- Revised Detailed Specification pages C1-C149. Changes have been made to:
  - Section I. Introduction (paragraph C. Contract Type),
  - Section II. Scope of Work (paragraphs A.6, A.10, B.2, and D)
  - Section III. General Information and Requirements (paragraphs D. Time for Completion and M. Prompt Payment Procedure).
  - Section 013100 – Project Meetings
  - Section 013300 – Submittals
  - Section 017700 – Contract Closeout
- Revised Bid Sheets
- Schedule A
- T002 Plot Plan, Restoration Summary, with numerical quantities removed.
- A109 Roof Plan: K-Dormitory, with numerical quantities removed
- A110 Roof Plan: K-Dormitory, with numerical quantities removed
- A111 Roof Plan: K-Dormitory, with numerical quantities removed
- A113 Roof Plan: Building 1, Corridor 1, and Wing 1, with numerical quantities removed; and minor revision to roofing notes reference.

- A114 Roof Plan: Wing 3 and 4, with numerical quantities removed; and minor revision to roofing notes reference.
- A115 Roof Plan: Building 2, Corridor 2, and Wing 6, with numerical quantities removed; and minor revision to roofing notes reference.
- A116 Roof Plan: Corridor 3, 4, 5 & 6 and Wing 8, with numerical quantities removed; and minor revision to roofing notes reference.
- A117 Roof Plan: Building 4 and Wing 13, with numerical quantities removed; and minor revision to roofing notes reference.
- A118 Roof Plan: Wing 14 and Wing 15, with numerical quantities removed; and minor revision to roofing notes reference.
- A119 Roof Plan: Corridor 7 and 8, Office Unit 4 and Wing 16, with numerical quantities removed; and minor revision to roofing notes reference.
- A120 Roof Plan: Building 5 and Wing 17
- A121 Roof Plan: Wing 18 and 19, with numerical quantities removed; and minor revision to roofing notes reference.
- A122 Roof Plan: Wing 20, with numerical quantities removed
- A132 Roof Plan: Corridors 14, 15, and 15A, with numerical quantities removed
- A135 Roof Plan: Corridor at North Mods, with numerical quantities removed
- A302 Restoration Details: Flashing Details, with some revisions to detail FLA 02.
- Plan holder's list
- Prevailing Wage Schedule §220 – Updated January 5, 2015

## **QUESTIONS/CLARIFICATIONS**

Question 1. As mentioned in the pre-bid walk through there is no asbestos abatement required on this job but on drawing # DM 109, Roof demolition note # 1 states, "ACM shall be removed as per local, state and federal rules and regulations". Please advise if there is any abatement to be performed and if so, what is the quantity?

Answer: Testing of the roofing and flashing materials found no ACM present. The note is a general reference to standard procedure only, and is not applicable to the current scope of work defined by the contract documents.

Question 2. Detail SHM 01 shows copper leader and aluminum gutter - Is it an error or do we have to provide as shown?

Answer: For detail SHM 01, the reference to copper is incorrect; the leader should be aluminum to match the rest of the assembly.

Question 3. Is it true that the hub of the winged roofs is tapered concrete and the wings are flat concrete since detail FLA -06 & FLA-04 which is detail for Roof edge flashing: fascia at tapered slab which we interpret as slab to be tapered and insulation is not required to be tapered?

Answer: For clarification, the existing insulation at most areas was found to be a consistent thickness, meaning that the roof deck itself has a gentle slope to drain. The term "tapered" slab refers to a steeper slope that exists at the outside edge of the roof slab, pitching back toward the roof, which is reflected in the details. New insulation must meet thermal resistance requirements and the overall roofing system must be properly sloped to drain.

Question 4. The Table Restoration Summary list & Quantity Allowance list on drawing T002 does not match the attached Bid Sheet breakdown in the specification. Kindly advise.

Answer: Work items on the Drawings have been reconciled with Bid Sheet line items.

Quantities originally noted on the Drawings are not valid for bid estimation and have been removed from the documents. Bidders are responsible for formulating their own quantity takeoffs.

Question 5. Is there a plan holder's list or bidder's list available?

Answer: Plan holder's list is attached.

Question 6. What is the estimated project value?

Answer DOC will not disclose engineer's estimate at this time.

Question 7. It was observed that much of the roof on building 4 was already removed, yet the drawings indicate that there is a roof on the building that needs to be removed. How do we handle bidding the removal?

Answer: The prospective contractor's bid for roof removal and replacement at Housing Unit 4 shall be based upon the Bid Drawings. Areas that may have been subject to prior removal will be deducted and reconciled prior to awarding of the Contract.

**Please submit this addendum with your Bids.**

  
Deputy Agency Chief Contracting Officer

**I acknowledge receipt of this addendum.**

\_\_\_\_\_  
**Bidder/Company Name (Print)**

\_\_\_\_\_  
**Authorized Representative (Print Name)**

\_\_\_\_\_  
**Authorized Representative (Signature)**

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

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## **SECTION I            INTRODUCTION**

### **A.     Project Objective**

It is the objective of the Department of Correction, Division of Capital Policy and Development, to secure qualified Contractors to provide construction for Phase One of the Roof Replacement at the Anna M. Kross Center (AMKC) located at Rikers Island as hereinafter described in these Technical Requirements.

The work is to be conducted at:

Anna M. Kross Center (AMKC)  
Department of Correction  
18-18 Hazen Street  
East Elmhurst, New York 11370

The recipient of this Contract shall fully understand that it is of the utmost importance to the Department that the Work specified herein be completed within the time allotted.

The Contractor who is awarded the subject Contract shall furnish all labor, materials, equipment, paving, tools, implements, rigging, hoisting, shoring, cutting and patching, waste disposal, transportation, testing, utility surveys and protection necessary and/or required to complete all required rehabilitation and construction services as described in these Technical Requirements.

### **B.     Content of Technical Requirements**

The Technical Requirements consist of a cover, table of contents, project specification and drawings.

### **C.     Contract Type:**

The Contract work shall be carried out via a competitive sealed bid process. The award shall be made to the contractor after evaluation of the submitted responsive and responsible lowest bid cost for the complete requirement of the work items noted in the specifications and drawings. The Scope of Work has the following cost components:

#### GC / Roofing:

##### Demolition Work:

- a.     Remove existing roofing system in its entirety at areas indicated on the Drawings, including but not limited to membranes, insulation, cover

boards, flashings (incl. blocking & anchorage), expansion joints, and all related accessories. Remove approx. 4 courses brick masonry below wood blocking at roof edges.

- b. Remove existing guardrail at K-Dorm roof.
- c. Provide new openings for new roof drains at K-Dorm roof.
- d. Provide new opening for relocation of vent at K-Dorm roof.

Installation Work:

- e. Perform a survey of the existing roof elevations Signed and Sealed by a Land Surveyor Licensed in the State of New York.
- f. Install new SBS modified bitumen roofing system, including new roof insulation (work item identified as Architect's Restoration Code: **MEM 01**).
- g. Install new roof edge flashing: fascia (**FLA 02**), including brick removal & replacement as indicated on the details.
- h. Install new roof edge flashing: fascia at window assembly (**FLA 03**), including brick removal & replacement as indicated on the details.
- i. Install new roof edge flashing: fascia at tapered slab at office unit (**FLA 04**), including brick removal & replacement as indicated on the details.
- j. Install new flashing at housing wing setback (**FLA 05**), including grout work as indicated on the details.
- k. Install new roof edge flashing: fascia at tapered slab (**FLA 06**), including brick removal & replacement as indicated on the details.
- l. Install new perimeter flashing at existing roof hatches (**FLA 07**).
- m. Install new perimeter flashing at ventilator (**FLA 08**).
- n. Install new flashing at existing roof penetrations: pipe/railing (**FLA 09**).
- o. Install new flashing at existing roof penetrations: angles/dunnage (**FLA 10**).
- p. Install new perimeter in-wall flashing: brick (**FLA 12**), including brick removal & replacement as indicated on the details.
- q. Install new roof edge flashing: fascia at tapered slab at K-Dormitory (**FLA 16**), including brick removal & replacement as indicated on the details.
- r. Install new roof edge flashing: fascia at exterior stair (**FLA 17**), including brick removal & replacement as indicated on the details.
- s. Install new roof-to-roof expansion joints (**JNT 01**).
- t. Install new roof-to-wall expansion joints (**JNT 02**).
- u. Install new door saddle flashing and reset door saddle (**DOR 01**).
- v. Install new guardrail (**RAI 01**).
- w. Install new gutter/leader at exterior stair (**SHM 01**).
- x. Install new gutter/leader at roof edge (**SHM 02**).
- y. Install new downspout (**SHM 03**).
- z. Install new roof walkway pads.
- aa. Install new soffits for new and existing drains.
- bb. Install new soffit access doors.



- cc. Provide an allowance for brick veneer stabilization (**ANC 01**). Contractor shall provide a Unit Price per anchor for this item.
- dd. Provide an allowance for Concrete Spall repair: roof deck (**CON 01**). Contractor shall provide a Unit Price per square foot for this item.
- ee. Provide an allowance for removal and replacement of lintel masonry (approx. 8 courses) below the roof edge fascia work (**MAS 01**), including flashing and new steel lintels. Contractor shall provide a Unit Price per square foot for this item.
- ff. Provide an allowance for Sidewalk Protection. Contractor shall provide a Unit Price per square foot for this item.

Mechanical:

Demolition Work:

- gg. Remove existing fans with fan curbs and disconnect switch.
- hh. Profile exhaust air flow prior to demolition of the exhaust fans.

Installation Work:

- ii. Install new fan caps.
- jj. Install new exhaust fan with curb.
- kk. Rebalance exhaust system to profiled air flow.
- ll. Install new ductwork insulation (K-Dorm only).

Electrical:

Installation Work:

- mm. Connect new exhaust fan and disconnect switch to existing available power.

Plumbing:

Demolition Work:

- nn. Remove existing roof drains.

Installation Work:

- oo. Install new replacement roof drains on existing roughing (**DRN 01**).
- pp. Install new additional drains and piping to existing leaders at K-Dorm roof.
- qq. Relocate vent at K-Dorm roof.
- rr. Provide an allowance for cleaning out 25 feet of existing drain lines for each roof drain location. Contractor shall provide a Unit Price per drain location for this item.

**D. Quality Assurance**

1. The Contractor that is to be the recipient of this work must be fully qualified, having all licenses required by all agencies having jurisdiction over the work required under this Contract, and must have prior documented experience of

having satisfactorily completed work of similar scope and magnitude to that specified herein for at least three (3) years.

2. Workmanship and Material (General)

Where any material or construction is required for the completion of the Contract, but the sizes of the material or the kinds of material are not clearly indicated or specified, they shall be of the size and kind required in the best interest of the City and as approved by the DOC Engineer.

The Contractor shall furnish and install all special construction that will be necessary to meet any unusual conditions as though specifically called forth herein.

All materials are to be of the best quality of their respective kinds and in ample quantities. Workmanship is to be of the best grade in every respect and all work must be executed in the best, most thorough, substantial and workmanship like manner.

Only persons experienced in their respective trades, and holding all necessary licenses as applicable, shall be employed in this work.

Any unfaithful or imperfect work or materials discovered shall be removed and corrected immediately after being condemned, and other work and materials furnished satisfactory to the Department at the Contractor's expense.

All materials furnished shall be entirely new, of the best grade and quality, free from defects and entirely satisfactory for the purpose intended.

**E. Start Work Date**

The Contractor shall begin work on the date instructed on the "Order To Work" from the Department. The start of work shall be coordinated with the Department of Correction Construction Management Unit Representative.

**SECTION II SCOPE OF WORK**

**A. CONSTRUCTION SERVICES**

After obtaining the required construction permits and approvals, the Contractor shall proceed with the Work. The Contractor shall observe the following requirements while carrying out the construction work.

1. The Contractor shall provide all materials, labor, tools, appliances necessary to complete all work required for the Anna M. Kross Center (AMKC) located at Rikers Island as noted in the Technical Requirements and as required by jurisdictional agencies.
2. Asbestos Requirement: The Contractor shall notify DOC of any suspected asbestos contaminated areas encountered during the course of the site investigation. The Contractor is not responsible for any asbestos investigation or abatement work. The DOC will perform an asbestos investigation and abatement (if needed) of the involved areas prior to the Contractor beginning work in those areas.
3. Safeguards: The Contractor shall provide during the performance of the work, and in accordance with OSHA and all other applicable regulations, proper safeguards at the worksite for the prevention of any accidents, injury, or damage to persons or property.
4. Removal of Debris: The Contractor shall remove from Rikers Island and legally dispose of all debris resulting from the work required under this Contract. This shall include: construction debris, demolition debris, excavated soils, packaging, etc. Regarding site cleanliness, at the end of each workday the site shall be left in a condition which is acceptable to the Department.
5. Utilities: The Contractor shall be permitted to utilize the 120 volt electric supply at Rikers Island, if available. However, the Contractor shall be responsible for providing all necessary extensions, switches, etc. to facilitate the usage of such electric power.

Regarding water for site work, the Contractor shall provide and utilize at its own expense, fresh water of a non-potable grade.

The Contractor shall be responsible for providing all other utilities not noted herein, including compressed air, generator power, etc. as required to fulfill the requirements of the Contract.

The Contractor shall provide temporary sanitary facilities for the Contract workers.

6. Daily work schedule: Normally, work is performed at Rikers Island, Monday through Friday between the hours of 7AM to 3 PM. [The contractor should anticipate some limited downtime for DOC's security check at the beginning](#)

and end of the workday and on other non-specified periodic occasions.

However, arrangements can be made as needed to permit the Contractor to work extended hours on-site. Note that the Contractor may work overtime to complete the project within the time allotted. However, there shall be no extra payment by the City for overtime differential wages. The shutdowns for this work shall be nights and weekends with prior arrangements with the facility.

7. Prior to beginning construction, the Contractor shall carefully lay out all its work. Where cutting, channeling, chasing, excavating and backfilling or drilling is necessary for the proper installation; support or anchorage of the Work specified under this Contract; the Work shall be carefully done by the Contractor. All cutting and patching shall be restored, by this Contractor, to no less than its former condition after the required installation.
8. Covering of Work: No device or other work of any kind shall be covered or hidden from view before it has been examined or approved by the engineer, architect, and/or other authority having jurisdiction over the same. Any unfaithful or imperfect work or materials discovered shall be removed and corrected immediately after being condemned and other work and materials furnished satisfactory to DOC.
9. Painting: All exposed piping, steel hangers, and supports are to be painted: primed and finish coated.
10. The Contractor shall be responsible for: work and equipment until finally inspected, tested, and accepted by DOC; protecting work against theft, injury or damage; carefully storing material and equipment received on-site which is not immediately installed; closing open ends of work with temporary covers or plugs during construction to prevent entry of obstructing material. Once demolition has begun on any area, the Contractor shall provide temporary protection against leaks or damage from rainfall. The protection must be maintained until the new installation is fully completed and secured. The Contractor shall demolish at any time only quantities that he can secure and protect from rainfall.
11. Protection of Property: The Contractor shall be responsible for the preservation of all public and private property, along and adjacent to the work, and shall use every precaution necessary to prevent damage or injury thereto. The Contractor shall use suitable precautions to prevent damage to pipes, conduits and other underground structures or utilities, and shall carefully protect from disturbance or damage all property marks until an

authorized agent has witnessed or otherwise referenced their location, and shall not remove them until so directed by the Department.

Any damages to public or private property resulting from the work of the Contractor shall be repaired by the Contractor at no additional cost to the City. If such damages are not repaired by the Contractor forthwith, then the City shall employ other means to repair the damages, and the Contractor shall be held responsible for all associated costs incurred by the City in facilitating the repairs.

12. Coordination of utility connections: The scheduling of all connections to existing Rikers Island utilities shall be coordinated with, and approved in advance by DOC.
13. The Contractor shall be required to conduct its activities in accordance with the "Special Conditions, Transportation of heavy material across Rikers Island Bridge and DOC Security Regulations". These special conditions are included in the boilerplate of this Contract.
14. Construction Progress Meetings: The Contractor is required to be represented at all construction progress meetings by personnel possessing full knowledge of the project. The frequency and scheduling of the meetings shall be determined by DOC, but shall occur no less than four times each month for the duration of the project.
15. Site Responsibility: The Contractor shall be responsible for work and equipment until finally inspected, tested, and accepted; protecting work against theft, injury or damage; and carefully storing material and equipment received on-site which is not immediately installed. The Contractor shall close open ends of work with temporary covers or plugs during construction to prevent entry of obstructing material.

The Contractor shall be fully responsible for all construction site health and safety. The Contractor shall be fully responsible for securing the work site in order to protect vehicular and pedestrian traffic in the vicinity. The Contractor shall observe all safety regulations of the Department of Transportation (DOT) and OSHA when working in vehicle-accessible streets on Rikers Island.

16. Operations of Others: During the time that the Contractor is performing the Contract, other trade contractors (electrical, mechanical, general contractors, etc.) will be engaged in other operations on or about the site, including vehicular traffic which shall remain uninterrupted.

The Contractor shall so plan and conduct its operations as to work in harmony with others engaged in the area of the site and not to delay, endanger or interfere with the operations of others, all in the best interests of the City and the public and as may be directed by the Engineer.

No portion of the Rikers Island infrastructure systems, including but not limited to, gas distribution, storm sewer, sanitary sewer, potable water, steam, electric power, may be interrupted or curtailed by the Contractor without prior approval of the Department of Correction for the specific systems and time periods involved.

17. Interference: If the Contractor installs work so as to cause interference with the work of other trades or the normal operation of the facility, the Contractor shall make the necessary changes in its work to correct the condition, at no extra cost to the Department.

## **B. Materials and Required Submissions**

1. All materials installed by the Contractor shall be new, of good quality, and suited for their intended applications in accordance with the requirements of all jurisdictional agencies, the requirements of the Technical Specifications, and the generally accepted practices of the industry.
2. Prior to beginning construction, the Contractor shall make all required submittals as noted in the 'SUBMITTALS' sections of the individual sections of the Technical Specifications. [The Contractor shall provide to CMU samples \(approved\) of all items that are to be installed. These are samples in addition to those submitted for approval.](#)

For material items which are not specifically identified in the Technical Specifications, but which are required components of the subject systems, the Contractor shall be required to submit catalog cuts of the proposed items to the Department of Correction for approval. The Contractor shall not proceed with the purchasing and installing of material items which have not been approved by DOC. Additionally, cost data for the items shall be provided at the time of submission of each catalog cut.

3. The Contractor is not to proceed with the installation of materials without the written approval of the DOC. If any such materials are rejected by the DOC, the Contractor is to resubmit an alternate plan until approval is obtained.

4. To substitute another material for one after it has been approved, a written request must be submitted to the Department's project manager or engineer along with descriptive literature for the parts or materials which the contractor wishes to substitute for those previously approved. Only upon receiving written approval of the latter submission from the Department may the Contractor proceed to install the substituted item.

**C. Construction Phasing**

Prior to beginning the Work, the Contractor shall coordinate construction phasing with the Department's Construction Management Unit project manager or engineer. All construction phasing shall be subject to the approval of the Construction Management Unit.

“K Dormitory” shall receive first priority.

**D. Daily Work Logs**

During the course of the construction, the Contractor shall coordinate its daily work assignments with the DOC Construction Management Unit. In addition, daily work logs shall be kept for all work done by the Contractor and copies submitted to CMU no later than the following day.

**E. Construction Staffing**

All Contractor and Subcontractor staff shall have expertise in their respective areas of work. All Contractors/Subcontractors conducting work on this Project shall hold all licenses required by jurisdictional agencies necessary for performing the Contract work in which they are engaged or equivalent education and experience qualification.

**SECTION III                      GENERAL INFORMATION AND REQUIREMENTS**

**A. Pre-Bid Conference and Site visit**

A Pre-Bid site visit shall be conducted with the Contractor at the site of the proposed work and the contractor shall note all conditions that affect the work to be done at the time of the pre-bid site visit.

**B. Review of Contract Documents and Site**

The Contractor shall acknowledge that it has examined the Specifications and site, and that from its own investigations it is satisfied as to the nature and location of the Work; the general and local conditions, particularly those bearing upon transportation, disposal, handling and storage of materials; availability of labor, water, electric power, roads and certainties of weather; the character of equipment and facilities needed preliminary to and during the execution of the Work; all federal, state, county, and municipal laws, ordinances and regulations, particularly those relating to employment of labor rates of wages, and construction methods; and all other matters which can in any way affect the Work or the cost thereof under this Contract. Any failure by the Contractor concerning these conditions will not relieve it from the responsibility for estimating properly the difficulty or cost of successfully performing the work.

**C. Representations**

DOC assumes no responsibility for any understanding or representation made during or prior to any negotiation and execution of this Contract unless such understanding or representation is expressly stated in the Contract and the Contract expressly provides that the responsibility is assumed by DOC.

**D. Time for Completion**

The Contractor shall complete all work required or specified by 548 CCDs from order to work date. The Contractor shall be solely responsible for making the required submittals and receiving the necessary approvals on a timely basis.

Once the work has begun, the Contractor shall make every reasonable effort to ensure that the work proceeds to completion without interruption or unnecessary delay.

**E. Conformance to Requirements**

1. All work shall be conducted in accordance with the requirements of the NYC Building Code and all other agencies having jurisdiction. This shall include, but not be limited to, requirements for materials, installation procedures, and system/equipment tests.
2. All persons performing work on this project shall hold all appropriate licenses and permits as required by the NYC Department of Buildings and all other agencies having jurisdiction.

**F. Discrepancies**



Should any discrepancies be found between the field conditions and/or Contract documents, the Contractor shall be required to follow that which will result in a better installation. The Department of Correction's Engineer shall be the sole judge of what shall constitute the better installation.

## **G. Definitions**

The following definitions are to apply to all sections of the Contract documents in their entirety:

"Commissioner" means the Commissioner of the Department of Correction, or any of her representatives.

"CCD" means consecutive calendar days.

"Contractor" means the entity which is the recipient of this Contract or any of that Contractor's agents.

"Department" means the Department of Correction, or any of its representatives.

"DOC" refers to the Department of Correction.

"Engineer" refers to any of the Department of Correction's engineering project manager.

"Engineering Unit" refers to the Engineering Unit of the Department of Correction Division of Capital Policy and Development.

"OTW" means "Order To Work"; the date on which the Contractor is given a written directive by the Department to proceed with the project.

"Project" means the Work required under this Contract in its entirety.

"Provide" means purchase and/or manufacture, deliver and install in an acceptable manner.

"Replace" means remove subject item(s) and install new, similar item(s), as required, in approximate same location.

"Supply" has the same meaning as "provide".

"Vendor" means the entity which is the recipient of this Contract or any of that party's agents.

## **H. Liability for Damage**

The Contractor shall be responsible for the preservation of all public and private property, along and adjacent to the Work, and shall use every precaution necessary to prevent damage or injury thereto. The Contractor shall use suitable precautions to prevent damage to pipes, conduits and other underground structures or utilities, and shall carefully protect from disturbance or damage all property marks until an authorized agent has witnessed or otherwise referenced their location, and shall not remove them until directed to do so by the Department.

Any damage to public or private property resulting from the work of the Contractor shall be repaired by the Contractor at no additional cost to the City. If such damage is not repaired by the Contractor forthwith, then the City shall employ other means to repair the damages, and the Contractor shall be held responsible for all associated costs incurred by the City in facilitating the repairs.

## **I. Liquidated Damages**

In the event the Contractor shall fail to complete the work within the term of the contract, plus authorized time extensions, or if the Contractor, in the sole determination of the Commissioner, has abandoned the work, the Contractor must pay to the city the amount of \$500.00 (Five Hundred Dollars) for each day and part thereof that completion of the work exceeds the time allowed.

## **J. Guaranty-Warranty**

The Contractor shall guarantee its work, free of defects in materials, installation and operation (excluding routine maintenance) for a period of two (2) years after completion of the work. During this period the Contractor shall replace any such defective materials promptly and free of charge to the Department.

## **K. Deviation from Scope of Work**

If, for any reason, the Contractor has cause to believe that work in addition to that specified herein is required to put any or all of the subject systems in satisfactorily operating condition, then the Contractor is to notify the Engineer of the work entailed and the reason the Contractor believes such additional work is required. The Contractor is to proceed with the additional work only if written direction from the Department is provided. The written direction must be in the form of an approved change order.

The Contractor is to note that all work performed under this Contract, including additional change order work, is subject to audit by the City.

## **L. LABOR LAW**

### **1. Compliance**

The Contractor and any Sub-Contractors must comply strictly with all applicable provisions of the New York State Labor Law, including but not limited to Section 220 thereof with respect to the payment of prevailing rates of wages as amended and supplemented.

The Contractor or Sub-Contractor shall not have work performed or labor or means employed in the carrying out of this Contract that would in any manner cause or result in a suspension or delay of, or strike upon the work to be performed hereunder of any of the trades performing in or about other buildings or premises of the City of New York.

Failure to comply with these conditions shall place the Contractor in a default on this Contract. Upon notification of such default, the Contractor shall cease all work under this Contract. The City may then proceed to complete the work under the Contract, charging the Contractor with any loss or additional costs it may suffer by reason of such default.

### **2. Labor Law Provisions**

The Contractor and any Sub-Contractor shall not employ on the work:

- a. Anyone who is not competent, faithful and skilled in the work for which he/she shall be employed, and whenever the Commissioner shall inform the Contractor in writing that an employee is, in his/her opinion, incompetent, unfaithful or disobedient, such employee shall be discharged from the work forthwith and shall not again be employed on this contract.
- b. Any labor, materials or means whose employment, or utilization during the course of this Contract, may tend to or in any way cause or result in strikes, work stoppages, delays, suspensions of work, or similar troubles by workers employed by the Contractor or any Sub-Contractors, or by any of the trades working in or about the buildings and premises where the Work is being performed under this Contract, or by other Contractors, or their Sub-Contractors pursuant to other contracts, or on any other building or premises owned or operated by the City of New York, its agencies, Departments, boards or authorities. Any violation by the Contractor of these requirements

may, upon certification of Engineer to the Commissioner, be considered as proper and sufficient cause for declaring the Contractor to be in default and for the City to take action against him as set forth in the Contract, or such other action as the Commissioner may deem proper.

#### **M. PROMPT PAYMENT PROCEDURE**

1. The prompt payment provisions set forth in the Procurement Policy Board Rules in effect at the time of this solicitation shall be applicable to payments made under a Contract resulting from this solicitation.
2. Partial Payments: The Contractor shall be entitled to monthly partial payments for completing specified portions of the work. Monthly partial payments shall be payable upon completion of the various parts of the project as shown on an approved Construction Payment Schedule submitted by the vendor at the beginning of the Project and as approved by the Department.
3. Invoicing for Payments: To request payment for construction services the Contractor shall submit all invoices to the Director of the DOC Construction Management Unit. All requests for payment must be accompanied by invoices and must include audit-compliant paper work which may be required by the Department's Engineering Audit Officer.
4. Final Payment: After approval and acceptance by the Department of the work, any remaining balance of the not-to-exceed lump sum cost(s) (except for the cost of items deleted from the Contract work) shall become due and payable to the Contractor and shall constitute the Final Payment under this Contract. Monies retained from partial payments shall be released upon completion of the work as part of the Final Payment, as approved by the Department.

In order to receive final acceptance of the required work and final payment for the same under the Contract, **THE CONTRACTOR MUST FIRST OBTAIN THE WRITTEN APPROVAL OF THE PERTINENT CODE ENFORCEMENT AGENCIES FOR THE WORK AND FULFILL ALL PENDING WORK AS REQUIRED BY THE CONTRACT DOCUMENTS.**

**000150**  
**LIST OF DRAWINGS**

**1.01 DRAWINGS**

- A. The Contract Drawings, which accompany this solicitation document and form a part of the Contract Documents, are listed on the Title Sheet of the Drawings.
  
- B. The drawings for related contracts are listed on the Title Sheet for reference only. Examine the drawings for related contracts to ascertain the relationship of the Work to the related contracts.

**END OF LIST**

**SECTION 013100**  
**PROJECT MEETINGS**

**PART 1 GENERAL**

**1.01 INITIAL JOB MEETING**

- A. NYCDOC's representative will notify all parties concerned of the time and place of the initial job meeting.

**1.02 CONSTRUCTION PROGRESS MEETINGS**

- A. Progress meetings shall be held as often as every two (2) weeks at a time and place agreed upon by DOC'S Representative as per Section II, A: Construction Services. Other interested parties may attend when needed, e.g., subcontractors and representatives from suppliers, public utilities, and local government.
- B. The meetings will be conducted by DOC'S Representative for the following purposes:
  - 1. Review job progress, quality of Work, and approval and delivery of materials.
  - 2. Identify and resolve problems which impede planned progress.
  - 3. Coordinate the efforts of all concerned so that the project progresses on schedule to on time completion.
  - 4. Maintain a sound working relationship between the Contractor and DOC'S Representative and a mutual understanding of the project requirements.
  - 5. Maintain sound working procedures.

**1.03 PRE-INSTALLATION MEETINGS**

- A. Pre-installation meetings will be held to review the specifications, drawings and approved submittals in preparation for start of a particular activity.
- B. The meetings shall be attended by NYCDOC'S Representatives and the Contractor's Representative including installer and representatives of manufacturers & fabricators involved in or affected by the installation and its coordination with other materials/trades.
- C. NYCDOC'S Representative shall schedule the meetings prior to the start of the work. The goal of these meetings is to ensure the quality of construction and to maintain the schedule.

#### **1.04 ATTENDANCE**

- A. A Contractor's Representative shall be required to attend all meetings scheduled by NYCDOC'S Representative.
- B. The Contractor's Representative shall be a competent supervisor familiar with the work and have authority to act for the Contractor.
- C. If the Contractor's Representative fails to attend 2 scheduled meetings without prior approval, the Contractor will be directed to replace the current Contractor's Representative. Further incidents of non-attendance by the Contractor's Representative, will form the basis for review of the Contractor's responsible bidder status.

**END OF SECTION**

**SECTION 013300**  
**SUBMITTALS**

**PART 1 GENERAL**

**1.01 RELATED REQUIREMENTS SPECIFIED ELSEWHERE**

- A. Other requirements pertaining to submittals are included in the General Conditions and in various sections of the Specifications.

**1.02 DEVIATIONS FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS**

- A. If, for any reason, the Contractor has cause to believe that work in addition to that specified herein is required to put any or all of the subject systems in satisfactorily operating condition, then the Contractor is to notify the Engineer of the work entailed and the reason the Contractor believes such additional work is required. The Contractor is to proceed with the additional work only if written direction from the Department is provided. The written direction must be in the form of an approved change order.

The Contractor is to note that all work performed under this Contract, including additional change order work, is subject to audit by the City.

**1.03 SUBSTITUTIONS**

- A. Whenever a product is specified by brand name, a substitute brand, equal to that named, may be submitted for approval subject to the requirements under Section II, B: Materials and Required Submissions.

**1.04 SHOP DRAWINGS**

- A. Submit 6 copies of each shop drawing required by the Specifications. Show the information, dimensions, connections, and other details necessary to insure that the shop drawings accurately interpret the Contract Documents. Show adjoining construction in such detail as required indicating proper connections. Where adjoining connected construction requires shop drawings or product data, submit such information for approval at the same time so that connections can be accurately checked.
- B. The shop drawings will be reviewed and 2 stamped copies returned. If returned copies are stamped “DISAPPROVED” or “RETURNED FOR



CORRECTION”, promptly resubmit 6 copies of shop drawings meeting Contract requirements.

### **1.05 PRODUCT DATA**

- A. Submit 6 copies of each item of product data required by the Specifications. Modify product data by deleting information that is not applicable to the project or by marking each copy to identify pertinent products. Supplement standard information, if necessary, to provide additional information applicable to the project.
- B. The product data will be reviewed and 2 stamped copies returned. If returned copies are stamped “DISAPPROVED” or “RETURNED FOR CORRECTION”, promptly resubmit 6 copies of product data meeting Contract requirements.

### **1.06 PAYMENT SUBMITTAL**

- A. Prepare and submit an application for payment as directed by DOC-Construction Management Unit. Payments will be made based on the determination of percentage of Work completed unless otherwise directed by NYCDOC’S Representative and/or the Contracting Officer.

### **1.07 SUBMITTAL REQUIREMENTS**

- A. Identify all submittals by project title and number. Include Contractor’s name, date, and revision date. On shop drawings, product data, and samples, also include name of supplier and subcontractor (if any), and applicable specification section number. Stamp each submittal and initial or sign the stamp to certify review and approval of submittal.
- B. If a submittal is based on, or the result of, a change order or field order to the Contract documents include copies of applicable change order or field order with the submittal.

- C. Transmit each submittal to both
  - Mr. Hardee Saini  
Department of Correction  
75-20 Astoria Boulevard, Suite 160  
East Elmhurst, NY 11370
  - Mr. Andrew Bowie  
NYCDOC Construction Mgt. Unit  
640 Mandanici Rd, Rikers Island  
East Elmhurst, NY 11370

Enclose an original and two copies of transmittal letter with each submittal.

- D. Send one additional copy of each transmittal letter to NYCDOC'S Representative at the site.

**END OF SECTION**

**SECTION 014000**  
**QUALITY REQUIREMENTS**

**PART 1 - GENERAL**

**1.01 Summary**

- A. This Section includes administrative and procedural requirements for the following:
  - 1. Qualifications of entities involved in the Project.
  - 2. Regulatory requirements, industry standards, and utility requirements.
  - 3. Quality control tests and inspections.
  
- B. Comply with Section 014339 (Mockups and Physical Quality Assurance Aids) for physical quality assurance aids.

**1.02 Definitions**

- A. Quality Assurance Terms:
  - 1. Experienced: When used with an entity, "experienced" means having a minimum of three (3) consecutive years experience of successfully completing previous projects similar in size and scope to this Project; being familiar with special requirements indicated; and having complied with requirements of authorities having jurisdiction. Where applicable, for historical restoration Work, such previous projects must have involved facilities determined by the authorities to be of landmark quality and/or of historical significance.
  - 2. Qualified Installer: A firm or individual (e.g., tradesperson) experienced in installing, applying, erecting, or assembling work similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance. Where required by authorities having jurisdiction, installer shall also be duly registered, licensed, approved, certified, and qualified, as applicable (e.g., licensed electricians, welders, riggers, etc.).
  - 3. Qualified Specialist: An experienced firm or individual recognized as an expert in the specific activity or service for which they shall be engaged (e.g., site safety, etc.). Where required by authorities

having jurisdiction, specialist shall also be duly registered, licensed, approved, certified, and qualified, as applicable.

4. **Qualified Fabricator:** A firm experienced in fabricating products similar to those indicated for this Project, with a record of successful in-service performance, and sufficient production capacity to fabricate the required quantity without delay to the Project construction schedule. Where required, fabricator shall also be approved by authorities having jurisdiction.
5. **Qualified Manufacturer:** A firm experienced in manufacturing products or systems similar to those indicated for this Project, with a record of successful in-service performance, and sufficient production capacity to manufacture the required quantity without delay to the Project construction schedule. For warranted systems, manufacturer must provide and maintain a warranty for the specified system as indicated in the individual Specification Sections.
6. **Qualified Professional Engineer:** A professional engineer who is licensed to practice in jurisdiction where Project is located and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of the system, assembly, or products that are similar to those indicated for this Project in material, design, and extent.
7. **Qualified Testing Agency:** A nationally recognized testing laboratory (NRTL) according to 29 CFR 1910.7, or a testing agency accredited according to NIST's National Voluntary Laboratory Accreditation Program (NVLAP), or an independent agency with the experience and capability to conduct the testing and inspections indicated, as documented according to ASTM E 329. Testing agency shall also meet additional qualifications where required by the individual Specification Sections, or by authorities having jurisdiction. "Qualified Testing Laboratory" or "Qualified Inspection Agency" shall mean the same as "Qualified Testing Agency."
8. **Manufacturer Approved Installer:** For warranted products and systems, the qualified installer shall also be approved by manufacturer for warranted installation of the specified products. Installer shall be credentialed by manufacturer for installation of specified products where such credentials are available.
9. **Manufacturer's Authorized Representative:** An authorized representative of manufacturer who is technically trained and approved by manufacturer to test, inspect and certify installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.

- B. Quality Control Terms:
1. Performance Requirements: Design criteria (e.g., structural loads, wind loads, etc.), tests (e.g., anchor pull out tests, sealant adhesion, etc.) and inspections specified to ensure that products and assemblies incorporated in the Work perform as intended. The individual Specification Sections indicate specific performance requirements.
  2. Source Quality Control Testing: Tests and inspections that are performed at the source (i.e., plant, mill, factory, or shop) to verify performance and compliance with specified requirements.
  3. Product Testing: Tests and inspections that are performed by a qualified testing agency to establish product performance and compliance with specified requirements and industry standards.
  4. Pre-construction Testing: Tests and inspections that are performed specifically for the Project before products and materials are incorporated in the Work to verify performance and compliance with specified requirements.
  5. Field Quality Control Testing: Tests and inspections that are performed on-site for installation of the Work and for completed Work to verify performance and compliance with specified requirements.
  6. Special Inspections: Tests and inspections required by authorities having jurisdiction including, but not limited to, those listed on the Drawings.

### 1.03 Submittals

- A. Qualification Submittals: Proof of specified qualifications.
1. Installer Qualifications (On-demand).
  2. Specialist Qualifications (On-demand).
  3. Fabricator Qualifications (On-demand).
  4. Manufacturer Qualifications (On-demand).
  5. Manufacturer Approved Installer Credentials (On-demand).  
Manufacturer's certification, or installer credentials, indicating that installer is approved for warranted installation of specified products and systems.
  6. Testing Agency Qualifications (On-demand). In the form of a recent report on the inspection of the testing agency by a recognized authority demonstrating their capabilities and experience.
- B. Permits, Licenses, and Certificates: For Owner's records, submit copies of permits, licenses, certifications, inspection reports, releases, jurisdictional

settlements, notices, receipts of fees payments, judgments, correspondence, records, and similar documents, established for compliance with standards and regulations bearing on performance of the Work.

#### **1.04 Qualifications of Entities Involved in the Project**

- A. Contractor and all entities engaged by the Contractor (e.g., employees, subcontractors, testing agency, etc.) for involvement in the Project shall meet the minimum qualifications for their respective roles (e.g., qualified installer, qualified testing agency, etc.) as established in the Definitions article above. Additional qualification requirements may be indicated in the Contract Documents.

#### **1.05 Regulatory Requirements and Industry Standards**

- A. Comply with the latest applicable laws, codes and requirements of all authorities having jurisdiction without delay.
  - 1. Meet all license and registration requirements as applicable.
  - 2. File all required certificates (e.g., insurance certificates, etc.).
  - 3. File all plans (e.g., site safety plan, etc.), except for those explicitly indicated as Owner's responsibility. Refer to Drawing notes.
  - 4. Obtain all permits, approvals, and certificates.
  - 5. Maintain a complete set of applications and Drawings, approved by authorities, at the Project site. Post copies of documents (e.g., licenses, permits, etc.) in a conspicuous place, as applicable.
  - 6. Arrange for all tests and inspections for each element of construction, temporary facility, and permanent facility, when (e.g., before use, etc.) and as required.
  - 7. Pay all applicable fees and expenses, except for those explicitly indicated as the Owner's responsibility. Refer to Drawing notes.
  - 8. Remove any violations issued by authorities related to Contractor's operations. Contractor is solely responsible for payment of penalties and fees resulting from and related to the removal of these violations.
- B. Comply with industry standards and the best trade practices.

#### **1.06 Utility Company Requirements**

- A. Comply with requirements of all utility companies (e.g., water, gas, electric, sanitary waste, storm drainage, telephone, cable, etc.), as applicable.

## **1.07 Conflicting Requirements**

- A. In the event of conflict between or among parts of the Contract Documents, the more expensive way of doing the Work, the better quality or greater quantity of material shall govern. Refer all such conflicts to the Architect for a decision before proceeding.

## **PART 2 - PRODUCTS (NOT USED)**

## **PART 3 - EXECUTION**

### **3.01 Tests and Inspections**

- A. General:
  - 1. All Work, all products, whether or not incorporated in the Work, and all processes of manufacture, shall be subject to inspection and testing by the Owner and Architect at all times and at all places. If inspection or testing results indicate, at the sole discretion of the Architect, that any Work, products or processes of manufacture do not meet the requirements of the Contract Documents, the Architect will have the right to reject same as defective Work.
  - 2. Test and inspection requirements include, but are not limited to, those specified in the Contract Documents.
  - 3. Special Inspections: Comply with requirements for special inspections by all authorities having jurisdiction including, but not limited to, those listed on the Drawings.
  - 4. Specified tests, inspections, and related actions do not limit the Contractor's other quality assurance and quality control procedures that facilitate compliance with the Contract Document requirements.
- B. Owner Responsibilities: Where test and inspection services listed in the Contract Documents are explicitly indicated as the Owner's responsibility, the Owner will engage a qualified testing agency to perform the services.
- C. Contractor Responsibilities:
  - 1. Where test and inspection services listed in the Contract Documents are not explicitly indicated as the Owner's responsibility, or where test and inspection services, in addition to those listed, are required by authorities having jurisdiction, the Contractor shall engage and pay for a qualified testing agency to perform the services.

2. Tests and inspections requested by Contractor and not required by the Contract Documents are solely the Contractor's responsibility.
3. Retesting: Regardless of the assignment of responsibility for the original test and inspection services, costs for retesting and re-inspecting construction that replaces or is necessitated by Work that failed to comply with the Contract Documents will be charged to the Contractor and, if necessary, the Contract Sum will be reduced by Change Order.
4. Associated Services: Regardless of the assignment of responsibility for particular test and inspection services, the Contractor is responsible as follows:
  - a. Cooperate with agencies performing required tests and inspections.
  - b. Notify Architect and testing agencies sufficiently in advance of time when Work that requires testing or inspecting will be performed to permit assignment of personnel.
  - c. Provide access to the Work, and incidental labor and facilities necessary to facilitate tests and inspections.
  - d. Provide preliminary design mix proposed for use, for material mixes that require control by testing agency.
  - e. Provide performance models as specified, and assist testing agency in obtaining test specimen for required tests and inspections.
  - f. Protect construction exposed by or for test or inspection activities.
  - g. Provide security and protection at Project site for test and inspection equipment.
  - h. Repair damaged construction and restore substrates and finishes, upon completion of testing, inspecting, specimen taking, and similar services. Comply with Section 017329 (Cutting and Patching).
5. Test and Inspection Reports: Submit two (2) copies, unless otherwise indicated. Submit additional copies if required by authorities having jurisdiction.

D. Testing Agency Responsibilities:

1. Cooperate with Architect and Contractor in performance of duties.
2. Determine the location where test specimens will be taken and where in-situ tests will be conducted.
3. Conduct tests and inspections with qualified personnel.



4. Notify Architect and Contractor promptly of irregularities or deficiencies observed in the Work during performance of its services.
5. Certified Report:
  - a. Interpret results and prepare a certified written report for each test, inspection, or other quality control service performed. Include the following information on the report, as applicable:
    - 1) Date of issue.
    - 2) Project number and title.
    - 3) Name, address, and telephone number of testing agency.
    - 4) Dates and locations of samples and tests or inspections.
    - 5) Names of individuals making tests and inspections.
    - 6) Description of the Work and test and inspection method.
    - 7) Identification of product and Specification Section.
    - 8) Complete test or inspection data.
    - 9) Test and inspection results and an interpretation of test results.
    - 10) Record of temperature and weather conditions at time of specimen taking and testing and inspecting.
    - 11) Statement indicating professional opinion whether tested and inspected Work complies with or deviates from the requirements of the Contract Documents.
    - 12) Name and signature of laboratory inspector.
    - 13) Recommendations on retesting and reinspecting.
  - b. Submit report through Contractor.
6. Do not release, revoke, alter, or increase the Contract Document requirements or approve or accept any portion of the Work.
7. Do not perform any duties of the Contractor.

**END OF SECTION**

**SECTION 014339**  
**MOCKUPS AND PHYSICAL QUALITY ASSURANCE AIDS**

**PART 1 - GENERAL**

**1.01 Summary**

- A. This Section includes administrative and procedural requirements for physical quality assurance aids, such as mockups, performance models, reference panels, and various specimens.

**1.02 Definitions**

- A. **Mockup:** A full-size, physical assembly that is constructed on-site to indicate the configuration of materials to be incorporated in the Work, verify constructability, and establish the level of workmanship. Approved mockups establish the standard by which the Work will be judged. Mockups can also include examples of cleaning and coating applications.
- B. **Performance Model:** A full size, physical assembly or portion thereof that is constructed for testing and evaluating the performance of products (e.g., field test joint sealant adhesion to Project joint substrates, or laboratory test curtain wall assembly).
- C. **Reference Panel:** An exposed and representative portion (panel) of the existing building construction used as an aesthetic reference for the approval of product Samples by the Architect.
- D. **Replication Specimen:** An existing building element used by a product manufacturer as the basis for producing replicas to be incorporated in the Work.
- E. **Aesthetic Specimen:** A piece of material (e.g., mortar, brick, etc.) extracted from and representative of a particular construction element present on the existing building typically used for aesthetic determinations.
- F. **Test Specimen:** A sampling of material (e.g., concrete, mortar, etc.) used for testing and evaluation of physical properties. Specific test requirements indicate whether the sampling is to be extracted from and representative of a particular construction element present on the existing building, or whether it is obtained from and representative of new material to be incorporated in the Work.

### **1.03 Submittals**

- A. Photographs of Mockups: Submit two (2) sets of photographs (hardcopy plus electronic file) for each mockup upon approval.
- B. Photographs of Performance Models: Submit two (2) sets of photographs (hardcopy plus electronic file) for each performance model, showing condition before and after testing.
- C. Photographs of Arranged Samples (see Reference Panels heading): Submit two (2) sets of photographs (hardcopy plus electronic file) for each Sample arrangement.
- D. Photographs of Replication Specimens: Submit two (2) sets of photographs (hardcopy plus electronic file) for each specimen, showing condition before and after detachment from building.
- E. Photographs of Test Specimens: Submit two (2) sets of photographs (hardcopy plus electronic file) for each specimen, showing condition before and after testing.

## **PART 2 - PRODUCTS (NOT USED)**

## **PART 3 - EXECUTION**

### **3.01 Mockups**

- A. General:
  - 1. Mockup requirements are indicated on the Drawings as follows:
    - a. Specific restoration assemblies requiring mockups are indicated in the Restoration Summary on the Drawings.
    - b. Mockup Dimensions table on the Drawings indicates specific requirements, size and extent of mockups classified by the restoration assembly type (e.g., CON (concrete), LTL (lintel), etc.).
    - c. In some cases, additional mockup requirements are indicated in the individual Specification Sections.
  - 2. Only products whose Samples and Product Data have been approved by Architect through the submittal process shall be used in mockups.
  - 3. Do not proceed with Work demonstrated by the mockups until approved by Architect.

4. Mockups are not to be used for performance testing. Refer to Performance Models heading in this Section.
- B. Construction of Mockup:
1. Location: Mockup location is indicated on the Drawings, or as otherwise determined by Architect.
  2. Field construct mockup in a manner indicative of type and configuration of all included materials and components and level of workmanship.
    - a. Mockup must demonstrate all contingent construction conditions and details, such as splices, material laps, expansion joints, shims, blocking, etc.
    - b. Construct mockup with dimensions greater than the minimum indicated on the Drawings, if necessary to demonstrate all contingent construction conditions and details.
    - c. Construct mockup in "cutaway," or "layered" fashion, if necessary to illustrate any construction components that would otherwise be concealed. For some mockups, where "cutaway" construction is not possible, separate photographs of each individual concealed component, installed in sequence (e.g., flashing, anchorage, etc.), may be allowed in lieu of "cutaway" construction, with prior written consent by the Architect.
    - d. Where mockup is intended for use as an example of a cleaning and/or coating application, prepare, clean, and/or coat surface in accordance with the Specifications. Delineate mockup boundaries using a lasting but non-defacing, easily removable method
  3. Identification Label: Clearly label mockup including:
    - a. Date
    - b. Restoration assembly code.
- C. Combination of Mockups: Mockups of multiple restoration assemblies may be combined, if approved in advance by the Architect. For example, the construction of a parapet, coping, and flashing might be combined in a single mockup.
- D. Multiple Mockups: Construct multiple mockups, if necessary to demonstrate all pertinent aspects of a restoration assembly for which it is required.
- E. Notification and Approval:

1. Notify Architect, and, if applicable, manufacturer's authorized representative, in writing when mockup is complete and ready for review. Use Mockup Review and Approval Form enclosed at the end of this Section, or equivalent.
  2. Obtain Architect's approval of mockup, and where required, also obtain manufacturer's authorized representative's approval. Approvals will be conveyed on the Mockup Review and Approval Form.
  3. Reconstruct disapproved / rejected mockup as needed until approved.
- F. Photograph Mockup: Photograph approved mockup from all sides and angles to show in detail the type and configuration of materials, level of workmanship, and "cutaway" construction exposing concealed components. Identification label must be legible in photograph.
- G. Retain and Protect: Retain approved mockup in undisturbed condition. Protect from soiling and other damage.
- H. Standard for Judging the Work:
1. Approved mockups will establish the standard by which the Work will be judged.
  2. Work not complying with approved mockup, or Work performed in advance of approved mockup, may be rejected.
- I. Disposition of Mockups:
1. Notify the Architect prior to disposition.
  2. Mockups may be incorporated in the finish Work as directed by Architect, otherwise demolish and remove mockups when the Work is complete.

### **3.02 Performance Models**

- A. General:
1. Performance model requirements are indicated in the individual Specification Sections.
  2. Only products whose Samples and Product Data have been approved by Architect through the submittal process shall be used in performance models.
  3. Do not proceed with Work demonstrated by the performance models until test results comply with performance requirements.

- B. Construction of Performance Model:
  - 1. Location: Performance model location is indicated in the Contract Documents, or as otherwise determined by Architect.
  - 2. Construct performance model in a manner indicative of type and configuration of all included materials and components and level of workmanship. Model must include all contingent construction conditions and details required for testing, such as splices, material laps, joints, anchors, etc.
  - 3. Facilitate storage and curing.
  - 4. Identification Label: Clearly label performance model including:
    - a. Date
    - b. Section number
    - c. Test identification.
- C. Multiple Performance Models: Construct multiple performance models, if necessary to accomplish required testing.
- D. Photograph Performance Model (Before and After Testing): Photograph approved performance model before and after testing from all sides and angles to show in detail the type and configuration of materials, and level of workmanship and physical results of tests, if any. Identification label must be legible in photograph.
- E. Transport: If required, protect, pack and transport performance model to testing agency.
- F. Tests, Inspections and Reporting:
  - 1. Notify Architect, and if applicable, manufacturer's authorized representative, in writing of test and inspection schedule. Provide notice at least 48 hours in advance of testing.
  - 2. Comply with test, inspection, and reporting requirements specified.
- G. Disposition of Performance Models: Notify the Architect prior to disposition.

### **3.03 Reference Panels**

- A. Reference panels are required for all distinct exposed building construction elements specified in the Work to be restored or replaced.
- B. Reference Panel Preparation:

1. Location: Reference panel location is indicated on the Drawings, or as otherwise determined by Architect. Location is typically based on the following criteria:
    - a. Exposure to natural light.
    - b. Unobstructed views from various vantage points (angles and distances).
    - c. Accessibility (e.g., within reach from grade level or roof surface, where possible).
    - d. Proximity to other existing construction elements that contribute to an overall aesthetic impact.
  2. Size: Reference panel size is indicated in the individual Specification Sections, on Drawings, or as otherwise determined by Architect.
  3. Identification Label: Clearly label reference panel and delineate its boundaries using a lasting but non-defacing easily removable method. Include the following information on label:
    - a. Date
    - b. Reference panel ID
    - c. Sample ID
- C. Retain and Protect: Retain reference panel in undisturbed condition. Protect from soiling and other damage.
- D. Arrange Sample(s) for Evaluation:
  1. Arrange product Sample(s) in relation to reference panel to permit a clear comparison when viewed by the Architect from various vantage points. Where Sample comprises multiple units, assemble units to best simulate the configuration and variation exhibited in the reference panel.
  2. Provide any temporary support required.
- E. Photograph Arranged Sample(s): Photograph Sample(s) in relation to reference panel from various vantage points to show clear comparison. Identification label must be legible in photograph.
- F. Notification and Approval:
  1. Notify Architect, 3 business days in advance, when Sample(s) in relation to reference panel will be ready to review.
  2. Architect will view and evaluate the Sample properties including, but not limited to; color texture, pattern, and level of finish (e.g., gloss, matte, etc.); and range (extremes and distribution) of inherent variation.

3. Architect's approval or other action will be conveyed via stamp or written transmittal through the submittal process.
- G. Disposition of Reference Panel:
1. Notify the Architect prior to disposition.
  2. When no longer required for evaluating Samples, seamlessly incorporate the Reference Panel in the Work.

### **3.04 Replication Specimens**

- A. Replication specimen requirements are indicated on the Drawings.
- B. Replication specimens are classified as "attached" or "detached" as follows:
1. Attached Replication Specimen: Existing building element to remain in-situ (attached to building), where an exact representation necessary for manufacturing replicas is formed in the field, whether by manual or digital techniques (e.g., laser photogrammetry, etc.).
    - a. Record Properties: Make permanent record of measurements, materials, and construction details required for an exact representation.
    - b. Identification Label: Clearly label specimen including:
      - 1) Date.
      - 2) Item number, if applicable.
      - 3) Description.
    - c. Photograph Replication Specimen: Photograph specimen from all angles to fully show all details. Identification label must be legible in photograph.
    - d. Manufacturing:
      - 1) Restore any defects in profile of replication specimen prior to manufacturing replicas.
      - 2) Clearly label the individual replicas (units) to correspond with the numbering scheme indicated on the shop drawings.
  2. Detached Replication Specimen: Building elements requiring detachment from building and delivery to manufacturing plant for manufacturing replicas.
    - a. Record Properties: Prior to detachment of existing building elements that will be reproduced or duplicated in final Work, make permanent record of measurements, materials, and construction details required for an exact representation.
    - b. Detach from existing construction in a manner to prevent damage. Comply with the following Sections:



- 1) 017300 (Removals Cutting and Patching).
- 2) 024119 (Selective Demolition).
- c. Identification Label: Clearly label specimen including:
  - 1) Date.
  - 2) Item number, if applicable.
  - 3) Description.
  - 4) Location (where removed).
- d. Photograph Replication Specimen: Photograph specimen before and after detachment from building from all angles to fully show all details. Identification label must be legible in photograph.
- e. Protect and transport replication specimen to manufacturer of replicas. Replication specimen remains the property of the Owner.
- f. Manufacturing:
  - 1) Restore any defects in profile of replication specimen prior to manufacturing replicas.
  - 2) Clearly label the individual replicas (units) to correspond with the numbering scheme indicated on the shop drawings.
- g. Disposition: After manufacturing of replicas is complete, protect and transport replication specimen to storage area designated by Owner, and obtain receipt from Owner, unless otherwise directed by Owner.

### **3.05 Aesthetic Specimens**

- A. Aesthetic specimens for matching existing building elements (e.g., brick, mortar, etc.) are indicated in the individual Specification Sections, or where needed to compare with and determine preliminary samples for submittal, or as otherwise directed by the Architect.
- B. Specimen Extraction and Patching:
  1. Comply with Section 017300 (Removals Cutting and Patching).
  2. Location: Extract specimen from reference panel.
  3. Size and Quantity: As indicated, or as otherwise directed by Architect.
  4. Identification: Clearly label specimen including
    - a. Date extracted.
    - b. Project number and name.
    - c. Material description.
    - d. Extraction location / reference panel ID.

### 3.06 Test Specimens

- A. Test specimens required for testing and evaluation are indicated in the individual Specification Sections.
- B. Obtain Specimen:
  - 1. Where test specimen is representative of existing construction proceed as follows:
    - a. Comply with Section 017300 (Removals Cutting and Patching) for extraction of specimen and patching existing construction.
    - b. Location: As required.
    - c. Size and Quantity: As indicated, or as otherwise directed by Architect.
    - d. Identification: Clearly label specimen including
      - 1) Date extracted.
      - 2) Project number and name.
      - 3) Material description.
      - 4) Extraction location.
  - 2. Where test specimen is representative of new material to be incorporated in the Work proceed as follows:
    - a. Obtain a sampling of material in compliance with the individual Specification Sections, codes and standards, as applicable.
    - b. Size and Quantity: As indicated, or as otherwise directed by Architect.
    - c. Identification: Clearly label specimen including
      - 1) Date obtained.
      - 2) Project number and name.
      - 3) Material description.
      - 4) Batch/lot number, etc., if applicable.
- C. Photograph Test Specimen (Before and After Testing): Photograph test specimen before and after testing to fully show specimen in detail and physical results of tests, if any. Identification label must be legible in photograph.
- D. Transport: If required, protect, pack and transport test specimen to qualified testing agency.
- E. Tests, Inspections and Reporting:

1. Notify Architect, and if applicable, manufacturer's authorized representative, in writing of test and inspection schedule. Provide notice at least 48 hours in advance of testing.
2. Comply with test, inspection, and reporting requirements specified.

**ENCLOSURES**

Mockup Review and Approval Form

**END OF SECTION**

## MOCKUP REVIEW AND APPROVAL FORM

*The following to be filled out by Contractor*

**Super No:**

**Project Address:**

**Superstructures Project  
Mgr.**

**RAD Code (e.g. LTL 02):**

**Location:**

**Variation:**

**Date Complete:**

**Contractor  
Signature / Date:**

**Enclosures / Photos:**

*The following to be completed by Architect*

**Superstructures  
Acceptance Signature:**

**Comments:**

*The following to be completed by Manufacturer*

**Manufacturer  
Acceptance Signature:**

**Comments:**

### **Instructions:**

*When ready for review by Architect, Contractor to fill in Contractor portion of form and transmit via fax to: SUPERSTRUCTURES: 212 505 1726, and if necessary to other interested parties.*

**SECTION 016000**  
**MATERIALS AND EQUIPMENT**

**PART 1 - GENERAL**

**1.01 RELATED REQUIREMENTS SPECIFIED ELSEWHERE**

- A. Specific requirements pertaining to materials and equipment specified elsewhere are additional to the provisions of this Section.

**1.02 PRODUCT LABELS**

- A. When materials or equipment are specified to conform to ASTM, Federal or other reference specifications, the materials delivered to the site shall bear the manufacturer's printed labels stating that the materials meet the requirements of such referenced specifications.

**1.03 TRANSPORTATION AND HANDLING**

- A. Deliver factory packaged materials and equipment in the manufacturer's original containers.
- B. Transport and handle materials and equipment in such a manner as to prevent their damage.
- C. Arrange for delivery of materials and equipment during the hours of the day established by NYCDOC'S Representative.
- D. Have workers available to receive and unload materials and equipment delivered to the site. Do not deliver, or have delivered, any materials and equipment to the site unless such forces are available.
- E. Facility personnel are not authorized to sign for receipt of Contractor's material or equipment.

**1.04 STORAGE AND PROTECTION**

- A. Neatly pile, store, protect, and secure materials and equipment in locations where directed.
- B. Protect materials and equipment subject to damage by temperature or other weather conditions.

C. Do not store volatile liquids in a NYCDOC building.

**PART 2 PRODUCTS (Not Used)**

**PART 3 EXECUTION (Not Used)**

**END OF SECTION**

**SECTION 016100**  
**PRODUCT REQUIREMENTS**

**PART 1 - GENERAL**

**1.01 Summary**

- A. This Section includes administrative and procedural requirements for product quality assurance; product manufacturers' warranties; product selection; product delivery, storage, and handling; etc.

**1.02 Definitions**

- A. Product: An item purchased for incorporating in the Work, whether purchased for the Project or taken from previously purchased stock. The term "product" includes the terms "material," "equipment," "system," and terms of similar intent.
- B. Product Callout: A product description (e.g., "Sealant: NT(NS)") noted on Drawings, and sometimes preceded by the Specification Section number where the product is further described. Within the Section the product callout is shaded for clarity followed by specific product requirements (e.g., named products, etc.).
- C. Named Product: A product identified in the individual Specification Sections by product name (or other designation) and manufacturer name.
- D. Comparable Product (sometimes referred to as "or equal"): Product that is demonstrated and approved through submittal process to have the indicated qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics that equal or exceed those of specified named product.

**1.03 Submittals**

- A. Certificates of Manufacture (On-demand): Authoritative evidence in the form of certificates of manufacture that the products have been manufactured and tested in conformity with the Specifications. These certificates shall include copies of the results of physical tests and chemical analysis, where necessary, that have been made directly on the product, or on similar products being fabricated by manufacturer. This shall include all necessary approvals by agencies having jurisdiction as applicable.

#### **1.04 Quality Assurance**

- A. Provide products that comply with the Contract Documents, and have been tested and approved for use, where applicable, and meet the requirements of all authorities having jurisdiction.
- B. Product Approval: All products selected for incorporation in the Work, whether named or otherwise, must be approved by Architect through the submittal process. Do not order, manufacture, or fabricate any products until such approval by Architect.
- C. Products shall be undamaged, and, unless otherwise indicated, new at time of installation. Expired products shall not be incorporated in the Work; expiration dates are as indicated by manufacturer.
- D. Products shall be complete with accessories, trim, finish, fasteners, and other items needed for a complete installation and indicated use and effect.
- E. Every product callout shall be limited to a single approved product.
- F. Product Source Limitation: Where products are intended to be installed as a system (warranted or otherwise) use only compatible products from the same manufacturer without exception, unless authorized in writing by Architect and, for warranted systems, approved in advance by manufacturer.

#### **1.05 Volatile Organic Compounds (VOCs)**

- A. Comply with all regulations and limitations pertaining to VOCs. Do not use any product that does not meet the current requirements of all authorities having jurisdiction. In the event any named products are not in compliance, notify the Architect immediately.

#### **1.06 Product Warranties**

- A. Warranties specified in the individual Specification Sections shall be in addition to, and run concurrent with, other warranties required by the Contract Documents. Manufacturer disclaimers and limitations on product warranties do not relieve Contractor of obligations under requirements of the Contract Documents.



- B. Manufacturer's warranty is the written warranty published by an individual manufacturer for a particular product or system and specifically endorsed by manufacturer to Owner. Warranty shall be in the manufacturer's standard form, unless otherwise directed by Owner, and shall be modified to include Project specific content as required in the individual Specification Sections. Project specific content may include, but is not limited to, extending time limit provided by manufacturer's warranty or to provide more rights for Owner.
- C. Engage manufacturer approved installers for the installation of warranted products and systems, where required by the manufacturer, or where indicated in the individual Specification Sections.
- D. Engage manufacturer's authorized representatives for participation in pre-installation conferences, examination of substrates and conditions, verification of materials, observation of installer activities, performance testing, inspection of completed portions of the Work, and preparation of reports/certifications. Submit manufacturer reports/certifications, including the following information, as applicable:
  - 1. Specification Section number, manufacturer, and named products.
  - 2. Name, address, and telephone number of representative making report.
  - 3. Statement on condition of substrates and their acceptability for installation of product.
  - 4. Summary of installation procedures being followed, whether they comply with requirements for warranted system and, if not, what corrective action was taken.
  - 5. Results of operational and other tests and a statement of whether observed performance complies with requirements for warranted system.
  - 6. Other required items indicated in individual Specification Sections.
- E. Comply with the following Sections:
  - 1. 017310 (Execution) relating to existing warranties.

## **PART 2 - PRODUCTS**

### **2.01 Product Selection**

- A. Named Products: Where Specifications include one or more named products, provide one of the products listed.

- B. **Named Manufacturers:** Where Specifications do not include named products, but only one or more named manufacturers, provide an appropriate product by one of the manufacturers listed.
- C. **Generically Specified Products:** Where neither products nor manufacturers are named, descriptive, performance, and reference standard requirements listed in the individual Specification Sections establish "salient characteristics" of products.
- D. **Comparable Products:**
  - 1. Unless otherwise noted, Architect will consider Contractor requests for review of comparable products by other manufacturers in lieu of named products. The named products establish the basis of design for significant qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics. The burden of proof of the merit of a proposed comparable product is on the Contractor.
  - 2. Prepare, package and submit requests for review of comparable products including the following:
    - a. Identify proposed comparable product and manufacturer.
    - b. Identify named product to be used as the basis for comparison. Include Specification Section number and title, product callout, and Drawing numbers and titles.
    - c. Product Data
    - d. Samples
    - e. Detailed comparison of significant qualities of proposed comparable product with those of the named product. Significant qualities include attributes such as type, performance, weight, size, durability, visual effect, and other specific features and requirements indicated.
    - f. Evidence that the proposed comparable product:
      - 1) Provides specified warranty.
      - 2) Complies with all applicable regulatory requirements (e.g., building codes, etc.) and has received necessary approvals of all authorities having jurisdiction.
      - 3) Will not be replacing individual components of another manufacturer's warranted system.
      - 4) Will not adversely affect Project construction schedule.
    - g. Material test reports, where applicable, from a qualified testing agency indicating and interpreting test results for compliance with requirements indicated.

- h. Cost information as compared with costs associated with named products.
  - i. List of similar installations on other projects completed by Contractor including project names and addresses, and names and addresses of architects and owners, if requested.
3. Architect's decision whether to review a proposed comparable product will be final.

## **2.02 Matching**

- A. Unless otherwise explicitly indicated in the Contract Documents, all products which replace existing exposed construction elements shall "match existing" aesthetic characteristics of those construction elements. This includes specified products which are not made of the same material as the existing construction element. (For example, glass-fiber reinforced concrete (GFRC) may be specified as a suitable replacement for terra cotta, provided it is able to simulate and maintain the appearance of the existing terra cotta.)
- B. Comply with Section 014339 (Mockups and Physical Quality Assurance Aids) for reference panels and aesthetic specimens for aiding Architect in making aesthetic determinations.

## **2.03 Pre-shipping Protection**

- A. Provide all necessary crating, boxing, and other packaging (including shock-absorbing material), around and between product units as required to protect products from damage during transport.
- B. Provide factory applied strippable plastic film for protection of finish surfaces which may be subject to scratches or marring.

## **2.04 Example Format of Named Products**

The following example shows three (3) fictitious named products, one of which would be selected and approved for use where the "Sealant: NT(NS)" product callout is indicated on Drawings.

**Sealant: NT(NS)**

Seal-Right	ABC Sealants
XR1-Silicone	Big Electric Company, Inc.
Premium Silicone Building Sealant	Silicone Mfg, Inc.

**PART 3 - EXECUTION**

**3.01 Product Delivery, Storage, and Handling**

- A. Deliver, store, and handle products in a safe manner, and to prevent damage, deterioration, theft, and other losses. Comply with manufacturer's written instructions.
- B. Contractor is solely responsible for any loss or damage to products. In the case of loss or damage to Owner-furnished products, the Contract Sum will be reduced by Change Order for cost of replacement orders.
- C. Transport and Delivery:
  - 1. Schedule delivery to minimize long-term storage at Project site and to prevent overcrowding of Work areas.
  - 2. Deliver products in ample quantities to ensure the most prompt and uninterrupted progress of the Work so as to complete the Work without delay.
  - 3. Coordinate delivery with installation time to ensure minimum holding time for items that are flammable, hazardous, easily damaged, or sensitive to deterioration, theft, and other losses.
  - 4. Handle and transport units in a position consistent with their shape and design in order to avoid excessive stresses or damage.
  - 5. Lift or support units only at the points prescribed by manufacturer.
  - 6. Support units during shipment on non-staining shock-absorbing material. Place non-staining resilient spacers of even thickness between units.
  - 7. Deliver products to Project site in an undamaged condition in manufacturer's original sealed container or other packaging system, complete with labels and instructions for handling, storing, unpacking, protecting, and installing.
  - 8. Inspect products on delivery to ensure compliance with Contract Documents and to confirm that products are undamaged and properly protected.
- D. Storage:

1. Comply with product manufacturer's written instructions for temperature, humidity, ventilation, and weather-protection requirements for storage.
2. Store combustible materials in containers in fire safe locations. Keep containers tightly closed and away from open flames.
3. Store products to allow for inspection and measurement of quantity or counting of units.
4. Store products in a manner that will not endanger Project structure.
5. Store units on firm, level, and smooth surface; avoid warping.
6. Store products that are subject to damage by the elements, under cover in a weathertight enclosure above ground, with ventilation adequate to prevent condensation. Cover materials when necessary to protect from the elements.
7. Store masonry units and cementitious products off the ground on elevated platforms to prevent contamination or staining.
8. Store grout, mortar, and other dry products and components in a dry location or waterproof containers. Protect from deterioration by moisture and temperature.
9. Store foam plastic away from exposure to sunlight, except to extent necessary for period of installation and concealment.
10. Store and handle roofing and waterproofing materials in a manner, which will prevent moisture pick up. Store in a dry, well ventilated, weather tight place. Unless protected from weather or other moisture sources, do not leave unused membrane on the roof overnight or when roofing Work is not in progress.
11. Store rolled sheet materials (e.g., roofing membranes, etc.) on end on pallets or other raised surface.
12. Protect liquid products and components from freezing.
13. Protect stored products from damage.

### **END OF SECTION**

**SECTION 017300**  
**REMOVALS, CUTTING, AND PATCHING**

**PART 1 GENERAL**

**1.01 PROJECT CONDITIONS**

- A. Do not disturb existing structures, construction, materials or equipment unless required by the Contract.
  - 1. Do not cut, drill or remove structural members such as joists, beams or columns supporting construction that is to remain unless expressly required by the Contract Documents.
- B. Existing Paint: If paint is believed to be lead based paint, contact NYCDOC immediately and stop work until further notice.

**PART 2 PRODUCTS**

**2.01 MATERIALS**

- A. Match the appearance and performance of existing corresponding materials as closely as practicable, unless otherwise indicated.

**PART 3 EXECUTION**

**3.01 EXAMINATION**

- A. Prior to cutting, drilling or removal, investigate both sides of the surface involved. Determine the exact location of structural members.
- B. If unforeseen obstructions are encountered, take precautions necessary to prevent damage and obtain instructions from the NYCDOC's Representative before proceeding with the Work.

**3.02 PREPARATION**

- A. Provide temporary shoring and other supports necessary to prevent settlement or other damage to existing construction which is to remain.
- B. Prepare existing surfaces properly to receive and, where required, bond with the Work.

### **3.03 REMOVALS, CUTTING, AND ALTERING**

- A. In addition to the items indicated to be removed on the Drawings, remove existing construction superseded by the Work except items such as pipes, conduits, recessed boxes, and ducts which are built into existing construction that is to remain. Cut off and conceal such items at face of remaining construction. Provide cover plates on recessed boxes.
- B. Remove and alter existing construction as required to install and connect the Work to adjacent construction in an approved manner.
- C. Cut and alter existing materials as required to perform the Work. Limit cutting to the smallest amount necessary. Core drill round holes and saw cut other openings where possible.
- D. Perform cutting, drilling, and removals in a manner which will prevent damage to construction which is to remain.
- E. Perform removal of items to remain the property of the State with such care as necessary to prevent damage to these items.

### **3.04 PATCHING**

- A. Patch existing construction and finishes defaced, damaged, or left incomplete due to alterations and removals. Patching, except as otherwise indicated, shall be limited to the areas which have been cut or altered. Finish patched surfaces to match existing adjacent surfaces as closely as practicable.
- B. Perform patching around items penetrating existing construction in a manner that will maintain the water and fire resistive capability of the existing construction.
- C. Paint patched areas and cover plates to match existing adjacent surfaces as closely as practicable using same type of paint. Painting, except as otherwise indicated, shall be limited to the areas which have been patched.
- D. Where surfaces exposed by removals are to remain as exposed surfaces, paint such areas to match existing adjacent surfaces as closely as practicable using same type of paint.

### **3.05 REINSTALLATION**

- A. Where reinstallation of removed items is indicated, reinstall them to a condition equal to or better than their condition before removal.

**END OF SECTION**



**SECTION 017310**  
**EXECUTION**

**PART 1 - GENERAL**

**1.01 Summary**

- A. This Section includes the following additional requirements for execution of the Work which supplement requirements in the individual Specification Sections:
1. Examination and documentation of existing conditions.
  2. Existing warranties.
  3. Manufacturer instructions and recommendations.
  4. Preparation of substrates.
  5. Structural and loading.
  6. Environmental.
  7. Protection.
  8. Progress cleanup.
  9. Remediation.

**1.02 Submittals**

- A. Photographs of Existing Damage: Submit to Owner prior to commencement of Work in areas where existing damage is visible.

**PART 2 - PRODUCTS (NOT USED)**

**PART 3 - EXECUTION**

**3.01 Existing Conditions**

- A. Photograph Existing Damage: Prior to commencement of Work, examine areas where Work will be performed and photograph any existing conditions of building, equipment, or surrounding properties, etc. which could be misconstrued as damage resulting from construction operations. Flag damage in photographs.
- B. Examination Prior to Bid: Quantities listed on the Drawings are approximate, and are provided for the Contractor's convenience only. The Contractor is responsible for verifying all quantities as indicated graphically on the Drawings, and for performing the indicated Work under

the base Contract. Quantity allowances are the only quantities that shall be directly based on the quantities indicated on the Drawings.

- C. Examination Prior to Commencement of Work:
1. Examine areas where Work will be performed. Determine field conditions which differ from the Contract Documents, or may adversely affect, or be affected by, the Work, including but not limited to, the following:
    - a. Concealed utilities, mechanical, electrical or other systems.
    - b. Points of connection to existing utilities and other systems.
    - c. Indications of conflicting installations (e.g., conduit running through a beam location, etc.).
    - d. Substrate conditions and other conditions affecting performance.
    - e. Measurements and tolerances required for installation.
    - f. Walls, floors, and roofs for suitable conditions where products and systems are to be installed.
  2. Submit RFI to Architect immediately on discovery of the need for clarification of the Contract Documents caused by adverse existing conditions outside the control of the Contractor. Do not proceed with Work in the area where adverse condition exists, without the Architect's written direction.
- D. Examination During the Work: The restoration assembly types and extents shown on the Drawings are indicative only. The Contractor, while in close proximity to the Work, shall visually and physically examine existing conditions, and notify the Architect if the underlying condition or extent is inconsistent with the restoration Work indicated at that location.

### **3.02 Existing Warranties**

- A. Conduct construction operations in a manner that does not invalidate or jeopardize existing warranties.

### **3.03 Manufacturer's Instructions and Recommendations**

- A. Comply with manufacturer's written installation instructions and recommendations for applications indicated.
- B. If written instructions are not available or do not apply to Project conditions, consult manufacturer's authorized representative for specific recommendations before proceeding with Work. Document such

recommendations in detail and submit to Architect along with Product Data.

### **3.04 Preparation of Substrates**

- A. Prior to installation of new Work, perform all necessary substrate repairs to return substrate to sound condition. (For example, the substrate may be a deteriorated masonry wall which requires some repairs, in preparation for the proper installation of furring channels, as part of a stucco finish wall system.)
- B. Do not install new Work over unsatisfactory substrates.

### **3.05 Structural and Loading**

- A. Provide temporary shoring, bracing, and structural support of Work in progress and existing to remain to preserve stability and prevent movement, settlement, or collapse. Retain a qualified professional engineer to design temporary shoring, bracing, and structural support as needed.
- B. Conduct construction operations so no part of the Work or existing to remain is subjected to damaging operations or loading in excess of that expected during normal conditions of occupancy.
  - 1. Determine floor and roof load carrying capacities before using such areas for storage of construction materials, relocated items, debris, etc.
  - 2. Loading shall not exceed thirty (30) pounds per square foot on any horizontal surface, other than a slab on grade.

### **3.06 Environmental**

- A. Conduct construction operations as required to comply with environmental regulations and minimize noise, odor, dust, and possible air, waterway, and subsoil contamination or pollution or other undesirable effects.
  - 1. Use products, cleaners, and installation materials that are not considered hazardous.
  - 2. Do not use tools or equipment that produces harmful noise levels.

### **3.07 Protection**

- A. Provide protection in compliance with all requirements of authorities having jurisdiction.

- B. Maintain premises in a safe, secure and weather-tight condition.
- C. Secure all objects (e.g. material, equipment, temporary facilities, partially completed Work), involved in or affected by the execution of the Work, from movement due to winds at all times.
- D. Maintain existing services, systems and facilities which are to remain, keep in service, and protect against damage during construction operations.
- E. Maintain fire protection facilities in service.
- F. Provide final protection and maintain conditions that ensure installed Work will not be subject to damage or deterioration.
- G. Contractor is solely responsible for any damage or injuries caused by or during the execution of the Work.

### **3.08 Progress Cleanup**

- A. General:
  1. Comply with manufacturer's instructions and recommendations for progress cleanup of finish surfaces. Do not use tools, materials, or agents that might damage finished surfaces.
  2. Clean Project site, Work areas, and common areas daily, or more frequently if needed, to maintain free of waste materials and debris.
  3. Coordinate progress cleanup for joint-use areas where more than one installer has worked.
  4. Immediately clean exposed finish surfaces when inadvertently contacted by wet or fluid materials used in the Work, to prevent contamination, staining, defacing, or other damage.
- B. Work in Progress: Maintain areas where Work is in progress to the level of cleanliness necessary for proper execution of the Work.
  1. Remove liquid spills quickly.
  2. Remove excess materials, droppings, and debris.
  3. Remove debris from concealed spaces before enclosing the space.
  4. Keep all weep holes clear and functioning.
  5. Leave all areas broom clean.
  6. Keep installed Work clean.
  7. Dry-brush newly installed masonry at end of each workday.

- C. Completed Work Areas:
  - 1. Remove tools and equipment from completed Work areas.
  - 2. Clean, protect and provide maintenance of completed Work areas to keep clean through the remainder of the construction period.
  - 3. Adjust and lubricate operable components to ensure operability without damaging effects.
  - 4. Clean adjacent structures and improvements of dust, dirt, and debris caused by construction operations, returning them to the condition existing before operations began.
  - 5. Where temporary facilities (e.g. scaffolds, etc.) will no longer be available to access completed Work areas, the Contractor may proceed with final cleanup. However, if these areas become dirtied by Contractor's subsequent operations, Contractor is responsible to re-perform final cleanup at time of Project closeout.

### **3.09 Remediation**

- A. Promptly repair existing structures, surfaces, fixtures, facilities, streets, curbs, driveways, walks, terraces, and trees, etc. damaged or removed by construction operations, or where demolition was performed in excess of that required.
  - 1. Return all items to the condition in which they existed prior to commencement of construction operations.
  - 2. Remove and replace items that are exposed to view if they cannot be repaired without visible evidence of repair.
  - 3. In the event local jurisdiction requires repairs to be accomplished with its own labor and materials, Contractor shall bear the expense of such work.
- B. Repair or remove and replace defective construction. Construction that does not comply with the requirements of the Contract Documents is considered defective construction.
  - 1. Remove and replace construction that is exposed to view if it cannot be repaired without visible evidence of repair.
  - 2. Repair components that do not operate properly. Remove and replace operating components that cannot be repaired.
  - 3. Remove and replace chipped, scratched, or broken glass and other damaged transparent or reflective surfaces.
- C. Touch-up or restore finishes damaged or defaced during construction operations so that no evidence remains of correction Work; where necessary

refinish entire unit, or provide new units. Items which cannot be refinished in the field shall be returned to the shop for refinishing, and later reinstalled.

- D. Restore permanent facilities used during construction to the condition in which they existed prior to commencement of construction operations.

**END OF SECTION**

**SECTION 017700**  
**CONTRACT CLOSEOUT**

**PART 1 - GENERAL**

**1.01 CONTRACT CLOSEOUT INSPECTIONS**

- A. The following 3 inspections will be made in addition to the normal inspections to ensure that all Contract requirements are met and that the Work is complete and acceptable. The purpose of each of these inspections is to furnish the Contractor a written list of Contract exceptions, omissions, and incompletions so that the Work can be progressed to timely completion in accordance with the Contract Documents.
1. Detailed Inspection: The “Detailed Inspection” will be made when the Work is substantially complete. A copy of the detailed inspection list will be furnished to the Contractor. When this inspection progresses over any length of time, copies of the list will be furnished as the inspection progresses so that the Contractor may proceed with the required Work without delay.
  2. Final Inspection: The Contractor will be advised by letter of the date and time of final inspection. A copy of the final inspection list containing all incomplete or unsatisfactory items and the time allowed to complete the Work will be furnished to the Contractor.
  3. Joint Inspection for Physical Completion: The joint inspection for physical completion may be made to verify completion of the exception items listed on the final inspection list so that the physical completion date may be established.

**1.02 FINAL CLEANING**

- A. Perform final cleaning prior to joint inspection for physical completion. Leave the premises in a neat, unobstructed condition, the work areas broom clean (except where more thorough cleaning is specified), and everything in perfect repair and adjustment.
- B. Clean site; sweep paved areas, rake clean landscaped surfaces.
- C. Remove tools, equipment, waste and surplus materials, rubbish, and construction facilities from the premises as soon as possible upon completion of the Work.

**1.03 PROJECT RECORD DOCUMENTS**

- A. Maintain on site, 2 sets of the following record documents; record actual revisions to the Work:
  - 1. Contract Drawings.
  - 2. Project Manual.
  - 3. Addenda.
  - 4. Change Orders and other modifications to the Contract.
  - 5. Reviewed shop drawings, product data, and samples.
  
- B. Store record documents separate from documents used for construction.
  
- C. Record information concurrent with construction progress.
  
- D. Project Manual: Legibly mark and record in Part 2 of each Section of the Specifications, a description of the actual products installed, including the following:
  - 1. Manufacturer's name and product model and number.
  - 2. Product substitutions or alternates utilized.
  - 3. Changes made by addenda and modifications.
  
- E. Record Documents and Shop Drawings: Legibly mark each item to record actual construction including:
  - 1. Measured depths of foundations in relation to finish (first) (main) floor datum.
  - 2. Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements.
  - 3. Measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of the Work.
  - 4. Field changes of dimension and detail.
  - 5. Details not on original Contract Drawings.
  
- F. Upon completion of the work, create electronic versions of the project record documents. Black and white documents are to be scanned into TIFF format using CCIT Group 4 compression. Documents with color, which include black line documents with color notations, are to be scanned into TIFF format using a minimum of 8 colors and "packbit" compression.
  - 1. The scanned images are to be put on a compact disc (CD) using ISO 9660 format. Name the electronic files with the same name as the drawing. Create a folder on the CD for each trade and one for Shop Drawings.
  - 2. Label the CD with the project number, name, and title as it appears on the project manual cover. If there is more than one CD include notation



to that effect on the label; i.e., 1 of 3, 2 of 3, 3 of 3. The project record documents and CD(s) are to be turned over to NYCDOC'S Representative.

- G. Applications for progress payments will not be approved if the record documents are not kept current. Application for final payment will not be approved until the project record documents are delivered to NYCDOC'S Representative.

#### **1.04 OPERATION AND MAINTENANCE DATA**

- A. Prepare 2 sets comprised of 8-1/2 x 11 inch text pages bound in capacity expansion binders with durable plastic covers identified with printed title "OPERATION AND MAINTENANCE INSTRUCTIONS", title of project, and subject matter of binder when multiple binders are required. Prepare a printed Table of Contents for each volume, with each product or system description identified. Internally subdivide the binder contents with permanent page dividers, logically organized as described below, with tab titles clearly printed under reinforced laminated plastic tabs:

Part 1: Directory, listing names, addresses, and telephone numbers of Architect/Engineer, Contractor, subcontractors, and major equipment suppliers.

Part 2: Operation and maintenance instructions, arranged by system and subdivided by specification section. For each category, identify names, addresses, and telephone numbers of subcontractors and suppliers.

Identify the following:

1. Significant design criteria.
2. List of equipment.
3. Parts list for each component.
4. Operating instructions.
5. Maintenance instructions for equipment and systems.
6. Maintenance instructions for finishes, including recommended cleaning methods and materials and special precautions identifying detrimental agents.

Part 3: Project documents and certificates, including the following:

1. Shop drawings and product data
2. Certificates, affidavits and approvals.
3. Test reports for and including, but not limited to air and water balance reports
4. Photocopies of warranties

- B. Submit one copy of completed volumes in final form 15 days prior to final inspection. This copy will be returned after final inspection, with the NYCDOC's comments. Revise content of documents as required prior to final submittal.
- C. Submit 2 volumes prior to final Application for Payment.

## **1.05 WARRANTIES**

- A. In addition to the warranties outlined in the General Conditions, all Labor Warranties shall be for 2 years, starting at completion of the entire project when substantial completion is awarded.
- B. Furnish warranty certification and copies of warranties that extend beyond the one year period required by the General Conditions. Warranties submitted without warranty certification will not be accepted.
  - 1. Warranty Certification: Written certification from the warrantor that invoices for installation, service, supplies, and warranty fees have been paid in full to persons or firms due payment, and that the warranty is in effect and non-retractable due to any of the specified conditions.
- C. Prepare printed Table of Contents and assemble warranty certifications and warranty copies in a binder with a durable plastic cover.
- D. Deliver the binder to NYCDOC'S Representative prior to final Application for Payment.
- E. For items of Work delayed beyond date of Substantial Completion, provide updated submittal within 10 days after acceptance, indicating date of acceptance as start of warranty period.
- F. Applications for final payment will not be approved until the warranty certification and warranty documents are delivered to NYCDOC'S Representative.

## **1.06 SPARE PARTS AND MAINTENANCE MATERIALS**

- A. Label and deliver spare parts, maintenance items, and extra materials to the Site. Place in locations as directed.
  - 1. Include "NOT FOR WARRANTY REPAIRS" on the labels.
  - 2. Obtain receipt prior to final payment.

- B. Do not use the spare parts and maintenance materials required by the Contract Documents to remedy defects during the two-year period except when approved otherwise by authorized NYCDOC's Representative. In such cases, replace items used.
- C. Furnish the names, business addresses, and telephone numbers of fully equipped authorized service organizations to NYCDOC'S Representative.
- D. Applications for final payment will not be approved until these items are delivered to the NYCDOC'S Representative.

**END OF SECTION**

**SECTION 019000**  
**EXISTING PREMISES WORK**

**1.01 PROTECTION**

A. General Safety Restrictions

1. The operation of the fire alarm telegraph, the interior fire alarm system, gongs, bells and telephones shall not be interfered with.
2. Nothing shall be done to in any way block the streets at or about exits, or the exits themselves.
3. There shall be no unauthorized interference with the free and unobstructed use of hallways, stairways, toilets and rooms.
4. Whenever work is carried on during facility hours use not more than one stairway shall be closed off from free and safe use at any time, and this only after the written permission of the NYCDOC has been obtained.
5. No part of the building or premises shall be closed to the use of the occupants without the permission of the NYCDOC. When such permission has been given, erect temporary partitions and barriers wherever required to ensure the absolute safety of the occupants of the building and premises.
6. Maintain on the premises a complete file of Material Safety Data Sheets for all materials, arranged by specifications section number. The file shall be available to NYCDOC's Representative for reference at all times.

B. Precautions Against Fire

1. Take every precaution in the performance of the Work to prevent fires.
2. Smoking shall not be permitted within the premises at any time.
3. N.Y.C. Fire Department regulations shall govern the storage and use of flammable materials. Flammable materials and fire-producing equipment shall not be left unattended about the premises in locations accessible to building occupants. All polyethylene sheeting shall be flame retardant in accordance with NFPA 701.
4. Rubbish shall be removed as hereinafter specified.
5. Fire extinguishers and other protective equipment shall be provided as required by regulations.
6. During all interruptions of Work, flammable mixtures shall be stored in designated locations.

C. Fire Watch

When open flame or spark-producing tools and equipment such as heating kettles on roofs, blow torches and welding rods are being used, the Contractor shall provide fire guards to maintain a fire watch over the operation of these items at all times during the use and until all materials have cooled sufficiently to no longer constitute a fire hazard. Provide additional fire guards required by Fire Department as determined by the Local Fire Department inspector after Work is under way.

D. Asbestos, Lead Paint and Other Hazardous Conditions

1. Contractor is to stop work and immediately notify the NYCDOC of any suspected contaminated areas including but not limited to: asbestos, lead paint, PCB caulking, PCB containing ballasts or mercury containing light bulbs, encountered during the course of work.

E. Temporary Maintenance of Hazardous Conditions

1. Upon receipt of the Notice to Proceed, carefully inspect all existing work which is required to be repaired, altered or removed. Any such work which is found to be weakened, structurally unsafe or otherwise hazardous, shall be immediately put in a safe condition and so maintained until such time as the permanent work in connection therewith is completed.
2. Any restrictions regarding sequence of operations and locations of work do not apply to the elimination of hazardous conditions; all parts of the premises will be available at all times for the performance of such work.

F. Protection of Property

1. The Contractor shall be responsible for all damage to all new and existing work on the premises due to the Contractor's operations, and shall provide and maintain adequate protection against such damage.
2. The premises shall not be used as a work shop to the detriment of any portion thereof.
3. Any furniture and equipment shall not be used as workbenches; neither shall materials and furniture be piled thereon without proper protection. All furniture shall be protected by drop cloths or 6-mil polyethylene sheeting. The sheeting shall not be removed until clean-up is complete.
4. Provide decking on floors, steps, platforms, pavements and roofs where subject to damage from heavy traffic.

5. Provide protection of existing roofing and flashing and limit traffic to prevent any damage to the existing work. As a minimum provide a protective compressible layer of polyisocyanurate roof insulation board, 1” minimum thickness, over the existing membrane, and cover this cushion layer with a layer of hard protective board.  
Where there is a warranty in effect the protection shall be acceptable to the roofing manufacturer such that the existing roof warranty is not jeopardized. Obtain the manufacturer’s written approval of the protection methods and submit the approval letter to the NYCDOC prior to beginning work on the roof.
6. Protect doors and door jambs when conveying rubbish and materials.
7. Provide and maintain barricades to confine dust to work areas.
8. Provide watertight enclosures over openings at roof and walls; provide watertight protection where tank houses, bulkheads and other roof structures are removed; remove temporary waterproofing protection for installation of new permanent work.
9. All damage to adjoining work due to failure to provide adequate protection shall be corrected by the Contractor at the Contractor's expense.
10. After completion of the Work, the Contractor shall thereafter protect Work until it is accepted.

**G. Protection of Building Occupants**

1. The Contractor shall be responsible for all injury to persons due to the Contractor's operations and shall provide and maintain adequate protection against such injury.
2. Provide guards, rails, barricades, fences, sidewalk sheds, catch-platforms, decking, night lighting, and all other items as required by New York City Building Laws and as further required to provide adequate protection.
3. Provide barricades around work areas as required to prevent unauthorized persons from entering therein.
4. Provide plumbing and temporary drainage as required to keep all pits, trenches and other excavations, and the adjoining areas of the premises, dry during the course of the work.
5. Prevent exposure of persons to hazardous materials, offensive odors, noxious or toxic fumes or gases. Ensure that such contaminants are not recirculated through the ventilation systems, or through windows and openings, to occupied areas. Ventilate work areas prior to re-occupancy, to make certain that odors and gases are properly dissipated. Notify NYCDOC’s Representative to conduct an inspection of the affected areas prior to re-occupancy.

## H. Stability and Integrity of Existing Structures

1. Shoring of members and protection of the existing structure during construction is the responsibility of the Contractor and shall comply with the requirements of the NYC Building Code.
2. The most stringent requirements of the Building Code, Contract Drawings, Specifications, or any authorities having jurisdiction shall govern this Work.
3. Coordinate Work of this Section with Work of all other Divisions so as to properly, and completely, install all Work as indicated on Drawings or specified.

### **1.02 NON-INTERFERENCE WITH FACILITY FUNCTIONS**

- A. Perform the Work in such a manner that normal facility functions may be carried on throughout the period of work with a minimum of interference. Before commencing work in any portion of the premises normally used for facility functions, meet with NYCDOC'S Representative and perfect a working agreement. Noise shall be kept to a minimum.
- B. In general, the Contractor shall not use or work in rooms, corridors, stairs, or elevators designated for facility personnel.
- C. NYCDOC may assign a stair for Contractor use during working hours. Refer to the Phasing Exhibit. The Contractor shall only use the stair for access to floors and shall not in any way obstruct the stair or make it unsuitable for use as an exit by occupants.

### **1.03 FRATERNIZATION**

- A. Contractor shall prohibit all contact between Contractor's employees (including Subcontractor's employees and visitors to the site) and the occupants.

### **1.04 WORK SCHEDULE AND PHASING**

- A. General:
  1. All Work must be performed according to a Work schedule coordinated by the Contractor and the Department's Construction Management Unit

as described in Section II, C: Construction Phasing that will not disrupt facility activities.

All decisions affecting the normal operation of the facility shall be coordinated with the NYCDOC's Representative.

B. Work that shall be performed only when the building is totally unoccupied shall be as follows:

1. Structural Work critical to the integrity of the building.
2. Any Work generating dust, offensive odors, noxious or toxic fumes or gases (including but not limited to those containing chemicals or mineral dusts listed in Section 1910.1000 - Air Contaminants, Tables Z-1, Z-2, and Z-3, OSHA Standards for General Industry, latest edition) that cannot be contained within an isolated Work area.
3. Boiler start-up and testing.
4. Ventilation system start-up and testing.
5. Burning, welding, brazing, sweating

C. Voluntary Overtime Work:

When permission to perform overtime or alternate shift Work is requested by the Contractor for the Contractor's own purposes, in order to meet schedules or for the Contractor's own convenience, the Overtime Work shall be considered to have been included in the Contract Price and no increase in the Contract Price, or Extra, will be granted for the Overtime Work. Contractor shall pay all costs necessary to maintain the construction operation including but not limited to permits, temporary heat, temporary lighting, and temporary power.

D. Mandatory Overtime Work

If at any time, in the judgment of the NYCDOC, any item of Work is behind the established construction progress schedule, or is causing a delay that will affect the contract completion date, the NYCDOC may order the Contractor to increase The Contractor's Work force or to work the Contractor's forces and the forces of any Subcontractor overtime, at the Contractor's expense, until such time as all items of work have progressed to be in accordance with the accepted construction progress schedule. The Contractor shall pay all costs necessary to maintain the construction operation including but not limited to permits, temporary heat, temporary lighting, and temporary power.

E. Ordered Premium Overtime Work:



1. The NYCDOC reserves the right to order and pay for rescheduling any regularly scheduled Work (other than that Work hereinbefore classified under Voluntary and Mandatory Overtime Provisions) as Premium Work or to add Premium Work to the regularly scheduled Work.
  2. Such Premium Work will be made by Change Order of Extra Work as identified elsewhere in the Contract Documents.
  3. Extra payment for Change Order of Extra Work shall be paid only for the actual difference between "regular labor rates" and "overtime labor rates," and the cost of any additional labor, material, permits, custodial and ancillary services (if any); plus an amount in accordance with the provisions of the Contract for any and all other costs, overhead, and profits that might be incurred by the Contractor, as determined by the NYCDOC.
- F. Contractor's Procedure for Performing Overtime or Ordered Premium Work To Be Done Prior To Commencing Work:
1. Make immediate arrangements to provide such ancillary services, if any, as may be required by Working Men, and Community, including, but not limited to:
    - a. Sanitary facilities and drinking water.
    - b. Power and light.
    - c. Heating, Ventilating and Air Conditioning.
    - d. Fire Protection.
    - e. Security.
    - f. Dust Protection.
    - g. Clean-up and debris removal.
    - h. Obtain permit from Supervisory bureau.
- G. Contractor's Procedure During Overtime and Ordered Premium Work periods:
1. Proceed expeditiously with Work.
  2. Do not begin any Work in any space unless all of the required materials and labor to complete that Work are at the job when Overtime or Ordered Premium work is scheduled to begin.
  3. Complete all Work in each phase by all trades that have Work to be accomplished in each phase and inside each defined area.

4. All other limitations and restrictions governing Contract Work during building use shall apply to Overtime and Ordered Premium Work.

H. Opening Permits (For Work Involving Wet Mopping & Wiping)

1. For work that must be performed on holidays, and weekends the Contractor shall obtain from the Department of Buildings an "After-Hour Work Permit", and shall arrange to schedule.

**1.05 CHANGE IN LEVELS**

- A. Where finished floor levels are raised or lowered as a result of Work specified, the Contractor shall make corresponding adjustments to existing floor registers, trap screws, plugs, catch basins, covers to cesspools and dry wells, coal holes, fresh air inlets, grates, fences, railings, tracks and all other work adversely affected by the change in levels, as required to restore proper relationship between these articles and the new floor surface.

**1.06 WATER**

- A. Refer to Section II, A: Construction Services, #5.

**1.07 ELECTRIC CURRENT**

- A. Refer to Section II, A: Construction Services, #5.

**1.08 STORAGE SPACE**

- A. Storage space, if available, will be designated or assigned by the NYCDOC. Interior space will be assigned for storage of material liable to damage by weather. Provide any additional protection required and assume all responsibility for damage to materials. Do not store or temporarily leave materials in locations other than those assigned for storage.

**1.09 MECHANICAL WORK**

- A. The removing of sanitary, heating and ventilating and electric work, including plumbing fixtures, pipes, metal ducts, radiators, lighting fixtures, wires, bells, telephones, and other incidental removals, and the repairing, altering, extending and replacing of such work will be done by the Contractor, as required for the completion of the Work.

- B. All work damaged, disturbed or otherwise affected by the alterations shall be repaired.

### **1.10 MOVING OF FURNITURE, ARTICLES, AND FIXTURES**

- A. When the moving of furniture, shades, clocks, pictures, maps, plaster casts and other articles or fixtures is made necessary in the carrying on of the alterations, repair work, painting, cutting of openings through or removing of existing walls and partitions, or for any other such reason, the removing, resetting and relocating together with the necessary repairing, shall be carefully done as a part of this Contract.
- B. Existing window shades, toilet accessories and other appliances shall be replaced and left in good condition; those which cannot be replaced shall be left in care of the DOC Maintenance.
- C. All removed work shall be protected.

### **1.11 TEMPORARY DUST PARTITIONS AND BARRIERS**

- A. Dust Partitions (non-Fire-rated)

Provide temporary dust-tight partitions and doors complying with all requirements of the City of New York City Building Code and all authorities having jurisdiction.

1. Partitions shall extend tightly between walls and partitions, and tightly from floor to ceiling, at locations indicated on the Drawings.
2. Partitions shall be of 2"x4" stud framing, 16" on center with 2"x 4" sill and cap members. Framing shall be entirely covered both sides with 5/8", gypsum wall boards. Provide 3" sound attenuation mineral fire blankets between studs. Both sides of the partition shall be finished with 1/4" x 2" tempered hardboard batten strips over all joints, horizontal and vertical.
3. Provide continuous neoprene gasketing at juncture of Partition with walls, floor and ceilings or underside of structure.
4. Provide at least one, hollow metal door and frame assembly in each partition, where required for access. Door shall be 36" wide by 84" high and each door shall be equipped with hardware as specified in Section 08710 - Finish Hardware: 1-1/2 pairs of butts; a closer; pulls (2 required); rim latch operable by knob-release from work area, key-operated from the other side (furnish three (3) keys); and sill protection sweep.

**B. Dust Partitions (Fire-rated)**

1. Construct same as in A., above, except provide for 1-hour fire-rated construction: use Type X gypsum board; use 1-hour rated steel door and frame.

**C. Dust Barriers**

1. Construct of PVC piping framework, telescoping, with holes and pegs to allow adjustment of heights. Cover framework completely with polyethylene film, 6-mils minimum thickness, with flap for access. Install at doorways to form vestibule between work area and other areas. Tape junctures to obtain dust-tight barrier. Construct in manner to provide easy assembly and disassembly.
2. Closet doors, cabinets, drawers, etc. which remain in the work area during demolition shall, at minimum, be sealed with duct tape (or equivalent) at all openings where dust may penetrate. As an alternative, the Contractor may completely cover the object and all openings in one layer of 6-mil polyethylene sheeting, sealed on all edges to prevent the penetration of dust.
3. The Contractor shall continuously inspect adjacent non-work areas and ensure that these areas are free of any dust or debris generated by the work.

**1.12 REMOVAL OF RUBBISH**

- A. Remove all rubbish (e.g., dirt, refuse, empty containers and packages, removed materials that become property of Contractor) from the premises as the work. No rubbish of any kind shall be stored in any rooms, halls, passageways or yards and no accumulation of rubbish shall be allowed to remain in or about the premises at any time during the course of the work for more than 24 hours.
- B. Should the Contractor fail to keep the building, premises and surrounding sidewalks and streets clean and free from rubbish resulting from the Work, then NYCDOC may have such rubbish removed by others in accordance with the terms of the Contract. In such event, there shall be withheld from any payment to the Contractor a sum determined by NYCDOC sufficient to cover the cost of removal by other parties.

**1.13 CLEAN-UP**

A. Daily Cleaning

1. The site shall be left in a condition which is acceptable to the DOC.
2. The Contractor shall provide daily wet mopping of floors subject to construction dust in all areas affected by the Work.
3. All vertical and horizontal surfaces shall be cleaned and have a polished appearance and have no accumulation of dust, dirt, marks, streaks, smudges or fingerprints. All lighting fixtures and related work shall be clean.

B. Upon completion of the Work, the Contractor shall provide thorough clean-up, performed by professional cleaning service, of all areas affected by the Work as follows:

1. In general, clean-up requirements are limited to the removal of all rubbish, spatters, stains, smears, finger marks, foot tracks, from finish surfaces and the broom cleaning of floors, yards, sidewalks, and other areas on the premises that are affected by the Work.
2. Where work that causes the dissemination of dust has been performed, clean-up operations shall include, in addition to the operations hereinbefore specified, the washing of windows, the mopping of floors and the dusting and washing of walls, sills, furniture, and other surfaces, and the HEPA vacuuming of these same surfaces, all as required to restore work areas to the same state of cleanliness existing before work began.
3. In performing dust-creating work, provide dust enclosures and foot mats to minimize the spread of dust and foot marks. Refer to Art. 1.11 of this Section.
4. This final clean-up is in addition to the required daily removal of rubbish.

C. Wet Wiping and HEPA Vacuuming

The Contractor shall provide wet wiping, and HEPA vacuuming by professional cleaning service, of all surfaces (including furniture) in all areas affected by the Work, immediately prior to the releasing of the areas for facility use.

**END OF SECTION**

**SECTION 024119**  
**SELECTIVE DEMOLITION**

**PART 1 - GENERAL**

**1.01 Summary**

- A. This Section includes the following:
  - 1. Demolition and removal of selected portions of building or structure.
  - 2. Salvage of existing items to be placed in storage and/or reinstalled.
- B. This Section excludes hazardous material remediation.
- C. Related Sections:
  - 1. 014000 (Quality Requirements).
  - 2. 014339 (Mockups, and Physical Quality Assurance Aids).
  - 3. 016100 (Product Requirements).
  - 4. 017310 (Execution).

**1.02 Definitions**

- A. Remove: Detach items from existing construction and legally dispose of them off-site, unless indicated to be removed and salvaged or removed and reinstalled.
- B. Remove and Salvage: Items indicated on Drawings for removal and salvage. Detach items from existing construction in a manner to prevent damage, and deliver as indicated in this Section.
- C. Remove and Reinstall: Items indicated on Drawings for removal and reinstallation (e.g., fixtures, equipment, building elements, etc.). Detach items from existing construction in a manner to prevent damage, prepare them for reuse, and reinstall them where indicated.
- D. Existing to Remain: Existing items of construction that are not to be removed and that are not otherwise indicated to be removed, removed and salvaged, or removed and reinstalled.

**1.03 Quality Assurance**

- A. Comply with the following:

1. ANSI/ASSE A10.6 "Safety Requirements for Demolition Operations."
2. NFPA 241 "Standard for Safeguarding Construction, Alterations and Demolition Operations."

#### **1.04 Project Conditions**

- A. Hazardous Materials:
1. It is not expected that hazardous materials will be encountered in the Work.
  2. If building elements suspected of containing hazardous materials are encountered, proceed as follows:
    - a. Do not disturb suspect building element, material or substance.
    - b. Immediately notify Architect and Owner in writing.
    - c. When the material or substance has been rendered harmless, Work in the affected area shall resume upon written agreement of Owner and Contractor.
- B. Explosives: Use of explosives is prohibited.

#### **PART 2 - PRODUCTS (NOT USED)**

#### **PART 3 - EXECUTION**

##### **3.01 General**

- A. Examination:
1. Prior to commencement of Work:
    - a. Document existing damage, and determine if adverse existing conditions exist as per Section 017300 (Execution).
    - b. Verify that utilities have been disconnected and capped where needed to accommodate specific selective demolition.
  2. If in the progress of the Work unanticipated mechanical, electrical, structural, or other elements that conflict with intended function or design are encountered, investigate and measure both nature and extent of the conflict.
    - a. Promptly submit an accurate and complete written report detailing conflicting elements to Architect.
    - b. Pending receipt of directive from Architect or Owner, rearrange selective demolition schedule as necessary to continue progress of overall Work without delay.

- B. Shoring, Bracing and Structural Support:
1. Provide interior and exterior shoring, bracing, and structural supports to preserve stability and prevent movement, settlement or collapse of construction and finishes to be selectively demolished and adjacent facilities to remain.
    - a. Retain a qualified professional engineer to design temporary shoring, bracing, and structural support as needed.
    - b. Strengthen or add new supports when required during progress of selective demolition.
    - c. If safety of structure appears to be endangered, cease operations immediately, notify Owner and Architect, and take precautions to support structure until determination is made for continuing operations.
- C. Demolish and remove existing construction only to the extent required by new construction and as indicated.
1. At any one time, remove only that portion of the existing construction that can be immediately protected so that building interior remains watertight and weathertight.
  2. Where selective demolition converges with existing construction to remain:
    - a. Comply with Section 017329 (Cutting and Patching).
    - b. Conduct operations in a manner to protect adjacent and surrounding surfaces and material to remain from damage. Do not damage substrates to remain.
    - c. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping, to minimize disturbance of adjacent surfaces.
    - d. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
    - e. Remove residual mortar, adhesives, or other matter, from material to remain, in preparation for tie-in of new Work. (For example, where deficient brick has been removed, remove mortar around perimeter of area in preparation for new brick and mortar.)
  3. Where whole units are being removed for replacement (e.g., masonry units, sills, lintels, wall panels, etc.), cut out whole units from joint to joint in a manner to permit replacement of full size



units, and carefully remove without damaging surrounding construction.

4. Do not use cutting torches until Work area is cleared of flammable materials. At concealed spaces (e.g., duct and pipe chases, etc.), verify condition and contents of hidden space before starting flame-cutting operations. Maintain fire watch and portable fire-suppression devices during flame-cutting operations. Maintain adequate ventilation when using cutting torches.

### **3.02 Removed and Reinstalled Items**

- A. Carefully remove items, which will be reinstalled in the Work, from existing construction in a manner to prevent damage.
- B. Clean removed items.
- C. Label items to include the following information:
  1. Date removed.
  2. Item number, if applicable.
  3. Description.
  4. Location (where removed).
- D. Pack or crate items. Identify contents of containers.
- E. Protect items from damage in handling, transport and storage.
- F. Reinstall items in locations indicated. Comply with installation requirements for new products and equipment. Provide connections, supports, and miscellaneous materials necessary to make item functional for use indicated.

### **3.03 Masonry Demolition**

- A. Where required, perform masonry unit and wall demolition as follows:
  1. Cut perimeter of area to be removed in a manner to protect adjacent material to remain from damage.
    - a. At head joints, short bed joints or end of long cuts, acceptable tools include power oscillating mortar removal tools or hand tools.
    - b. At long cuts, acceptable tools include power driven grinder with diamond blade and vacuum attachment for dust collection, or hand tools.

2. Remove mass of masonry in small sections. Acceptable tools include electric demolition “chipping” hammer (15 lbs max. weight), power driven grinder with diamond blade and vacuum attachment for dust collection, or hand tools.

### **3.04 Mortar Joint Demolition**

- A. Where required, rake mortar joint in a manner to protect masonry units from damage. Acceptable tools include:
  1. At head joints, short bed joints or end of long cuts, acceptable tools include power oscillating mortar removal tools or hand tools.
  2. At long cuts, acceptable tools include power driven grinder with diamond blade and vacuum attachment for dust collection, or hand tools.
- B. Where mortar embedded units (e.g., masonry units, precast architectural concrete units, CMU units, stone units, etc.) have been removed, remove mortar, loose particles and debris from existing surrounding units, in preparation for replacement units.

### **3.05 Roofing Demolition**

- A. Where required, remove all existing components of roofing system and accessories to expose substrate.

### **3.06 Joint Sealant Removal**

- A. Where existing sealant is indicated to be replaced, perform selective demolition as follows:
  1. Remove sealant (and backings as applicable), residue of sealant and primer, and other contaminants capable of interfering with adhesion of new sealant to joint substrates.
  2. Remove only that portion of existing sealant (and backing, as applicable) that can be installed the same working day.

**END OF SECTION**

**SECTION 040120**  
**UNIT MASONRY RESTORATION**

**PART 1 - GENERAL**

**1.01 Summary**

- A. This Section includes brick unit removal and replacement, parging, and repointing of mortar joints.
- B. Related Sections:
  - 1. 014000 (Quality Requirements).
  - 2. 014339 (Mockups, and Physical Quality Assurance Aids).
  - 3. 016100 (Product Requirements).
  - 4. 017310 (Execution).

**1.02 Submittals**

- A. Product Data: For each product specified in Part 2 - Products.
- B. Samples:
  - 1. Brick: For each type of brick to be incorporated in the Work. Sample sets should be in the form of straps or panels containing not less than 4 units.
- C. Special Inspection Reports.
- D. Product Test Reports:
  - 1. Brick Test Reports (On-demand).

**1.03 Quality Assurance**

- A. Comply with ACI 530.1/ASCE 6/TMS 602 "Building Code Requirements for Masonry Structures."

**1.04 Tests and Inspections**

- A. Special Inspections: Comply with special inspection requirements of authorities having jurisdiction including, but not limited to, those indicated on Drawings.
- B. Product Testing:

1. Brick Testing: Comply on-demand by Architect:
  - a. Test Specimens: Provide test specimen of the brick masonry units.
  - b. Testing: Test each type and grade of brick per ASTM C 67. If coefficient of variation of compression samples tested exceeds 12%, obtain compressive strengths by multiplying average compressive strengths by  $(1 - 1.5) \times [(0.01 \times \text{coefficient of variation}) - 0.12]$ .
  - c. Test Reports: Reports shall include date of test, products used, test method, and test results.

## **PART 2 - PRODUCTS**

### **2.01 Brick**

- A. Brick
  1. Face Brick (Unglazed): Comply with ASTM C 216.
    - a. Solid brick units (less than 25% core area) with face to fit condition indicated for common bond, headers, coining, lintels, arches, corners, and other special ground, cut, or sawed shapes where required to complete masonry restoration Work.
    - b. Provide uncored units with all exposed surfaces finished, for sills, caps and similar applications resulting in exposure of brick surfaces which otherwise would be concealed from view.
    - c. Size to be determined as an average measurement of the existing brick in each of the brick's dimensions.
    - d. Type: FBX.
    - e. Grade: SW (severe weathering)
    - f. Compressive Strength: 6000 psi
  2. Concealed Brick: Comply with ASTM C 62.
    - a. Solid brick units of the same unit dimensions as face brick.
    - b. Grade:
      - 1) Brick Concealed in Inner Wythe or Interior of Wall: Grade MW.
    - c. Other properties shall be compatible with face brick.

### **2.02 Horizontal Joint Reinforcement**

- A. Horizontal Joint Reinforcement (Truss Type / 2 side rods)
  1. Dur-O-Wal Truss

Hot dipped galvanized Dur-O-Wal

### **2.03 Anchorage**

- A. Comply with Section 040519 (Masonry Anchorage and Reinforcing).

### **2.04 Mortar**

- A. Comply with Section 040513 (Masonry Mortar).

### **2.05 Masonry Accessories**

- A. Compressible Filler (Neoprene)
  - 1. DA 2010 Rapid Soft Joint Dur-O-Wal
  - 2. # NS Closed Cell Neoprene Sponge Hohmann & Barnard
- B. Expansion Joint Filler (Neoprene)
  - 1. DA 2015 Rapid Expansion Joint Dur-O-Wal
- C. Weep Slot(s)
  - 1. Mortar Net Weep Vent Mortar Net USA, Ltd.
- D. Mortar Dropping Control Device
  - 1. The Mortar Net Mortar Net USA, Ltd.
- E. Drainage Composite
  - 1. J-DRain 302 Composite Drainage System JDR Enterprises, Inc.

## **PART 3 - EXECUTION**

### **3.01 Removal and Replacement of Masonry Units**

- A. Removal:
  - 1. Comply with Section 024119 (Selective Demolition) for masonry unit removal.
- B. Preparation: Brush, vacuum or rinse masonry units and surrounding masonry to remove dust, dirt and loose debris. Allow to dry before proceeding unless pre-wetting is required below. Do not use wire brush or implements that mark or damage exposed surfaces.

- C. Pre-wetting High Absorption Brick Masonry:
1. Wet high absorption brick units and surrounding masonry before laying.
  2. Allow units to absorb water so they are damp, but not wet (dry on the surface) at time of laying.
- D. Bonding and Coursing Pattern:
1. Set masonry units in the bond pattern indicated, or if none is indicated, in running bond.
  2. Where rebuilding existing construction, match and fit replacement units into existing bonding and coursing pattern; maintain joint width to match existing.
  3. Bond wythes of composite masonry together using bonding system shown on Drawings.
  4. Do not traverse existing expansion joints with rebuilt masonry construction.
- E. Fitting and Cutting:
1. Cut exposed masonry units, where necessary, in a manner to produce clean, sharp unchipped edges. Avoid the use (by proper layout) of less than half size units.
  2. Build other Work into masonry Work as shown on Drawings, fitting masonry units around other Work.
- F. Mortar Bedding:
1. Lay solid units as follows:
    - a. Fully bed unit in mortar.
    - b. Butter ends of units with sufficient mortar to completely fill head joints and shove into place.
    - c. Do not deeply furrow bed joints or slush head joints.
  2. Lay hollow units as follows:
    - a. Fully bed face shells in mortar.
    - b. Fully bed webs in mortar in all courses in piers, columns, pilasters, and in grouted walls (including starting course).
    - c. Fully bed entire units including areas under cells at starting course on footings where cells are not grouted.
    - d. Butter ends of units with sufficient mortar to fill head joints and shove into place.
  3. Fill collar joints between wythes in solid composite walls, unless otherwise shown on Drawings:

- a. Where accessible from above, after each course is laid, fill the vertical, longitudinal collar joint between wythes solidly with mortar.
- b. Where not accessible from above, solidly fill collar joints by parging face of wythe already in place and shoving units of other wythe into place.
- 4. Keep wall cavities clean of mortar droppings.
- G. Jointing:
  - 1. Do not mortar joints where other joint treatment is indicated on Drawings (e.g., sealant joints).
  - 2. Tool exposed joints slightly concave when thumbprint hard, using a jointer larger than joint thickness unless otherwise indicated.
  - 3. Cut joints flush for masonry walls to receive plaster, parging, or other direct-applied finishes (other than paint), unless otherwise indicated.
- H. Curing: Cure mortar by maintaining in a damp condition for not less than 72 hours.

### **3.02 Anchorage**

- A. Anchoring to Structural Members:
  - 1. Anchor masonry to structural members where masonry abuts or faces new or existing structural members.
  - 2. Provide an open space not less than 1 inch in width between masonry and structural member, unless otherwise indicated.
- B. Wall Ties and Anchors:
  - 1. Install wall ties and anchors as shown on Drawings.

### **3.03 Parging**

- A. Where required, parge cavity wall face of backup wythe in a single coat approximately 3/8 inch thick. Trowel face of parge coat smooth.

### **3.04 Repointing**

- A. Removal of Existing Mortar Joint: Comply with Section 024119 (Selective Demolition).
- B. Preparation: Brush, vacuum or rinse joint substrates to remove dust, dirt and loose debris. Allow to dry before proceeding unless pre-wetting is

required below. Do not use wire brush or implements that mark or damage exposed surfaces.

- C. Pre-wetting High Absorption Brick Masonry:
  - 1. Wet high absorption brick units and surrounding masonry before laying.
  - 2. Allow masonry to absorb water and become damp, but not wet (dry on the surface) at time of pointing.
- D. Pointing (For Filling Prepared Mortar Joints):
  - 1. Apply first layer of pointing mortar to areas where existing mortar was removed to depths greater than surrounding areas until a uniform depth is formed.
  - 2. Apply mortar in lifts (layers) not greater than 1/4", unless otherwise shown on Drawings.
  - 3. Fully compact the mortar in each layer and allow to become thumbprint hard before applying the next layer.
- E. Tooling:
  - 1. Remove mortar fins and smears before tooling joints.
  - 2. Fully compact mortar. Where existing masonry has rounded edges recess mortar slightly from face. Do not spread mortar over edges onto exposed masonry surfaces. Do not feather edge mortar.
  - 3. When mortar is thumbprint hard, tool joints to match original appearance of joints, unless otherwise indicated. For glazed units, use a non-metallic jointer. Remove excess mortar from edge of joint by brushing.
  - 4. Stipple joints lightly with a soft bristle brush to expose aggregate, if necessary to match appearance of original mortar.
- F. Curing: Cure mortar by maintaining in a damp condition for not less than 72 hours.

### **3.05 Protection**

- A. Protect newly laid masonry from exposure to precipitation, excessive drying, freezing, soiling, backfill and other harmful elements.

### **3.06 Cleanup**

- A. After mortar is thoroughly set and cured, remove matter accumulated during construction and wash down masonry as follows:



1. Remove large mortar particles by hand with wooden paddles and non metallic scrap hoes or chisels.
2. Wash Down:
  - a. Test wash down methods on sample panels before proceeding with wash down of masonry surfaces.
  - b. Wash down brick masonry in accordance with: Brick Industry Association Technical Notes on Brick Construction, No. 20, June 2006, "Cleaning New Masonry: Bucket and Brush Hand Cleaning".

**END OF SECTION**

**SECTION 040513**  
**MASONRY MORTAR**

**PART 1 - GENERAL**

**1.01 Summary**

- A. This Section includes masonry mortar materials.
- B. Related Sections:
  - 1. 014000 (Quality Requirements).
  - 2. 014339 (Mockups, and Physical Quality Assurance Aids).
  - 3. 016100 (Product Requirements).
  - 4. 017310 (Execution).

**1.02 Submittals**

- A. Product Data: For each product specified in Part 2 - Products.
- B. Samples:
  - 1. Mortar Components: Dry samples (minimum 4 oz.) of each component.
    - a. Portland cement.
    - b. Lime.
    - c. Pigment (color).
    - d. Sand (aggregate) samples.
  - 2. Scuffed Mortar (showing exposed aggregate): For each mortar expected to be incorporated in the Work. Samples shall be fully cured and scuffed (showing exposed aggregate), 6 inch long x 1/2 inch wide strips set in aluminum or plastic channels.
- C. Special Inspection Reports.

**1.03 Quality Assurance**

- A. Comply with the following:
  - 1. Brick Industry Association (BIA) (formerly Brick Institute of America)
  - 2. National Concrete Masonry Association (NCMA)

**1.04 Tests and Inspections**

- A. Special Inspections: Comply with special inspection requirements of authorities having jurisdiction including, but not limited to, those indicated on Drawings.
- B. Field Quality Control Testing:
  - 1. Mortar Testing: If not in conflict with, or covered by special inspections, comply with the following:
    - a. Test Specimens: Provide test specimen of mortar batch mix for every one thousand (1000) square feet of wall surface area.
    - b. Testing: Test each specimen provided per ASTM C 780. Test for air content and compressive strength.
    - c. Test Reports: Reports shall include date of test, products used, test method, and test results.

## **1.05 Project Conditions**

- A. Cold Weather Protection:
  - 1. Provide protection when ambient air temperature is below 40° F, or is expected to fall below 40° F within 48 hours after completion of Work, as follows:
    - a. 40° F to 32° F:
      - 1) Heat sand or mixing water to produce mortar temperatures between 40° F and 120° F.
      - 2) Protect from rain or snow; completely cover with weather-resistive membrane for 24 hours.
    - b. 32° F and Below: No Work permitted.
  - 2. Do not lower freezing point of mortar by use of antifreeze, calcium chloride, or other additives.

## **PART 2 - PRODUCTS**

### **2.01 General**

- A. Refer to Drawings for color and texture of exposed mortars.
- B. Pigmented Portland cement-lime should be used achieve the required color in exposed mortars.
- C. Use aggregates (sand) that match color and grain size of original aggregates as closely as possible.

- D. Mortars shall comply with ASTM C 270, type as indicated.
- E. Mortar components shall comply with the following:
  - 1. Portland cement: ASTM C 150, Type I or Type II; gray or non-staining white. Portland cement for use with limestone shall contain not more than 0.60 percent total alkali when tested according to ASTM C 114.
  - 2. Hydrated Lime: ASTM C 207, Type S
  - 3. Aggregates (for mortar): ASTM C 144
  - 4. Coloring Agent (Pigments): Alkali stable as approved by in writing by Architect.
  - 5. Admixtures: None, unless approved in writing by Architect.
  - 6. Water: Potable

## 2.02 Mortar

- A. Mortar: ASTM C 270 Type N
    - 1. Pre-blended, Aggregates Added in Field
      - PCL and Color: Color Portland Cement Lime Mortar (Type N)  
Glen Gery
      - Aggregates: Sand George Schofield & Sons
- OR
- PCL and Color: Pre-blended Portland Cement Lime Color (Type N) Lehigh Portland Cement Co.
    - Aggregates: Sand George Schofield & Sons

## 2.03 Mortar Mixing

- A. Measuring: Measure cementitious and aggregate material in a dry condition by volume or equivalent weight. Do not measure by shovel or by bag.
- B. Mixing: Mix materials in a clean mechanical batch mixer.
  - 1. Thoroughly mix cement, binder, pigment and aggregate materials together before adding any water.
  - 2. Then mix again adding only enough water to produce a damp, unworkable mix which will retain its form when pressed into a ball. Maintain mortar in this dampened condition for 1-1/2 hours.

3. Add remaining water in small portions until mortar of desired consistency is reached. Use mortar within 30 minutes of final mixing. Do not re-temper or use partially hardened material.

### **PART 3 - EXECUTION**

#### **3.01 General**

- A. Comply with Contract Documents for mortaring requirements (e.g. mortar bedding and jointing, repointing mortar joints, and parging (plastering) masonry walls).

**END OF SECTION**

**SECTION 040519**  
**MASONRY ANCHORAGE AND REINFORCING**

**PART 1 - GENERAL**

**1.01 Summary**

- A. This Section includes anchors and fastening systems for masonry.
- B. Related Sections:
  - 1. 014000 (Quality Requirements).
  - 2. 014339 (Mockups, and Physical Quality Assurance Aids).
  - 3. 016100 (Product Requirements).
  - 4. 017310 (Execution).

**1.02 Submittals**

- A. Product Data: For each product specified in Part 2 - Products.
- B. Samples:
  - 1. Anchors and Fasteners: For each type to be incorporated in the Work.
- C. Pre-construction Test Reports:
  - 1. Anchorage Pull-out Test Reports.

**1.03 Tests and Inspections**

- A. Pre-construction Testing:
  - 1. Anchorage Pull-out Testing:
    - a. Performance Models: Construct performance models of anchorage into existing substrate material. Individual models shall be constructed for each anchor and substrate material configuration required for the Work, at locations determined by Architect.
    - b. Testing: Perform pull-out tests on each anchorage performance model.
      - 1) Arrange for Architect to be present at testing, provide five (5) business days notice.
      - 2) Retest as necessary until satisfactory results are obtained.

- c. Test Reports: Reports shall include date of test, location, products used, test method, and test results stating whether anchorage complies, or does not comply with the manufacturer's listed allowable load capacity, times a factor of safety of 4, for the applicable substrate material.
- d. Acceptance: Obtain Architect's written acceptance of test results before proceeding with installation Work.

## **PART 2 - PRODUCTS**

### **2.01 General**

- A. Components of anchoring systems shall be stainless steel conforming to ASTM A276, ASTM A 493 or ASTM F 593 with chemical composition of either AISI 304 or AISI 316, as indicated on Drawings.
  - 1. Stainless steel wedges shall be of the same material grade as the bolts or superior.
  - 2. Stainless steel nuts shall conform to ASTM F 594 and be of the same material grade as the bolts or superior. Nuts shall be furnished with the bolt and meet the dimensional requirements of ANSI to conform with the bolt.
  - 3. Washers shall conform to ASTM A 240 and be also of the same material grade as the bolts.

### **2.02 Anchors and Fasteners: Concrete**

- A. Adhesive Anchor: Capsule / Threaded Rod
    - 1. HILTI HVA Adhesive System  
Adhesive: HVU Adhesive Capsule Hilti, Inc.  
Anchor: HAS Anchor Rod Hilti, Inc.
- OR
- 2. Powers Fasteners System  
Adhesive: Chem-Stud Spin Type  
Capsule Adhesive Powers Fasteners  
Anchor: Chisel Pointed Rod Powers Fasteners

### **2.03 Anchors and Fasteners: Cored Brick**

- A. Adhesive Anchor: Dispenser Injected / Threaded Rod / Cored Brick

1. HILTI System  
 Adhesive: HIT HY 20 Injection Adhesive Hilti, Inc.  
 Screen Tube: Screen Tube Hilti, Inc.  
 Anchor: HAS-E Anchor Rod Hilti, Inc.

OR

2. Powers Fasteners System  
 Adhesive: AC100Plus  
 Adhesive Anchoring System Powers Fasteners  
 Screen Tube: Screen Tube  
 Stainless steel Powers Fasteners  
 Threaded Rod: Threaded Rod Powers Fasteners

OR

3. ITW Red Head System  
 Adhesive: Red Head Epcon Acrylic 7 Adhesive Anchor ITW  
 Red Head  
 Screen Tube: Screen Tube  
 Stainless steel ITW Red Head  
 Threaded Rod: Threaded Rod ITW Red Head

## 2.04 Veneer Ties and Anchoring Devices

- A. Veneer Anchor (Adjustable with Rod)
  1. T-Lok Tie  
 Stainless steel with pencil rod Hohmann & Barnard
  2. Veneer Tie Assembly Series 5213S  
 Stainless steel with pencil rod Dur-O-Wal
- B. Veneer Anchor
  1. 345 SV Seismic-Notch Veneer Anchor  
 Stainless steel with pencil rod Hohmann & Barnard
  2. Veneer Tie Assembly Series 5431  
 Stainless steel with pencil rod Dur-O-Wal

## 2.05 Fasteners

- A. Powder Actuated Fasteners
  1. X-U  
 Stainless Steel Hohmann & Barnard or Approved Equal



2. X-BT  
Stainless Steel Hohmann & Barnard or Approved Equal
3. X-CRM8  
Stainless Steel Hohmann & Barnard or Approved Equal
4. X-FCP disk  
Stainless Steel Hohmann & Barnard or Approved Equal

## **2.06 Steel Reinforcing Bars, Dowels, Eye bolts**

- A. Deformed Steel Reinforcing Bar (Epoxy Coated)
  1. ASTM A 615, Grade 60, unless otherwise indicated

## **2.07 Grout and Expansive Cement**

- A. Cementitious Grout (Non-shrink)
  1. SikaGrout 212 Sika Corporation
  2. SonoGrout 10K Sonneborn (BASF)
- B. Epoxy Adhesive
  1. Sikadur 32, Hi-Mod Sika Corporation
  2. Power-Fast Epoxy Adhesive Powers Fasteners
  3. HSE 2421 High Strength Epoxy Hilti, Inc.

## **PART 3 - EXECUTION**

### **3.01 General**

- A. Install anchors of type and diameter indicated, at locations shown on the Drawings.
- B. Where length of anchor is not indicated on the Drawings, follow manufacturer's recommendations and obtain approval in writing from Architect prior to proceeding.

**END OF SECTION**



**SECTION 051200**  
**STRUCTURAL STEEL FRAMING**

**PART 1 - GENERAL**

**1.01 Summary**

- A. This Section includes structural steel and miscellaneous steel members.
- B. Related Sections:
  - 1. 014000 (Quality Requirements).
  - 2. 014339 (Mockups, and Physical Quality Assurance Aids).
  - 3. 016100 (Product Requirements).
  - 4. 017310 (Execution).

**1.02 Quality Assurance**

- A. Comply with the following:
  - 1. AISC "Code of Standard Practice for Steel Buildings and Bridges."
  - 2. AISC "Specifications for the Design, Fabrication, and Erection of Structural Steel for Buildings" including "Commentary" as amended authorities having jurisdiction.
  - 3. AWS D1.1 / D1.1M "Structural Welding Code – Steel"

**1.03 Tests and Inspections**

- A. Special Inspections: Comply with special inspection requirements of authorities having jurisdiction including, but not limited to, those indicated on Drawings.

**PART 2 - PRODUCTS**

**2.01 Steel Members and Shapes**

- A. Steel Plate
  - 1. Comply with ASTM A 36.
- B. Steel Shelf Angle
  - 1. Comply with ASTM A 36.
- C. Steel Shim
  - 1. Comply with ASTM A 36.

- D. Fasteners (Carbon Steel)
  - 1. Comply with ASTM A 307, Grade A (Unfinished bolts and nuts) bearing registered head markings.

### **PART 3 - EXECUTION**

#### **3.01 Fabrication**

- A. Comply with AISC and approved Shop Drawings. Mark and match mark units for field assembly.
- B. Provisions for Other Work: Fabricate structural steel members to provide holes for securing other Work and for passage of other Work through steel framing as indicated. Field cutting or burning of holes will not be permitted.
- C. Connections: As shown on approved Shop Drawings.
  - 1. Except as otherwise indicated, use ASTM A307 bolts or welds for field connections.
  - 2. Except as otherwise indicated, fabricator shall design welded connections to be stressed to less than 50% capacity.
- D. Splices shall be designed to develop the full capacity of the member at the point of the splice. Beam splices shall be welded, full moment connections. Notify Architect in writing before performing splices, provide five (5) business days notice.
- E. Comply with AWS Code for procedures, appearance, and quality of welds. Minimum size fillet weld shall be 1/4".

#### **3.02 Shop Painting**

- A. Comply with Section 099713 (Steel Coatings).

#### **3.03 Erection**

- A. Comply with AISC and approved Shop Drawings.

**END OF SECTION**

**SECTION 055200**  
**METAL RAILINGS**

**PART 1 - GENERAL**

**1.01 Summary**

- A. This Section includes aluminum guardrail systems.
- B. Related Sections:
  - 1. 014000 (Quality and Code Requirements).
  - 2. 014339 (Mockups and Physical Quality Assurance Aids).
  - 3. 016100 (Product Requirements).
  - 4. 017310 (Execution).

**1.02 Definitions**

- A. Definitions in ASTM E 985 for railing related terms apply to this Section.

**1.03 Submittals**

- A. Product Data: For each product specified in Part 2 - Products.
- B. Samples:
  - 1. Guardrail Assembly: Two (2) 12" long Samples of each guardrail assembly including, top rails, posts, balusters, splice plates, solid bars, pipe collars and fasteners. Samples shall 12" long.
  - 2. Color Samples: Six (6) 6" square Samples of each finish and color selected.
  - 3. Fittings (On-demand): For each type of fitting and bracket to be incorporated in the Work, including typical welded connection.
- C. Field Quality Control Test Reports:
  - 1. Railing System Test Reports.
- D. Manufacturer Approved Installer Credentials: Prior to commencing installation, submit installer credentials issued by manufacturer of metal railing system/products.
- E. Shop Drawings: Showing details of fabrication and installation for each type and material of handrail and railing system required including plans,

elevations, sections, profiles of rails, fittings, connections, and anchors. Provide templates for anchor and bolt installation by others.

- F. Structural Calculations (Delegated Design): Prepared by a qualified professional engineer, evidencing compliance of handrails and railing systems with design loadings indicated.

#### **1.04 Performance Requirements**

- A. Structural Performance of Railing System: Design, engineer, fabricate, and install railing system to withstand the following structural loads without exceeding the allowable design working stress of the materials for railing systems, anchors, and connections. Apply each load to produce the maximum stress in each of the respective components comprising handrails and railing systems.
  - 1. Top Rail of Guardrail Systems:
    - a. Horizontal Loading: Concentrated load of 300 lb applied at any point;  
Uniform load of 100 lb/ft
    - b. Vertical Loading (downward): Concentrated load of 300 lb applied at any point; Uniform load of 100 lb/ft
  - 2. Infill Area of Guardrail Systems:
    - a. Horizontal Loading: Concentrated load of 200 lb applied at any one sq. ft. at any point in the system.
  - 3. Note: Concentrated and uniform loads above need not be assumed to act concurrently.

#### **1.05 Test and Inspections**

- A. Field Quality Control Testing:
  - 1. Railing System Testing:
    - a. Testing: Test railing system for compliance with ASTM E 985.
    - b. Test Reports: Reports shall include date of test, locations, test method, and test results stating whether railing system complies, or does not comply with the requirements.

#### **1.06 Warranty**

- A. The Contractor shall warrant the materials to be free of faults and defects in accordance with the General Conditions.

## **PART 2 - PRODUCTS**

### **2.01 Railing Systems**

- A. Aluminum Railing System
  - 1. Acceptable Manufacturers: Subject to compliance with the requirements, following is a list of acceptable manufacturers offering railing systems:
    - a. Blumcraft of Pittsburgh
    - b. Julius Blum & Co., Inc.
    - c. York Metal Fabricators, Inc.
    - d. American Railing Design, Inc.
    - e. Contractor's Fabricator, approved in advance in writing by Architect

### **2.02 Metals**

- A. Comply with standards indicated for forms and types of metals indicated or required for guardrail system components.

### **2.03 Fasteners, Anchors and Inserts**

- A. Use fasteners of same basic metal as the fastened metal, unless otherwise indicated. Do not use metals which are corrosive or incompatible with materials joined. Use concealed fasteners for interconnection of handrail and railing components and for their attachment to other work, except where otherwise indicated.
- B. Provide anchors of type, size, and material required for type of loading and installation condition shown, as recommended by manufacturer, unless otherwise indicated. Use nonferrous metal of hot dipped galvanized anchors and inserts for exterior locations and elsewhere as required for corrosion resistance. Use toothed steel or expansion bolt devices for drilled in place anchors.

### **2.04 Fabrication**

- A. Fabricate handrails and railing systems to design, dimensions and details shown. Provide handrail and railing members in sizes and profiles indicated, with supporting posts and brackets of size and spacing shown, but not less than required to comply with requirements indicated for structural performance.



- B. Fabricate posts and railings in sizes and profiles to fit applications indicated.
- C. Pre-assemble items in shop to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Clearly mark units for re-assembly and coordinated installation.
- D. Provide welded connections of handrail and railing members. Use welding method which is appropriate for metal and finish indicated and develops strength required to comply with structural performance criteria. Finish exposed welds and surfaces smooth, flush, and blended to match adjoining surfaces.
- E. For handrails and railing systems with nonwelded connections which are exposed to exterior or to moisture from condensation or other sources, provide weepholes or other means for evacuation of entrapped water in hollow sections of railing members.
- F. Furnish inserts and other anchorage devices for connecting handrails and railing systems to concrete or masonry work. Fabricate anchorage devices which are capable of withstanding loadings imposed by handrails and railing systems. Coordinate anchorage devices with supporting structure.

## **2.05 Metal Finishes**

- A. Comply with NAAMM "Metal Finishes Manual" for recommendations and designations of finishes, except as otherwise indicated.

## **2.06 Color and Finish**

- A. As noted on Drawings or as selected by Architect from manufacturer's standard colors and finishes.

## **PART 3 - EXECUTION**

### **3.01 General**

- A. Verify field dimensions on site prior to shop fabrication.

- B. Coordinate with roofing and substrate Work to receive, properly fit and/or interface with railing Work as required to ensure that each element of this Work performs properly and that combined elements are sound, waterproofed and properly secured. Anchor and secure to substrate to withstand lateral and thermal stresses. Include provisions for controlled expansion of railings and components relative to themselves and to adjoining dissimilar materials.
- C. Joints: Provide proper caulking at joints where required.
- D. Isolation: Where metal surfaces of units installed are in contact with dissimilar metal or corrosive substrates, including wood and concrete, apply bituminous coating on concealed metal surfaces and/or provide other permanent separation as recommended by the manufacturer.

### **3.02 Preparation**

- A. Coordinate setting drawings, diagrams, templates, instructions, and directions for installation of anchorage, such as sleeves, concrete inserts, anchor bolts, and miscellaneous items having integral anchors, which are to be embedded in concrete or masonry construction. Coordinate delivery of such items to project site.

### **3.03 Installation**

- A. Fit exposed connections accurately together to form tight, hairline joints.
- B. Perform cutting, drilling, and fitting required for installation of guardrail system. Set work accurately in location, alignment, and elevation, plumb, level, true, and free of rack, measured from established lines and levels. Do not weld, cut, or abrade surfaces of handrails and railing components which have been coated or finished after fabrication and are intended for field connection by mechanical means without further cutting or fitting.
- C. Field Welding: Comply with applicable AWS specification for procedures of manual shielded metal arc welding, for appearance and quality of welds made, and for methods used in correcting welding Work. Weld connections which are not to be left as exposed joints, but can not be shop welded because of shipping size limitations. Grind exposed welded joints smooth and restore finish to match finish of adjacent rail surfaces.

- D. Corrosion Protection: Coat concealed surfaces of aluminum, which will be in contact with grout, concrete, masonry, wood, or dissimilar metals, with a heavy coat of bituminous paint or zinc chromate primer.
- E. Adjust handrails and railing systems prior to anchoring to ensure matching alignment at abutting joints. Space posts at interval indicated but not less than that required by design loadings.

### **3.04 Expansion Joints**

- A. Expansion Joints: Provide expansion joints at locations indicated or, if not indicated, at intervals not to exceed 40 feet. Provide slip joint internal sleeve extending 2" beyond joint on either side; fasten internal sleeve securely to one side, locate joint within 6" of post.

**END OF SECTION**

**SECTION 075200**  
**MODIFIED BITUMINOUS MEMBRANE ROOFING**

**PART 1 - GENERAL**

**1.01 Summary**

- A. This Section includes modified bituminous membrane roofing systems, and related substrate restoration, insulation, vapor barriers, flashing, and accessories.
- B. Related Sections:
  - 1. 014000 (Quality Requirements).
  - 2. 014339 (Mockups, and Physical Quality Assurance Aids).
  - 3. 016100 (Product Requirements).
  - 4. 017310 (Execution).

**1.02 Submittals**

- A. Product Data: For each product specified in Part 2 - Products.
- B. Samples:
  - 1. Initial Membrane: Sample shall be 12" square.
  - 2. Cap Sheet: For each color surface cap sheet to be exposed as finished roof surface. Samples shall be 12" square.
  - 3. Felts: For each type of roofing felt to be incorporated in the Work. Samples shall be 12" square.
  - 4. Fiberglass Mesh: Sample shall be 12" square.
  - 5. Insulation: For each type of insulation to be incorporated in the Work. Samples shall be 12" square.
  - 6. Protection Board: Samples shall be 12" square.
  - 7. Roof Walkway: Samples shall be 12" square.
- C. Shop Drawings (Tapered Insulation): Showing dimensions and arrangement of tapered insulation panels.
- D. Manufacturer Approved Installer Credentials: Prior to pre-installation conference, submit installer credentials issued by manufacturer of roofing products.
- E. Pre-construction Test Reports:
  - 1. Deck Dryness Test Reports.

- F. Warranty Prerequisites:
  - 1. Sample Warranty: Prior to pre-installation conference, submit sample warranty and warranted application procedures from manufacturer.
  - 2. Manufacturer Inspection Reports/Certifications (On-demand).

### **1.03 Quality Assurance**

- A. Pre-installation Conference: Prior to starting roofing Work, conduct an on-site conference to review the detailed requirements of the Work.
  - 1. Attendees shall include Contractor's Project manager and superintendent, Architect's Project representative, Owner's Project representative, manufacturer's authorized representative, manufacturer approved installer. Provide seven (7) business days advance notice to attendees.
  - 2. Agenda shall include:
    - a. Manufacturer approved installer credentials.
    - b. Sample warranties and warranted application procedures.
    - c. Project construction schedule.
    - d. Weather conditions.
    - e. Condition of substrate and preparation.
    - f. Preparation Work performed by other trades.
    - g. Proposed equipment.
    - h. Installation sequence.
    - i. Penetrations.
    - j. Mockups.
    - k. Tests and inspections.

### **1.04 Tests and Inspections**

- A. Pre-construction Testing:
  - 1. Deck Dryness Test:
    - a. Testing: Perform NRCA deck dryness test daily, immediately prior to, and at each location of the Work.
    - b. Test Reports: Reports shall include date of test, locations, test method, and test results.

### **1.05 Project Conditions**

- A. Weather Conditions: Proceed with roofing Work only when existing and predicted weather conditions will permit Work to be performed in accordance with manufacturer's recommendations and warranty requirements.

- B. Substrate Conditions: Do not install roofing on wet insulation or other moist substrates. Do not apply hot bitumen under a condition which would cause foaming (due to moisture).

## **1.06 Warranty**

- A. Roofing System Manufacturer's Warranty: Written form in which manufacturer agrees to furnish products and labor to repair or replace those areas of roofing system that do not comply with performance and other requirements specified in the Contract Documents during the warranty period. Manufacturer shall warranty the complete roofing system including, but not limited to all membranes, insulation, cover boards, flashing, fasteners, and embedded edge metal.
  - 1. Warranty Period: Twenty (20) Years, No Dollar Limit (NDL), Total System Warranty.
  - 2. Wind Rider for full term of Warranty Period and for wind speeds of 110 MPH.
  
- B. Manufacturer's Inspection and Certification:
  - 1. Coordinate inspections required by manufacturer. Provide three (3) business days notice to manufacturer's authorized representative to inspect Work at the required milestones or intervals. No Work is to proceed until after each inspection is completed with written acceptance by manufacturer's authorized representative.
  - 2. Upon acceptance of completed Work by manufacturer, obtain manufacturer's certification stating that the Work complies with the requirements for Warranty.
  - 3. The system must meet requirements for wind speeds of 110MPH and also obtain manufacturer's certification stating that the Work complies with the requirements for Warranty.
  
- C. Contractor's Warranty: In addition to the provisions of the manufacturer's warranty, the following items shall be covered under the Contractor's warranty:
  - 1. Wind blow-off of roofing or associated Work will be considered a failure of materials and workmanship.
  - 2. Ponding of water on any roof surface for longer than 24 hours after a rain will be considered a failure of materials and workmanship.

## **PART 2 - PRODUCTS**

### **2.01 General**

- A. All products in this Section must be acceptable to the manufacturer of the overall roofing system.
- B. The following abbreviations are used:
  - 1. SBS: Styrene-Butadiene-Styrene modified asphalt

### **2.02 SBS Modified Bituminous Membrane (Hot Mopped)**

- A. SBS 2-Ply Membrane (Hot Mopped) Type M
  - 1. John Manville System - 2CID (Mineral Surface)  
Base Ply: DynaPly Johns Manville  
Cap Sheet: DynaKap Johns Manville

OR

  - 2. Siplast System - 2030 IH (Mineral Surface)  
Base Ply: P 20 EG Siplast  
Cap Sheet: P 30 FR Siplast

### **2.03 Initial Roofing Membrane**

- A. Initial Roofing Membrane
  - 1. Provide two (2) plies of fiberglass felt complying with ASTM D 2178, Type VI, set in and glaze-coated with hot moppings of ASTM D 312, Type III asphalt.

### **2.04 Rigid Roof Insulation - Factory Tapered**

- A. Polyisocyanurate Foam Board Insulation / Tapered
  - 1. Tapered ENRGY 2 Johns Manville
  - 2. Tapered Paratherm Siplast
- B. Perlite Board Insulation / Tapered
  - 1. Tapered Fesco Johns Manville
  - 2. Tapered panels as approved by the manufacturer Siplast

- C. Provide factory-tapered 24" x 48", or 48" x 48" boards to provide slope to drain where indicated, fabricated with taper of 1/8" per foot minimum.
- D. Adhere insulation to deck and at each layer with 2-part adhesive as approved by manufacturer for wind speed requirements.

## **2.05 Rigid Roof Insulation - Flat**

- A. Polyisocyanurate Foam Board Insulation
  - 1. ENRGY 2 Johns Manville
  - 2. Paratherm Siplast
- B. Perlite Board Insulation
  - 1. Fesco Johns Manville
  - 2. Panels as approved by the manufacturer Siplast
- C. Provide 24" x 48", 48" x 48", or 48" x 96" insulation boards of thickness noted on the Drawings.
- D. Adhere insulation to deck and at each layer with 2-part adhesive as approved by manufacturer for wind speed requirements

## **2.06 Roof Membrane Flashing**

- A. Roof Membrane Flashing
  - 1. As provided by manufacturer of overall roofing system.

## **2.07 Fluid Applied Membrane Flashing**

- A. Fluid Applied Membrane Flashing
  - 1. Permaflash Bituminous Flashing System Johns Manville
  - 2. Parapro 123 Fluid Applied Flashing Siplast
- B. Fluid applied membrane flashings are to be included in the warranty provided by the manufacturer of the overall roofing system.

## **2.08 Flashing Cement and Utility Mastic**

- A. Flashing Cement
  - 1. MBR Flashing Cement Johns Manville
  - 2. PA 828 Flashing Cement Siplast
- B. Utility Mastic



1. MBR Utility Cement Johns Manville
2. PA 1021 Plastic Cement Siplast

## 2.09 Surface Primer

- A. Primer
  1. Concrete Primer Johns Manville
  2. PA 1125 Primer Siplast

## 2.10 Roof Protection Board

- A. Rigid Protection Board
  1. Asphaltic-impregnated perlite protection board
  2. Note: Roof protection board must be acceptable to the manufacturer of the overall roofing system.

## 2.11 Roof Walkway

- A. Roof Walkway
  1. Dynatred Johns Manville
  2. Paratread Siplast

## 2.12 Accessories

- A. Expansion Joints and Expansion Joint Covers
  1. Expand-O-Flash Johns Manville
  2. Paraguard Siplast

For roof-to-roof joints and roof-to-wall joints, as per the roofing manufacturer's warranty requirements.

- B. Masonry Nails
  1. 1" long non-corrosive with 1" diameter neoprene washers
- C. Fire Retardant Cant Strip
  1. FesCant Plus Johns Manville
  2. Permalite Cant Strip Siplast
- D. Wood Nailer
  1. Exterior grade Alkaline Copper Quat (ACQ-B) pressure treated Douglas Fir
    - a. Use either G185 (min.) zinc coated hot-dipped galvanized steel, type 304/316 stainless steel, or copper for

fasteners/metal flashing in contact with ACQ-B wood. Do not combine stainless & galvanized steel.

- E. Fiberglass Mesh
  - 1. #31 Fiberglass Membrane Karnak
- F. All accessory products must be acceptable to the manufacturer of the overall roofing system.

### **2.13 Modified Repair Mortar & Grout (for Concrete Substrate)**

- A. Modified Repair Mortar
  - 1. Sika System (Early Strength Gaining):  
Cementitious Patching Material: SikaRepair 222 Sika Corporation  
Acrylic Latex Bonding Agent: SikaLatex R Sika Corporation
- B. Cementitious Grout (Non-Shrink)
  - 1. SikaGrout 212 Sika Corporation
  - 2. SonoGrout 10K Sonneborn (BASF)

## **PART 3 - EXECUTION**

### **3.01 Removal**

- A. Comply with 024119 (Selective Demolition).

### **3.02 Preparation of Substrate**

- A. Examine substrate surfaces to receive built up roofing system and associated work and conditions under which roofing will be installed. Do not proceed with roofing until unsatisfactory conditions have been corrected.
- B. Concrete Substrate:
  - 1. Repair surface spalls using modified repair mortar. Follow manufacturer's recommendations regarding storage conditions, surface preparation and protection, mixing ratio, application time, and finishing time.
  - 2. Prime before base sheet/initial-membrane application, with 1.0 gal. per square of asphalt cut back primer (ASTM D 41).
  - 3. Tape joints of substrate where required to prevent penetration by roofing materials.

- C. Protect substrate with installation of initial roofing membrane, or by immediate installation of new roofing membrane. Expose only that portion of substrate at any one time which may be immediately protected.
- D. Substrate Moisture: Do not install roofing on wet insulation or other moist substrates. Do not apply hot bitumen under a condition that would cause foaming (due to moisture).

### **3.03 Installation of Insulation**

- A. Comply with instructions and recommendations of insulation manufacturer and roofing system manufacturer for the installation and bonding or anchorage of insulation to substrate.
  - 1. Clean initial-membrane as recommended by manufacturer to ensure full bonding of insulation.
  - 2. Trim surface of insulation where necessary at roof drains so completed surface is flush with ring of drain.
- B. Cant Strips: Install cant strips as shown on drawings per roofing manufacturers recommendations.
- C. Tapered Edge Strips: Install tapered edge strips where possible, where edges of roofing do not adjoin a vertical surface, to raise edges of roof membrane above main roof surface, and where indicated on drawings.

### **3.04 Roof Membrane Installation**

- A. Install roof membrane system according to the manufacturer's recommendations and specifications for the systems specified.
- B. Seal edges of built up roofing to prevent flow of bitumen into building and drains. Provide envelope of roofing felt or, where envelope is not possible, provide large beads of roofing cement.

### **3.05 Roof Walkway Pads**

- A. Walkways: Install walkway protection pads in accordance with manufacturer's instructions at locations shown on Drawings.

**END OF SECTION**

**SECTION 075600**  
**FLUID APPLIED ROOFING**

**PART 1 - GENERAL**

**1.01 Summary**

- A. This Section includes fluid applied membrane roofing/waterproofing systems, and related substrate restoration, primers, reinforcing mats, flashing, surfacing aggregates, and accessories.
- B. Related Sections:
  - 1. 014000 (Quality Requirements).
  - 2. 014339 (Mockups, and Physical Quality Assurance Aids).
  - 3. 016100 (Product Requirements).
  - 4. 017310 (Execution).

**1.02 Submittals**

- A. Product Data: For each product specified in Part 2 - Products.
- B. Samples:
  - 1. Membrane: Sample shall be 6" square, and representative of color, texture, thickness, and surfacing of membrane to be incorporated in the Work.
  - 2. Surfacing Aggregate: Sample shall be 3 lbs. of surfacing material to be incorporated in the Work.
- C. Manufacturer Approved Installer Credentials: Prior to pre-installation conference, submit installer credentials issued by manufacturer of roofing/waterproofing products.
- D. Pre-construction Test Reports:
  - 1. Membrane Bond Strength Test Reports:
  - 2. Deck Dryness Test Reports.
- E. Warranty Prerequisites:
  - 1. Sample Warranty: Prior to pre-installation conference, submit sample warranty and warranted application procedures from manufacturer.
  - 2. Manufacturer Inspection Reports/Certifications (On-demand).

### 1.03 Quality Assurance

- A. Pre-installation Conference: Prior to starting roofing/waterproofing Work, conduct an on-site conference to review the detailed requirements of the Work.
  - 1. Attendees shall include Contractor's Project manager and superintendent, Architect's Project representative, Owner's Project representative, manufacturer's authorized representative, manufacturer approved installer. Provide seven (7) business days advance notice to attendees.
  - 2. Agenda shall include:
    - a. Manufacturer approved installer credentials.
    - b. Sample warranties and warranted application procedures.
    - c. Project construction schedule.
    - d. Weather conditions.
    - e. Condition of substrate and preparation.
    - f. Preparation Work performed by other trades.
    - g. Proposed equipment.
    - h. Mixing procedures.
    - i. Installation sequence.
    - j. Odor control procedures.
    - k. Penetrations.
    - l. Mockups.
    - m. Tests and inspections.

### 1.04 Tests and Inspections

- A. Pre-construction Testing:
  - 1. Membrane Bond Strength Testing:
    - a. Testing: Perform random tensile bond strength of membrane to substrate tests according to manufacturer's requirements.
    - b. Test Reports: Reports shall include date of test, locations, test method, and test results, whether the results comply, or do not comply with performance requirements.
    - c. Acceptance: Obtain Architect's written acceptance of test results before proceeding with the Work.
    - d. Re-testing: If necessary, after additional preparation per manufacturer's recommendations, repeat testing to verify suitability of substrate preparation.
  - 2. Deck Dryness Test:

- a. Testing: Determine substrate moisture content, throughout Work, at location of application according to manufacturer's requirements.
  - b. Test Reports: Reports shall include date of test, locations, test method, and test results.
- B. Substrate Moisture Tests: Determine substrate moisture content, throughout Work, at location of application according to manufacturer's requirements.
- C. Additional Tests: Perform Additional Tests as recommended by manufacturer.

### **1.05 Project Conditions**

- A. Weather Conditions: Proceed with roofing/waterproofing Work only when existing and predicted weather conditions will permit Work to be performed in accordance with manufacturer's recommendations and warranty requirements.
- B. Substrate Conditions: Do not install roofing/waterproofing on wet or moist substrates.

### **1.06 Warranty**

- A. Roofing/Waterproofing System Manufacturer's Warranty: Written form in which manufacturer agrees to furnish products and labor to repair or replace those areas of roofing/waterproofing system that do not comply with performance and other requirements specified in the Contract Documents during the warranty period. Manufacturer shall warranty the complete roofing/waterproofing system including, but not limited to membranes, flashing, and embedded edge metal.
- 1. Warranty Period: Twenty (20) Years, No Dollar Limit (NDL).
- B. Manufacturer's Inspection and Certification:
- 1. Coordinate inspections required by manufacturer. Provide three (3) business days notice to manufacturer's authorized representative to inspect Work at the required milestones or intervals. No Work is to proceed until after each inspection is completed with written acceptance by manufacturer.

2. Upon acceptance of completed Work by manufacturer, obtain manufacturer's certification stating that the Work complies with the requirements for Warranty.
- C. Contractor's Warranty: In addition to the provisions of the manufacturer's warranty, the following items shall be covered under the Contractor's warranty for the period indicated in the Supplementary General Conditions:
1. Wind blow-off of roofing/waterproofing or associated Work will be considered a failure of materials and workmanship.
  2. Ponding of water on any roof surface for longer than 24 hours after a rain will be considered a failure of materials and workmanship.

## **PART 2 - PRODUCTS**

### **2.01 Liquid Membrane**

- A. Membrane
1. Kemper BR Roofing & Waterproofing System:
 

Resin:	Kemperol BR	Kemper
Catalyst:	Kemperol Catalyst Powder	Kemper
Fleece:	Kemporal Fleece 200	Kemper

### **2.02 Surface Primer**

- A. Primer
1. For Metal, Wood, and Bituminous Substrate:
    - a. Kemperol D Primer Kemper
  2. For Cementitious, and Masonry Substrate:
    - a. Kemperol EP Primer Kemper

### **2.03 Additives**

- A. Warm Weather Additive: Kemperol C3 Inhibitor by Kemper Systems, Inc.
- a. Additive specifically designed to slow resin catalyzation in warm weather.
  - b. Use as per manufacturer's recommendations.
- B. Cold Weather Additive: Kemperol Cold Activator by Kemper Systems, Inc.
- a. Additive specifically designed to increase resin catalyzation process in cold weather.
  - b. Use as per manufacturer's recommendations.

## 2.04 Related Materials

- A. Patching Compound
  - 1. 10-60 Rapid Mortar Thoroc (BASF)  
  
OR
  - 2. SikaRepair 122 Plus Sika Corporation  
  
OR
  - 3. Kemper Patching Compound System:  
Resin: Kemperol BR      Kemper  
Sand: Washed, dust free, kiln dried silica sand (size as recommended by Manufacturer)  
Mix: 1:3 resin to sand ratio by volume
  
- B. Leveling Compound
  - 1. 10-60 Rapid Mortar Thoroc (BASF)  
  
OR
  - 2. SikaRepair 122 Plus Sika Corporation  
  
OR
  - 3. Kemper Patching Compound System:  
Resin: Kemperol BR      Kemper  
Sand: Washed, dust free, kiln dried silica sand (size as recommended by Manufacturer)  
Mix: 1:2 resin to sand ratio by volume
  
- C. Sealer
  - 1. Kemperol Sealer      Kemper
  
- D. Skid Resistant Surfacing
  - 1. 0.45-0.55 mm size kiln dried silica sand to be washed, kiln-dried, and dust-free
  
- E. Separation Layer
  - 1. 0.010" Polyethylene film conforming to ASTM C 171.



- F. Manufacturer's Approval Required: Materials of this section are not covered under the warranty unless the manufacturer has given written approval. Submit manufacturer's written approval prior to use.

### **PART 3 - EXECUTION**

#### **3.01 General:**

- A. All products in this Section must be acceptable to the manufacturer of the overall roofing/waterproofing system.
- B. Coordinate the installation so that each completed area is made watertight at the end of each day.

#### **3.02 Odor Control Measures**

- A. Implement odor control and elimination measures prior to and during the application of the roofing/waterproofing materials. Strictly adhere to manufacturer's recommended methods for odor control.
- B. Comply with FM I-90, and UL.

#### **3.03 Preparation of Substrate**

- A. Substrate conditions are to be evaluated by Contractor, Architect, and roofing/waterproofing manufacturer to determine the extent of repair and leveling required.
- B. Unacceptable substrates, per manufacturer's warranty requirements, shall be brought to the Architect's attention in writing immediately upon discovery.
- C. Clean, level, and repair substrate in manner recommended by roofing/waterproofing manufacturer.
  - 1. Concrete:
    - a. Apply patching/leveling compound in strict accordance with the latest edition of the compound manufacturer's written instructions.
    - b. Allow time for curing of patching/leveling compounds, prior to application of membrane system, per membrane manufacturer's recommendations.

- D. Additional substrate preparation is required in the event tested tensile bond strengths and moisture do not meet manufacturer's recommendations.
- E. Inspection of Prepared Substrate: Provide two (2) business days written notice to Architect and roofing/waterproofing manufacturer to inspect fully prepared substrate. Implement additional preparation specified in writing by Architect or manufacturer. Obtain manufacturer's written acceptance prior to proceeding with Work.

### **3.04 Installation of Roofing/Waterproofing System**

- A. Install roofing/waterproofing system in strict accordance with the latest edition of the manufacturer's written instructions and recommendations.

**END OF SECTION**

**SECTION 076200**  
**FLASHING (SHEET METAL AND FLEXIBLE)**

**PART 1 - GENERAL**

**1.01 Summary**

- A. This Section includes in-wall and counter flashing, and related accessories.
- B. Excludes roof flashing and accessories, which are integrally installed with roofing membrane systems. Roof flashing is specified in the roofing Sections.
- C. Related Sections:
  - 1. 014000 (Quality Requirements).
  - 2. 014339 (Mockups, and Physical Quality Assurance Aids).
  - 3. 016100 (Product Requirements).
  - 4. 017310 (Execution).

**1.02 Submittals**

- A. Product Data: For each product specified in Part 2 - Products.
- B. Samples:
  - 1. Sheet Metal: For each type to be incorporated in the Work. Samples shall be 12" square.
  - 2. Pre-formed Sheet Metal Flashing: For each type to be incorporated in the Work. Samples shall be 12" long.
  - 3. Sheet Metal Counterflashing: For each type to be incorporated in the Work. Samples shall be 12" long.
  - 4. Accessories: For each type of termination bar, metal clip, strap, anchor, masonry nails (w/ washer), and fastener to be incorporated in the Work.
- C. Fabricator Qualifications: For sheet metal fabrications. Obtain written acceptance from Architect, prior to commencement with fabrication Work.

**PART 2 - PRODUCTS**

**2.01 Sheet Metal**

- A. Stainless Steel

1. Comply with AISI Type 302/304. ASTM A 167 2D annealed finish, soft, except where harder temper is required for forming or performance.
- B. Copper
1. Comply with ASTM B 370, cold rolled copper except where soft temper is required for forming.
- C. Lead Coated Copper
1. Comply with ASTM B 101, cold rolled copper except where soft temper is required for forming. Provide lead coating of 0.06 lbs. per sq. ft. on exposed copper surfaces.

## **2.02 Pre-Formed Sheet Metal Flashing**

- A. Pre-Formed Sheet Metal Flashing (Stainless Steel)
1. Break formed stainless steel, 24 gauge unless otherwise indicated
- B. Pre-Formed Sheet Metal Flashing (Copper)
1. Break formed lead coated copper, 16 oz. copper unless otherwise indicated. Lead coating of 0.06 lbs. per sq. ft. on exposed copper surfaces.

## **2.03 Sheet Metal Counterflashing**

- A. Counterflashing (at Cavity Wall / 2 Piece)
1. XT-1WA-16 ExTech

## **2.04 Fabric Flashing**

- A. Copper Composite Fabric Flashing
1. Multi-Flash 500 Series  
Copper Fabric Laminate (5 oz.) York
- B. Modified Bitumen Fabric Flashing
1. Bituthene 4000 W.R. Grace & Co.

## **2.05 Flashing Cement/ Utility Mastic**

- A. Utility Mastic
1. Cop-R-Tite York

- B. Flashing Cement
  - 1. MBR Flashing Cement (2 part) Johns Manville

## 2.06 Flashing Lap Tape

- A. Flashing Lap Tape
  - 1. Sure-Lap Seam Tape Karnak

## 2.07 Accessories

- A. Solder (for copper)
  - 1. 50 - 50 tin / lead solder (ASTM B 32), with rosin flux.
- B. Masonry Nails
  - 1. 1" long non-corrosive metal, with 1" diameter neoprene washers.
- C. Pressure Treated Wood Blocking
  - 1. Exterior Grade Alkaline Copper Quat (ACQ-B) pressure treated Douglas fir.
    - a. Use either G185 (min.) zinc coated hot-dipped galvanized steel, type 304/316 stainless steel, or copper for fasteners/metal flashing in contact with ACQ treated wood. Do not combine stainless & galvanized steel.
- D. Fasteners (Sheet Metal)
  - 1. Same metal as flashing/ sheet metal or other non-corrosive metal. For manufactured products, use fasteners recommended by manufacturer.
- E. Epoxy Seam Sealer
  - 1. 2-part non corrosive metal seam cementing compound, recommended by metal manufacturer for exterior / interior non moving joints.
- F. Bituminous Coating
  - 1. FS TT C 494 or SSPC paint 12, solvent type bituminous mastic, normally free of sulfur, compounded for 15 mil dry film thickness per coat.
- G. Mastic Sealant
  - 1. Polyisobutylene; non hardening, non skinning, nondrying, non migrating sealant.

- H. Adhesives
  - 1. Type recommended by flashing sheet manufacturer for waterproof / weather resistant seaming and adhesive application of flashing sheet.
- I. Metal Accessories
  - 1. Sheet metal clips, straps, anchoring devices and similar accessory units as required for installation of Work, matching or compatible with material being installed, non corrosive, size and gage required for performance.
- J. Clamp Assembly
  - 1. Sheet metal clips, straps, anchoring devices and similar accessory units as required for installation of Work, matching or compatible with material being installed, non corrosive, size and gage required for performance.
- K. Termination Bar
  - 1. Sheet metal clips, straps, anchoring devices and similar accessory units as required for installation of Work, matching or compatible with material being installed, non corrosive, size and gage required for performance.

## **2.08 Fabricated Units**

- A. General Metal Fabrication: Shop fabricate sheet metal units to greatest extent possible. Comply with details shown, and with applicable requirements of SMACNA "Architectural Sheet Metal Manual" and other recognized industry practices. Fabricate for waterproof and weather resistant performance; with expansion provisions for running, sufficient to permanently prevent leakage, damage or deterioration of the Work. Form units to fit substrates. Form exposed sheet metal Work without excessive oil canning, buckling and tool marks, true at line and levels indicated, with exposed edges folded back to form hems.
- B. Seams: Fabricate nonmoving seams in sheet metal with flat lock seams. For metal, tin edges to be seamed, form seams, and solder.
- C. Expansion Provisions: Where lapped or bayonet type expansion provisions in Work cannot be used, or would not be sufficiently water/weatherproof, form expansion joints of intermeshing hooked flanges, not less than 1" deep, filled with mastic sealant (concealed within joints).

- D. Sealant Joints: Where movable, non expansion type joints are indicated or required for proper performance of Work, form metal to provide for proper installation of elastomeric sealant, in compliance with SMACNA standards.

## **PART 3 - EXECUTION**

### **3.01 Installation Requirements**

- A. General: Except as otherwise indicated, comply with manufacturer's installation instructions and recommendations, and with SMACNA "Architectural Sheet Metal Manual".
- B. Anchor units of work securely in place by methods indicated, providing for thermal expansion of metal units. Conceal fasteners where possible.
- C. Bed flanges of work in a thick coat of bituminous roofing cement where required for waterproof performance.
- D. Install membrane flashing in accordance with manufacturer's recommendations. Seam adjacent flashing sheets with adhesive, seal and anchor edges in accordance with manufacturer's recommendations.
- E. Nail flanges of expansion joint units to curb nailers, at maximum spacing of 6". Fabricate seams at joints between units with minimum 3" overlap, to form a continuous waterproof system.

### **3.02 Blocking Installation**

- A. Install where indicated and where required for attaching other Work. Form to shapes indicated and cut as required for true line and level of attached work. Coordinate locations with other Work involved.
- B. Attach items to substrates to support applied loading. Recess bolts and nuts flush with surfaces unless otherwise indicated.
- C. Where wood-preservative-treated lumber is installed adjacent to metal decking, install continuous flexible flashing separator between wood and metal decking.
- D. Fasten wood blocking to preceding layers of wood blocking in such a manner that the nails penetrate a minimum of 1-1/4 inches.
  - 1. Fasten with two rows so that spacing in any one row should not exceed 24 inches.

2. Spacing shall not exceed 12 inches, 8 feet each way from outside corner.
  3. Withdrawal resistance should be 100 lb per nail minimum.
- E. Fasten wood blocking to concrete block walls with minimum 3/8" diameter stainless steel anchors. Fasten at 2-1/2 feet apart staggered if nailer is wider than 6 inches.

### **3.03 Cleanup and Protection**

- A. Clean exposed metal surfaces, removing substances which might cause corrosion of metal or deterioration of finish.
- B. Ensure that work will be without damage or deterioration, other than natural weathering, at time of substantial completion.

**END OF SECTION**



**SECTION 077113**  
**MANUFACTURED COPINGS AND FASCIAS**

**PART 1 - GENERAL**

**1.01 Summary**

- A. This Section includes manufactured sheet metal copings, fascias, and related accessories.
- B. Related Sections:
  - 1. 014000 (Quality Requirements).
  - 2. 014339 (Mockups, and Physical Quality Assurance Aids).
  - 3. 016100 (Product Requirements).
  - 4. 017310 (Execution).

**1.02 Submittals**

- A. Product Data: For each product specified in Part 2 - Products.
- B. Samples:
  - 1. Color Samples: Manufacturer's standard colors for fascia and coping products.
- C. Shop Drawings: Showing coping and fascia systems including layout, springs, cleats, fasteners, and splice plates.

**PART 2 - PRODUCTS**

**2.01 General**

- A. Stainless Steel products must comply with the following:
  - 1. Sheet: Strength and durability of 5005 H15, ASTM B 209.
  - 2. Stainless Steel Finishes:
    - a. Comply with NAAMM "Metal Finishes Manual" to produce uniformly finished products. For colored finishes, if any, provide colors or color matches indicated below. If not indicated, as selected by Architect through the submittal process.
    - b. Finish: High Performance Coating
- B. Fabrication: Fabricate fascias and coping covers in sizes and profiles required to fit applications indicated and to remain watertight. Include

provisions for controlled expansion of fascia and coping components relative to themselves and to adjoining dissimilar materials.

- C. Color: Color of fascias and coping covers shall be as shown on Drawings or as selected in writing by Architect from fabricator's standard colors.
- D. Miscellaneous Materials: Include exposed and concealed fasteners, sealants, flashing materials, seals and adhesive required for complete assembly of systems indicated.
- E. Where new roof membranes are being installed, products must be acceptable to the manufacturer of the overall roofing system.

## **2.02 Fascia Systems**

- A. Multi Part Fascia System
  - 1. Steel (24 GA):
    - a. Paraguard / Proform Siplast
    - b. Presto Lock / Presto Tite Johns Manville
- B. Multi Part Fascia System
  - 1. Aluminum (0.04" Thick):
    - a. Paraguard / Proform Siplast
    - b. Presto Lock / Presto Tite Johns Manville

## **2.03 Blocking & Fasteners**

- A. Pressure Treated Wood Blocking
  - 1. Exterior grade Alkaline Copper Quat (ACQ-B) pressure treated Douglas-fir
    - a. Use either G185 (min.) zinc coated hot-dipped galvanized steel, type 304/316 stainless steel, or copper for fasteners/metal flashing in contact with ACQ wood. Do not combine stainless & galvanized steel.
- B. Masonry Nails
  - 1. 1" long non-corrosive with 1" diameter neoprene washers

## **PART 3 - EXECUTION**

### **3.01 Installation**

- A. Coordinate installation with roofing systems, and other construction and substrates to produce a watertight assembly capable of withstanding inward and outward loading pressures, and thermal and lateral loads.
- B. Isolate metals from dissimilar metals or corrosive substrates using bituminous coatings or other means of permanent separation to prevent electrolytic corrosion.

### **3.02 Preparation of Substrate for Blocking**

- A. Remove all existing overlay material, roof membrane, and accessories (nails, etc.) to expose substrate. Do not damage substrate during removal.

### **3.03 Blocking Installation**

- A. Install where indicated and where required for attaching other Work. Form to shapes indicated and cut as required for true line and level of attached work. Coordinate locations with other Work involved.
- B. Attach items to substrates to support applied loading. Recess bolts and nuts flush with surfaces unless otherwise indicated.
- C. Where wood-preservative-treated lumber is installed adjacent to metal decking, install continuous flexible flashing separator between wood and metal decking.
- D. Fasten wood blocking to preceding layers of wood blocking in such a manner that the nails penetrate a minimum of 1-1/4 inches.
  - 1. Fasten with two rows so that spacing in any one row should not exceed 24 inches.
  - 2. Spacing shall not exceed 12 inches, 8 feet each way from outside corner.
  - 3. Withdrawal resistance should be 100 lb per nail minimum.
- E. Fasten wood blocking to concrete block walls with minimum 3/8" diameter stainless steel anchors. Fasten at 2-1/2 feet apart staggered if nailer is wider than 6 inches.

**END OF SECTION**

**SECTION 078400**  
**FIRESTOPPING**

**PART 1 - GENERAL**

**1.01 Summary**

- A. This Section includes firestopping at penetrations and juncture joints of fire-rated roofs, floors and walls.

**1.02 Related Documents**

- A. Refer also to the following Sections of the Specifications:
1. 014000 (Quality Requirements).
  2. 016100 (Product Requirements).
  3. 017300 (Removals Cutting and Patching).

**1.03 Definitions**

- A. Penetration: Any opening or foreign material passing through or into a fire-rated barrier.
- B. Fire-rated: Have the ability to withstand the effects of a standard fire exposure for a specified time period, as determined by qualified testing agency.
- C. Fire-rated Barrier: A floor, wall, partition or floor-ceiling assembly able to withstand a standard fire and hose stream test without failure.
- D. Fire Resistance Rating: The ability of a structure to act as a barrier to the spread of fire and to confine it to the area of origin. Ratings are expressed in hours and apply to beams, columns, floors, ceilings, roofs, walls and partitions.
- E. Firestopping: A means of sealing openings in fire-rated barriers to preserve or restore the fire resistance rating.
- F. Firestop System: A material, or combination of materials, installed to retain the integrity of fire-rated construction by maintaining an effective barrier against the spread of flame, smoke or gases through penetrations in fire-rated barriers. It shall be used in specific locations as follows:

1. Penetrations for the passage of duct, cable, cable tray, conduit, piping and electrical busways and raceways through fire-rated vertical barriers (walls and partitions), horizontal barriers (floor slabs and floor/ceiling assemblies), and vertical service shafts.
2. Openings between floor slabs and curtain walls.
3. Openings between structurally separate sections of walls or floors.
4. Construction joints between the top of walls and floor or roof slab and steel deck assemblies, or, concrete floor or roof slab.
5. Vertical service shafts at each floor level.
6. Expansion joints in walls and floors.
7. Openings and penetrations in fire-rated partitions or walls containing fire doors.
8. Other locations indicated in the Contract Documents.

#### **1.04 Submittals**

- A. Product Data: For each product specified in Part 2 - Products.
- B. Manufacturer Approved Installer Credentials (On-demand).
- C. Product Test Reports:
  1. Firestopping Test Reports.
- D. Manufacturer's Certifications (On-demand).
- E. Sample Warranty: Prior to commencing firestopping Work, submit sample warranty and warranted application procedures from manufacturer.

#### **1.05 Performance Requirements**

- A. Technical Requirements:
  1. Firestopping materials shall be UL Classified as "fill, void or cavity material" for use in through-penetration firestop systems.
  2. Firestop systems shall provide a fire resistance rating at least equal to the hourly resistance rating of the fire-rated barrier.
  3. Firestop systems shall have been tested in accordance with ASTM E 814 or UL 1479 under a minimum positive pressure of 0.01 in. of water.
- B. General Considerations:

1. Firestop systems do not re-establish the structural integrity of load bearing partitions. Contractor to consult the Architect prior to penetrating any load bearing assembly.
2. Firestop systems are not intended to support live loads or traffic. Contractor shall consult the Architect if there is reason to believe these limitations may be violated.
3. When more than one firestop system design is applicable, individual characteristics should be evaluated for secondary benefits in performance, e.g. water/air sealing, ease of installation/modification, or building movement.

## **1.06 Quality Assurance**

- A. Comply with the following:
  1. ASTM E 84.
  2. ASTM E 814.
  3. UL 1479.
  4. UL Fire Resistance Directory; Through-Penetration Firestop Systems (XHEZ), and Fill, Void or Cavity Materials (XHHW).
  5. UL 723 "Standard Test Method for Surface Burning Characteristics of Building Materials."
- B. Manufacturer's Certifications: Obtain the manufacturer's certification of the following:
  1. Materials and systems meet or exceed the specified requirements.
  2. Firestopping has been completed in full accordance with requirements of the Contract Documents.

## **1.07 Tests and Inspections**

- A. Product Testing:
  1. Firestopping Testing:
    - a. Testing: Test firestopping system application to substrate materials similar to Project conditions for compliance with requirements.
    - b. Test Reports: Reports shall include date of test, location, products used, test method, and test results stating whether firestopping system complies, or does not comply with requirements.
    - c. Acceptance: Obtain Architect's written acceptance of test results before proceeding with fireproofing Work.

## 1.08 Warranty

- A. Manufacturer shall provide a written warranty stipulating that its products and systems incorporated in the Work, if installed for the respective product or system in accordance with the manufacturer's recommendations, shall provide the firestopping specified in the Contract Documents, and as indicated by its UL rating for that specific installation.
- B. The warranty shall not include either or both of the following statements, or variations thereof:  
"Owner or User shall determine suitability of the product or system for its intended use and assume all risks and liabilities connected therewith".  
And/or  
"Owner or User shall test application of product or system for its specific use".

## PART 2 - PRODUCTS

### 2.01 Firestop Systems

- A. Firestop Sealant
  - 1. FlameSafe FS 900+ Sealant RectorSeal
  - 2. CP 606 Sealant Hilti, Inc.
  - 3. FireDam 150+ Sealant/ 3M Fire Protection Products
  - 4. TREMstop Acrylic Tremco Sealant Division

### 2.02 Materials

- A. Grout and sealant systems shall meet or exceed requirements as specified in this Section and shall be acceptable to the Architect.
- B. Firestopping systems shall meet the requirements of ASTM E 814, which include, but are not limited to, the following:
  - 1. Prevent flame pass-through.
  - 2. Restrict temperature to not exceed 325 degrees F over ambient on side of assembly opposite flames.
  - 3. Provide a positive smoke seal.
  - 4. Withstand hose stream test.
- C. Firestopping materials shall be asbestos-free, emit no toxic or combustible fumes and be capable of maintaining an effective barrier against flame, smoke, gas, and water in compliance with requirements of this Section.

- D. Firestopping materials/systems shall be flexible to allow for normal movement of building structure and penetrating items(s) without affecting the adhesion or integrity of the system.
- E. Firestopping materials shall not require hazardous waste disposal of used containers/packages.
- F. On insulated pipe, the fire-rating classification must not require the removal of the insulation.
- G. Firestopping materials shall be free of solvents and shall not experience shrinkage while curing.

### **PART 3 - EXECUTION**

#### **3.01 Examination**

- A. Verify that penetration elements are properly located and securely fixed, with the proper space between the penetration element and surfaces of the opening.

#### **3.02 Preparation**

- A. Clean surfaces of opening

#### **3.03 Installation**

- A. Install firestopping system in strict accordance with the manufacturer's instructions to obtain the fire-rating required at the specific location.
- B. Provide escutcheons for piping at each side of penetration.

#### **3.04 Field Quality Control**

- A. Inspect all installations to ensure that all Work meets the requirements specified.

### **END OF SECTION**





**SECTION 079200**  
**JOINT SEALANTS**

**PART 1 - GENERAL**

**1.01 Summary**

- A. This Section includes joint sealants, and related cleaners, primers and accessories (e.g., backer rod, etc.).
- B. Related Sections:
  - 1. 014000 (Quality Requirements).
  - 2. 014339 (Mockups, and Physical Quality Assurance Aids).
  - 3. 016100 (Product Requirements).
  - 4. 017310 (Execution).

**1.02 Submittals**

- A. Product Data: For each product specified in Part 2 - Products.
- B. Samples:
  - 1. Sealant: For each type and color of sealant to be incorporated in the Work. Samples shall be fully cured.
  - 2. Lead Weather Cap.
- C. Pre-construction Test Reports:
  - 1. Compatibility and Adhesion Test Reports.
  - 2. Field Adhesion Test Reports.
- D. Joint Sealant Installation Log (On-demand).
- E. Warranty Prerequisites:
  - 1. Sample Warranty: Prior to installation, submit sample warranty and warranted application procedures from manufacturer.
  - 2. Manufacturer Inspection Reports/Certifications (On-demand).

**1.03 Performance Requirements**

- A. Provide joint sealants that establish and maintain watertight and airtight continuous joint seals without staining or deteriorating joint substrates.

## 1.04 Tests and Inspections

- A. Pre-construction Testing:
  - 1. Compatibility and Adhesion Testing:
    - a. Test Specimens: Provide to joint sealant manufacturer four (4) test specimens of each Project joint substrate and other materials that will contact or affect joint sealants (e.g., shims, backings, secondary seals, etc.).
    - b. Testing: Manufacturer shall perform required tests to determine compatibility of materials with one another, and whether priming and other specific joint preparation techniques are required to obtain rapid, optimum adhesion of joint sealants to joint substrates.
    - c. Test Reports: Obtain from manufacturer test reports and written recommendations for primers and substrate preparation needed for adhesion. Where joint sealants are specified to be non-bleeding (or non-staining) to porous substrates, manufacturer shall certify that the sealant products have undergone testing according to ASTM C 1248 and have not stained porous joint substrates indicated for Project.
    - d. Acceptance: Obtain Architect's written acceptance of test reports and recommendations before proceeding with joint sealant Work.
  - 2. Field Adhesion Testing:
    - a. Performance Models: Construct performance models following joint sealant manufacturer's recommendations for removal of sealant and backings (at existing joints), joint preparation, and installation of sealant. Individual models shall be constructed for each combination of joint substrate and sealant represented on the Project, at locations determined by Architect, and each shall be a minimum of three (3) feet in length.
    - b. Testing: Follow joint sealant manufacturer's test recommendations. Where manufacturer does not specify test recommendations, follow Method A (Field-Applied Sealant Joint Hand Pull Tab) in Appendix X1.1 in ASTM C 1193 appropriate for the types of Project joints. For joints with dissimilar substrates, verify adhesion to each substrate separately.
      - 1) Arrange for Architect and manufacturer's authorized representative to be present at testing, provide five (5) business days notice.

- 2) Retest as necessary until satisfactory adhesion is obtained.
- c. Test Reports: Reports shall include date of test, location, date joint sealant was installed, Project joint substrates involved, joint preparation method, sealant and other products used, test method, and test results.
- d. Acceptance: Obtain Architect's written acceptance of test results before proceeding with joint sealant Work.

### **1.05 Joint Sealant Installation Log**

- A. Maintain a tabular log of all joint sealant installations including columns for date, temperature, weather conditions, and location(s).

### **1.06 Project Conditions**

- A. Do not proceed with installation of joint sealants (and primers) under the following conditions:
  1. When conditions are outside the limitations permitted by the product manufacturer.
  2. When ambient and joint substrate temperature is below 40° F.
  3. When joint substrates are damp or wet. Comply with ASTM C 1193 Paragraph 5.8.3 (Moisture) and Paragraph 16.2 (Environmental Conditions).
  4. When joints do not comply with requirements for joint configurations, and sealant installation tolerances.

### **1.07 Warranty**

- A. Joint Sealant Manufacturer's Warranty: Written form in which manufacturer agrees to furnish joint sealants to repair or replace those that do not comply with performance and other requirements specified in the Contract Documents during the warranty period.
  1. Warranty Period for Silicone Sealants: Twenty (20) Years, No Dollar Limit (NDL).
- B. Manufacturer's Inspection and Certification:
  1. Coordinate inspections required by manufacturer. Provide three (3) business days notice to manufacturer's authorized representative to inspect Work at the required milestones or intervals. No Work is to proceed until after each inspection is completed with written acceptance by manufacturer's authorized representative.

2. Upon acceptance of completed Work by manufacturer, obtain manufacturer's certification stating that the Work complies with the requirements for Warranty.

## **PART 2 - PRODUCTS**

### **2.01 General**

- A. Product Callout Abbreviations Key: Sealant product callouts include the following abbreviations:
  1. NT Non-traffic
  2. T Traffic
  3. NS Nonsag
  4. P Pourable
- B. Colors of Exposed Sealant Joints: Where not specifically indicated, Architect will select colors through the sample submittal process.

### **2.02 Sealants – For General Weathersealing (Non-traffic / Non-sag)**

- A. Sealant: NT(NS)
  1. 795 Silicone Building Sealant Dow Corning
  2. Silpruf SCS2000 Momentive Performance Materials

### **2.03 Cleaners and Primers**

- A. Cleaner
  1. Non-staining cleaner as recommended by sealant manufacturer for each substrate.
- B. Primer
  1. Non-staining primer as recommended by sealant manufacturer.

### **2.04 Accessories**

- A. Compressible Filler (Neoprene)
  1. #NS Closed Cell Neoprene Sponge Hohmann & Barnard
  2. DA 2010 Rapid Soft Joint Dur-O-Wal
- B. Pre-compressed Joint Sealant
  1. Colorseal Emseal
  2. VF Joint Sealant Construction Specialist, Inc.

3. illmod 600 Tremco
- C. Backer Rod
  1. As recommended by sealant manufacturer.
- D. Bond Breaker Tape
  1. As recommended by sealant manufacturer to prevent bond between sealant and joint filler or other materials at back surface of joint.
- E. Masking
  1. Pressure sensitive tape that will not leave residue upon removal from substrate (as manufactured by 3M).

### **PART 3 - EXECUTION**

#### **3.01 Removal of Existing Joint Treatment**

- A. Comply with Section 024119 (Selective Demolition) for removal of existing joint sealant (and backings as applicable).

#### **3.02 Preparation**

- A. Surface Cleaning of Joints: Clean out joints immediately before installation as follows:
  1. Remove all foreign material from joint substrates that could interfere with adhesion of joint sealant.
    - a. Clean porous joint substrate surfaces by brushing, grinding, blast cleaning, mechanical abrading, or a combination of these methods to produce a clean, sound substrate capable of developing optimum bond with joint sealants.
    - b. Remove loose particles remaining after cleaning operations above by vacuuming or blowing out joints with oil-free compressed air.
  2. Remove laitance and form-release agents from concrete joint substrates.
    - a. Clean nonporous surfaces with cleaner as recommended by manufacturer. Ensure that cleaner does not stain, harm, or leave residues capable of interfering with adhesion of joint sealants on joint substrates.

- B. Joint Priming: Prime joint substrates as recommended by joint sealant manufacturer. Confine primers to areas of joint-sealant bond; do not allow spillage or migration onto adjoining surfaces.
- C. Masking Tape: Use masking tape where required to prevent contact of sealant with adjoining surfaces that otherwise would be permanently stained or damaged by such contact or by cleaning methods required to remove sealant smears. Remove tape immediately after tooling without disturbing joint seal.

### **3.03 Installation**

- A. Sealant Installation Standard: Comply with recommendations in ASTM C 1193 for use of joint sealants as applicable to materials, applications, and conditions indicated.
- B. Install sealant backings of type indicated to support sealants during application and at position required to produce uniform cross-sectional shapes and depths of installed sealants relative to joint widths that allow optimum sealant movement capability.
  - 1. Do not leave gaps between ends of sealant backings.
  - 2. Do not stretch, twist, puncture, or tear sealant backings.
  - 3. Remove absorbent sealant backings that have become wet before sealant application and replace them with dry materials.
- C. Install sealants at the same time backings are installed and using proven techniques that comply with the following:
  - 1. Place sealants so they directly contact and fully wet joint substrates with sealant.
  - 2. Completely fill recesses in each joint configuration.
  - 3. Produce uniform, cross-sectional shapes and depths relative to joint widths that allow optimum sealant movement capability.
- D. Tooling of Nonsag Sealants: Immediately after sealant application and before skinning or curing begins, tool sealants according to requirements specified below to form smooth, uniform beads of configuration indicated; to eliminate air pockets; and to ensure contact and adhesion of sealant with sides of joint.
  - 1. Use tooling agents that are approved in writing by sealant manufacturer and that do not discolor sealants or adjacent surfaces.
  - 2. Provide concave joint configuration per Figure 8A in ASTM C 1193, unless otherwise indicated.

### **3.04 Cleanup**

- A. Clean off excess sealant or sealant smears adjacent to joints as the Work progresses by methods and with cleaning materials approved in writing by manufacturers of joint sealants, and manufacturers of joint substrate materials.

**END OF SECTION**



**SECTION 099713**  
**STEEL COATINGS**

**PART 1 - GENERAL**

**1.01 Summary**

- A. This Section includes coatings on steel substrates.
- B. This Section excludes coating the following metal surfaces: stainless steel, anodized aluminum, copper, bronze, and brass.
- C. Related Sections:
  - 1. 014000 (Quality Requirements).
  - 2. 014339 (Mockups, and Physical Quality Assurance Aids).
  - 3. 016100 (Product Requirements).
  - 4. 017310 (Execution).

**1.02 Submittals**

- A. Product Data: For each product specified in Part 2 - Products.
- B. Samples: For each coating type, color and steel substrate combination to be incorporated in the Work. Samples shall be fully cured, 8" square, with stepped coats to show each coat required for system; label each coat.

**1.03 Project Conditions**

- A. Apply coatings only when temperature of surfaces to be coated and surrounding air temperature are within manufacturer recommendations, and will remain so for at least 24 hours. Verify minimum temperatures listed with products in Part 2 of this Section with manufacturer.
- B. Do not apply coatings under the following conditions:
  - 1. When conditions are outside the limitations permitted by the product manufacturer.
  - 2. In snow, rain, fog, or mist.
  - 3. When relative humidity exceeds 85 percent.
  - 4. When temperatures are less than 5° F above the dew point.
  - 5. When surfaces are damp or wet, or when ice or frost is present on surfaces.

**PART 2 - PRODUCTS**

## 2.01 General

- A. Product Callout Abbreviations Key: Steel coating product callouts (e.g. 3ER) include the following abbreviations:
- 2 2 coats
  - 3 3 coats
  - I Interior
  - E Exterior
  - N New steel
  - R Restoration of steel
- B. Coatings by Category:
1. Universal Alkyd:
    - a. Sherwin Williams: Kem Bond HS Primer (1 part).  
3 mils (dry film thickness) per coat.  
Minimum application air and surface temperature is 40° F.
    - b. PPG: MultPrime 94-258 (1 part).  
3 mils (dry film thickness) per coat.  
Minimum application air and surface temperature is 50° F.
    - c. PPG: MultPrime 94-269 (1 part).  
3 mils (dry film thickness) per coat.  
Minimum application air and surface temperature is 50° F.
  2. Modified Alkyd:
    - a. Tnemec: V10 Primer (1 part).  
2.5 mils (dry film thickness) per coat.  
Minimum application air and surface temperature is 40° F.
  3. Epoxy:
    - a. PPG: Amerlock 2 (2 parts).  
6 mils (dry film thickness) per coat.  
Minimum application air and surface temperature is 20° F.
  4. Polyamidoamine Epoxy:
    - a. Sherwin Williams: Macropoxy 646 Fast Cure Epoxy (2 parts).  
6 mils (dry film thickness) per coat.  
Minimum application air and surface temperature is 35° F.
  5. Aliphatic Polyurethane:
    - a. PPG: Amercoat 450H (2 parts).  
3.5 mils (dry film thickness) per coat.  
Minimum application air and surface temperature is 20° F.
  6. Acrylic Polyurethane:
    - a. Sherwin Williams: Acrolon 218 HS (2 parts).  
4 mils (dry film thickness) per coat.

Minimum application air and surface temperature is 35° F.

- C. Colors of Coatings: Where not specifically indicated, Architect will select colors through the sample submittal process.

## 2.02 Exterior Steel Coatings (Restoration of Steel)

A. Steel Coating: 2ER

1. Sherwin Williams 2-Coat System:  
Prime Coat (Mill White Color): Macropoxy 646  
Fast Cure Epoxy Sherwin Williams  
Top Coat (Gray): Macropoxy 646  
Fast Cure Epoxy Sherwin Williams

OR

2. PPG 2-Coat System:  
Prime Coat (Red Color) Amerlock 2 PPG  
Second Coat (Gray Color) Amerlock 2 PPG

B. Steel Coating: 3ER

1. Sherwin Williams 3-Coat System:  
Prime Coat (Mill White Color): Macropoxy 646  
Fast Cure Epoxy Sherwin Williams  
Second Coat (Gray Color): Macropoxy 646  
Fast Cure Epoxy Sherwin Williams  
Top Coat (Black Color): Acrolon 218 HS Sherwin Williams

OR

2. PPG 3-Coat System:  
Prime Coat (Red Color): Amerlock 2 PPG  
Second Coat (Gray Color) Amerlock 2 PPG  
Top Coat (Black Color): Amercoat 450H PPG

## 2.03 Exterior Steel Coatings (New Steel)

A. Steel Coating: 2EN

1. Tnemec 2-Coat System:  
Prime Coat (Red Color): Primer V10 Tnemec  
Top Coat (Gray Color): Primer V10 Tnemec

OR

2. Sherwin Williams 2-Coat System:  
Prime Coat (Red Oxide Color): Kem Bond HS Primer  
Sherwin Williams  
Top Coat (Gray Color): Kem Bond HS Primer Sherwin  
Williams

OR

3. PPG 2-Coat System:  
Prime Coat (Red Oxide Color): MultiPrime 94-258 PPG  
Top Coat (Gray Color): MultiPrime 94-269 PPG

### **PART 3 - EXECUTION**

#### **3.01 Preparation**

- A. Surface Preparation:
  1. Clean substrates of substances that could impair bond of coatings, including dirt, oil, grease, and incompatible paints and encapsulants.
  2. Perform surface preparation and cleaning in compliance with coating manufacturer's instructions for the particular substrate conditions.
    - a. Where the manufacturer indicates more than one preparation standard, the better preparation (as determined in writing by the Architect) shall apply.
    - b. For exterior steel in restoration work, where the coating manufacturer does not specify preparation, prepare substrate in accordance with the following SSPC standard:
      - 1) For Restoration Work: SSPC-SP 3 "Power Tool Cleaning" and SSPC-VIS 3 "Guide and Reference Photographs for Steel Surfaces Prepared by Power and Hand Tool Cleaning"
    - c. For exterior steel in new construction work, where the coating manufacturer does not specify preparation, prepare substrate in accordance with the following SSPC standard:
      - 1) For New Construction Work: SSPC-SP 6 "Commercial Blast Cleaning" and SSPC-VIS 1 "Guide and Reference Photographs for Steel Surfaces Prepared by Dry Abrasive Blast Cleaning"
  3. For galvanized metal substrates, comply with manufacturer's instructions and ASTM D 6386.

### **3.02 Application**

- A. Apply coating systems as indicated on Drawings, and as follows:
  - 1. New Members (steel and galvanized steel):
    - a. Perform any indicated shop fabrication prior to application of coatings.
    - b. Apply complete coating system to all surfaces in shop prior to delivery to Project.
    - c. Touch up shop applied coating after erection. Clean field welds, bolted connections and abraded areas, and apply primer, intermediate coat (where applicable), and top coat.
  - 2. Existing Members (steel and galvanized steel):
    - a. Perform any indicated, drilling, structural welding or bolting prior to field application of coatings.
    - b. Apply coating system to all surfaces in field.
  - 3. Apply coatings to produce uniform surface films without cloudiness, holidays, laps, brush marks, runs, sags, or other surface imperfections.
  - 4. If undercoats or other conditions show through final coat, apply additional coats until cured film has a uniform coating finish, color, and appearance.

### **3.03 Touch-up**

- A. At completion of the Work of other trades, touch up and restore damaged or defaced coated surfaces.

**END OF SECTION**

**SECTION 221400**  
**FACILITY STORM DRAINAGE**

**PART 1 GENERAL**

**1.1 SUMMARY**

- A. Section Includes:
1. Storm water piping above grade.
  2. Unions and flanges.
  3. Pipe hangers and supports.
  4. Roof drains.
  5. Cleanouts.

**1.2 REFERENCES**

- A. American Society of Mechanical Engineers:
1. ASME A112.21.2M - Roof Drains.
  2. ASME B16.29 - Wrought Copper and Wrought Copper Alloy Solder Joint Drainage Fittings - DWV.
  3. ASME B31.9 - Building Services Piping.
- B. ASTM International:
1. ASTM A74 - Standard Specification for Cast Iron Soil Pipe and Fittings.
  2. ASTM C14M - Standard Specification for Concrete Sewer, Storm Drain, and Culvert Pipe (Metric).
  3. ASTM C76 - Standard Specification for Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe.
  4. ASTM C76M - Standard Specification for Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe (Metric).
  5. ASTM C443 - Standard Specification for Joints for Circular Concrete Sewer and Culvert Pipe, Using Rubber Gaskets.
  6. ASTM C443M - Standard Specification for Joints for Circular Concrete Sewer and Culvert Pipe, Using Rubber Gaskets (Metric).
  7. ASTM C478 - Standard Specification for Precast Reinforced Concrete Manhole Sections.
  8. ASTM C478M - Standard Specification for Precast Reinforced Concrete Manhole Sections (Metric).
  9. ASTM C564 - Standard Specification for Rubber Gaskets for Cast Iron Soil Pipe and Fittings.

- C. Cast Iron Soil Pipe Institute:

1. CISPI 301 - Standard Specification for Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications.
2. CISPI 310 - Specification for Coupling for Use in Connection with Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications.

### **1.3 SUBMITTALS**

- A. Shop Drawings: Indicate dimensions, weights, and placement of openings and holes for roof drains.
- B. Product Data:
  1. Piping: Submit data on pipe materials, fittings, and accessories. Submit manufacturers catalog information.
  2. Hangers and Supports: Submit manufacturers catalog information including load capacity.
  3. Storm Drainage Specialties: Submit manufacturers catalog information, component sizes, rough-in requirements, service sizes, and finishes.
- C. Manufacturer's Installation Instructions: Submit installation instructions for material and equipment.
- D. Manufacturer's Certificate: Certify products meet or exceed specified requirements.

### **1.4 DELIVERY, STORAGE, AND HANDLING**

- A. Protect piping systems from entry of foreign materials by temporary covers, completing sections of the Work, and isolating parts of completed system.

## **PART 2 PRODUCTS**

### **2.1 PIPE HANGERS AND SUPPORTS**

- A. Manufacturers:
  1. Carpenter & Paterson Inc.
  2. Creative Systems Inc.
  3. Flex-Weld, Inc.
  4. Glope Pipe Hanger Products Inc.
  5. Jay R. Smith Mfg. Co.

- B. Hangers for Pipe Sizes 2 inches (50 mm) and Larger: Carbon steel, adjustable, clevis.

## **2.2 ROOF DRAINS**

- A. Roof Drain :
  - 1. Assembly: ASME A112.21.2M.
  - 2. Body: cast iron with sump.
  - 3. Strainer: Removable Stainless Steel.
  - 4. Accessories: Coordinate with roofing type
    - a. Membrane flange and membrane clamp with integral stop.
    - b. Adjustable under deck clamp.
    - c. Roof sump receiver.
    - d. Waterproofing flange.
    - e. Leveling frame.
    - f. Adjustable extension sleeve for roof insulation.
    - g. Perforated or slotted ballast guard extension for inverted roof.

## **2.3 CLEANOUTS**

- A. Interior Unfinished Accessible Areas : Caulked or threaded type. Provide bolted stack cleanouts on vertical rainwater leaders.

## **PART 3 EXECUTION**

### **3.1 PREPARATION**

- A. Ream pipe and tube ends. Remove burrs.
- B. Remove scale and dirt, on inside and outside, before assembly.
- C. Prepare piping connections to equipment with flanges or unions.
- D. Keep open ends of pipe free from scale and dirt. Protect open ends with temporary plugs or caps.

### **3.2 INSTALLATION - HANGERS AND SUPPORTS**

- A. Inserts:
  - 1. Provide inserts for placement in concrete forms.



2. Provide inserts for suspending hangers from reinforced concrete slabs and sides of reinforced concrete beams.
  3. Provide hooked rod to concrete reinforcement section for inserts carrying pipe 4 inches and larger.
  4. Where concrete slabs form finished ceiling, locate inserts flush with slab surface.
- B. Pipe Hangers and Supports:
1. Install in accordance with ASME B31.9
  2. Support horizontal piping as scheduled.
  3. Install hangers to provide minimum 1/2 inch (15 mm) space between finished covering and adjacent work.
  4. Place hangers within 12 inches (300 mm) of each horizontal elbow.
  5. Use hangers with 1-1/2 inch (40 mm) minimum vertical adjustment. Design hangers for pipe movement without disengagement of supported pipe.

### 3.3 INSTALLATION - ABOVE GROUND PIPING

- A. Establish invert elevations, slopes for drainage to 1/8 minimum. Maintain gradients.
- B. Extend cleanouts. Lubricate threaded cleanout plugs with mixture of graphite and linseed oil. Provide clearance at cleanout for snaking drainage system.
- C. Install non-conducting dielectric connections wherever jointing dissimilar metals.
- D. Route piping in orderly manner and maintain gradient. Route parallel and perpendicular to walls.
- E. Install piping to maintain headroom. Group piping to conserve space.

### 3.4 SCHEDULES

PIPE HANGER SPACING		
PIPE MATERIAL	MAXIMUM HANGER SPACING Feet (m)	HANGER ROD DIAMETER Inches (mm)
Cast Iron (All Sizes)	5 (1.5)	5/8 (15)

Note for Cast Iron Pipe: Provide close to joint on barrel. Also provide hanger at each change of direction and each branch connection.

**END OF SECTION**



**BID SHEETS**  
**PIN: 072201440CPD**

roof hatches ( <b>FLA 07</b> ).	1l	\$ _____
1m. Install new perimeter flashing at ventilator ( <b>FLA 08</b> ).	1m	\$ _____
1n. Install new flashing at existing roof penetrations: pipe/railing ( <b>FLA 09</b> ).	1n	\$ _____
1o. Install new flashing at existing roof penetrations: angles/dunnage ( <b>FLA 10</b> ).	1o	\$ _____
1p. Install new perimeter in-wall flashing: brick ( <b>FLA 12</b> ), including brick removal & replacement as indicated on the details.	1p	\$ _____
1q. Install new roof edge flashing: fascia at tapered slab at K-Dormitory ( <b>FLA 16</b> ), including brick removal & replacement as indicated on the details.	1q	\$ _____
1r. Install new roof edge flashing: fascia at exterior stair ( <b>FLA 17</b> ), including brick removal & replacement as indicated on the details.	1r	\$ _____
1s. Install new roof-to-roof expansion joints ( <b>JNT 01</b> ).	1s	\$ _____
1t. Install new roof-to-wall expansion joints ( <b>JNT 02</b> ).	1t	\$ _____
1u. Install new door saddle flashing and reset door saddle ( <b>DOR 01</b> ).	1u	\$ _____
1v. Install new guardrail ( <b>RAI 01</b> ).	1v	\$ _____
1w. Install new gutter/leader at exterior stair ( <b>SHM 01</b> ).	1w	\$ _____
1x. Install new gutter/leader at roof edge ( <b>SHM 02</b> ).	1x	\$ _____
1y. Install new downspout ( <b>SHM 03</b> ).	1y	\$ _____
1z. Install new roof walkway pads.	1z	\$ _____
1aa. Install new soffits for new and existing drains.	1aa	\$ _____
1bb. Install new soffit access doors.	1bb	\$ _____
1cc. Provide an allowance for brick veneer stabilization ( <b>ANC 01</b> ). Contractor shall provide a	1cc	_____ <u>\$200,000.00</u> _____

**BID SHEETS**  
**PIN: 072201440CPD**

Unit Price per anchor for this item.  
\$ \_\_\_\_\_

1dd. Provide an allowance for Concrete Spall repairs:  
roof deck. 1dd \_\_\_\_\_ \$91,000.00  
Contractor shall provide a Unit Price  
per square foot for this item.  
\$ \_\_\_\_\_

1ee. Provide an allowance for removal and replacement  
of lintel masonry below the roof edge fascia work  
(MAS 01), including flashing and new steel lintels. 1ee \_\_\_\_\_ \$950,000.00  
Contractor shall provide a Unit Price per square foot  
for this item.  
\$ \_\_\_\_\_

1ff. Provide an allowance for Sidewalk Protection. 1ff \_\_\_\_\_ \$20,000.00  
Contractor shall provide a Unit Price per square  
foot for this item.  
\$ \_\_\_\_\_

**1 General Construction Subtotal 1 \$ \_\_\_\_\_**

**2 MECHANICAL WORK ITEMS**

Demolition Work:

2a. Remove existing fans with fan curbs and  
disconnect switch. 2a \$ \_\_\_\_\_

2b. Profile exhaust air flow prior to demolition of  
the exhaust fans. 2b \$ \_\_\_\_\_

Installation Work:

2c. Install new fan caps. 2c \$ \_\_\_\_\_

2d. Install new exhaust fan with curb. 2d. \$ \_\_\_\_\_

2e. Rebalance exhaust system to the profiled airflow. 2e. \$ \_\_\_\_\_

2f. Install new ductwork insulation (K-Dorm Only). 2f. \$ \_\_\_\_\_

**2 Mechanical Work Items Subtotal 2 \$ \_\_\_\_\_**

**3 ELECTRICAL WORK ITEMS**

Installation Work:

3a. Connect new exhaust fan and disconnect switch  
to existing available power. 3a \$ \_\_\_\_\_

**BID SHEETS**  
**PIN: 072201440CPD**

**3 Electrical Work Items Subtotal** **3 \$** \_\_\_\_\_

**4 PLUMBING WORK ITEMS**

Demolition Work:

4a. Remove existing roof drains. 4a \$ \_\_\_\_\_

Installation Work:

4b. Install new replacement roof drains on existing roughing (**DRN 01**). 4b.\$ \_\_\_\_\_

4c. Install new additional drains and piping to existing leaders (K-Dorm Only). 4c.\$ \_\_\_\_\_

4d. Relocate vent (K-Dorm Only). 4d \$ \_\_\_\_\_

4e Provide an allowance for cleaning out 25 feet of existing drain lines for each drain location. Contractor shall provide a Unit Price per drain location for this item. 4e \_\_\_\_\_ \$105,000.00  
\$ \_\_\_\_\_

**4 Plumbing Work Items Subtotal** **4 \$** \_\_\_\_\_

**Total Bid Amount (1 through 4):** **\$** \_\_\_\_\_

**Total Bid Amount in Words:**  
\_\_\_\_\_  
\_\_\_\_\_

**Notes:**

- (1) For further explanations of the above cost, see the appropriate sections of the technical requirement document.
- (2) The bidder shall not alter the bid format from that required herein. Any such alterations of the bid format will result in a determination of the respondent being “nonresponsive”.
- (3) Inclusion of disclaimers which contradict the requirements of this Invitation to Bid will also result in a determination of the respondent being “nonresponsive”.

SCHEDULE A

GENERAL CONDITIONS TO CONSTRUCTION CONTRACT  
(INCLUDING GENERAL CONDITIONS RELATING TO ARTICLE 22 -- INSURANCE)

PART I. REQUIRED INFORMATION

<p style="text-align: center;"><u>INFORMATION FOR BIDDERS</u> <u>BID BOND</u></p> <p>The Contractor shall obtain a bid bond in the amount indicated to the right.</p>	<p>5%</p>
<p style="text-align: center;"><u>INFORMATION FOR BIDDERS</u> <u>PERFORMANCE AND PAYMENT BONDS</u></p> <p>The Contractor shall obtain performance and payment bonds in the amount indicated to the right.</p>	<p>100%</p>
<p style="text-align: center;"><u>CONTRACT ARTICLE 14.</u> <u>DATE FOR SUBSTANTIAL COMPLETION</u></p> <p>The Contractor shall substantially complete the Work in the number of calendar days indicated to the right.</p>	<p>548 consecutive calendar days</p>
<p style="text-align: center;"><u>CONTRACT ARTICLE 15.</u> <u>LIQUIDATED DAMAGES</u></p> <p>If the Contractor fails to substantially complete the Work within the time fixed for substantial completion plus authorized time extensions or if the Contractor, in the sole determination of the Commissioner, has abandoned the Work, the Contractor shall pay to the City the amount indicated to the right.</p>	<p>\$500.00 for each consecutive calendar day over substantial completion time</p>
<p style="text-align: center;"><u>CONTRACT ARTICLE 17.</u> <u>SUB-CONTRACTOR</u></p> <p>The Contractor shall not make subcontracts totaling an amount more than the percentage of the total Contract price indicated to the right.</p>	<p>Not to exceed 49% of the Contract price</p>

<p style="text-align: center;"><b><u>CONTRACT ARTICLE 21.</u></b> <b><u>RETAINAGE</u></b></p> <p>The <b>Commissioner</b> shall deduct and retain until the substantial completion of the <b>Work</b> the percent value of the <b>Work</b> indicated to the right.</p>	<p style="text-align: center;">5% of the value of the <b>Work</b></p>
<p style="text-align: center;"><b><u>CONTRACT ARTICLE 22.</u></b> <b><u>(Per Directions Below)</u></b></p>	
<p style="text-align: center;"><b><u>CONTRACT ARTICLE 24.</u></b> <b><u>DEPOSIT GUARANTEE</u></b></p> <p>As security for the faithful performance of its obligations, the <b>Contractor</b>, upon filing its requisition for payment on <b>Substantial Completion</b>, shall deposit with the <b>Commissioner</b> a sum equal to the percentage of the <b>Contract</b> price indicated to the right.</p>	<p style="text-align: center;">1% of Contract price</p>
<p style="text-align: center;"><b><u>CONTRACT ARTICLE 24.</u></b> <b><u>PERIOD OF GUARANTEE</u></b></p> <p>Periods of maintenance and guarantee other than the period set forth in Article 24.1 are indicated to the right.</p>	
<p style="text-align: center;"><b><u>CONTRACT ARTICLE 74.</u></b> <b><u>STATEMENT OF WORK</u></b></p> <p>The <b>Contractor</b> shall furnish all labor and materials and perform all <b>Work</b> in strict accordance with the <b>Contract Drawings, Specifications, and all Addenda</b> thereto, numbered as shown in the <b>column to the right.</b></p>	<p style="text-align: center;">Roof Replacement - Phase One at the Anna M. Kross Center (AMKC) Rikers Island, NY</p>
<p style="text-align: center;"><b><u>CONTRACT ARTICLE 75.</u></b> <b><u>COMPENSATION TO BE PAID TO CONTRACTOR</u></b></p> <p>The <b>City</b> shall pay and the <b>Contractor</b> shall accept in full consideration for the performance of the <b>Contract</b>, subject to additions and deductions as provided herein, the total sum <b>shown in the column to the right</b>, this said sum being the amount at</p>	<p style="text-align: center;">Amount for which the Contract was awarded:</p>

which the <b>Contract</b> was awarded to the <b>Contractor</b> at a public letting thereof, based upon the <b>Contractor's</b> bid for the <b>Contract</b> .	\$ To be Determined
--	---------------------

**(GENERAL CONDITIONS RELATING TO ARTICLE 22 -- INSURANCE)**

**PART II. TYPES OF INSURANCE, MINIMUM LIMITS AND SPECIAL CONDITIONS**

**Note:** All certificate(s) of insurance submitted pursuant to Contract Article 22.3. 3 must be accompanied by a Certification by Broker consistent with Part III below and include the following information:

- For each insurance policy, the name and NAIC number of issuing company, number of policy, and effective dates;
- Policy limits consistent with the requirements listed below;
- Additional insureds or loss payees consistent with the requirements listed below; and
- The number assigned to the Contract by the City (in the “Description of Operations” field).

Insurance indicated by a blackened box (■) or by X in a □ to left will be required under this contract

Types of Insurance (per Article 22 in its entirety, including listed paragraph)	Minimum Limits and Special Conditions
■ Commercial General Liability      Art. 22.1.1	<p>If the <b>Work</b> requires a permit from the Department of Buildings pursuant to 1 RCNY section 101-08, available at <a href="http://www.nyc.gov/html/dob/downloads/rules/1_RCNY_101-08.pdf">http://www.nyc.gov/html/dob/downloads/rules/1_RCNY_101-08.pdf</a>, the <b>Contractor</b> shall provide Commercial General Liability Insurance with limits of at least those by 1 RCNY section 101-08.</p> <p>If the <b>Work</b> does not require such a permit, the minimum limits shall be \$2,000,000.00 per occurrence and \$4,000,000.00 per project aggregate applicable to this <b>Contract</b>.</p> <p>Additional Insureds: 1. City of New York, including its officials</p>

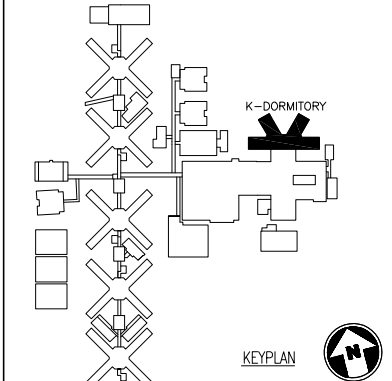


	<p>and employees, with coverage at least as broad as ISO Forms CG 20 10 and CG 20 37, and</p> <p>2. All person(s) or organization(s), if any, that Article 22.1.1(b) of the <b>Contract</b> requires to be named as Additional Insured(s), with coverage at least as broad as ISO Form CG 20 26. The Additional Insured endorsement shall either specify the entity's name, if known, or the entity's title (e.g., Project Manager).</p>
<ul style="list-style-type: none"> <li>■ Workers' Compensation Art. 22.1.2</li> <li>■ Disability Benefits Insurance Art. 22.1.2</li> <li>■ Employers' Liability Art. 22.1.2</li> <li>□ Jones Act Art. 22.1.3</li> <li>□ U.S. Longshoremen's and Harbor Workers Compensation Act Art. 22.1.3</li> </ul>	<p>Workers' Compensation, Employers' Liability, and Disability Benefits Insurance: Statutory per New York State law without regard to jurisdiction.</p> <p><b>Note:</b> The following forms are acceptable: (1) New York State Workers' Compensation Board Form No. C-105.2, (2) State Insurance Fund Form No. U-26.3, (3) New York State Workers' Compensation Board Form No. DB-120.1 and (3) Request for WC/DB Exemption Form No. CE-200. The City will not accept an ACORD form as proof of Workers' Compensation or Disability Insurance.</p> <p>Jones Act and U.S. Longshoremen's and Harbor Workers' Compensation Act: Statutory per U.S. law.</p>
<p>□ <u>Builders Risk</u> Art. 22.1.4</p>	<p><u>100 % of total value of <b>Work</b></u></p> <p><u><b>Contractor</b> the Named Insured; the <b>City</b> both an Additional Insured and one of the loss payees as its interests may appear.</u></p> <p><u>If the <b>Work</b> does not involve construction of a new building or gut renovation work, the <b>Contractor</b> may provide an installation floater in lieu of Builders Risk insurance.</u></p> <p><u>Note: Builders Risk Insurance may terminate upon <b>Substantial Completion</b> of the <b>Work</b> in its entirety.</u></p>

<input checked="" type="checkbox"/> Commercial Auto Liability      Art. 22.1.5	<p>\$1,000,000.00 per accident combined single limit</p> <p>If vehicles are used for transporting hazardous materials, the <b>Contractor</b> shall provide pollution liability broadened coverage for covered vehicles (endorsement CA 99 48) as well as proof of MCS 90</p>
<input type="checkbox"/> Contractors Pollution Liability      Art. 22.1.6	<p>\$_____ per occurrence</p> <p>\$_____ aggregate</p> <p>Additional Insureds:</p> <p>1. City of New York, including its officials and employees, and</p> <p>2. _____</p>
<input type="checkbox"/> Marine Protection and Indemnity      Art. 22.1.7(a)	<p>\$_____ per occurrence</p> <p>\$_____ aggregate</p> <p>Additional Insureds:</p> <p>1. City of New York, including its officials and employees, and</p> <p>2. _____</p> <p>3. _____</p>
<input type="checkbox"/> Hull and Machinery Insurance      Art. 22.1.7(b)	<p>\$_____ per occurrence</p> <p>\$_____ aggregate</p> <p>Additional Insureds:</p> <p>1. City of New York, including its officials and employees, and</p> <p>2. _____</p> <p>3. _____</p>
<input type="checkbox"/> Marine Pollution Liability      Art. 22.1.7(c)	<p>\$_____ each occurrence</p>

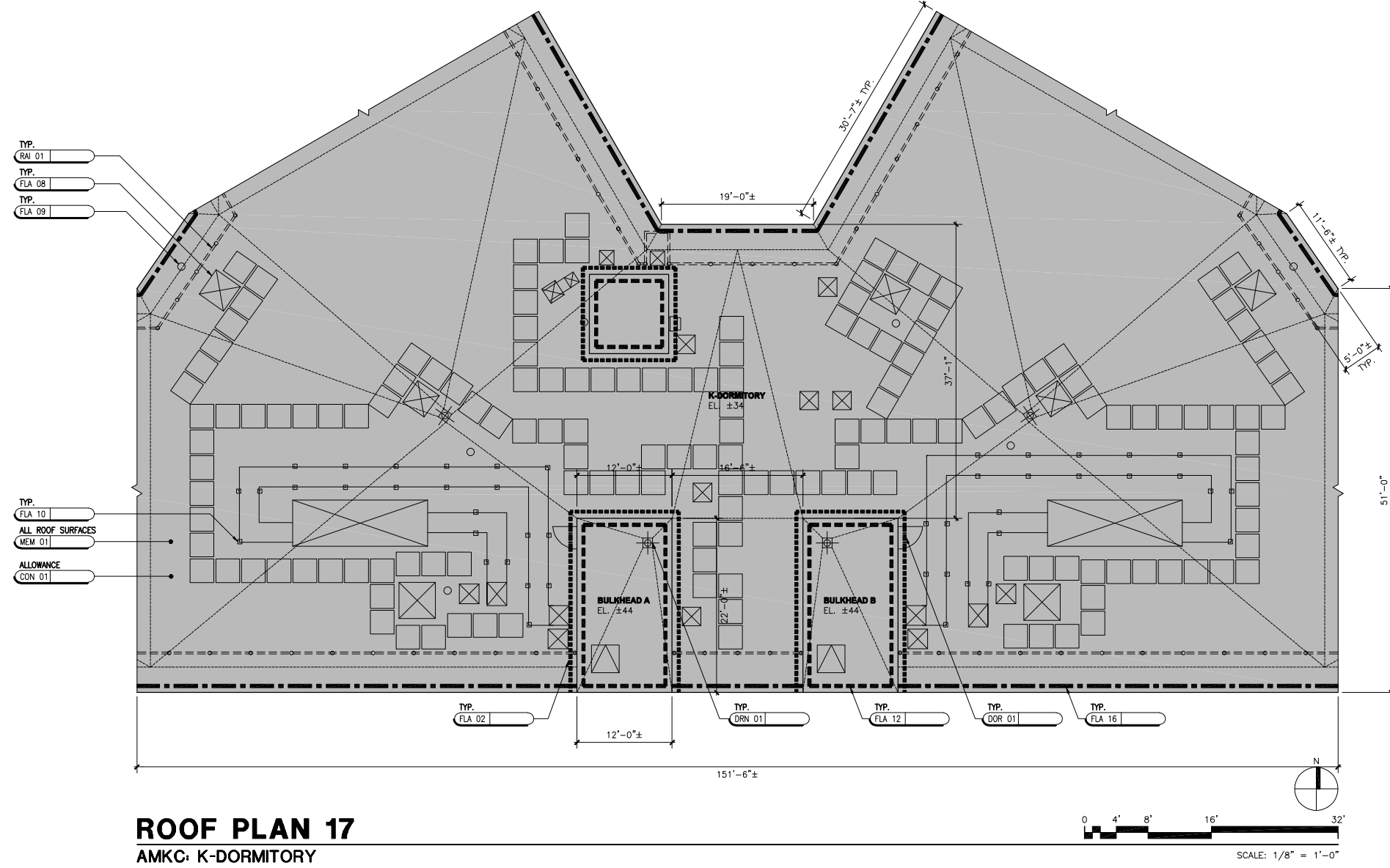
	<p>Additional Insureds:</p> <p>1. City of New York, including its officials and employees, and</p> <p>2. _____</p> <p>3. _____</p>
<p>[OTHER] Art. 22.1.8</p> <p><input type="checkbox"/></p> <p>_____</p> <p>—</p>	<p><i>[If other type(s) of insurance need to be required under the <b>Contract</b>, the Contracting Agency should (a) check the box and fill in the type of insurance in left-hand column, and (b) in this right-hand column, specify appropriate limit(s) and appropriate Named Insured and Additional Insured(s). Note that if Railroad Protective Liability Insurance is required, the appropriate Named Insured is the owner of the railroad and there are no additional insureds.]</i></p>
<p>[OTHER] Art. 22.1.8</p> <p><input type="checkbox"/></p> <p>_____</p> <p>—</p>	<p><i>[See directly above.]</i></p>



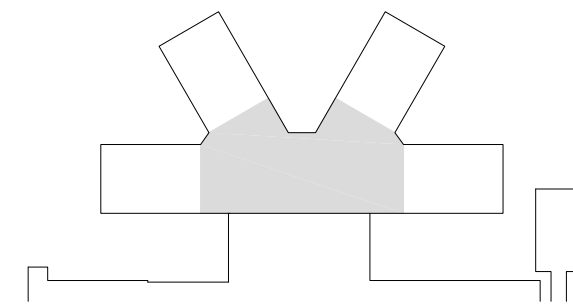


ID CODE	DESCRIPTION	KEY
MEM 01	SBS MODIFIED BITUMEN ROOF SYSTEM	[Symbol]
DRN 01	ROOF DRAIN REPLACEMENT	#
FLA 02	ROOF EDGE FLASHING: FASCIA	[Symbol]
FLA 07	ROOF CURB FLASHING: ACCESS HATCH	[Symbol]
FLA 08	ROOF CURB FLASHING: VENTILATOR	[Symbol]
FLA 09	PENETRATION FLASHING: PIPE/RAILING	[Symbol]
FLA 10	PENETRATION FLASHING: ANGLES/DUNNAGE	[Symbol]
FLA 11	PERIMETER IN-WALL FLASHING	[Symbol]
FLA 16	ROOF EDGE FLASHING: FASCIA AT TAPERED SLAB AT K-DORM	[Symbol]
FLA 17	EDGE FLASHING: FASCIA AT EXTERIOR STAIR	[Symbol]
DOR 01	DOOR SADDLE & FLASHING	[Symbol]
RAI 01	RAILING INSTALLATION	[Symbol]
SHM 01	GUTTER/LEADER AT ROOF EDGE	[Symbol]
-	ROOF WALKWAY PAD	[Symbol]

- ROOFING NOTES**
- AFTER DEMOLITION OF EXISTING ROOFING, CONTRACTOR TO PROVIDE EXISTING ROOF DECK SURVEY (SIGNED AND SEALED BY A SURVEYOR LICENSED IN THE STATE OF NY) SHOWING EXISTING ROOF PITCH, AND PROPOSED ELEVATIONS AT HIGH AND LOW POINTS, DOORS, PENETRATIONS, DRAINS, ETC. PROVIDE FINDINGS TO THE COMMISSIONER.
  - PROVIDE TAPERED INSULATION TO ACHIEVE POSITIVE DRAINAGE, MIN. 1/4" PER FT. COORDINATE HEIGHT OF INSULATION AND FINISH ROOF WITH DOOR SADDLE AND FLASHING HEIGHT REQUIREMENTS. PROVIDE CRICKETS/SADDLES AT ALL CURBS, BULKHEADS AND MECHANICAL PENETRATIONS AS REQUIRED TO PROVIDE POSITIVE DRAINAGE TOWARDS NEAREST ROOF DRAIN.
  - CONTRACTOR IS TO PROVIDE ALL LABOR AND MATERIALS FOR A COMPLETE AND WATERTIGHT JOB THAT IS FULLY WARRANTED/GUARANTEED BY THE MANUFACTURER AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. ANY DETAILS OR WORK REQUIRED FOR A COMPLETE JOB, BUT NOT SHOWN OR SPECIFIED BY THE CONTRACT DOCUMENTS, SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS AT NO ADDITIONAL COST TO THE CITY OF NEW YORK.
  - RESTORATION TAGS FOR FLASHING REPRESENT "TYPICAL" DETAILS FOR EACH FLASHING CONDITION. FOR CLARITY, NOT ALL PENETRATIONS ARE TAGGED. ALL PENETRATIONS ARE TO BE ADDRESSED UNDER THE SCOPE OF WORK.
  - ROOF WALKWAY PADS TO PROVIDE ACCESS TO BULKHEADS AND MECHANICAL EQUIPMENT. LAYOUT OF PADS IS SHOWN SCHEMATICALLY FOR PRICING PURPOSES; CONTRACTOR IS TO COORDINATE WITH COMMISSIONER AND FACILITY ENGINEERS TO VERIFY FINAL LAYOUT. PROVIDE MINIMUM 3" SPACING BETWEEN PADS TO PREVENT INTERFERENCE WITH DRAINAGE PATTERN.



**ROOF PLAN 17**  
 AMKC: K-DORMITORY



No.	SUBMISSION	Approved	Reviewed	Date
B	ADDENDUM #2	JGC	JGC	01/29/2015
A	ISSUED FOR BID	JGC	JGC	01/08/2015

THE CITY OF NEW YORK  
 DEPARTMENT  
 OF CORRECTION  
 DIVISION OF CAPITAL POLICY  
 AND DEVELOPMENT  
 ENGINEERING UNIT

TITLE/PROJECT/LOCATION:  
 PHASE 1 ROOF REPLACEMENT AT  
 ANNA M. KROSS CENTER (AMKC)

ROOF PLAN:  
 K-DORMITORY  
 RIKERS ISLAND, NEW YORK

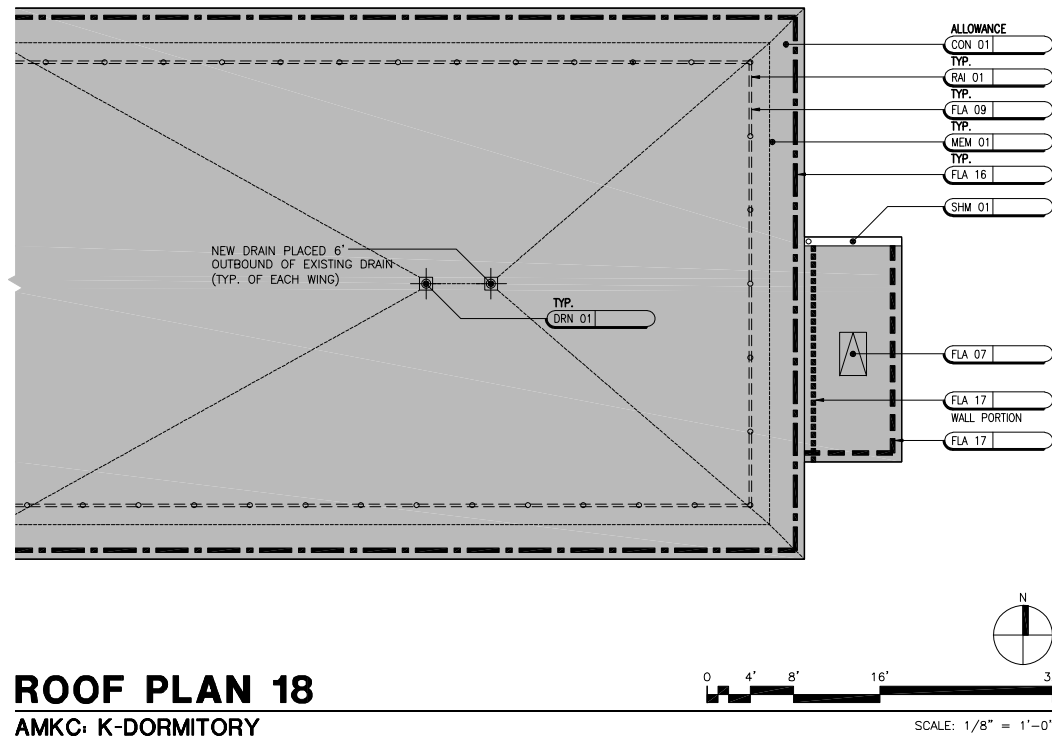
BUDGET ID: C75AMKCRF PIN: 072201404CPD

DIRECTOR: HARDEE SAINI PROJECT MANAGER: JOSEPH G. COFFEY

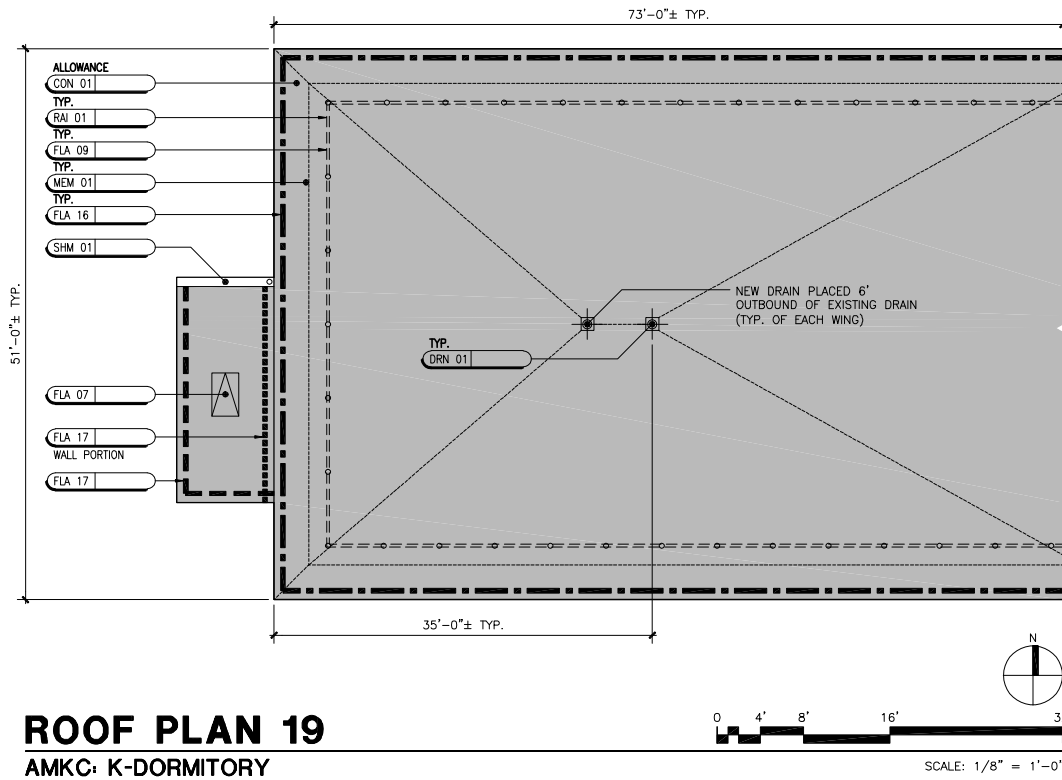
DESIGNED BY: B.BELAND DRAWN BY: BFF CHECKED BY: L.RIDDLE

B-SCAN

DRAWING NO.:	A109.00
SCALE:	AS SHOWN
DATE:	01/08/15
SHEET NO.	20 OF 54



**ROOF PLAN 18**  
AMKC: K-DORMITORY



**ROOF PLAN 19**  
AMKC: K-DORMITORY

**LEGEND**

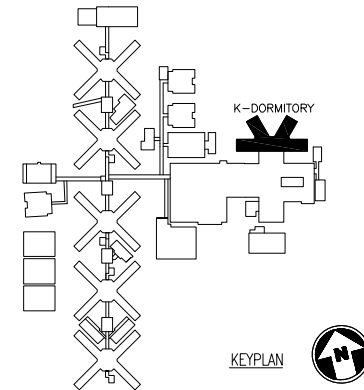
ID CODE	DESCRIPTION	KEY
MEM 01	SBS MODIFIED BITUMEN ROOF SYSTEM	
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-	ROOF WALKWAY PAD	

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**GPI**  
**Greenman - Pedersen, Inc**  
Engineering and Construction Services  
400 Rella Boulevard, Montebello, New York 10901  
Tel: (845) 368-4050 Fax: (845) 368-4070  
www.gpinet.com

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+  
**ENGINEERS ARCHITECTS**

32 AVENUE OF THE AMERICAS  
NEW YORK, NY 10013  
TEL 212 505 1133  
FAX 212 505 1726



No.	SUBMISSION	Approved	Reviewed	Date
B	ADDENDUM #2	JGC	JGC	01/29/2015
A	ISSUED FOR BID	JGC	JGC	01/08/2015

THE CITY OF NEW YORK  
DEPARTMENT  
OF CORRECTION  
DIVISION OF CAPITAL POLICY  
AND DEVELOPMENT  
ENGINEERING UNIT

TITLE/PROJECT/LOCATION:  
PHASE 1 ROOF REPLACEMENT AT  
ANNA M. KROSS CENTER (AMKC)

ROOF PLAN:  
K-DORMITORY

RIKERS ISLAND, NEW YORK

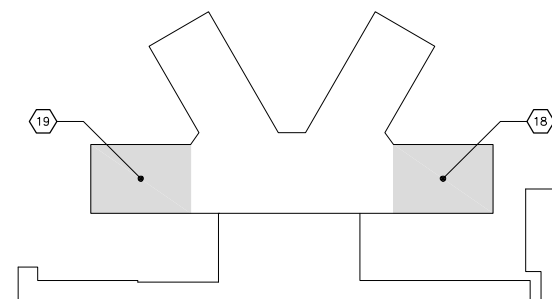
BUDGET ID: C75AMKCRF PIN: 072201404CPD

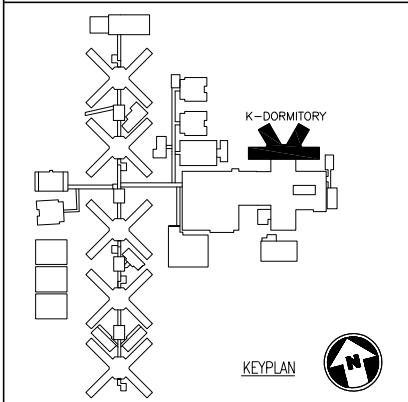
DIRECTOR: HARDEE SAINI PROJECT MANAGER: JOSEPH G. COFFEY

DESIGNED BY: B.BELAND DRAWN BY: BFF CHECKED BY: L.RIDDLE

B-SCAN

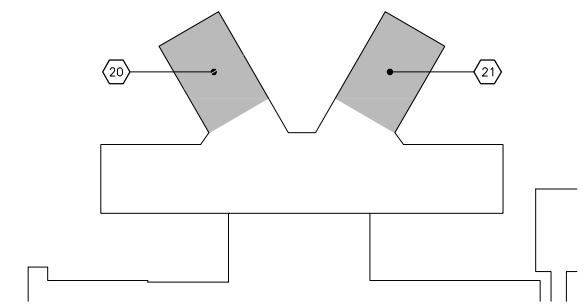
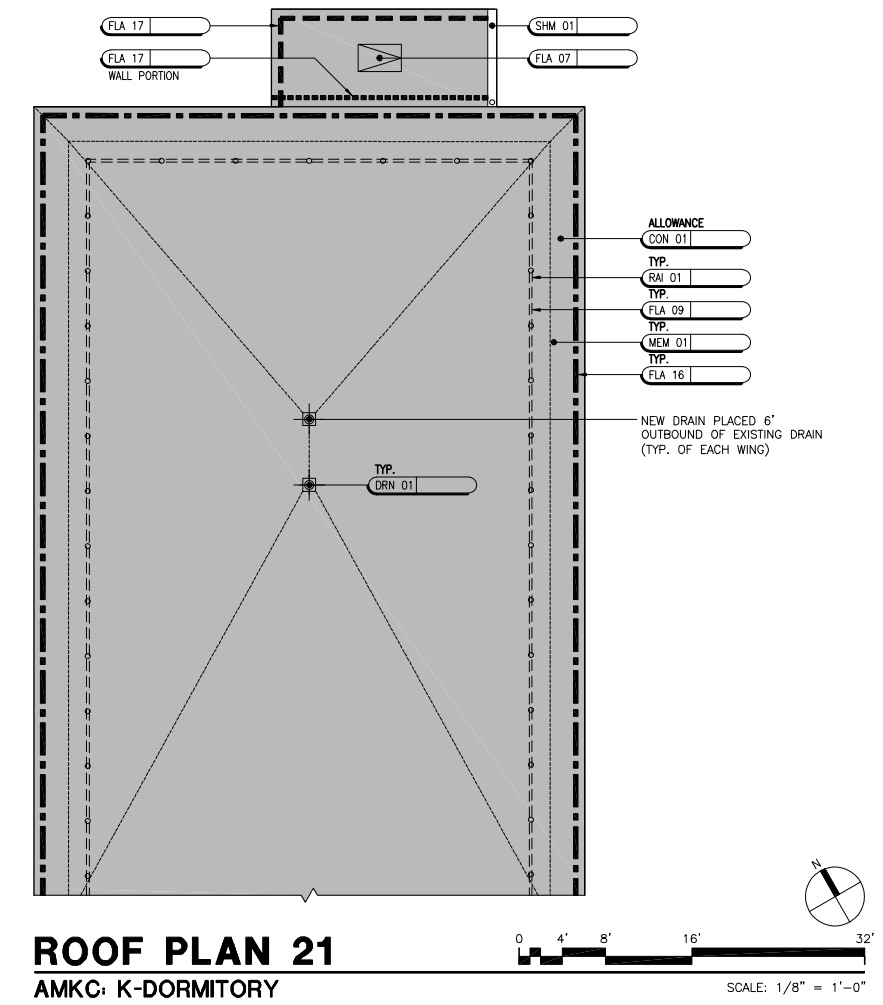
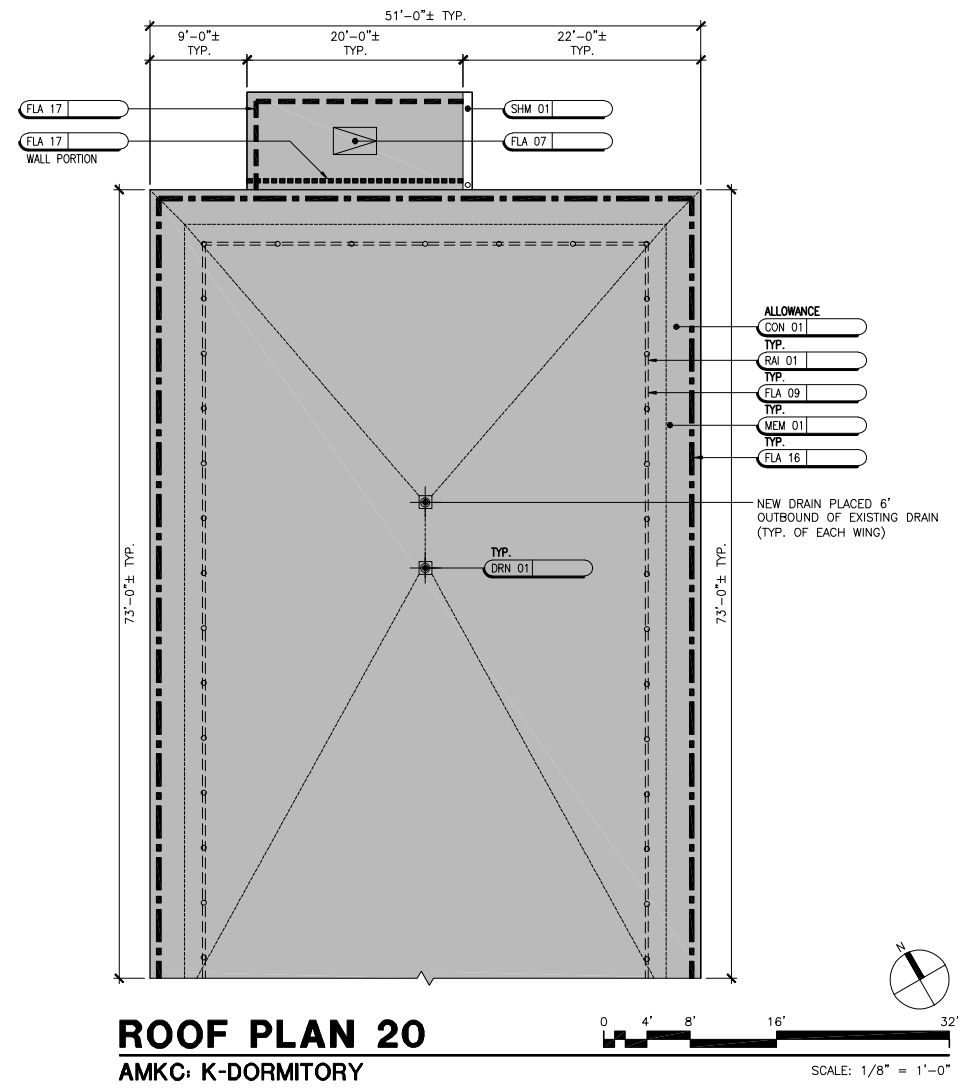
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**A110.00**  
SCALE:  
AS SHOWN  
DATE:  
01/08/15  
SHEET NO.  
21 OF 54





ID CODE	DESCRIPTION	KEY
MEM 01	SBS MODIFIED BITUMEN ROOF SYSTEM	▬
DRN 01	ROOF DRAIN REPLACEMENT	⊕
FLA 02	ROOF EDGE FLASHING: FASCIA	-----
FLA 07	ROOF CURB FLASHING: ACCESS HATCH	⊠
FLA 08	ROOF CURB FLASHING: VENTILATOR	⊠
FLA 09	PENETRATION FLASHING: PIPE/RAILING	○
FLA 10	PENETRATION FLASHING: ANGLES/DUNNAGE	⊠
FLA 11	PERIMETER IN-WALL FLASHING	-----
FLA 16	ROOF EDGE FLASHING: FASCIA AT TAPERED SLAB AT K-DORM	-----
FLA 17	EDGE FLASHING: FASCIA AT EXTERIOR STAIR	-----
DOR 01	DOOR SADDLE & FLASHING	-----
RAI 01	RAILING INSTALLATION	-----
SHM 01	GUTTER/LEADER AT ROOF EDGE	-----
-	ROOF WALKWAY PAD	□

- ROOFING NOTES**
- AFTER DEMOLITION OF EXISTING ROOFING, CONTRACTOR TO PROVIDE EXISTING ROOF DECK SURVEY (SIGNED AND SEALED BY A SURVEYOR LICENSED IN THE STATE OF NY) SHOWING EXISTING ROOF PITCH, AND PROPOSED ELEVATIONS AT HIGH AND LOW POINTS, DOORS, PENETRATIONS, DRAINS, ETC. PROVIDE FINDINGS TO THE COMMISSIONER.
  - PROVIDE TAPERED INSULATION TO ACHIEVE POSITIVE DRAINAGE, MIN. 1/4" PER FT. COORDINATE HEIGHT OF INSULATION AND FINISH ROOF WITH DOOR SADDLE AND FLASHING HEIGHT REQUIREMENTS. PROVIDE CRICKETS/SADDLES AT ALL CURBS, BULKHEADS AND MECHANICAL PENETRATIONS AS REQUIRED TO PROVIDE POSITIVE DRAINAGE TOWARDS NEAREST ROOF DRAIN.
  - CONTRACTOR IS TO PROVIDE ALL LABOR AND MATERIALS FOR A COMPLETE AND WATERTIGHT JOB THAT IS FULLY WARRANTED/GUARANTEED BY THE MANUFACTURER AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. ANY DETAILS OR WORK REQUIRED FOR A COMPLETE JOB, BUT NOT SHOWN OR SPECIFIED BY THE CONTRACT DOCUMENTS, SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS AT NO ADDITIONAL COST TO THE CITY OF NEW YORK.
  - RESTORATION TAGS FOR FLASHING REPRESENT "TYPICAL" DETAILS FOR EACH FLASHING CONDITION. FOR CLARITY, NOT ALL PENETRATIONS ARE TAGGED. ALL PENETRATIONS ARE TO BE ADDRESSED UNDER THE SCOPE OF WORK.
  - ROOF WALKWAY PADS TO PROVIDE ACCESS TO BULKHEADS AND MECHANICAL EQUIPMENT. LAYOUT OF PADS IS SHOWN SCHEMATICALLY FOR PRICING PURPOSES; CONTRACTOR IS TO COORDINATE WITH COMMISSIONER AND FACILITY ENGINEERS TO VERIFY FINAL LAYOUT. PROVIDE MINIMUM 3" SPACING BETWEEN PADS TO PREVENT INTERFERENCE WITH DRAINAGE PATTERN.



No.	DESCRIPTION	APPROVED	REVIEWED	DATE
B	ADDENDUM #2	JGC	JGC	01/29/2015
A	ISSUED FOR BID	JGC	JGC	01/08/2015

THE CITY OF NEW YORK  
 DEPARTMENT  
 OF CORRECTION  
 DIVISION OF CAPITAL POLICY  
 AND DEVELOPMENT  
 ENGINEERING UNIT

TITLE/PROJECT/LOCATION:  
 PHASE 1 ROOF REPLACEMENT AT  
 ANNA M. KROSS CENTER (AMKC)

ROOF PLAN:  
 K-DORMITORY  
 RIKERS ISLAND, NEW YORK

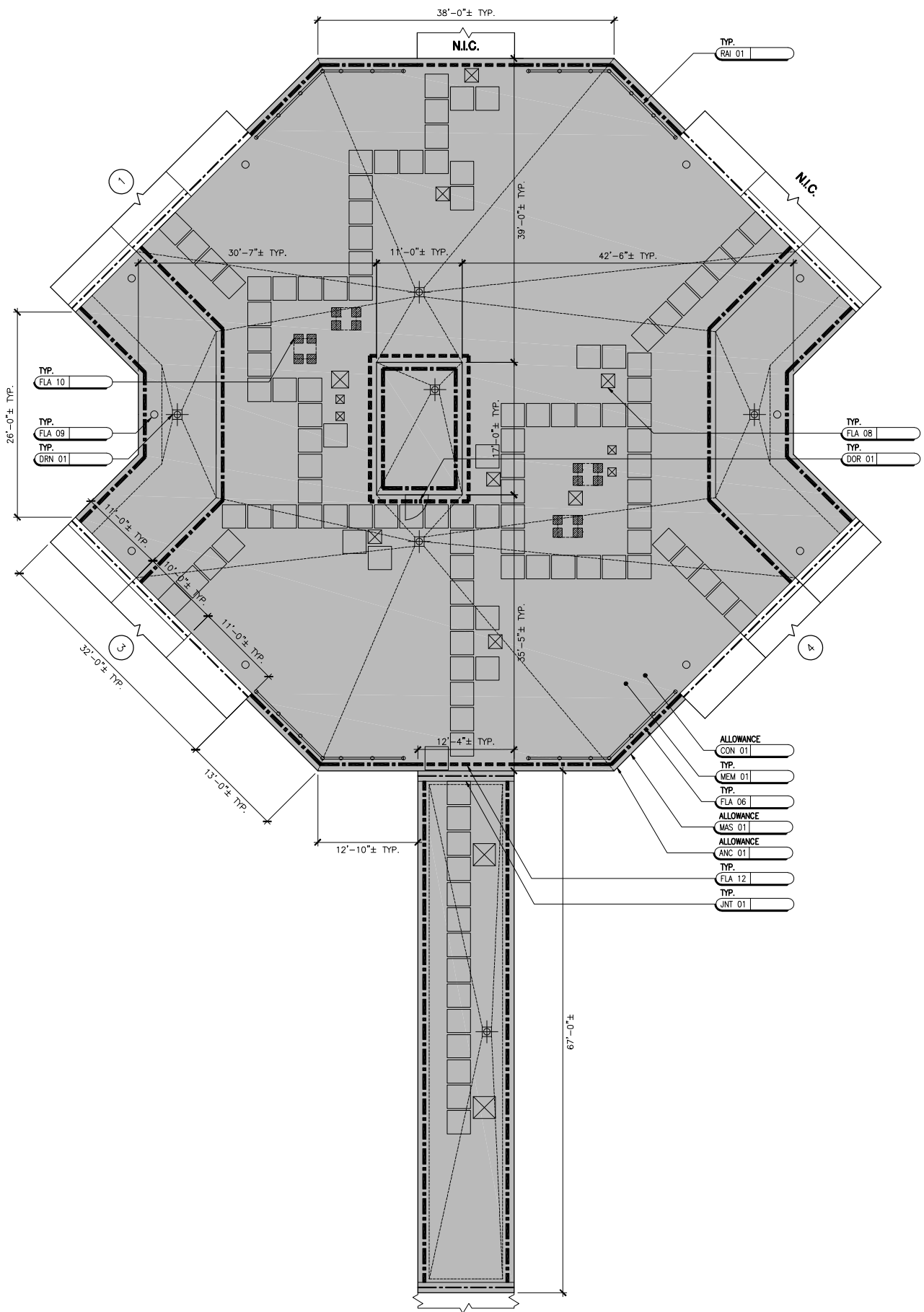
BUDGET ID: C75AMKCRF PIN: 072201404CPD

DIRECTOR: HARDEE SAINI PROJECT MANAGER: JOSEPH G. COFFEY

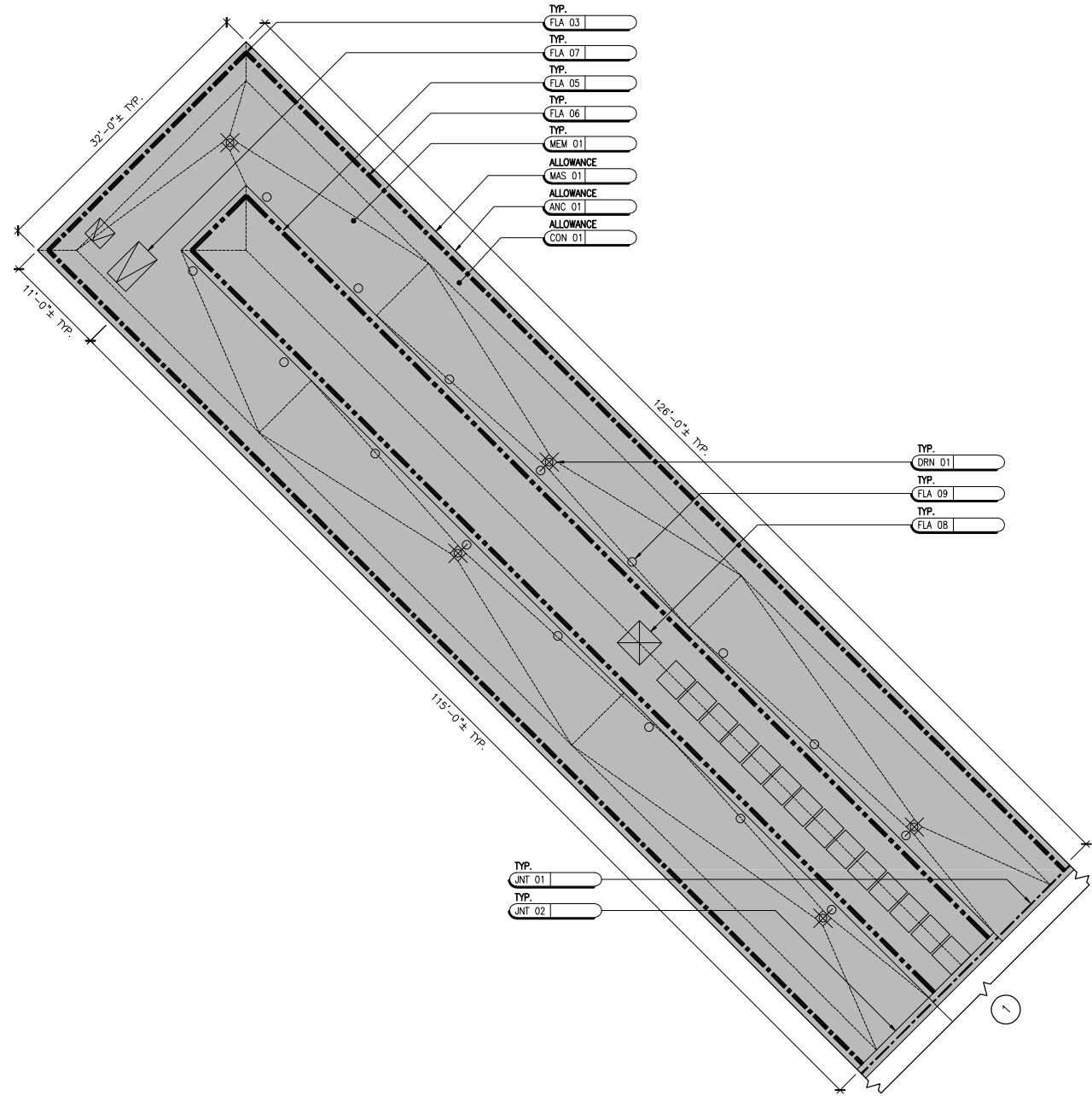
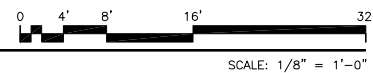
DESIGNED BY: B.BELAND DRAWN BY: BFF CHECKED BY: L.RIDDLE

B-SCAN

DRAWING NO.:	A1111.00
SCALE:	AS SHOWN
DATE:	01/08/15
SHEET NO.	22 OF 54



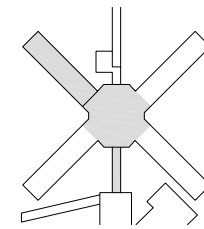
**ROOF PLAN 23**  
AMKC: BUILDING 1 AND CORRIDOR 1



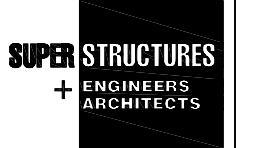
**ROOF PLAN 24**  
AMKC: BUILDING 1 - WING 1



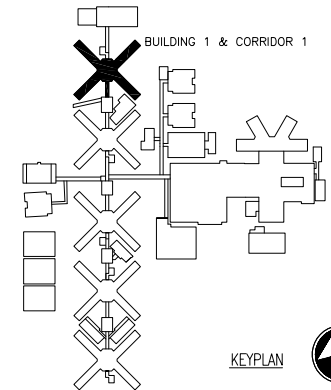
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MEM 01	SBS MODIFIED BITUMEN ROOF SYSTEM	[Symbol]
DRN 01	ROOF DRAIN REPLACEMENT	[Symbol]
FLA 03	ROOF EDGE FLASHING: FASCIA AT WINDOW ASSEMBLY	[Symbol]
FLA 05	FLASHING AT HOUSING WING SETBACK	[Symbol]
FLA 06	ROOF EDGE FLASHING: FASCIA TAPERED SLAB	[Symbol]
FLA 07	ROOF CURB FLASHING: ACCESS HATCH	[Symbol]
FLA 08	ROOF CURB FLASHING: VENTILATOR	[Symbol]
FLA 09	PENETRATION FLASHING: PIPES/RAILING	[Symbol]
FLA 10	PENETRATION FLASHING: ANGLES/DUNNAGE	[Symbol]
FLA 12	PERIMETER IN-WALL FLASHING (BRICK)	[Symbol]
JNT 01	ROOF-TO-WALL EXPANSION JOINT	[Symbol]
JNT 02	ROOF-TO-ROOF EXPANSION JOINT	[Symbol]
DOR 01	DOOR SADDLE AND FLASHING	[Symbol]
RAI 01	RAILING INSTALLATION	[Symbol]
-	ROOF WALKWAY PAD	[Symbol]



REFER TO SHEET A111 FOR ROOFING NOTES



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No.	SUBMISSION	Approved	Reviewed	Date
B	ADDENDUM #2	JGC	JGC	01/29/2015
A	ISSUED FOR BID	JGC	JGC	01/08/2015

THE CITY OF NEW YORK  
DEPARTMENT  
OF CORRECTION  
DIVISION OF CAPITAL POLICY  
AND DEVELOPMENT  
ENGINEERING UNIT

TITLE/PROJECT/LOCATION:  
PHASE 1 ROOF REPLACEMENT AT  
ANNA M. KROSS CENTER (AMKC)

ROOF PLAN:  
BUILDING 1, CORRIDOR 1, AND WING 1

RIKERS ISLAND, NEW YORK

BUDGET ID: C75AMKCRF PIN: 072201404CPD

DIRECTOR: HARDEE SAINI PROJECT MANAGER: JOSEPH G. COFFEY

DESIGNED BY: B.BELAND DRAWN BY: BFF CHECKED BY: L.RIDDLE

B-SCAN

DRAWING NO.:

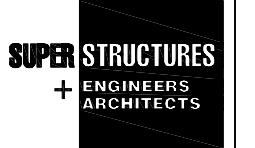
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SCALE:  
AS SHOWN

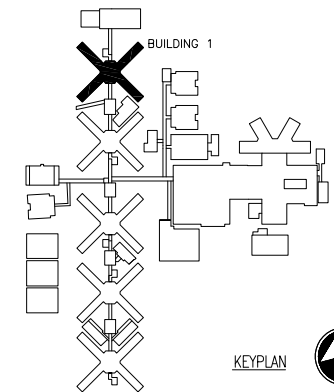
DATE:  
01/08/15

SHEET NO.  
23 OF 54





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B	ADDENDUM #2	JGC	JGC	01/29/2015
A	ISSUED FOR BID	JGC	JGC	01/08/2015
No.	SUBMISSION	Approved	Reviewed	Date

THE CITY OF NEW YORK  
 DEPARTMENT  
 OF CORRECTION  
 DIVISION OF CAPITAL POLICY  
 AND DEVELOPMENT  
 ENGINEERING UNIT

TITLE/PROJECT/LOCATION:  
 PHASE 1 ROOF REPLACEMENT AT  
 ANNA M. KROSS CENTER (AMKC)

ROOF PLAN:  
 WING 3 AND 4

RIKERS ISLAND, NEW YORK

BUDGET ID: C75AMKCRF PIN: 072201404CPD

DIRECTOR: HARDEE SAINI PROJECT MANAGER: JOSEPH G. COFFEY

DESIGNED BY: B.BELAND DRAWN BY: BFF CHECKED BY: L.RIDDLE

B-SCAN

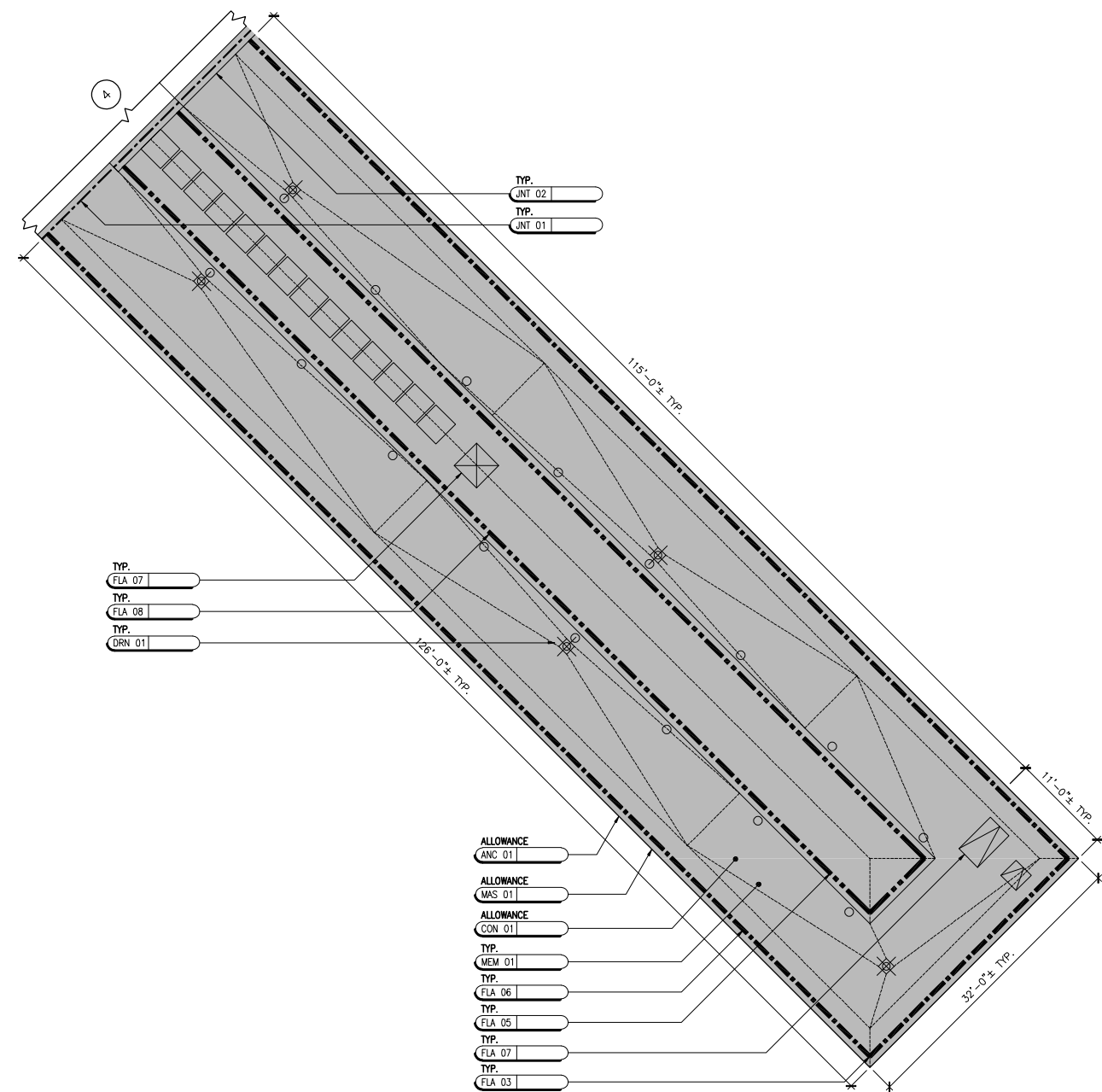
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A114.00

SCALE:  
 AS SHOWN

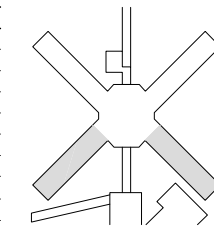
DATE:  
 01/08/15

SHEET NO.  
 24 OF 54

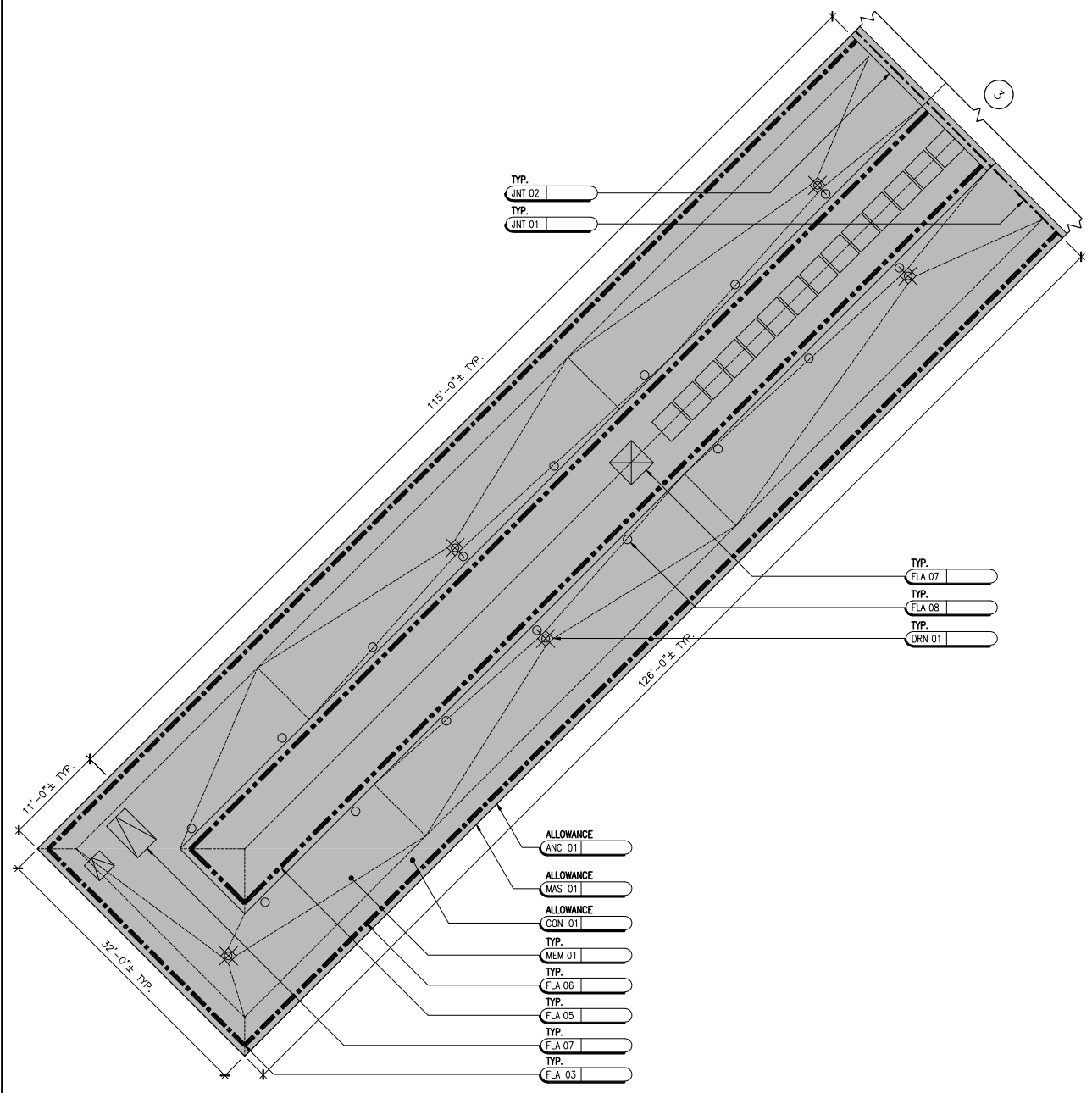


**ROOF PLAN 26**  
 AMKC: BUILDING 1 - WING 4

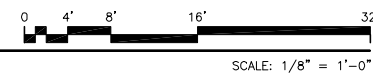
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MEM 01	SBS MODIFIED BITUMEN ROOF SYSTEM	[Symbol]
DRN 01	ROOF DRAIN REPLACEMENT	[Symbol]
FLA 03	ROOF EDGE FLASHING: FASCIA AT WINDOW ASSEMBLY	[Symbol]
FLA 05	FLASHING AT HOUSING WING SETBACK	[Symbol]
FLA 06	ROOF EDGE FLASHING: FASCIA AT TAPERED SLAB	[Symbol]
FLA 07	ROOF CURB FLASHING: ACCESS HATCH	[Symbol]
FLA 08	ROOF CURB FLASHING: VENTILATOR	[Symbol]
FLA 09	PENETRATION FLASHING: PIPES/RAILING	[Symbol]
JNT 01	ROOF-TO-WALL EXPANSION JOINT	[Symbol]
JNT 02	ROOF-TO-ROOF EXPANSION JOINT	[Symbol]
-	ROOF WALKWAY PAD	[Symbol]

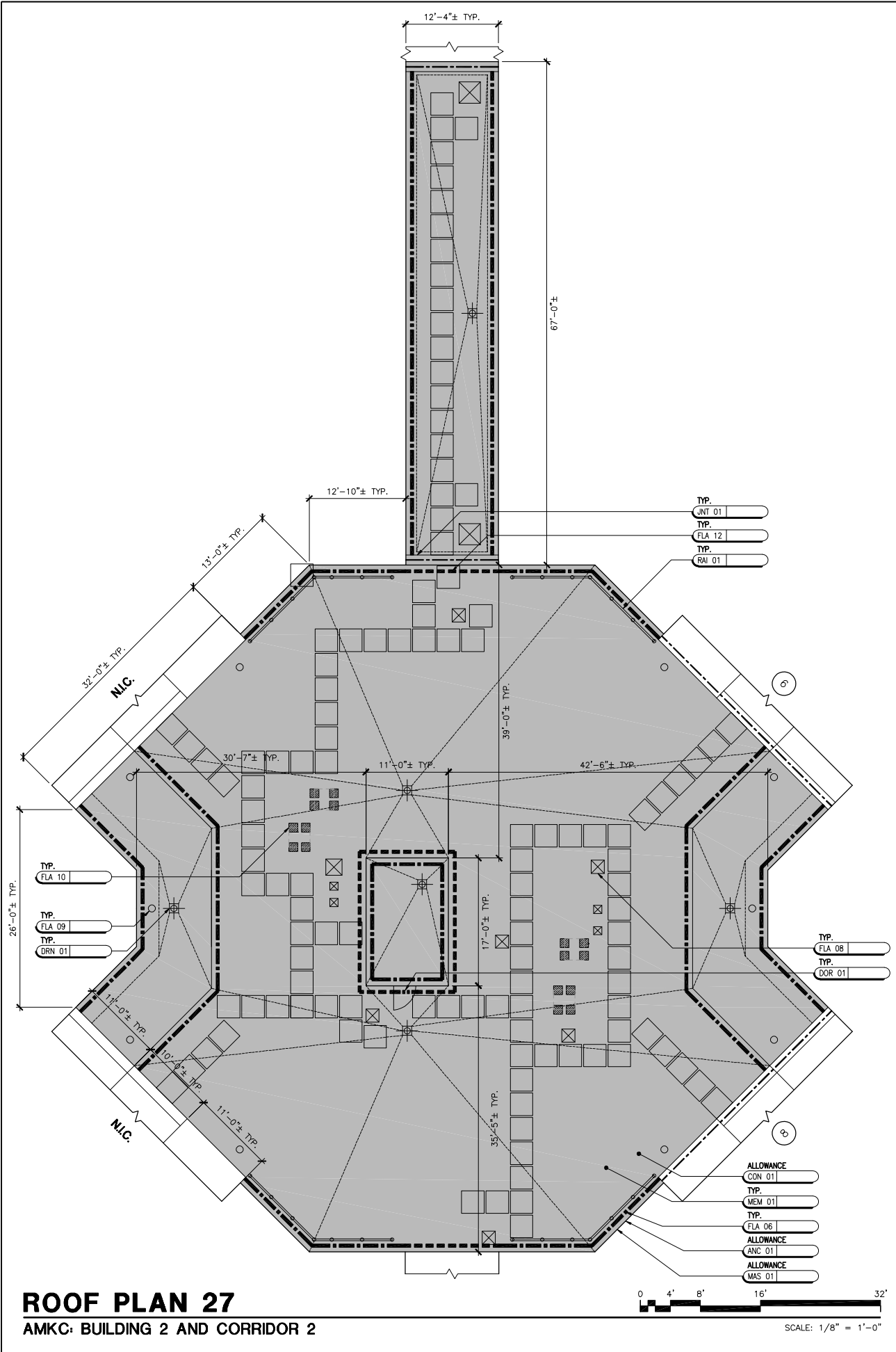


REFER TO SHEET A111 FOR ROOFING NOTES

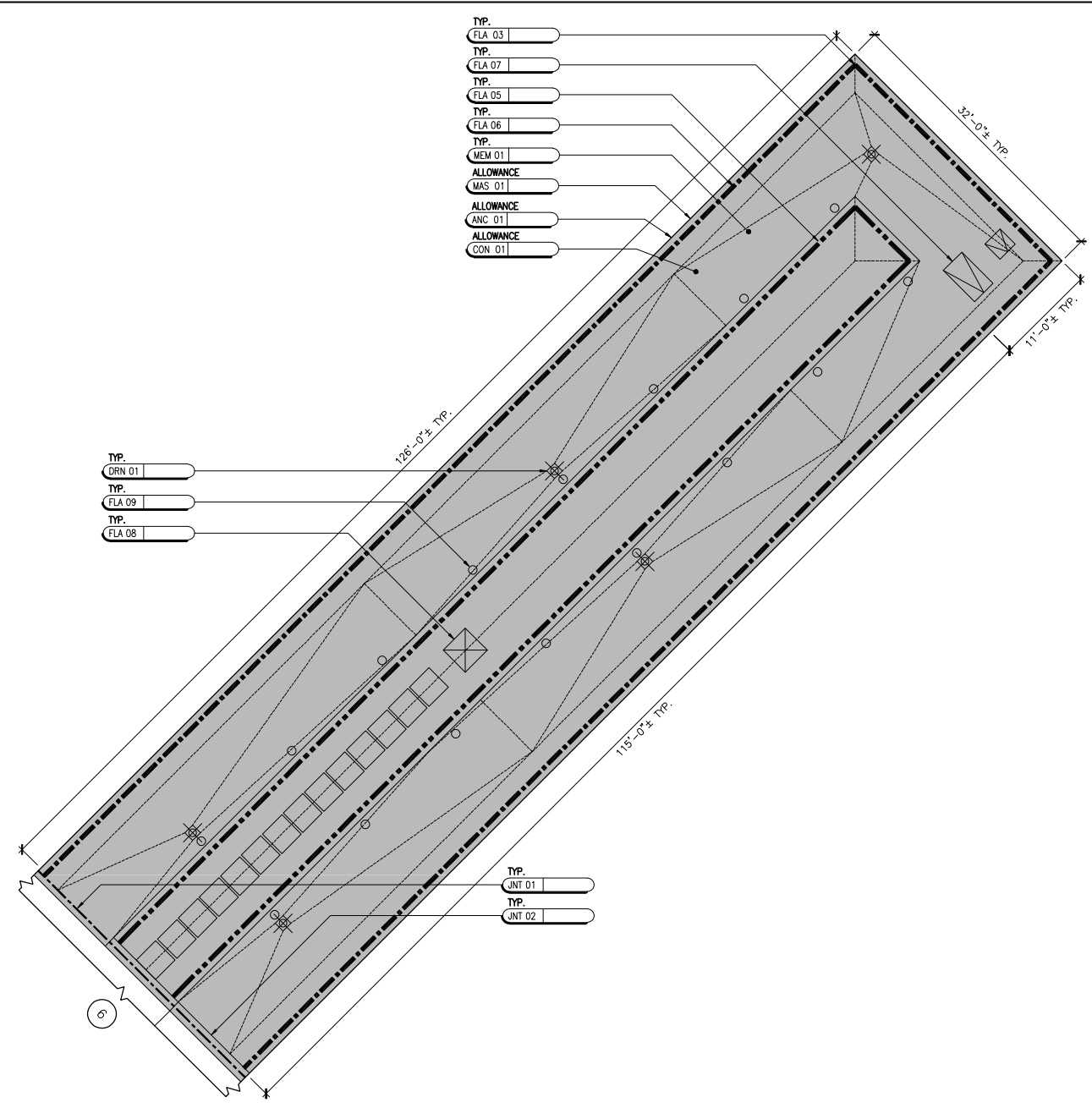


**ROOF PLAN 25**  
 AMKC: BUILDING 1 - WING 3





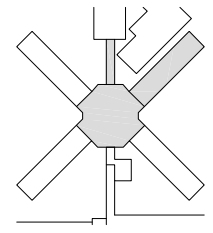
**ROOF PLAN 27**  
AMKC: BUILDING 2 AND CORRIDOR 2



**ROOF PLAN 28**  
AMKC: BUILDING 2 - WING 6

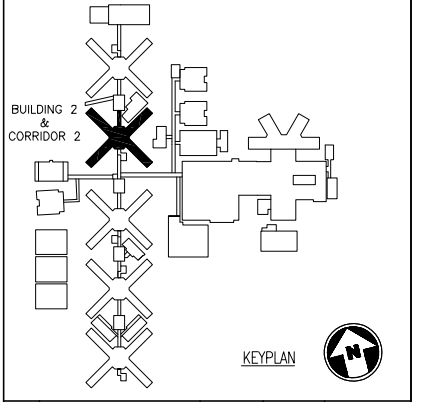
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ID CODE	DESCRIPTION	KEY
MEM 01	SBS MODIFIED BITUMEN ROOF SYSTEM	[Symbol]
DRN 01	ROOF DRAIN REPLACEMENT	[Symbol]
FLA 03	ROOF EDGE FLASHING: FASCIA AT WINDOW ASSEMBLY	[Symbol]
FLA 05	FLASHING AT HOUSING WING SETBACK	[Symbol]
FLA 06	ROOF EDGE FLASHING: FASCIA TAPERED SLAB	[Symbol]
FLA 07	ROOF CURB FLASHING: ACCESS HATCH	[Symbol]
FLA 08	ROOF CURB FLASHING: VENTILATOR	[Symbol]
FLA 09	PENETRATION FLASHING: PIPES/RAILING	[Symbol]
FLA 10	PENETRATION FLASHING: ANGLES/DUNNAGE	[Symbol]
FLA 12	PERIMETER IN-WALL FLASHING (BRICK)	[Symbol]
JNT 01	ROOF-TO-WALL EXPANSION JOINT	[Symbol]
JNT 02	ROOF-TO-ROOF EXPANSION JOINT	[Symbol]
DOR 01	DOOR SADDLE AND FLASHING	[Symbol]
RAI 01	RAILING INSTALLATION	[Symbol]
-	ROOF WALKWAY PAD	[Symbol]



**GPI**  
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Engineering and Construction Services  
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No.	SUBMISSION	Approved	Reviewed	Date
B	ADDENDUM #2	JGC	JGC	01/29/2015
A	ISSUED FOR BID	JGC	JGC	01/08/2015

THE CITY OF NEW YORK  
**DEPARTMENT OF CORRECTION**  
DIVISION OF CAPITAL POLICY AND DEVELOPMENT  
ENGINEERING UNIT

TITLE/PROJECT/LOCATION:  
PHASE 1 ROOF REPLACEMENT AT  
ANNA M. KROSS CENTER (AMKC)

ROOF PLAN:  
BUILDING 2, CORRIDOR 2, AND WING 6  
RIKERS ISLAND, NEW YORK

BUDGET ID: C75AMKCRF PIN: 072201404CPD

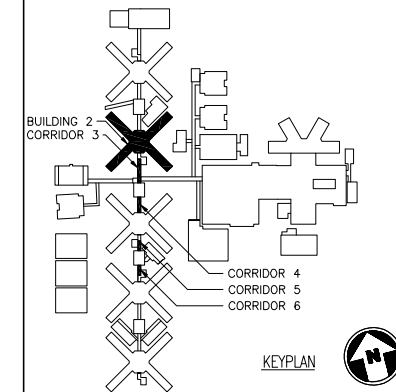
DIRECTOR: HARDEE SAINI PROJECT MANAGER: JOSEPH G. COFFEY

DESIGNED BY: B.BELAND DRAWN BY: BFF CHECKED BY: L.RIDDLE

B-SCAN

DRAWING NO.:  
**A115.00**  
SCALE:  
AS SHOWN  
DATE:  
01/08/15  
SHEET NO.  
25 OF 54

REFER TO SHEET A111 FOR ROOFING NOTES



B	ADDENDUM #2	JGC	JGC	01/29/2015
A	ISSUED FOR BID	JGC	JGC	01/08/2015
No.	SUBMISSION	Approved	Reviewed	Date

THE CITY OF NEW YORK  
 DEPARTMENT  
 OF CORRECTION  
 DIVISION OF CAPITAL POLICY  
 AND DEVELOPMENT  
 ENGINEERING UNIT

TITLE/PROJECT/LOCATION:  
 PHASE 1 ROOF REPLACEMENT AT  
 ANNA M. KROSS CENTER (AMKC)  
 ROOF PLAN:  
 CORRIDOR 3, 4, 5 & 6  
 AND WING 8  
 RIKERS ISLAND, NEW YORK

BUDGET ID: C75AMKCRF PIN: 072201404CPD

DIRECTOR: HARDEE SAINI PROJECT MANAGER: JOSEPH G. COFFEY

DESIGNED BY: B.BELAND DRAWN BY: BFF CHECKED BY: L.RIDDLE

B-SCAN

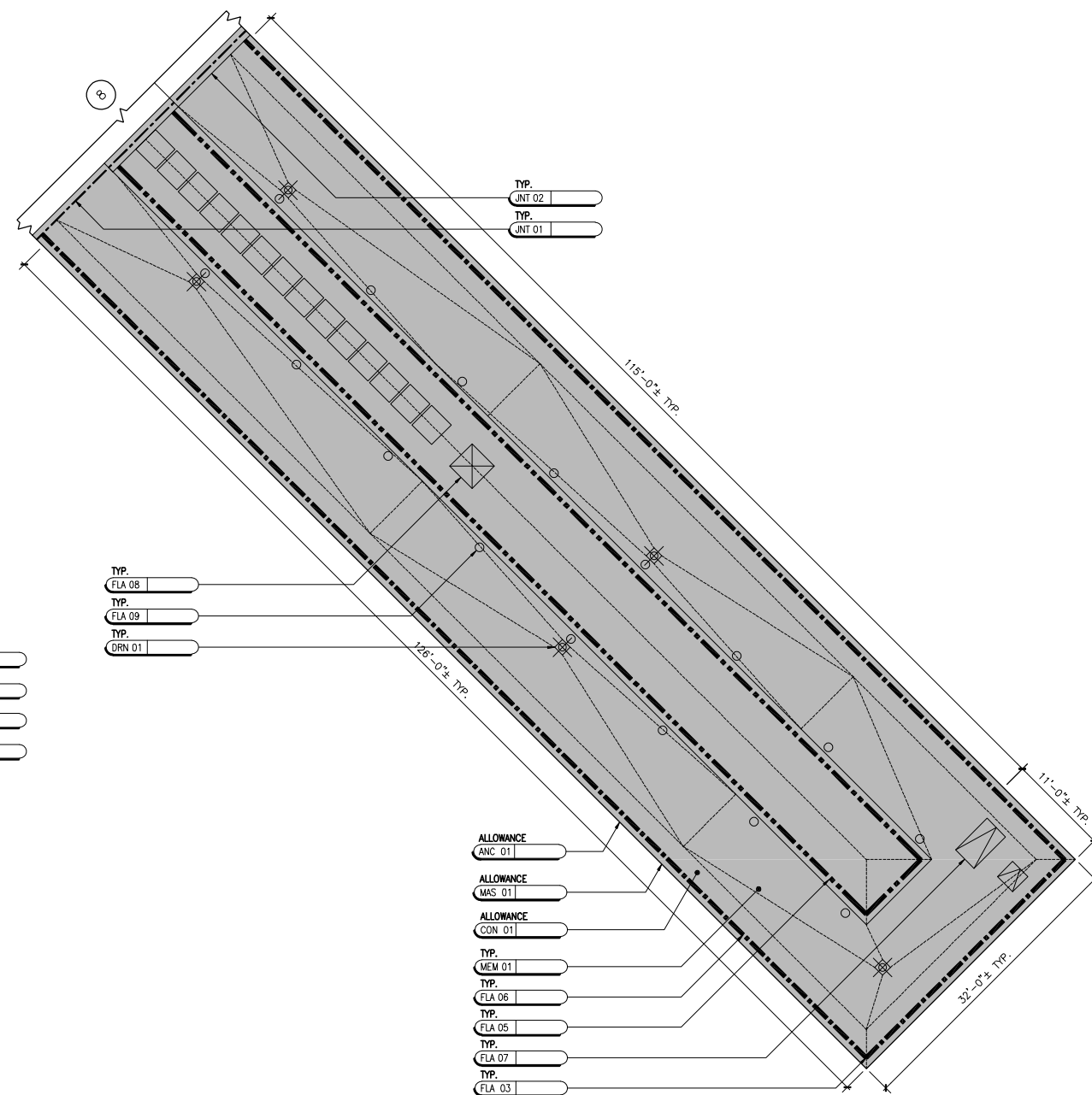
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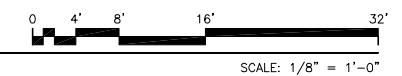
SCALE:  
AS SHOWN

DATE:  
01/08/15

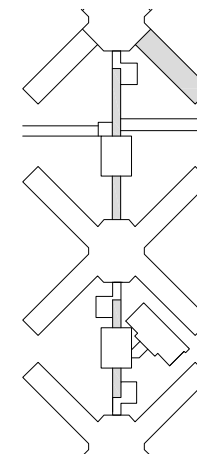
SHEET NO.  
26 OF 54



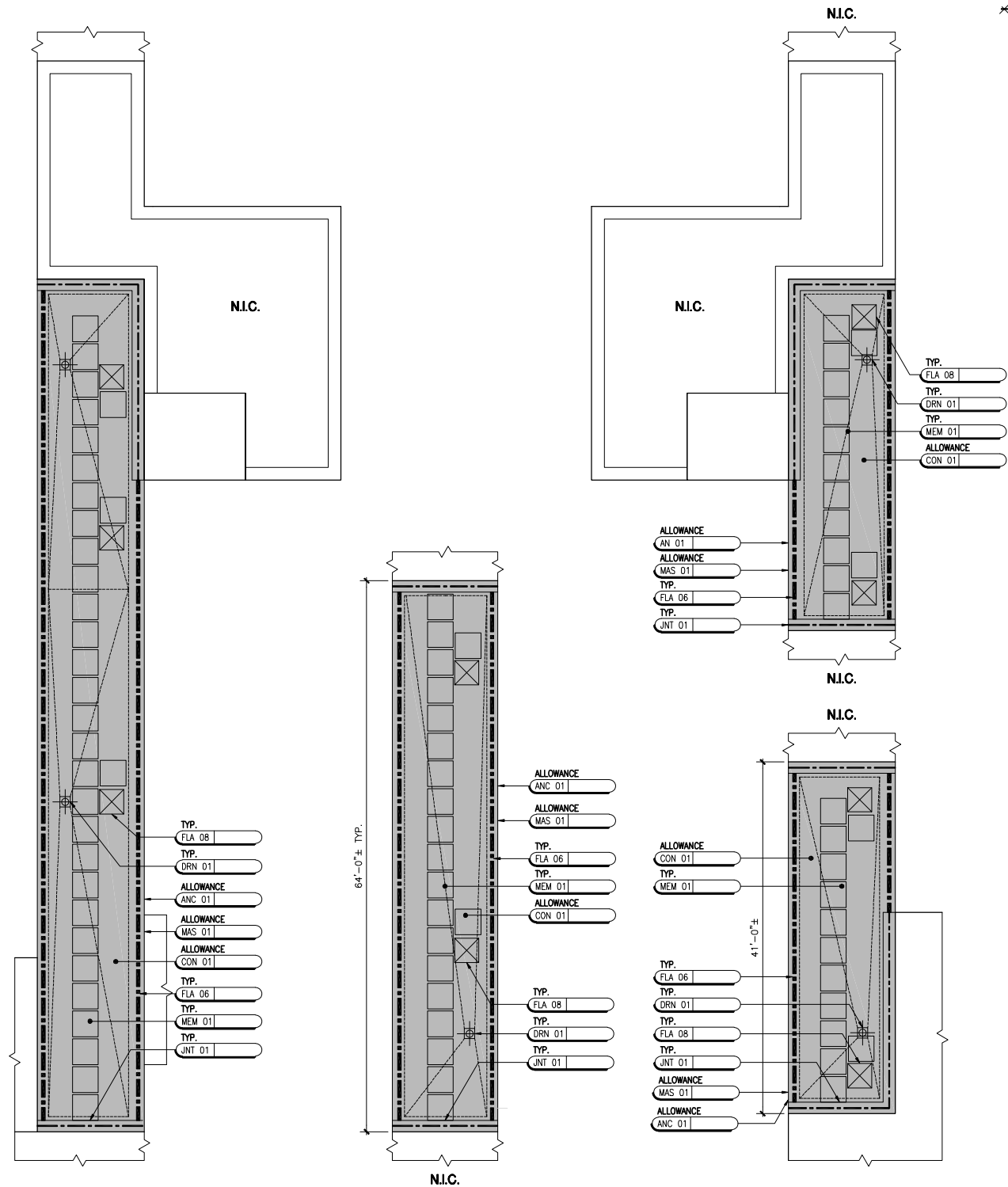
**ROOF PLAN 30**  
 AMKC: BUILDING 2 - WING 8



ID CODE	DESCRIPTION	KEY
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DRN 01	ROOF DRAIN REPLACEMENT	[Symbol]
FLA 03	ROOF EDGE FLASHING: FASCIA AT WINDOW ASSEMBLY	[Symbol]
FLA 05	FLASHING AT HOUSING WING SETBACK	[Symbol]
FLA 06	ROOF EDGE FLASHING: FASCIA TAPERED SLAB	[Symbol]
FLA 07	ROOF CURB FLASHING: ACCESS HATCH	[Symbol]
FLA 08	ROOF CURB FLASHING: VENTILATOR	[Symbol]
FLA 09	PENETRATION FLASHING: PIPES/RAILING	[Symbol]
FLA 10	PENETRATION FLASHING: ANGLES/DUNNAGE	[Symbol]
FLA 11	PERIMETER IN-WALL FLASHING	[Symbol]
JNT 01	ROOF-TO-WALL EXPANSION JOINT	[Symbol]
JNT 02	ROOF-TO-ROOF EXPANSION JOINT	[Symbol]
DOR 01	DOOR SADDLE AND FLASHING	[Symbol]
RAI 01	RAILING INSTALLATION	[Symbol]
-	ROOF WALKWAY PAD	[Symbol]



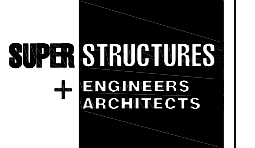
REFER TO SHEET A111 FOR ROOFING NOTES



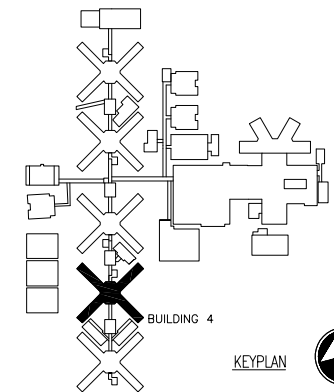
**ROOF PLAN 29**

AMKC: BUILDING 3 - CORRIDOR 3, 4, 5 & 6





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B	ADDENDUM #2	JGC	JGC	01/29/2015
A	ISSUED FOR BID	JGC	JGC	01/08/2015
No.	SUBMISSION	Approved	Reviewed	Date

THE CITY OF NEW YORK  
 DEPARTMENT  
 OF CORRECTION  
 DIVISION OF CAPITAL POLICY  
 AND DEVELOPMENT  
 ENGINEERING UNIT

TITLE/PROJECT/LOCATION:  
 PHASE 1 ROOF REPLACEMENT AT  
 ANNA M. KROSS CENTER (AMKC)

ROOF PLAN:  
 BUILDING 4 AND WING 13  
 RIKERS ISLAND, NEW YORK

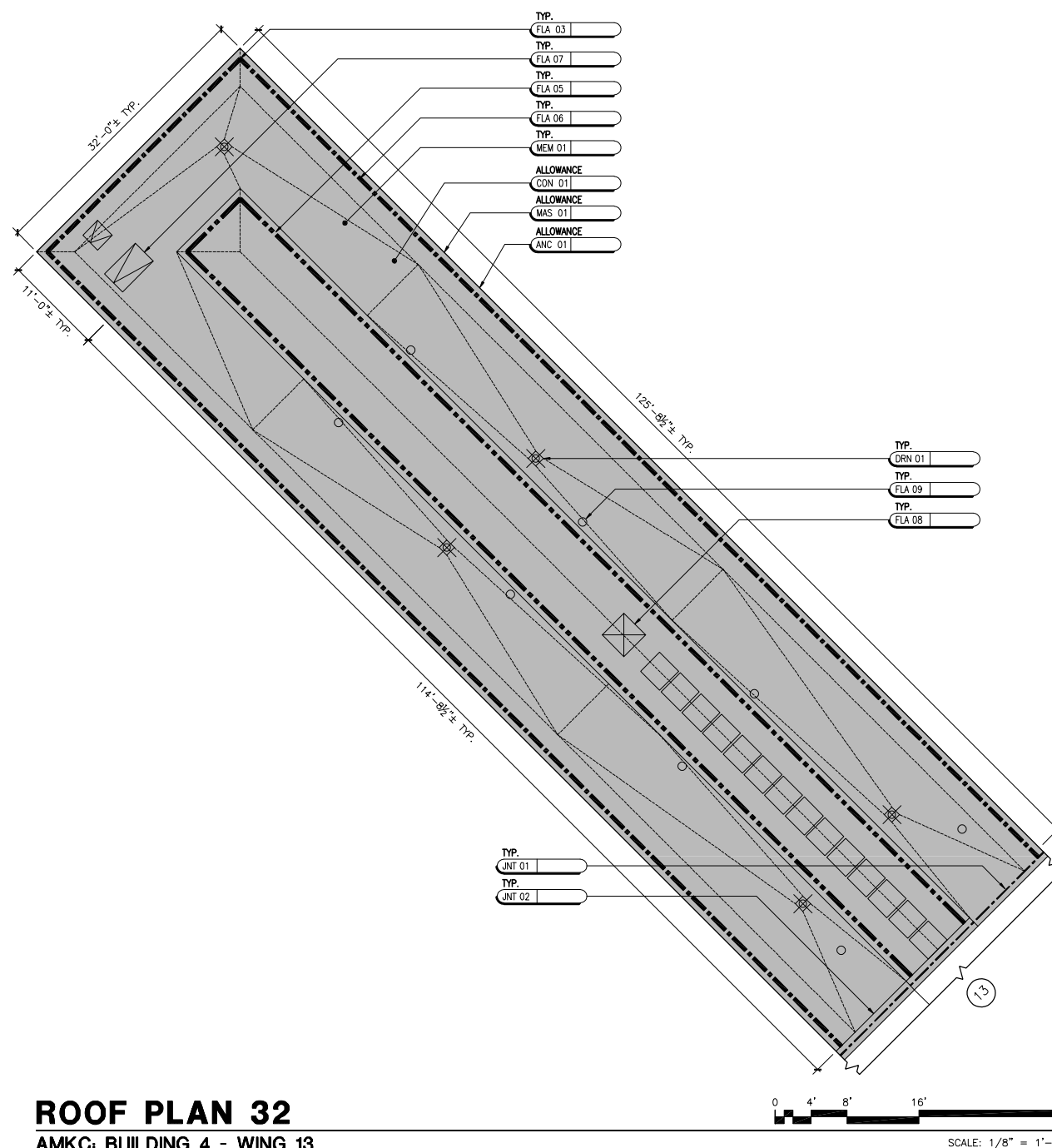
BUDGET ID: C75AMKCRF PIN: 072201404CPD

DIRECTOR: HARDEE SAINI PROJECT MANAGER: JOSEPH G. COFFEY

DESIGNED BY: B.BELAND DRAWN BY: BFF CHECKED BY: L.RIDDLE

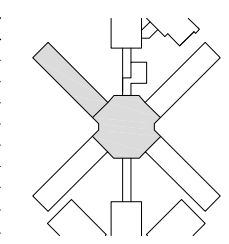
B-SCAN

DRAWING NO.:  
**A117.00**  
 SCALE:  
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 DATE:  
 01/08/15  
 SHEET NO.  
 27 OF 54

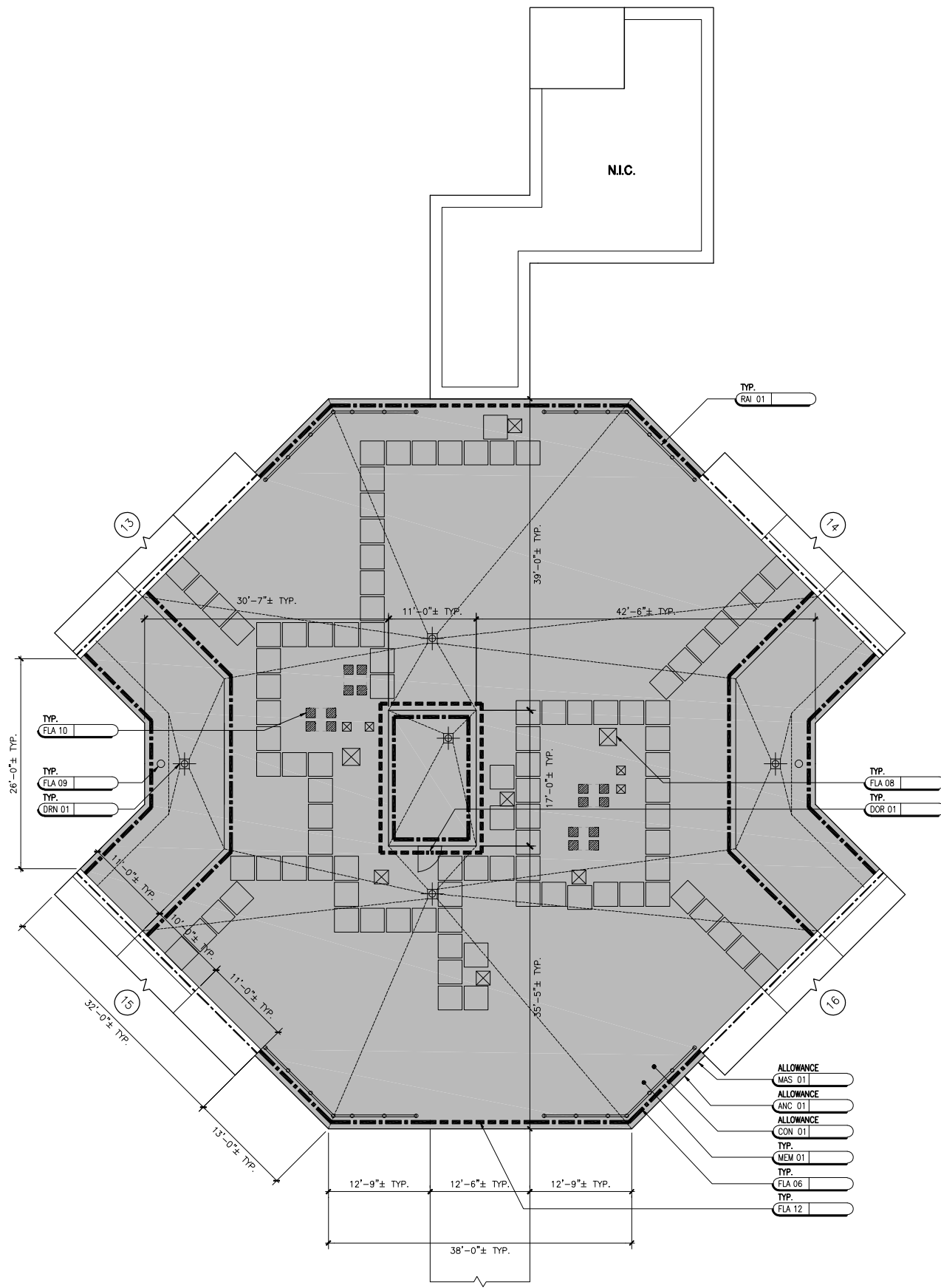


**ROOF PLAN 32**  
 AMKC: BUILDING 4 - WING 13

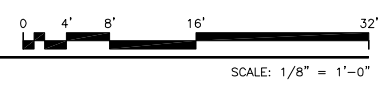
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MEM 01	SBS MODIFIED BITUMEN ROOF SYSTEM	[Symbol]
DRN 01	ROOF DRAIN REPLACEMENT	[Symbol]
FLA 03	ROOF EDGE FLASHING: FASCIA AT WINDOW ASSEMBLY	[Symbol]
FLA 05	FLASHING AT HOUSING WING SETBACK	[Symbol]
FLA 06	ROOF EDGE FLASHING: FASCIA TAPERED SLAB	[Symbol]
FLA 07	ROOF CURB FLASHING: ACCESS HATCH	[Symbol]
FLA 08	ROOF CURB FLASHING: VENTILATOR	[Symbol]
FLA 09	PENETRATION FLASHING: PIPES/RAILING	[Symbol]
FLA 10	PENETRATION FLASHING: ANGLES/DUNNAGE	[Symbol]
FLA 12	PERIMETER IN-WALL FLASHING (BRICK)	[Symbol]
JNT 01	ROOF-TO-WALL EXPANSION JOINT	[Symbol]
JNT 02	ROOF-TO-ROOF EXPANSION JOINT	[Symbol]
DOR 01	DOOR SADDLE AND FLASHING	[Symbol]
RAI 01	RAILING INSTALLATION	[Symbol]
-	ROOF WALKWAY PAD	[Symbol]

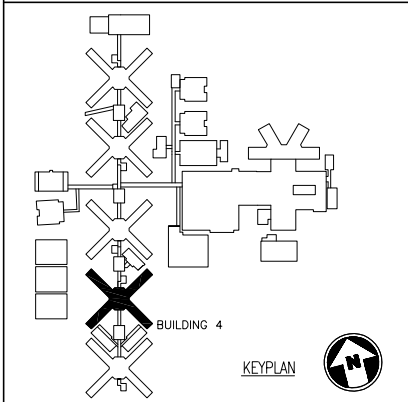


REFER TO SHEET A111 FOR ROOFING NOTES



**ROOF PLAN 31**  
 AMKC: BUILDING 4





B	ADDENDUM #2	JGC	JGC	01/29/2015
A	ISSUED FOR BID	JGC	JGC	01/08/2015
No.	SUBMISSION	Approved	Reviewed	Date

THE CITY OF NEW YORK  
 DEPARTMENT  
 OF CORRECTION  
 DIVISION OF CAPITAL POLICY  
 AND DEVELOPMENT  
 ENGINEERING UNIT

TITLE/PROJECT/LOCATION:  
 PHASE 1 ROOF REPLACEMENT AT  
 ANNA M. KROSS CENTER (AMKC)

ROOF PLAN:  
 WING 14 AND WING 15  
 RIKERS ISLAND, NEW YORK

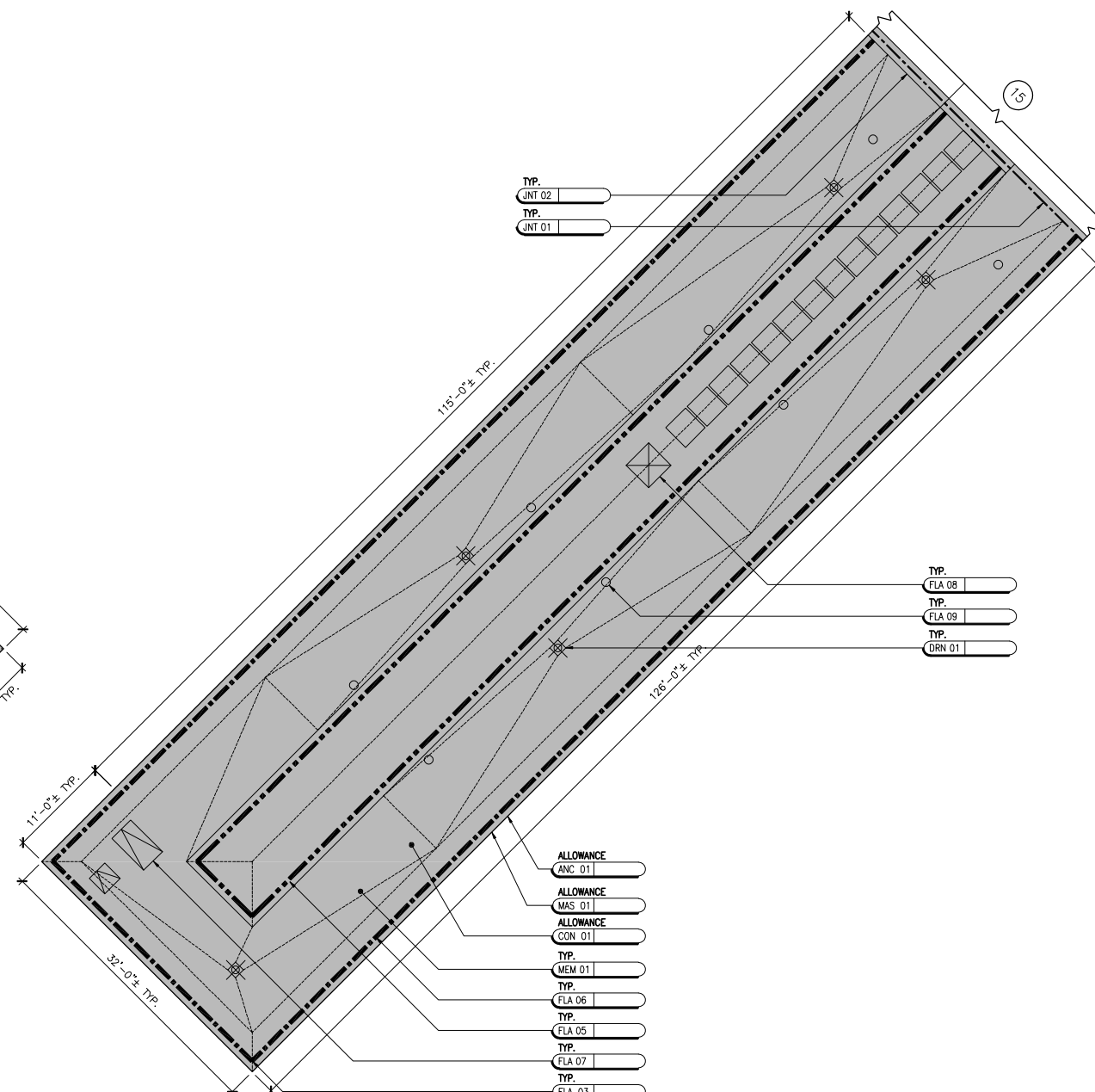
BUDGET ID: C75AMKCRF PIN: 072201404CPD

DIRECTOR: HARDEE SAINI PROJECT MANAGER: JOSEPH G. COFFEY

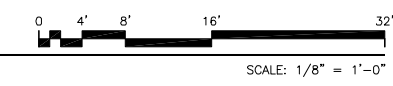
DESIGNED BY: B.BELAND DRAWN BY: BFF CHECKED BY: L.RIDDLE

B-SCAN

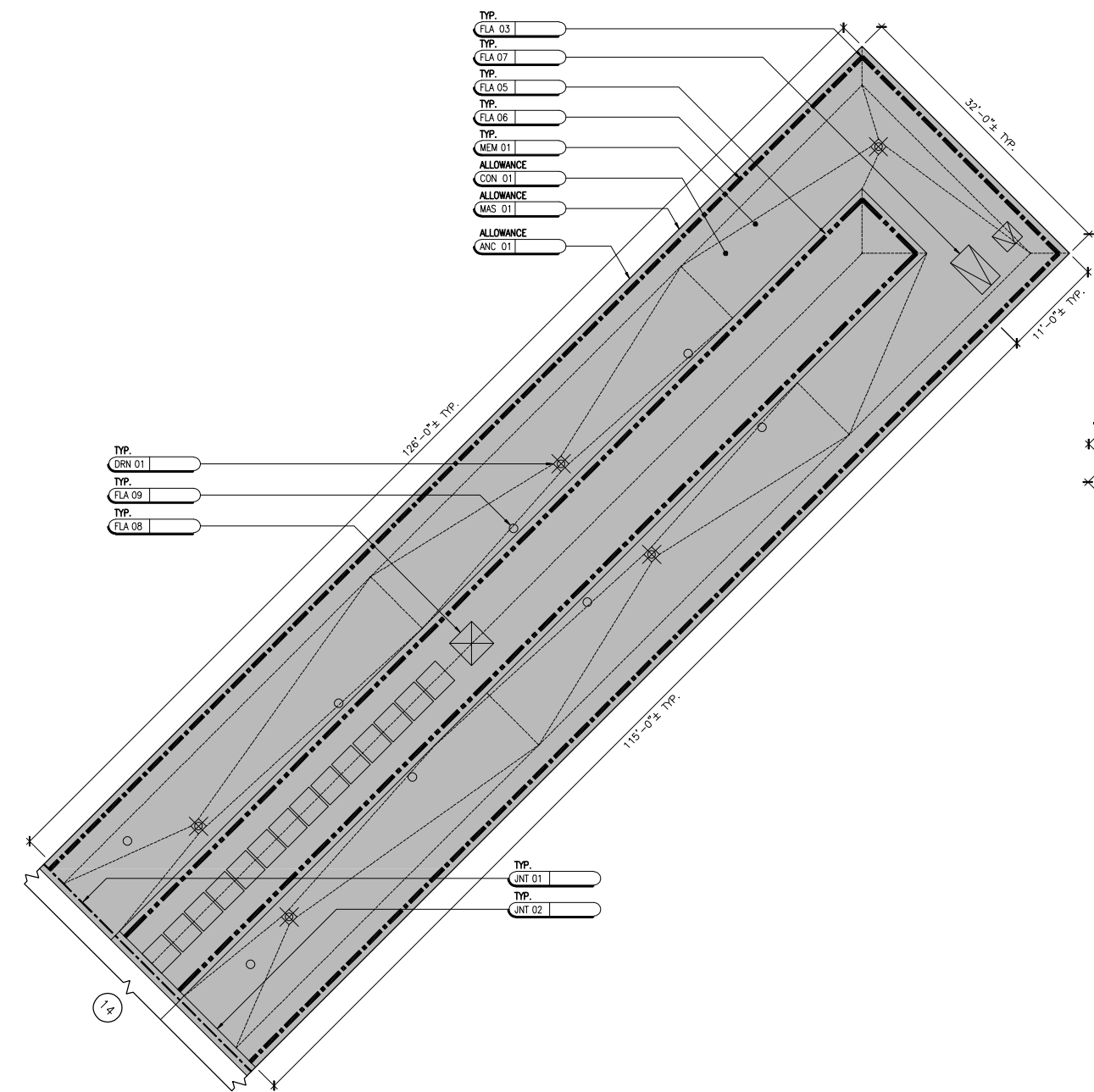
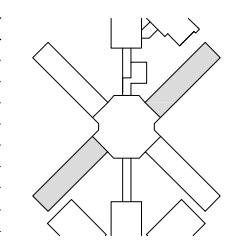
DRAWING NO.:  
**A118.00**  
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 DATE:  
 01/08/15  
 SHEET NO.  
 28 OF 54



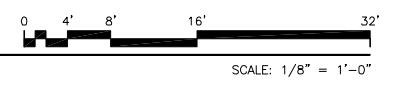
**ROOF PLAN 34**  
 AMKC BUILDING 4 - WING 15



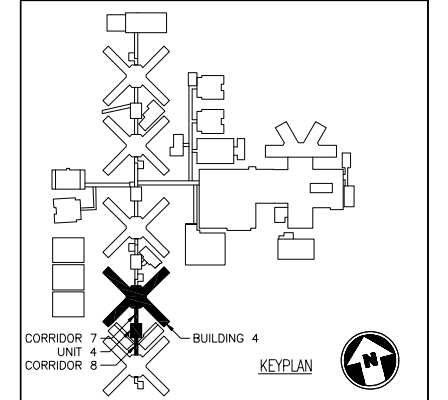
ID CODE	DESCRIPTION	KEY
MEM 01	SBS MODIFIED BITUMEN ROOF SYSTEM	[Pattern]
DRN 01	ROOF DRAIN REPLACEMENT	[Symbol]
FLA 03	ROOF EDGE FLASHING: FASCIA AT WINDOW ASSEMBLY	[Pattern]
FLA 05	FLASHING AT HOUSING WING SETBACK	[Pattern]
FLA 06	ROOF EDGE FLASHING: FASCIA AT TAPERED SLAB	[Pattern]
FLA 07	ROOF CURB FLASHING: ACCESS HATCH	[Symbol]
FLA 08	ROOF CURB FLASHING: VENTILATOR	[Symbol]
FLA 09	PENETRATION FLASHING: PIPES/RAILING	[Symbol]
JNT 01	ROOF-TO-WALL EXPANSION JOINT	[Pattern]
JNT 02	ROOF-TO-ROOF EXPANSION JOINT	[Pattern]
-	ROOF WALKWAY PAD	[Symbol]



**ROOF PLAN 33**  
 AMKC BUILDING 4 - WING 14



REFER TO SHEET A111 FOR ROOFING NOTES



B	ADDENDUM #2	JGC	JGC	01/29/2015
A	ISSUED FOR BID	JGC	JGC	01/08/2015
No.	SUBMISSION	Approved	Reviewed	Date

THE CITY OF NEW YORK  
 DEPARTMENT  
 OF CORRECTION  
 DIVISION OF CAPITAL POLICY  
 AND DEVELOPMENT  
 ENGINEERING UNIT

TITLE/PROJECT/LOCATION:  
 PHASE 1 ROOF REPLACEMENT AT  
 ANNA M. KROSS CENTER (AMKC)  
 ROOF PLAN:  
 CORRIDOR 7 & 8,  
 OFFICE UNIT 4 AND WING 16  
 RIKERS ISLAND, NEW YORK

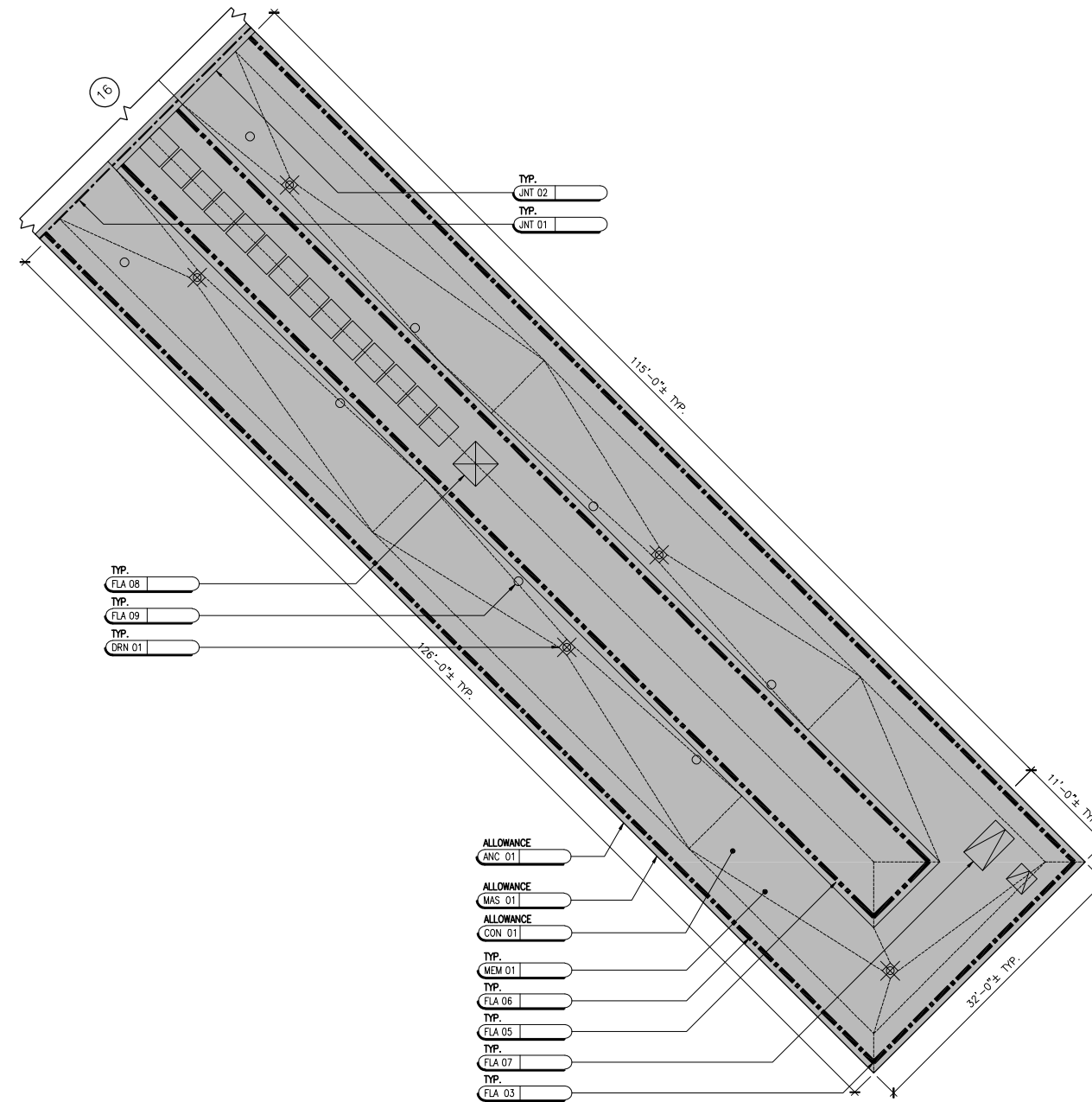
BUDGET ID: C75AMKCRF PIN: 072201404CPD

DIRECTOR: HARDEE SAINI PROJECT MANAGER: JOSEPH G. COFFEY

DESIGNED BY: B.BELAND DRAWN BY: BFF CHECKED BY: L.RIDDLE

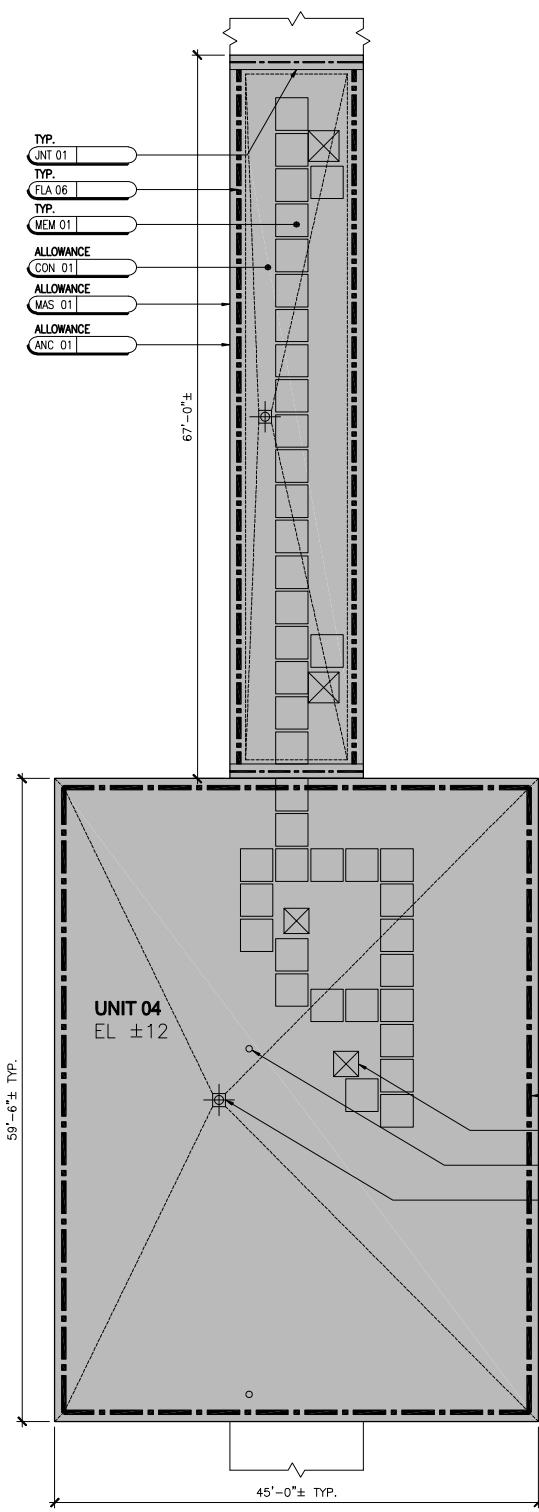
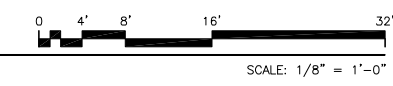
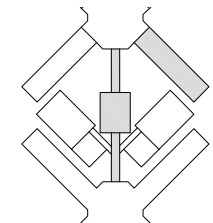
B-SCAN

DRAWING NO.:  
**A119.00**  
 SCALE:  
 AS SHOWN  
 DATE:  
 01/08/15  
 SHEET NO.  
 29 OF 54



**ROOF PLAN 36**  
 AMKC: BUILDING 4 - WING 16

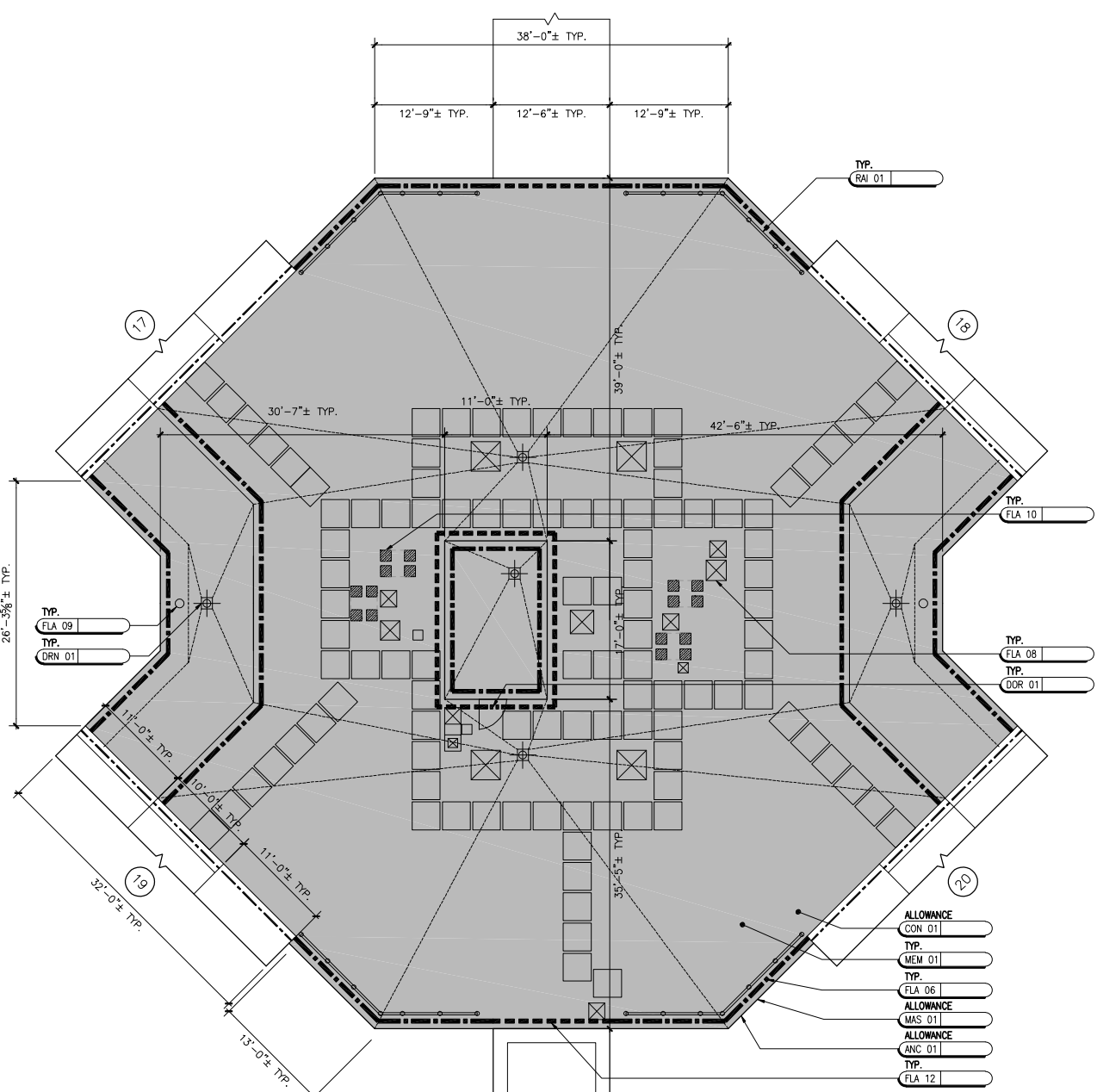
ID CODE	DESCRIPTION	KEY
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DRN 01	ROOF DRAIN REPLACEMENT	[Symbol]
FLA 03	ROOF EDGE FLASHING: FASCIA AT WINDOW ASSEMBLY	[Symbol]
FLA 05	FLASHING AT HOUSING WING SETBACK	[Symbol]
FLA 06	ROOF EDGE FLASHING: FASCIA TAPERED SLAB	[Symbol]
FLA 07	ROOF CURB FLASHING: ACCESS HATCH	[Symbol]
FLA 08	ROOF CURB FLASHING: VENTILATOR	[Symbol]
FLA 09	PENETRATION FLASHING: PIPES/RAILING	[Symbol]
FLA 10	PENETRATION FLASHING: ANGLES/DUNNAGE	[Symbol]
FLA 11	PERIMETER IN-WALL FLASHING	[Symbol]
JNT 01	ROOF-TO-WALL EXPANSION JOINT	[Symbol]
JNT 02	ROOF-TO-ROOF EXPANSION JOINT	[Symbol]
DOR 01	DOOR SADDLE AND FLASHING	[Symbol]
RAI 01	RAILING INSTALLATION	[Symbol]
-	ROOF WALKWAY PAD	[Symbol]



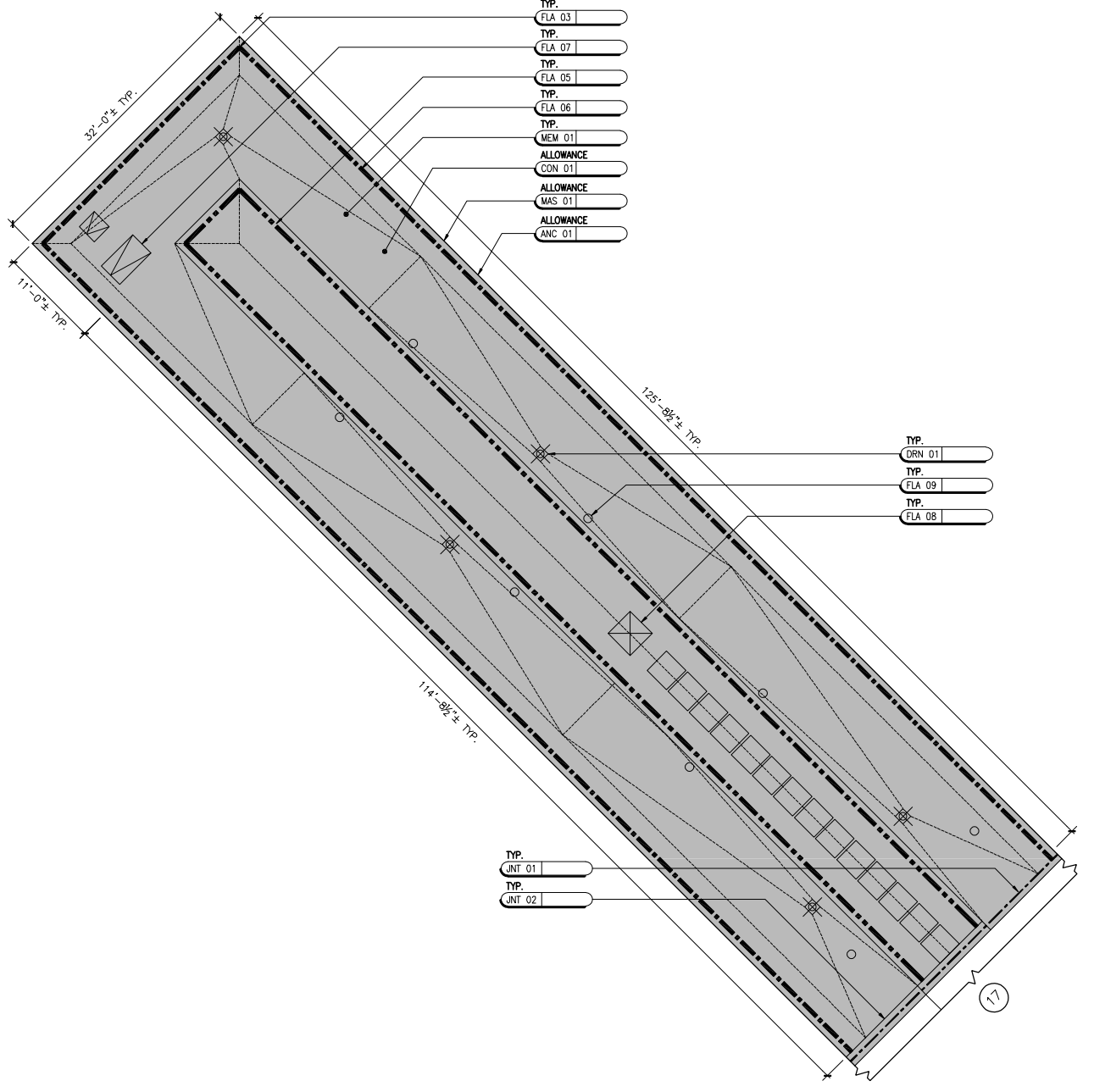
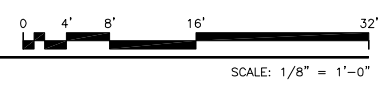
**ROOF PLAN 35**  
 AMKC: BUILDING 4 - UNIT 4, CORRIDOR 7 AND 8



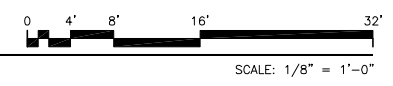
REFER TO SHEET A111 FOR ROOFING NOTES



**ROOF PLAN 37**  
AMKC: BUILDING 5

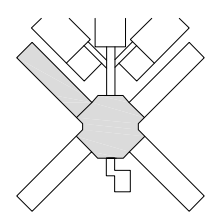


**ROOF PLAN 38**  
AMKC: BUILDING 5 - WING 17



**LEGEND**

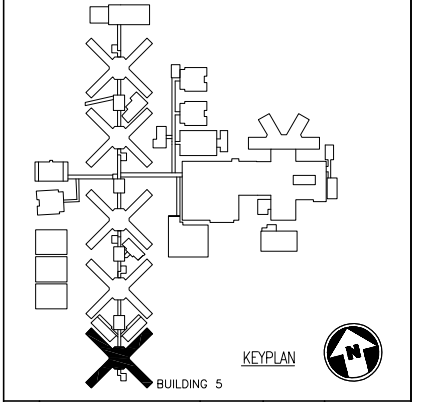
ID CODE	DESCRIPTION	KEY
MEM 01	SBS MODIFIED BITUMEN ROOF SYSTEM	[Solid Grey]
DRN 01	ROOF DRAIN REPLACEMENT	[Circle with cross]
FLA 03	ROOF EDGE FLASHING: FASCIA AT WINDOW ASSEMBLY	[Dashed line]
FLA 05	FLASHING AT HOUSING WING SETBACK	[Dotted line]
FLA 06	ROOF EDGE FLASHING: FASCIA TAPERED SLAB	[Dash-dot line]
FLA 07	ROOF CURB FLASHING: ACCESS HATCH	[Square with cross]
FLA 08	ROOF CURB FLASHING: VENTILATOR	[Square with X]
FLA 09	PENETRATION FLASHING: PIPES/RAILING	[Circle with dot]
FLA 10	PENETRATION FLASHING: ANGLES/DUNNAGE	[Square with dot]
FLA 12	PERIMETER IN-WALL FLASHING (BRICK)	[Dashed line with dots]
JNT 01	ROOF-TO-WALL EXPANSION JOINT	[Dashed line with dots]
JNT 02	ROOF-TO-ROOF EXPANSION JOINT	[Dashed line with dots]
DOR 01	DOOR SADDLE AND FLASHING	[Dashed line with dots]
RAI 01	RAILING INSTALLATION	[Circle with dot]
-	ROOF WALKWAY PAD	[Square]



REFER TO SHEET A111 FOR ROOFING NOTES

**GPI**  
**Greenman - Pedersen, Inc**  
Engineering and Construction Services  
400 Rella Boulevard, Montebello, New York 10901  
Tel: (845) 368-4050 Fax: (845) 368-4070  
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B	ADDENDUM #2	JGC	JGC	01/29/2015
A	ISSUED FOR BID	JGC	JGC	01/08/2015
No.	SUBMISSION	Approved	Reviewed	Date

THE CITY OF NEW YORK  
**DEPARTMENT OF CORRECTION**  
DIVISION OF CAPITAL POLICY AND DEVELOPMENT  
ENGINEERING UNIT

TITLE/PROJECT/LOCATION:  
PHASE 1 ROOF REPLACEMENT AT  
ANNA M. KROSS CENTER (AMKC)

ROOF PLAN:  
BUILDING 5 AND WING 17  
RIKERS ISLAND, NEW YORK

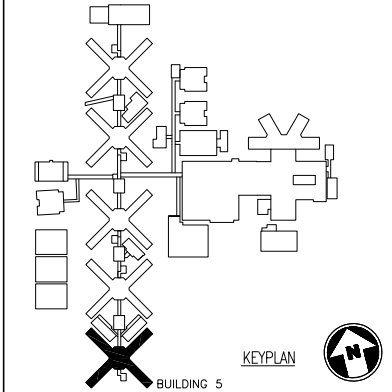
BUDGET ID: C75AMKCRF PIN: 072201404CPD

DIRECTOR: HARDEE SAINI PROJECT MANAGER: JOSEPH G. COFFEY

DESIGNED BY: B.BELAND DRAWN BY: BFF CHECKED BY: L.RIDDLE

B-SCAN

DRAWING NO.:  
**A120.00**  
SCALE:  
AS SHOWN  
DATE:  
01/08/15  
SHEET NO.  
30 OF 54



B	ADDENDUM #2	JGC	JGC	01/29/2015
A	ISSUED FOR BID	JGC	JGC	01/08/2015
No.	SUBMISSION	Approved	Reviewed	Date

THE CITY OF NEW YORK  
 DEPARTMENT  
 OF CORRECTION  
 DIVISION OF CAPITAL POLICY  
 AND DEVELOPMENT  
 ENGINEERING UNIT

TITLE/PROJECT/LOCATION:  
 PHASE 1 ROOF REPLACEMENT AT  
 ANNA M. KROSS CENTER (AMKC)

ROOF PLAN:  
 WING 18 AND 19  
 RIKERS ISLAND, NEW YORK

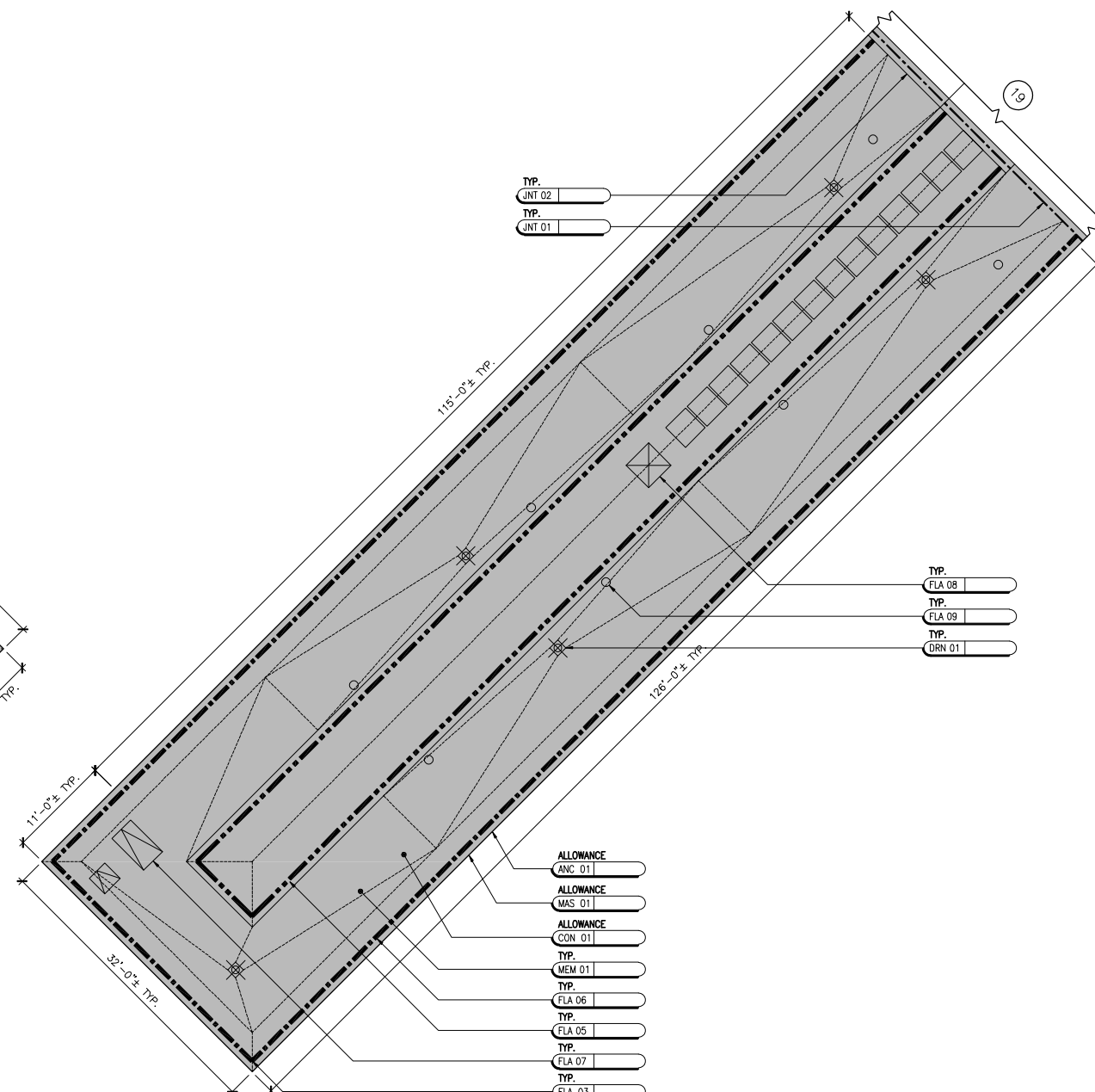
BUDGET ID: C75AMKCRF PIN: 072201404CPD

DIRECTOR: HARDEE SAINI PROJECT MANAGER: JOSEPH G. COFFEY

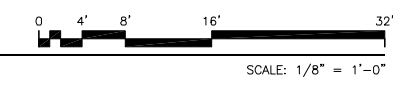
DESIGNED BY: B.BELAND DRAWN BY: BFF CHECKED BY: L.RIDDLE

B-SCAN

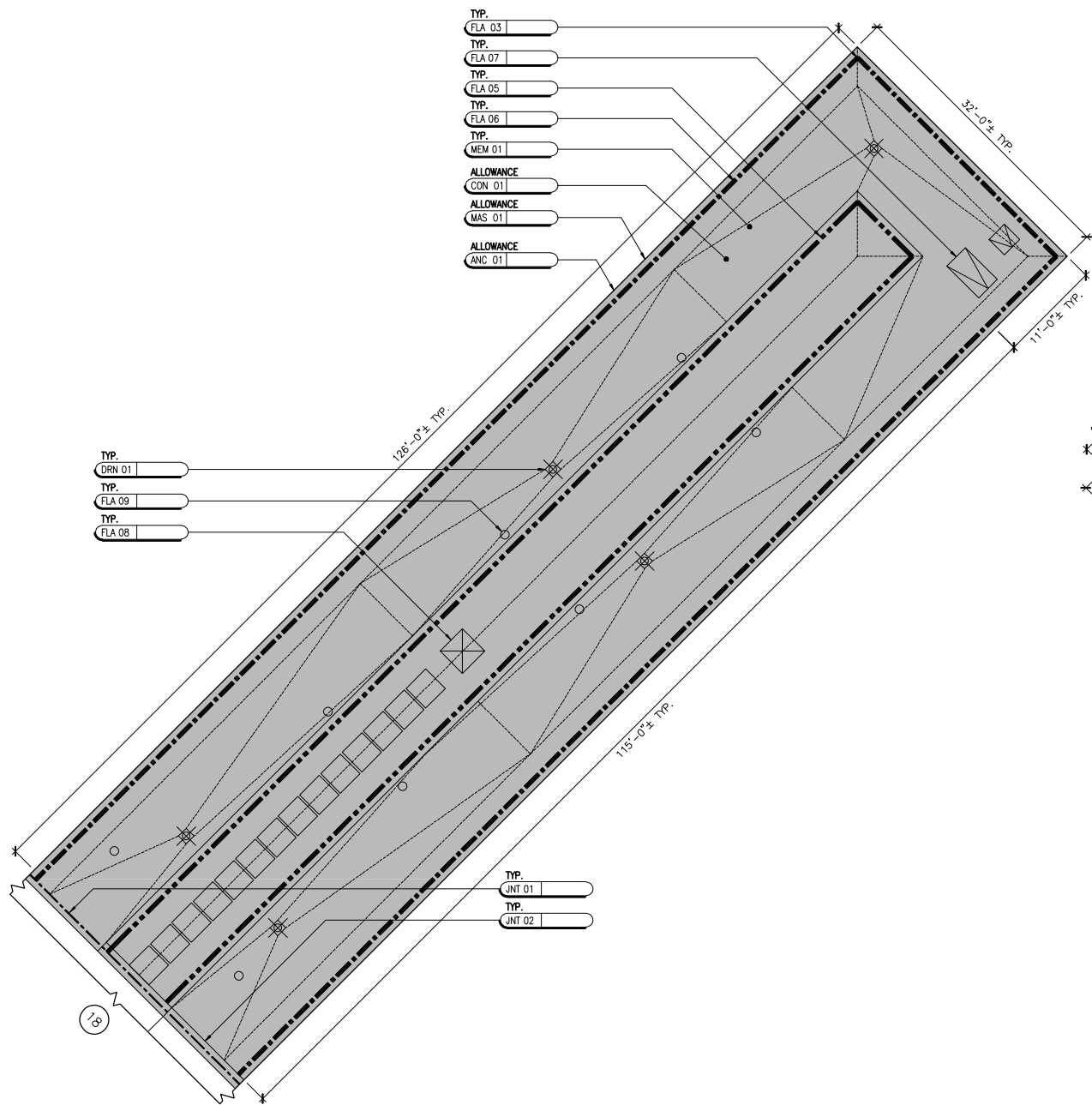
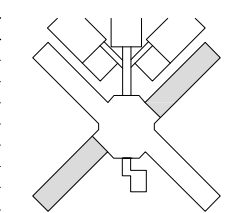
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**A121.00**  
 SCALE:  
 AS SHOWN  
 DATE:  
 01/08/15  
 SHEET NO.  
 31 OF 54



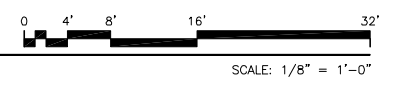
**ROOF PLAN 40**  
 AMKC: BUILDING 5 - WING 19



ID CODE	DESCRIPTION	KEY
MEM 01	SBS MODIFIED BITUMEN ROOF SYSTEM	[Pattern]
DRN 01	ROOF DRAIN REPLACEMENT	[Symbol]
FLA 03	ROOF EDGE FLASHING: FASCIA AT WINDOW ASSEMBLY	[Symbol]
FLA 05	FLASHING AT HOUSING WING SETBACK	[Symbol]
FLA 06	ROOF EDGE FLASHING: FASCIA AT TAPERED SLAB	[Symbol]
FLA 07	ROOF CURB FLASHING: ACCESS HATCH	[Symbol]
FLA 08	ROOF CURB FLASHING: VENTILATOR	[Symbol]
FLA 09	PENETRATION FLASHING: PIPES/RAILING	[Symbol]
JNT 01	ROOF-TO-WALL EXPANSION JOINT	[Symbol]
JNT 02	ROOF-TO-ROOF EXPANSION JOINT	[Symbol]
-	ROOF WALKWAY PAD	[Symbol]

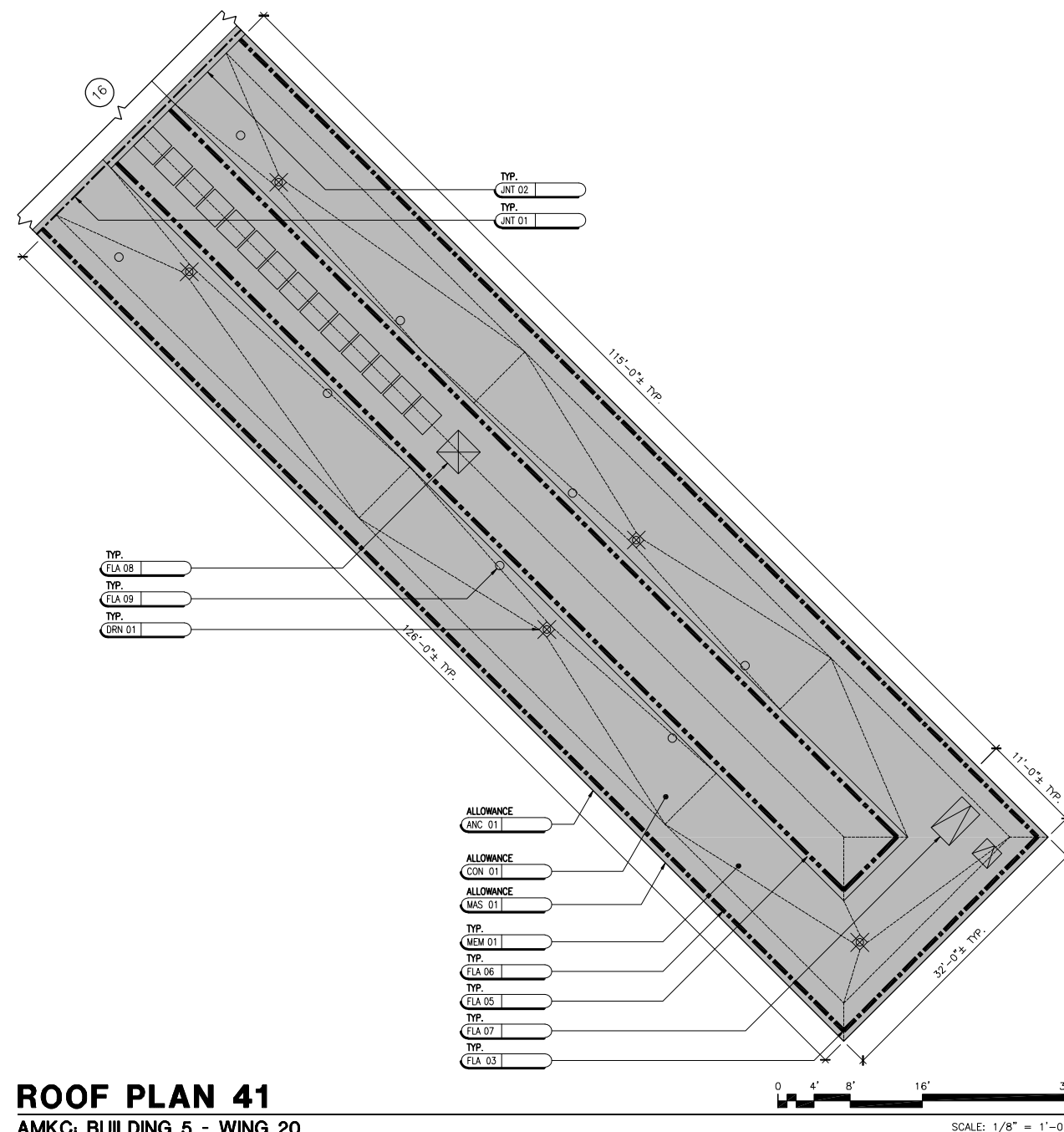
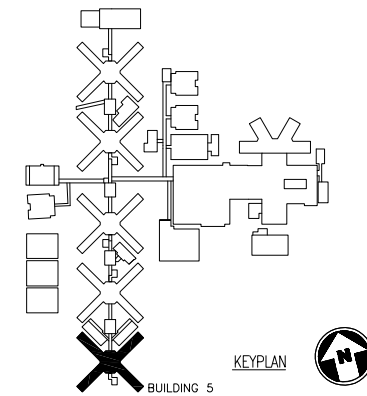


**ROOF PLAN 39**  
 AMKC: BUILDING 5 - WING 18

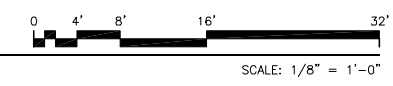


REFER TO SHEET A111 FOR ROOFING NOTES





**ROOF PLAN 41**  
 AMKC: BUILDING 5 - WING 20

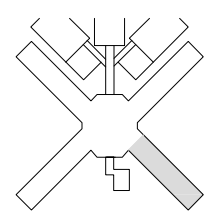


**ROOFING NOTES**

- AFTER DEMOLITION OF EXISTING ROOFING, CONTRACTOR TO PROVIDE EXISTING ROOF DECK SURVEY (SIGNED AND SEALED BY A SURVEYOR LICENSED IN THE STATE OF NY) SHOWING EXISTING ROOF PITCH, AND PROPOSED ELEVATIONS AT HIGH AND LOW POINTS, DOORS, PENETRATIONS, DRAINS, ETC. PROVIDE FINDINGS TO THE COMMISSIONER.
- PROVIDE TAPERED INSULATION TO ACHIEVE POSITIVE DRAINAGE, MIN. 1/8" PER FT. COORDINATE HEIGHT OF INSULATION AND FINISH ROOF WITH DOOR SADDLE AND FLASHING HEIGHT REQUIREMENTS. PROVIDE CRICKETS/SADDLES AT ALL CURBS, BULKHEADS AND MECHANICAL PENETRATIONS AS REQUIRED TO PROVIDE POSITIVE DRAINAGE TOWARDS NEAREST ROOF DRAIN.
- CONTRACTOR IS TO PROVIDE ALL LABOR AND MATERIALS FOR A COMPLETE AND WATERTIGHT JOB THAT IS FULLY WARRANTED/GUARANTEED BY THE MANUFACTURER AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. ANY DETAILS OR WORK REQUIRED FOR A COMPLETE JOB, BUT NOT SHOWN OR SPECIFIED BY THE CONTRACT DOCUMENTS, SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS AT NO ADDITIONAL COST TO THE CITY OF NEW YORK.
- RESTORATION TAGS FOR FLASHING REPRESENT "TYPICAL" DETAILS FOR EACH FLASHING CONDITION. FOR CLARITY, NOT ALL PENETRATIONS ARE TAGGED. ALL PENETRATIONS ARE TO BE ADDRESSED UNDER THE SCOPE OF WORK.
- ROOF WALKWAY PADS TO PROVIDE ACCESS TO BULKHEADS AND MECHANICAL EQUIPMENT. LAYOUT OF PADS IS SHOWN SCHEMATICALLY FOR PRICING PURPOSES; CONTRACTOR IS TO COORDINATE WITH COMMISSIONER AND FACILITY ENGINEERS TO VERIFY FINAL LAYOUT. PROVIDE MINIMUM 3" SPACING BETWEEN PADS TO PREVENT INTERFERENCE WITH DRAINAGE PATTERN.

**LEGEND**

ID CODE	DESCRIPTION	KEY
MEM 01	SBS MODIFIED BITUMEN ROOF SYSTEM	
DRN 01	ROOF DRAIN REPLACEMENT	
FLA 03	ROOF EDGE FLASHING: FASCIA AT WINDOW ASSEMBLY	
FLA 05	FLASHING AT HOUSING WING SETBACK	
FLA 06	ROOF EDGE FLASHING: FASCIA AT TAPERED SLAB	
FLA 07	ROOF CURB FLASHING: ACCESS HATCH	
FLA 08	ROOF CURB FLASHING: VENTILATOR	
FLA 09	PENETRATION FLASHING: PIPES/RAILING	
JNT 01	ROOF-TO-WALL EXPANSION JOINT	
JNT 02	ROOF-TO-ROOF EXPANSION JOINT	
-	ROOF WALKWAY PAD	



THE CITY OF NEW YORK  
 DEPARTMENT  
 OF CORRECTION  
 DIVISION OF CAPITAL POLICY  
 AND DEVELOPMENT  
 ENGINEERING UNIT

TITLE/PROJECT/LOCATION:  
 PHASE 1 ROOF REPLACEMENT AT  
 ANNA M. KROSS CENTER (AMKC)

ROOF PLAN:  
 WING 20

RIKERS ISLAND, NEW YORK

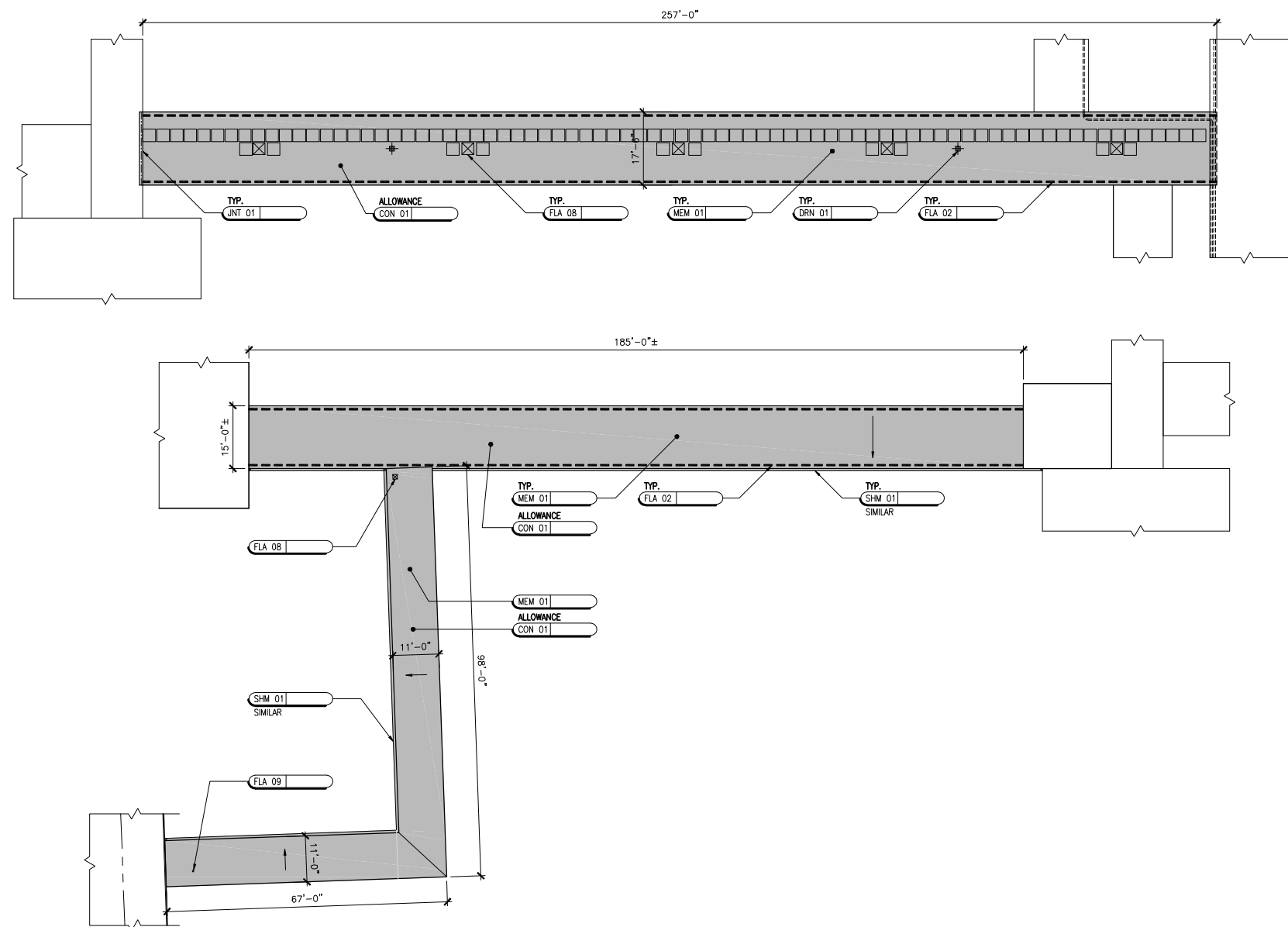
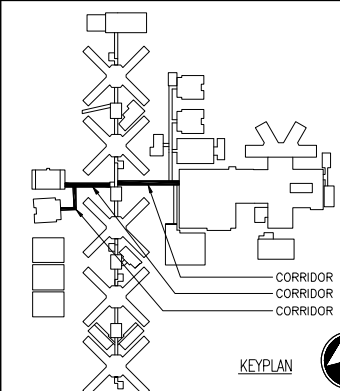
BUDGET ID: C75AMKCRF PIN: 072201404CPD

DIRECTOR: HARDEE SAINI PROJECT MANAGER: JOSEPH G. COFFEY

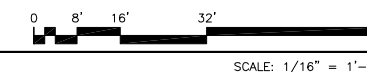
DESIGNED BY: B.BELAND DRAWN BY: BFF CHECKED BY: L.RIDDLE

B-SCAN

DRAWING NO.:  
**A122.00**  
 SCALE:  
 AS SHOWN  
 DATE:  
 01/08/15  
 SHEET NO.  
 32 OF 54



**ROOF PLAN 51**  
 AMKC CORRIDORS 14, 15, AND 15A



**ROOFING NOTES**

- AFTER DEMOLITION OF EXISTING ROOFING, CONTRACTOR TO PROVIDE EXISTING ROOF DECK SURVEY (SIGNED AND SEALED BY A SURVEYOR LICENSED IN THE STATE OF NY) SHOWING EXISTING ROOF PITCH, AND PROPOSED ELEVATIONS AT HIGH AND LOW POINTS, DOORS, PENETRATIONS, DRAINS, ETC. PROVIDE FINDINGS TO THE COMMISSIONER.
- PROVIDE TAPERED INSULATION TO ACHIEVE POSITIVE DRAINAGE, MIN. 1/8" PER FT. COORDINATE HEIGHT OF INSULATION AND FINISH ROOF WITH DOOR SADDLE AND FLASHING HEIGHT REQUIREMENTS. PROVIDE CRICKETS/SADDLES AT ALL CURBS, BULKHEADS AND MECHANICAL PENETRATIONS AS REQUIRED TO PROVIDE POSITIVE DRAINAGE TOWARDS NEAREST ROOF DRAIN.
- CONTRACTOR IS TO PROVIDE ALL LABOR AND MATERIALS FOR A COMPLETE AND WATERTIGHT JOB THAT IS FULLY WARRANTED/GUARANTEED BY THE MANUFACTURER AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. ANY DETAILS OR WORK REQUIRED FOR A COMPLETE JOB, BUT NOT SHOWN OR SPECIFIED BY THE CONTRACT DOCUMENTS, SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS AT NO ADDITIONAL COST TO THE CITY OF NEW YORK.
- RESTORATION TAGS FOR FLASHING REPRESENT "TYPICAL" DETAILS FOR EACH FLASHING CONDITION. FOR CLARITY, NOT ALL PENETRATIONS ARE TAGGED. ALL PENETRATIONS ARE TO BE ADDRESSED UNDER THE SCOPE OF WORK.
- ROOF WALKWAY PADS TO PROVIDE ACCESS TO BULKHEADS AND MECHANICAL EQUIPMENT. LAYOUT OF PADS IS SHOWN SCHEMATICALLY FOR PRICING PURPOSES; CONTRACTOR IS TO COORDINATE WITH COMMISSIONER AND FACILITY ENGINEERS TO VERIFY FINAL LAYOUT. PROVIDE MINIMUM 3" SPACING BETWEEN PADS TO PREVENT INTERFERENCE WITH DRAINAGE PATTERN.

**LEGEND**

ID CODE	DESCRIPTION	KEY
MEM 01	SBS MODIFIED BITUMEN ROOF SYSTEM	
DRN 01	ROOF DRAIN REPLACEMENT	
FLA 02	ROOF EDGE FLASHING: FASCIA	
FLA 08	ROOF CURB FLASHING: VENTILATOR	
FLA 09	PENETRATION FLASHING: PIPES/RAILING	
JNT 01	ROOF-TO-ROOF EXPANSION JOINT	
SHM 02	GUTTER/LEADER SYSTEM	
N/A	CONDUITS	
-	ROOF WALKWAY PAD	

No.	SUBMISSION	Approved	Reviewed	Date
B	ADDENDUM #2	JGC	JGC	01/29/2015
A	ISSUED FOR BID	JGC	JGC	01/08/2015

THE CITY OF NEW YORK  
 DEPARTMENT  
 OF CORRECTION  
 DIVISION OF CAPITAL POLICY  
 AND DEVELOPMENT  
 ENGINEERING UNIT

TITLE/PROJECT/LOCATION:  
 PHASE 1 ROOF REPLACEMENT AT  
 ANNA M. KROSS CENTER (AMKC)

ROOF PLAN:  
 CORRIDORS 14, 15, AND 15A

RIKERS ISLAND, NEW YORK

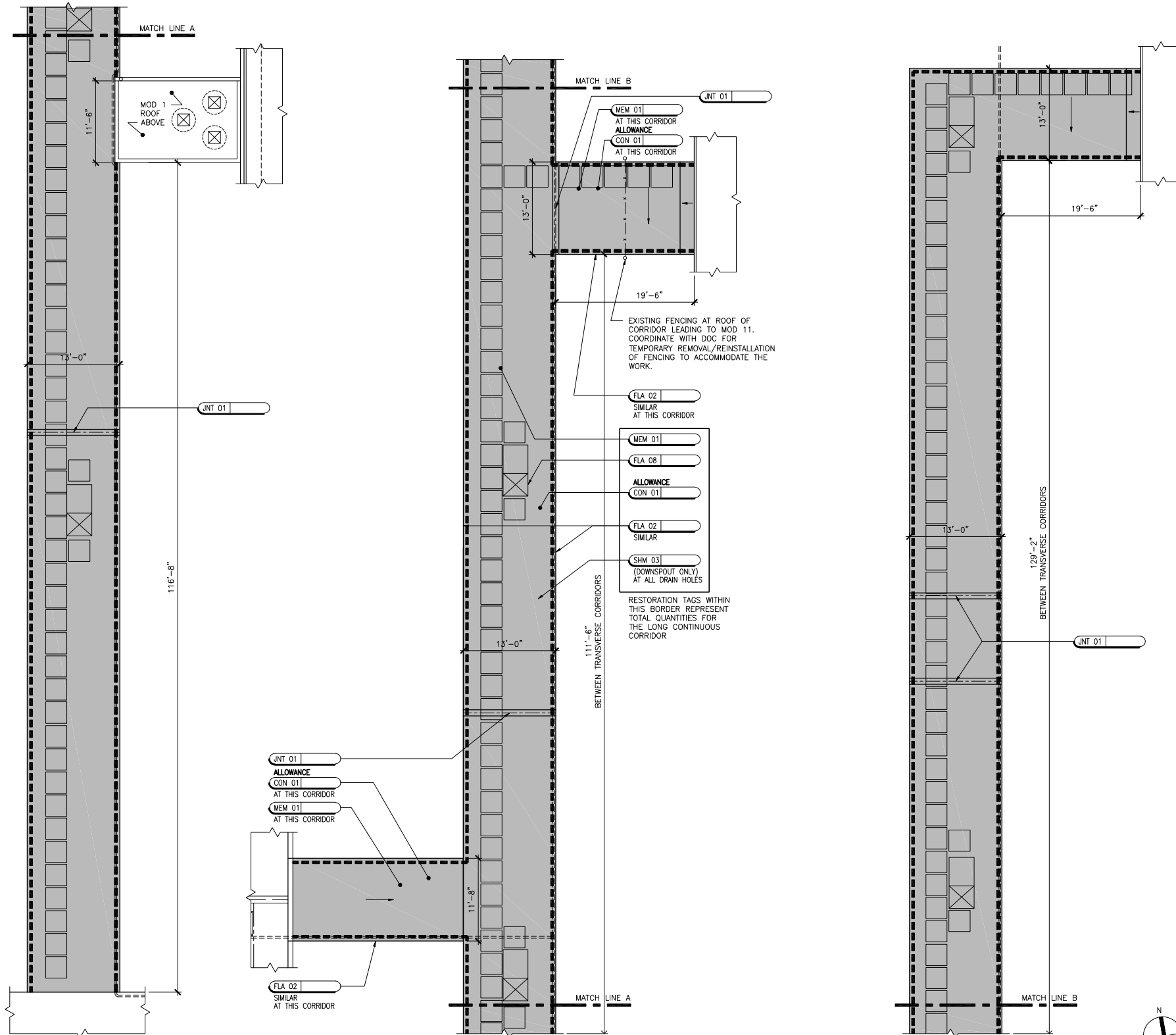
BUDGET ID: C75AMKCRF PIN: 072201404CPD

DIRECTOR: HARDEE SAINI PROJECT MANAGER: JOSEPH G. COFFEY

DESIGNED BY: B.BELAND DRAWN BY: BFF CHECKED BY: L.RIDDLE

B-SCAN

DRAWING NO.:  
**A132.00**  
 SCALE:  
 AS SHOWN  
 DATE:  
 01/08/15  
 SHEET NO.  
 33 OF 54



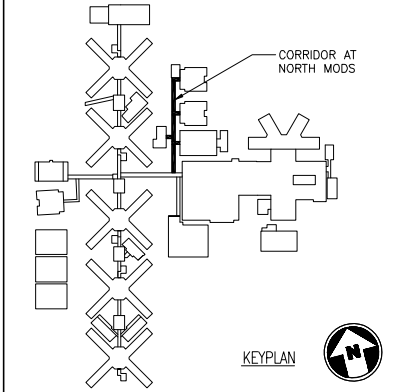
**ROOF PLAN 60**  
AMKC: CORRIDOR AT NORTH MODS

**ROOFING NOTES**

1. AFTER DEMOLITION OF EXISTING ROOFING, CONTRACTOR TO PROVIDE EXISTING ROOF DECK SURVEY (SIGNED AND SEALED BY A SURVEYOR LICENSED IN THE STATE OF NY) SHOWING EXISTING ROOF PITCH, AND PROPOSED ELEVATIONS AT HIGH AND LOW POINTS, DOORS, PENETRATIONS, DRAINS, ETC. PROVIDE FINDINGS TO THE COMMISSIONER.
2. PROVIDE TAPERED INSULATION TO ACHIEVE POSITIVE DRAINAGE, MIN. 1/8" PER FT. COORDINATE HEIGHT OF INSULATION AND FINISH ROOF WITH DOOR SADDLE AND FLASHING HEIGHT REQUIREMENTS. PROVIDE CRICKETS/SADDLES AT ALL CURBS, BULKHEADS AND MECHANICAL PENETRATIONS AS REQUIRED TO PROVIDE POSITIVE DRAINAGE TOWARDS NEAREST ROOF DRAIN.
3. CONTRACTOR IS TO PROVIDE ALL LABOR AND MATERIALS FOR A COMPLETE AND WATERTIGHT JOB THAT IS FULLY WARRANTED/GUARANTEED BY THE MANUFACTURER AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. ANY DETAILS OR WORK REQUIRED FOR A COMPLETE JOB, BUT NOT SHOWN OR SPECIFIED BY THE CONTRACT DOCUMENTS, SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS AT NO ADDITIONAL COST TO THE CITY OF NEW YORK.
4. RESTORATION TAGS FOR FLASHING REPRESENT "TYPICAL" DETAILS FOR EACH FLASHING CONDITION. FOR CLARITY, NOT ALL PENETRATIONS ARE TAGGED. ALL PENETRATIONS ARE TO BE ADDRESSED UNDER THE SCOPE OF WORK.
5. ROOF WALKWAY PADS TO PROVIDE ACCESS TO BULKHEADS AND MECHANICAL EQUIPMENT. LAYOUT OF PADS IS SHOWN SCHEMATICALLY FOR PRICING PURPOSES; CONTRACTOR IS TO COORDINATE WITH COMMISSIONER AND FACILITY ENGINEERS TO VERIFY FINAL LAYOUT. PROVIDE MINIMUM 3" SPACING BETWEEN PADS TO PREVENT INTERFERENCE WITH DRAINAGE PATTERN.

**LEGEND**

ID CODE	DESCRIPTION	KEY
MEM 01	SBS MODIFIED BITUMEN ROOF SYSTEM	[Symbol]
DRN 01	ROOF DRAIN REPLACEMENT	[Symbol]
FLA 02	ROOF EDGE FLASHING: FASCIA (SIMILAR)	[Symbol]
FLA 08	ROOF CURB FLASHING: VENTILATOR	[Symbol]
JNT 01	ROOF-TO-ROOF EXPANSION JOINT	[Symbol]
SHM 02	GUTTER/LEADER SYSTEM	[Symbol]
N/A	CONDUITS	[Symbol]
-	ROOF WALKWAY PAD	[Symbol]



B	ADDENDUM #2	JGC	JGC	01/29/2015
A	ISSUED FOR BID	JGC	JGC	01/08/2015
No.	SUBMISSION	Approved	Reviewed	Date

THE CITY OF NEW YORK  
**DEPARTMENT OF CORRECTION**  
DIVISION OF CAPITAL POLICY AND DEVELOPMENT  
ENGINEERING UNIT

TITLE/PROJECT/LOCATION:  
PHASE 1 ROOF REPLACEMENT AT  
ANNA M. KROSS CENTER (AMKC)

ROOF PLAN:  
CORRIDOR AT NORTH MODS  
RIKERS ISLAND, NEW YORK

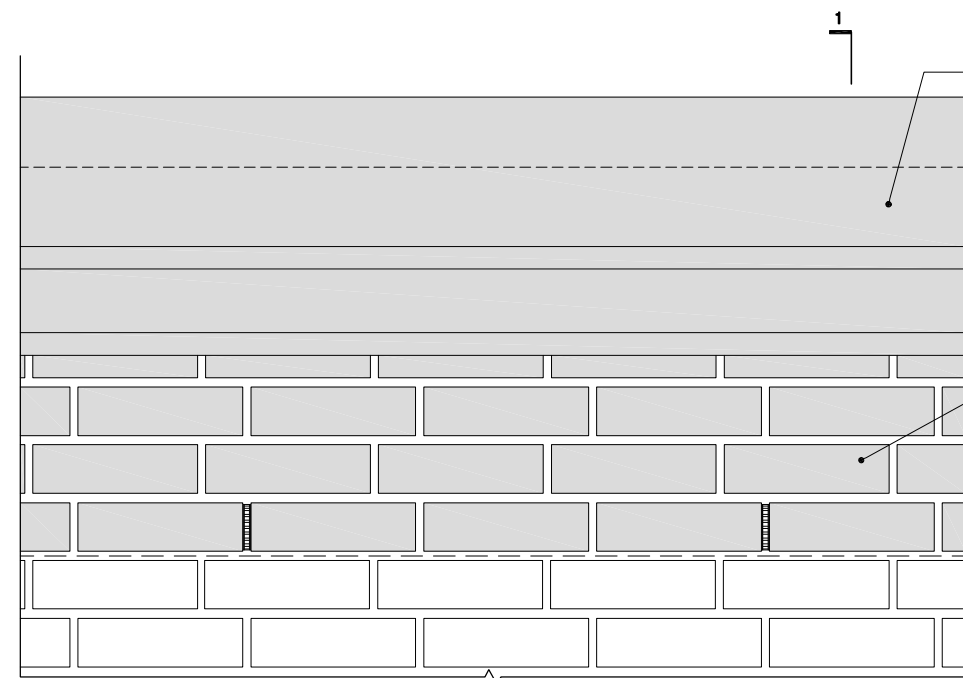
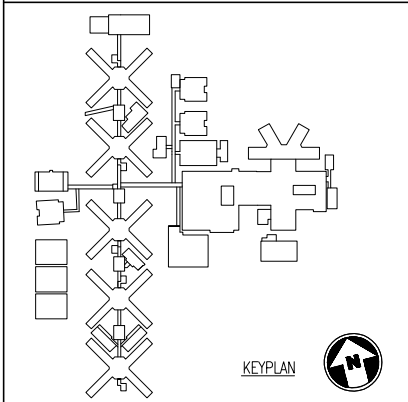
BUDGET ID: C75AMKCRF PIN: 072201404CPD

DIRECTOR: HARDEE SAINI PROJECT MANAGER: JOSEPH G. COFFEY

DESIGNED BY: B.BELAND DRAWN BY: BFF CHECKED BY: L.RIDDLE

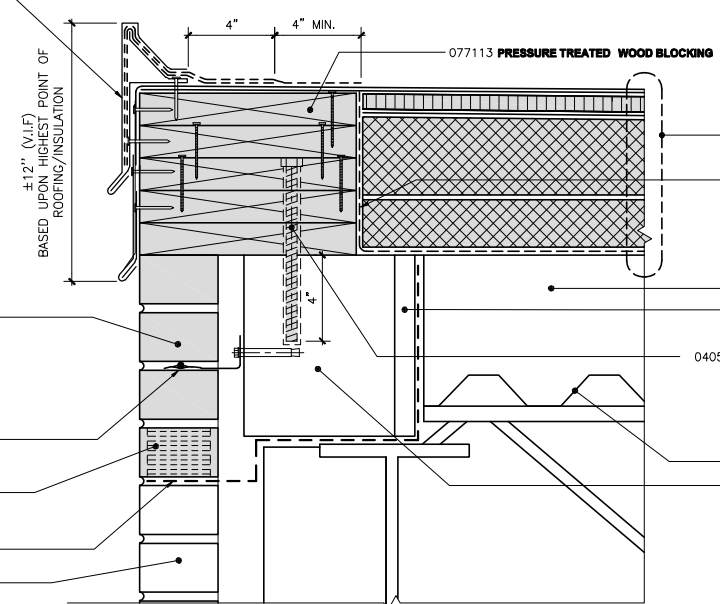
B-SCAN

DRAWING NO.:	A135.00
SCALE:	AS SHOWN
DATE:	01/08/15
SHEET NO.	34 OF 54



PARTIAL ELEVATION

- 077113 **MULTI-PART FASCIA SYSTEM**  
ALUMINUM, MILL FINISH
- 024119 REMOVE TOP 4 COURSES OF EXISTING BRICK MASONRY AND REPLACE WITH NEW BRICK MASONRY
- 040120 **BRICK TO MATCH EXISTING**
- 040513 **MORTAR: ASTM C270 TYPE N**  
COLOR, TEXTURE AND TOOLING OF MORTAR JOINT TO MATCH EXISTING. MAINTAIN EXISTING BOND PATTERN
- 040519 **VENEER ANCHOR (ADJUSTABLE WITH ROD)** SPACED 16" O.C.
- 040120 **WEEP SLOTS** AT 24" O.C.
- TAKE CARE NOT TO DAMAGE/DISTURB EXISTING CONT. FABRIC FLASHING TO REMAIN (V.I.F.)
- EXISTING BRICK TO REMAIN AND TO BE PROTECTED



1-1 (SECTION)

**MEM 01**

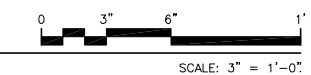
ROOF SYSTEM: SBS MODIFIED BITUMEN  
 INITIAL MEMBRANE FULLY ADHERED AND WATERTIGHT AT VERTICAL SUBSTRATE

EXISTING CONCRETE SLAB TO REMAIN  
 EXISTING EXPANSION JOINT FILLER TO REMAIN

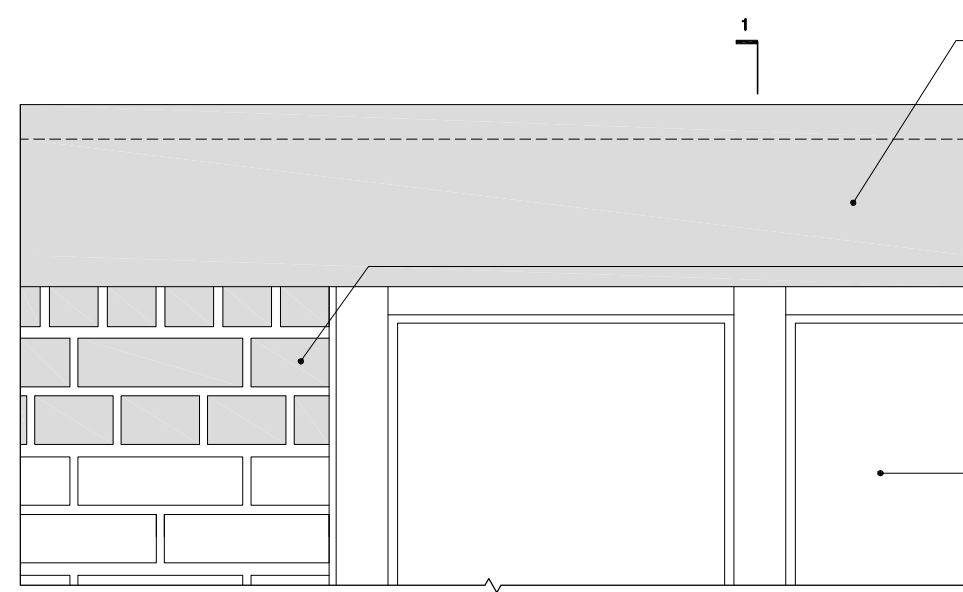
040519 **ADHESIVE ANCHOR: CAPSULE / THREADED ROD**  
(1/2" Ø) WITH NUT AND S.S. WASHER AT 24" O.C.

EXISTING METAL DECK TO REMAIN  
 EXISTING CONCRETE BLOCKS TO REMAIN

NOTE: VERIFY CONDITION OF BLOCKS; CONFIRM ALL CELLS FILLED SOLID PRIOR TO INSTALLING ADHESIVE ANCHORS

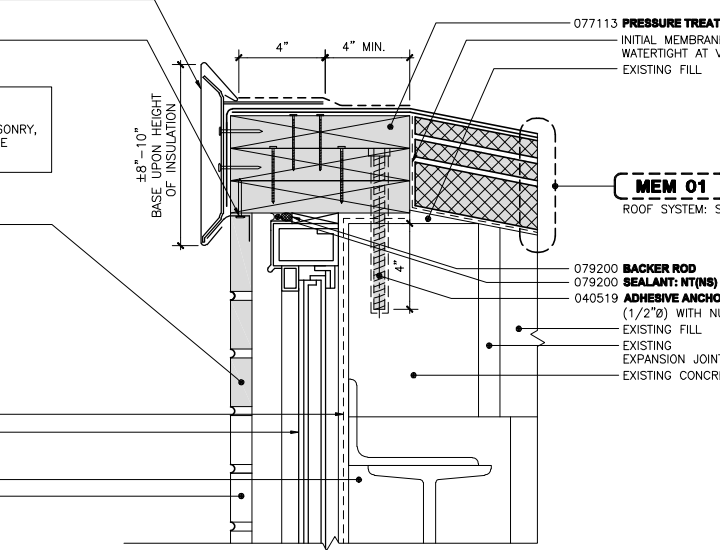


**FLA 02**  
 ROOF EDGE FLASHING- FASCIA



PARTIAL ELEVATION

- 077113 **MULTI-PART FASCIA SYSTEM**  
ALUMINUM, MILL FINISH  
PROVIDE UNDERSIDE TRIM AT EXPOSED BLOCKING BETWEEN BRICK REVEALS
- NOTE: IN CONJUNCTION WITH REMOVAL OF EXISTING FASCIA/BLOCKING AND TOP 3 COURSES OF MASONRY, VERIFY CONDITION OF EXISTING MASONRY AT THE AREA IMMEDIATELY BELOW THE REMOVALS.
- 024119 REMOVE TOP 3 COURSES OF EXISTING BRICK MASONRY AND REPLACE WITH NEW BRICK MASONRY
- 040120 **BRICK TO MATCH EXISTING**
- 040513 **MORTAR: ASTM C270 TYPE N**  
COLOR, TEXTURE AND TOOLING OF MORTAR JOINT TO MATCH EXISTING. MAINTAIN EXISTING BOND PATTERN
- TAKE CARE NOT TO DAMAGE/DISTURB EXISTING FABRIC CONT. FABRIC FLASHING TO REMAIN (V.I.F.)
- SEAL ALL PENETRATIONS AND SEAMS WITH
- 076200 **UTILITY MASTIC**
- EXISTING PANEL ASSEMBLY TO BE PROTECTED
- EXISTING CONCRETE SLAB TO REMAIN AND TO BE PROTECTED



1-1 (SECTION)

**MEM 01**

ROOF SYSTEM: SBS MODIFIED BITUMEN  
 INITIAL MEMBRANE FULLY ADHERED AND WATERTIGHT AT VERTICAL SUBSTRATE  
 EXISTING FILL

079200 **BACKER ROD**  
 079200 **SEALANT: NT(NS)**  
 040519 **ADHESIVE ANCHOR: CAPSULE / THREADED ROD**  
(1/2" Ø) WITH NUT AND S.S. WASHER AT 24" O.C.

EXISTING FILL  
 EXISTING EXPANSION JOINT FILLER  
 EXISTING CONCRETE BLOCK



**FLA 03**  
 ROOF EDGE FLASHING- FASCIA AT WINDOW ASSEMBLY

THE CITY OF NEW YORK  
 DEPARTMENT OF CORRECTION  
 DIVISION OF CAPITAL POLICY AND DEVELOPMENT  
 ENGINEERING UNIT

TITLE/PROJECT/LOCATION:  
 PHASE 1 ROOF REPLACEMENT AT ANNA M. KROSS CENTER (AMKC)

RESTORATION DETAILS:  
 FLASHING DETAILS

RIKERS ISLAND, NEW YORK

BUDGET ID: C75AMKCRF PIN: 072201404CPD

DIRECTOR: HARDEE SAINI PROJECT MANAGER: JOSEPH G. COFFEY

DESIGNED BY: B.BELAND DRAWN BY: BFF CHECKED BY: L.RIDDLE

B-SCAN

DRAWING NO.:  
**A302.00**  
 SCALE:  
 AS SHOWN  
 DATE:  
 01/08/15  
 SHEET NO.  
 36 OF 54

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**OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
§220 PREVAILING WAGE SCHEDULE**

**LABOR LAW §220 PREVAILING WAGE SCHEDULE**

Workers, Laborers and Mechanics employed on a public work project must receive not less than the prevailing rate of wage and benefits for the classification of work performed by each upon such public work. Pursuant to Labor Law §220 the Comptroller of the City of New York has promulgated this schedule solely for Workers, Laborers and Mechanics engaged by private contractors on New York City public work contracts.

This schedule is a compilation of separate determinations of the prevailing rate of wage and supplements made by the Comptroller for each trade classification listed herein pursuant to New York State Labor Law section 220 (5). The source of the wage and supplement rates, whether a collective bargaining agreement, survey data or other, is listed at the end of each classification.

Agency Chief Contracting Officers should contact the Bureau of Labor Law's Classification Unit with any questions concerning trade classifications, prevailing rates or prevailing practices with respect to procurement on New York City public works contracts. Contractors are advised to review the Comptroller's Prevailing Wage Schedule before bidding on public works contracts. Contractors with questions concerning trade classifications, prevailing rates or prevailing practices with respect to public works contracts in the procurement stage must contact the contracting agency responsible for the procurement.

Any error as to compensation under the prevailing wage law or other information as to trade classification, made by the contracting agency in the contract documents or in any other communication, will not preclude a finding against the contractor of prevailing wage violation.

Any questions concerning trade classifications, prevailing rates or prevailing practices on New York City public works contracts that have already been awarded may be directed to the Bureau of Labor Law's Classification Unit by calling (212) 669-7974. All callers must have the agency name and contract registration number available when calling with questions on public works contracts. Please direct all other compliance issues to: Bureau of Labor Law, Attn: Wasyl Kinach, P.E., Office of the Comptroller, 1 Centre Street, Room 1122, New York, N.Y. 10007; Fax (212) 669-4002.

The appropriate schedule of prevailing wages and benefits must be posted at all public work sites pursuant to Labor Law §220 (3-a) (a).

This schedule is applicable to work performed during the effective period, unless otherwise noted. Changes to this schedule are published on our web site [www.comptroller.nyc.gov](http://www.comptroller.nyc.gov). Contractors must pay the wages and supplements in effect when the worker, laborer, mechanic performs the work. Preliminary schedules for future one-year periods appear in the City Record on or about June 1 each succeeding year. Final schedules appear on or about July 1 in the City Record and on our web site [www.comptroller.nyc.gov](http://www.comptroller.nyc.gov).

The Comptroller's Office has attempted to include all overtime, shift and night differential, Holiday, Saturday, Sunday or other premium time work. However, this schedule does not set forth every prevailing practice with respect to such rates with which employers must comply. All such practices are nevertheless part of the employer's prevailing wage obligation and contained in the collective bargaining agreements of the prevailing wage unions. These collective bargaining agreements are available for inspection by appointment. Requests for appointments may be made by calling (212) 669-4443, Monday through Friday between the hours of 9 a.m. and 5 p.m.

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
§220 PREVAILING WAGE SCHEDULE

Prevailing rates and ratios for apprentices are attached to this schedule in the Appendix. Pursuant to Labor Law §220 (3-e), only apprentices who are individually registered in a bona fide program to which the employer contractor is a participant, registered with the New York State Department of Labor, may be employed on a public work project. Workers who are not journey persons or not registered apprentices pursuant to Labor Law §220 (3-e) may not be substituted for apprentices and must be paid as journey persons.

Public Work construction, reconstruction, demolition, excavation, rehabilitation, repair, renovation, alteration, or improvement contracts awarded pursuant to a Project Labor Agreement (“PLA”) in accordance with Labor Law section 222 may have different labor standards for shift, premium and overtime work. Please refer to the PLA’s pre-negotiated labor agreements for wage and benefit rates applicable to work performed outside of the regular workday. More information is available at the Mayor’s Office of Contract Services (MOCS) web page at <http://www.nyc.gov/html/mocs/html/vendors/pla.shtml>.

All the provisions of Labor Law section 220 remain applicable to PLA work including, but not limited to, the enforcement of prevailing wage requirements by the Comptroller; however, we will enforce shift, premium, overtime and other non-standard rates as they appear in a project’s pre-negotiated labor agreement.

In order to meet their obligation to provide prevailing supplemental benefits to each covered employee, employers must either:

- 1) Provide bona-fide benefits which cost the employer no less than the prevailing supplemental benefits rate; or
- 2) Supplement the employee’s hourly wage by an amount no less than the prevailing supplemental benefits rate; or
- 3) Provide a combination of bona-fide benefits and wage supplements which cost the employer no less than the prevailing supplemental benefits rate in total.

Particular attention should be given to the supplemental benefits requirement. Although in most instances the payment or provision for supplemental benefits is for each hour worked, some classifications require the payment or provision of supplemental benefits for each hour paid. Consequently, some prevailing practices require benefits to be purchased at the overtime, shift differential, Holiday, Saturday, Sunday or other premium time rate.

**Benefits are paid for EACH HOUR WORKED unless otherwise noted.**

Wasył Kinach, P.E.  
Director of Classifications  
Bureau of Labor Law



OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
§220 PREVAILING WAGE SCHEDULE

220 SCHEDULE OF PREVAILING WAGES AND SUPPLEMENTAL BENEFITS ADDENDUM  
EFFECTIVE PERIOD JANUARY 5, 2015 THROUGH JUNE 30, 2015

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List of Amended Classifications

1. ASBESTOS HANDLER
2. BLASTER
3. BOILERMAKER
4. BRICKLAYER
5. CORE DRILLER
6. ENGINEER
7. ENGINEER - CITY SURVEYOR AND CONSULTANT
8. ENGINEER - FIELD (BUILDING CONSTRUCTION)
9. ENGINEER - FIELD (HEAVY CONSTRUCTION)
10. ENGINEER - FIELD (STEEL ERECTION)
11. ENGINEER - OPERATING
12. HOUSE WRECKER
13. MASON TENDER
14. MASON TENDER (INTERIOR DEMOLITION WORKER)
15. MOSAIC MECHANIC
16. PAINTER - STRUCTURAL STEEL
17. PLASTERER
18. PLASTERER - TENDER
19. PLUMBER
20. PLUMBER (MECHANICAL EQUIPMENT AND SERVICE)
21. PLUMBER (RESIDENTIAL RATES FOR 1, 2 AND 3 FAMILY HOME CONSTRUCTION)
22. SHEET METAL WORKER
23. SHEET METAL WORKER - SPECIALTY
24. STEAMFITTER
25. STEAMFITTER - REFRIGERATION AND AIR CONDITIONER
26. TILE FINISHER
27. TILE LAYER - SETTER
28. TUNNEL WORKER

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OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
§220 PREVAILING WAGE SCHEDULE

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## **ASBESTOS HANDLER**

(Hazardous Material; Disturbs, removes, encapsulates, repairs, or encloses friable asbestos material)

### **Asbestos Handler**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$36.00**

Supplemental Benefit Rate per Hour: **\$15.45**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$36.00**

Supplemental Benefit Rate per Hour: **\$15.95**

### **Overtime**

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Sunday.

Time and one half the regular hourly rate after 40 hours in any work week.

### **Overtime Holidays**

Time and one half the regular rate for work on the following holiday(s).

New Year's Day

Good Friday

Memorial Day

Independence Day

Labor Day

Thanksgiving Day

Christmas Day

Easter

### **Paid Holidays**

None

(Local #78 and Local #12A)

## **BLASTER**

### **Blaster**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$45.70**

Supplemental Benefit Rate per Hour: **\$39.69**

Effective Period: 1/5/2015 - 6/30/2015

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
§220 PREVAILING WAGE SCHEDULE

Wage Rate per Hour: **\$45.65**  
Supplemental Benefit Rate per Hour: **\$39.69**

**Blaster (Hydraulic)**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$46.49**  
Supplemental Benefit Rate per Hour: **\$39.69**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$46.44**  
Supplemental Benefit Rate per Hour: **\$39.69**

**Blaster - Trac Drill Hydraulic**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$41.20**  
Supplemental Benefit Rate per Hour: **\$39.69**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$41.15**  
Supplemental Benefit Rate per Hour: **\$39.69**

**Blaster - Wagon: Air Trac: Quarry Bar: Drillrunners**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$40.44**  
Supplemental Benefit Rate per Hour: **\$39.69**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$40.39**  
Supplemental Benefit Rate per Hour: **\$39.69**

**Blaster - Operators of Jack Hammers**

Chippers: Spaders: Concrete Breakers: and all other pneumatic tools of like usage: Walk Behind Self Propelled Hydraulic Asphalt and Concrete Breakers: Hydro (Water) Demolition

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$39.43**  
Supplemental Benefit Rate per Hour: **\$39.69**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$39.38**  
Supplemental Benefit Rate per Hour: **\$39.69**

**Blaster - Powder Carriers**

Effective Period: 7/1/2014 - 1/4/2015

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
§220 PREVAILING WAGE SCHEDULE

Wage Rate per Hour: **\$35.66**  
Supplemental Benefit Rate per Hour: **\$39.69**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$35.61**  
Supplemental Benefit Rate per Hour: **\$39.69**

**Blaster - Hydraulic Trac Drill Chuck Tender**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$34.42**  
Supplemental Benefit Rate per Hour: **\$39.69**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$34.37**  
Supplemental Benefit Rate per Hour: **\$39.69**

**Blaster - Chuck Tender & Nipper**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$33.69**  
Supplemental Benefit Rate per Hour: **\$39.69**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$33.64**  
Supplemental Benefit Rate per Hour: **\$39.69**

**Blaster - Magazine Keepers: (Watch Person)**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$20.30**  
Supplemental Benefit Rate per Hour: **\$39.69**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$20.25**  
Supplemental Benefit Rate per Hour: **\$39.69**

**Overtime Description**

Magazine Keepers:

Time and one half for work performed in excess of forty (40) hours per week and for work performed on Saturdays, Sundays and Holidays.

All Other Employees:

Time and one-half for the first eight hours of work on Saturday and for Make-up Time. Double time for all hours over eight Monday through Friday (except make-up hours) and for all hours worked on Sunday and Holidays.

**Overtime**

Double time the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
§220 PREVAILING WAGE SCHEDULE

## Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day  
Memorial Day  
Independence Day  
Labor Day  
Columbus Day  
Presidential Election Day  
Thanksgiving Day  
Christmas Day

## Paid Holidays

None

## Shift Rates

A single shift shall be 8 hours plus an unpaid lunch, starting at 8:00 A.M (or between 6:00 A.M. and 10:00 A.M. on weekdays). When two (2) shifts are employed, each shift shall be 8 hours plus ½ hour unpaid lunch. When three (3) shifts are employed, each shift will work seven and one-half (7 ½) hours, but will be paid for eight (8) hours, since only one-half (½) hour is allowed for mealtime. When two (2) or more shifts are employed, single time will be paid for each shift. The first 8 hours of any and all work performed Monday through Friday inclusive of any off-shift shall be at the single time rate.

(Local #29)

## BOILERMAKER

### Boilermaker

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$50.45**

Supplemental Benefit Rate per Hour: **\$41.31**

Supplemental Note: For time and one half overtime - \$61.37; For double overtime - \$81.43.

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$51.56**

Supplemental Benefit Rate per Hour: **\$41.69**

Supplemental Note: For time and one half overtime - \$61.94 For double overtime - \$82.18

## Overtime Description

For Repair and Maintenance work:

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

For New Construction work:

Double time the regular rate after an 8 hour day.

Double time the regular time rate for Saturday.

Double time the regular rate for Sunday.

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
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## Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day  
President's Day  
Memorial Day  
Independence Day  
Columbus Day  
Election Day  
Veteran's Day  
Thanksgiving Day  
Christmas Day

Quadruple time the regular rate for work on the following holiday(s).

Labor Day

## Paid Holidays

Good Friday  
Day after Thanksgiving  
Day before Christmas  
Day before New Year's Day

## Shift Rates

When shifts are required, the first shift shall work eight (8) hours at the regular straight-time hourly rate. The second shift shall work seven and one-half (7 ½) hours and receive eight hours at the regular straight time hourly rate plus twenty-five cents (\$0.25) per hour. The third shift shall work seven (7) hours and receive eight hours at the regular straight time hourly rate plus fifty cents (\$0.50) per hour. A thirty (30) minute lunch period shall not be considered as time worked. Work in excess of the above shall be paid overtime at the appropriate new construction work or repair work overtime wage and supplemental benefit hourly rate.

(Local #5)

## BRICKLAYER

### Bricklayer

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$47.78**

Supplemental Benefit Rate per Hour: **\$28.03**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$48.91**

Supplemental Benefit Rate per Hour: **\$28.03**

## Overtime

Time and one half the regular rate after a 7 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.



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Saturday may be used as a make-up day at straight time when a day is lost during that week to inclement weather.

### **Overtime Holidays**

Double time the regular rate for work on the following holiday(s).

New Year's Day  
Memorial Day  
Independence Day  
Labor Day  
Thanksgiving Day  
Christmas Day

### **Paid Holidays**

None

### **Shift Rates**

Overtime rates to be paid outside the regular scheduled work day.

(Bricklayer District Council)

## **CARPENTER - BUILDING COMMERCIAL**

### **Building Commercial**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$49.88**

Supplemental Benefit Rate per Hour: **\$44.10**

### **Overtime**

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Saturday may be used as a make-up day at straight time when a day is lost during that week to inclement weather.

### **Overtime Holidays**

Double time the regular rate for work on the following holiday(s).

New Year's Day  
Washington's Birthday  
Memorial Day  
Independence Day  
Labor Day  
Columbus Day  
Presidential Election Day  
Thanksgiving Day  
Day after Thanksgiving  
Christmas Day

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**Paid Holidays**

None

**Shift Rates**

The second shift will receive one hour at the double time rate of pay for the last hour of the shift; eight hours pay for seven hours of work, nine hours pay for eight hours of work. There must be a first shift in order to work a second shift.

(Carpenters District Council)

**CARPENTER - HEAVY CONSTRUCTION WORK**  
**(Construction of Engineering Structures and Building Foundations)**

**Heavy Construction Work**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$48.35**

Supplemental Benefit Rate per Hour: **\$46.12**

**Overtime**

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Saturday may be used as a make-up day at straight time when a day is lost during that week to inclement weather.

**Overtime Holidays**

Double time the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Presidential Election Day

Thanksgiving Day

Christmas Day

**Paid Holidays**

None

**Shift Rates**

Off shift work commencing between 5:00 P.M. and 11:00 P.M. shall work eight and one half hours allowing for one half hour for lunch. The wage rate shall be 113% of the straight time hourly wage rate.

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
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(Carpenters District Council)

## **CEMENT & CONCRETE WORKER**

### **Cement & Concrete Worker**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$42.38**

Supplemental Benefit Rate per Hour: **\$26.17**

Supplemental Note: \$28.92 on Saturdays; \$31.67 on Sundays & Holidays

### **Overtime Description**

Time and one half the regular rate after 7 hour day (time and one half the regular rate after an 8 hour day when working with Dockbuilders on pile cap forms and for work below street level to the top of the foundation wall, not to exceed 2 feet or 3 feet above the sidewalk-brick shelf, when working on the foundation and structure.)

### **Overtime**

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

### **Overtime Holidays**

Double time the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Good Friday

Memorial Day

Independence Day

Labor Day

Columbus Day

Presidential Election Day

Thanksgiving Day

Christmas Day

### **Paid Holidays**

1/2 day before Christmas Day

1/2 day before New Year's Day

### **Shift Rates**

On shift work extending over a twenty-four hour period, all shifts are paid at straight time.

(Cement Concrete Workers District Council)

## **CEMENT MASON**

### **Cement Mason**

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
§220 PREVAILING WAGE SCHEDULE

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$38.88**

Supplemental Benefit Rate per Hour: **\$39.80**

Supplemental Note: For time and one half overtime - \$49.05; For double overtime - \$58.30

### **Overtime Description**

Time and one-half the regular rate after an 8 hour day, double time the regular rate after 10 hours. Time and one-half the regular rate on Saturday, double time the regular rate after 10 hours. Double time the regular rate on Sunday.

### **Overtime Holidays**

Double time the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Good Friday

Memorial Day

Independence Day

Labor Day

Columbus Day

Presidential Election Day

Thanksgiving Day

Christmas Day

### **Paid Holidays**

Any worker who reports to work on Christmas Eve or New Year's Eve pursuant to his employer's instruction shall be entitled to three (3) hours afternoon pay without working.

### **Shift Rates**

For an off shift day, (work at times other than the regular 7:00 A.M. to 3:30 P.M. work day) a cement mason shall be paid at the regular hourly rate plus a 25% per hour differential. Four Days a week at Ten (10)hour day.

(Local #780)

## **CORE DRILLER**

### **Core Driller**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$35.71**

Supplemental Benefit Rate per Hour: **\$21.69**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$36.82**

Supplemental Benefit Rate per Hour: **\$22.69**

### **Core Driller Helper**

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
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Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$28.60**

Supplemental Benefit Rate per Hour: **\$21.69**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$29.44**

Supplemental Benefit Rate per Hour: **\$22.69**

**Core Driller Helper(Third year in the industry)**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$25.74**

Supplemental Benefit Rate per Hour: **\$21.69**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$26.50**

Supplemental Benefit Rate per Hour: **\$22.69**

**Core Driller Helper (Second year in the industry)**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$22.88**

Supplemental Benefit Rate per Hour: **\$21.69**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$23.55**

Supplemental Benefit Rate per Hour: **\$22.69**

**Core Driller Helper (First year in the industry)**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$20.02**

Supplemental Benefit Rate per Hour: **\$21.69**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$20.61**

Supplemental Benefit Rate per Hour: **\$22.69**

**Overtime Description**

Time and one half the regular rate for work on a holiday plus Holiday pay when worked.

**Overtime**

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Time and one half the regular rate for work on the following holiday(s).

**Paid Holidays**

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New Year's Day  
Memorial Day  
Independence Day  
Labor Day  
Thanksgiving Day  
Christmas Day

## Shift Rates

The shift day shall be the continuous eight and one-half (8½) hours from 6:00 A.M. to 2:30 P.M. and from 2:30 P.M. to 11:00 P.M., including one-half (½) hour of employees regular rate of pay for lunch. When two (2) or more shifts are employed, single time shall be paid for each shift, but those employees employed on a shift other than from 8:00 A.M. to 5:00 P.M. shall, in addition, receive seventy-five cents (\$0.75) per hour differential for each hour worked. When three (3) shifts are needed, each shift shall work seven and one-half (7 ½) hours paid for eight (8) hours of labor and be permitted one-half (½) hour for mealtime.

(Carpenters District Council)

## DERRICKPERSON AND RIGGER

### Derrick Person & Rigger

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$42.25**

Supplemental Benefit Rate per Hour: **\$47.81**

Supplemental Note: The above supplemental rate applies for work performed in Manhattan, Bronx, Brooklyn and Queens. \$49.23 - For work performed in Staten Island.

### Overtime Description

The first two hours of overtime on weekdays and the first seven hours of work on Saturdays are paid at time and one half for wages and supplemental benefits. All additional overtimes is paid at double time for wages and supplemental benefits. Deduct \$1.42 from the Staten Island hourly benefits rate before computing overtime.

### Overtime

Double time the regular rate for Sunday.

### Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day  
Washington's Birthday  
Good Friday  
Memorial Day  
Independence Day  
Labor Day  
Thanksgiving Day  
Christmas Day

### Paid Holidays

1/2 day on Christmas Eve if work is performed in the A.M.

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(Local #197)

## DIVER

### Diver (Marine)

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$61.30**

Supplemental Benefit Rate per Hour: **\$46.12**

### Diver Tender (Marine)

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$43.45**

Supplemental Benefit Rate per Hour: **\$46.12**

## Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Saturday may be used as a make-up day at straight time when a day is lost during that week to inclement weather.

## Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Presidential Election Day

Thanksgiving Day

Christmas Day

## Paid Holidays

None

## Shift Rates

When three shifts are utilized each shift shall work seven and one half-hours (7 1/2 hours) and paid for 8 hours, allowing for one half hour for lunch.

(Carpenters District Council)

## **DOCKBUILDER - PILE DRIVER**

### **Dockbuilder - Pile Driver**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$48.35**

Supplemental Benefit Rate per Hour: **\$46.12**

### **Overtime**

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Saturday may be used as a make-up day at straight time when a day is lost during that week to inclement weather.

### **Overtime Holidays**

Double time the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Presidential Election Day

Thanksgiving Day

Christmas Day

### **Paid Holidays**

None

### **Shift Rates**

Off shift work commencing between 5:00 P.M. and 11:00 P.M. shall work eight and one half hours allowing for one half hour for lunch. The wage rate shall be 113% of the straight time hourly wage rate.

(Carpenters District Council)

## **DRIVER: TRUCK (TEAMSTER)**

### **Driver - Dump Truck**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$38.86**

Supplemental Benefit Rate per Hour: **\$40.44**

Supplemental Note: Over 40 hours worked: time and one half rate \$16.94, double time rate \$22.59

### **Driver - Tractor Trailer**



OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
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Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$38.88**

Supplemental Benefit Rate per Hour: **\$41.70**

Supplemental Note: For over 40 hours worked: at time and one half - \$15.90; at double time - \$21.21

**Driver - Euclid & Turnapull Operator**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$39.44**

Supplemental Benefit Rate per Hour: **\$41.70**

Supplemental Note: Over 40 hours worked: time and one half rate \$15.90, double time rate \$21.21

**Overtime Description**

For Paid Holidays: Holiday pay for all holidays shall be prorated based two hours per day for each day worked in the holiday week, not to exceed 8 hours of holiday pay. For Thanksgiving week, the prorated share shall be 5 1/3 hours of holiday pay for each day worked in Thanksgiving week.

**Overtime**

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

**Overtime Holidays**

Double time the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

**Paid Holidays**

New Year's Day

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

**Driver Redi-Mix (Sand & Gravel)**

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
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Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$36.05**

Supplemental Benefit Rate per Hour: **\$38.60**

Supplemental Note: Over 40 hours worked: time and one half rate \$13.53, double time rate \$18.04

## Overtime Description

For Paid Holidays: Employees working two (2) days in the calendar week in which the holiday falls are to paid for these holidays, provided they shape each remaining workday during that calendar week.

## Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

## Overtime Holidays

Double time the regular rate for work on the following holiday(s).

President's Day

Columbus Day

Veteran's Day

Triple time the regular rate for work on the following holiday(s).

New Year's Day

Memorial Day

Independence Day

Labor Day

Thanksgiving Day

Christmas Day

## Paid Holidays

New Year's Day

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Election Day

Thanksgiving Day

Christmas Day

(Local #282)

## ELECTRICIAN

(Including all low voltage cabling carrying data; video; and voice in combination with data and or video.)

### Electrician "A" (Regular Day)

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
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Effective Period: 7/1/2014 - 5/13/2015  
Wage Rate per Hour: **\$53.00**  
Supplemental Benefit Rate per Hour: **\$47.54**

Effective Period: 5/14/2015 - 6/30/2015  
Wage Rate per Hour: **\$54.00**  
Supplemental Benefit Rate per Hour: **\$50.03**

**Electrician "A" (Regular Day Overtime)**

Effective Period: 7/1/2014 - 5/13/2015  
Wage Rate per Hour: **\$79.50**  
Supplemental Benefit Rate per Hour: **\$50.86**

Effective Period: 5/14/2015 - 6/30/2015  
Wage Rate per Hour: **\$81.00**  
Supplemental Benefit Rate per Hour: **\$53.41**

**Electrician "A" (Day Shift)**

Effective Period: 7/1/2014 - 5/13/2015  
Wage Rate per Hour: **\$53.00**  
Supplemental Benefit Rate per Hour: **\$47.54**

Effective Period: 5/14/2015 - 6/30/2015  
Wage Rate per Hour: **\$54.00**  
Supplemental Benefit Rate per Hour: **\$50.03**

**Electrician "A" (Day Shift Overtime After 8 hours)**

Effective Period: 7/1/2014 - 5/13/2015  
Wage Rate per Hour: **\$79.50**  
Supplemental Benefit Rate per Hour: **\$50.86**

Effective Period: 5/14/2015 - 6/30/2015  
Wage Rate per Hour: **\$81.00**  
Supplemental Benefit Rate per Hour: **\$53.41**

**Electrician "A" (Swing Shift)**

Effective Period: 7/1/2014 - 5/13/2015  
Wage Rate per Hour: **\$62.19**  
Supplemental Benefit Rate per Hour: **\$54.07**

Effective Period: 5/14/2015 - 6/30/2015  
Wage Rate per Hour: **\$63.36**  
Supplemental Benefit Rate per Hour: **\$56.94**

**Electrician "A" (Swing Shift Overtime After 7.5 hours)**

Effective Period: 7/1/2014 - 5/13/2015

Wage Rate per Hour: **\$93.29**

Supplemental Benefit Rate per Hour: **\$57.97**

Effective Period: 5/14/2015 - 6/30/2015

Wage Rate per Hour: **\$95.04**

Supplemental Benefit Rate per Hour: **\$60.91**

**Electrician "A" (Graveyard Shift)**

Effective Period: 7/1/2014 - 5/13/2015

Wage Rate per Hour: **\$69.66**

Supplemental Benefit Rate per Hour: **\$59.59**

Effective Period: 5/14/2015 - 6/30/2015

Wage Rate per Hour: **\$70.97**

Supplemental Benefit Rate per Hour: **\$62.78**

**Electrician "A" (Graveyard Shift Overtime After 7 hours)**

Effective Period: 7/1/2014 - 5/13/2015

Wage Rate per Hour: **\$104.49**

Supplemental Benefit Rate per Hour: **\$63.96**

Effective Period: 5/14/2015 - 6/30/2015

Wage Rate per Hour: **\$106.46**

Supplemental Benefit Rate per Hour: **\$67.23**

**Overtime**

Time and one half the regular rate after a 7 hour day.

Time and one half the regular rate for Saturday.

Time and one half the regular rate for Sunday.

**Overtime Holidays**

Time and one half the regular rate for work on a holiday.

New Year's Day

Martin Luther King Jr. Day

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

**Paid Holidays**

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
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None

## Shift Rates

When so elected by the Employer, one or more shifts of at least five days duration may be scheduled as follows:  
Day Shift: 8:00 am to 4:30 pm, Swing Shift 4:30 pm to 12:30 am, Graveyard Shift: 12:30 am to 8:00 am.

For multiple shifts of temporary light and/or power, the temporary light and/or power employee shall be paid for 8 hours at the straight time rate. For three or less workers performing 8 hours temporary light and/or power the supplemental benefit rate is \$23.63. Effective 5/13/2015 - \$24.39.

## Electrician "M" (First 8 hours)

"M" rated work shall be defined as jobbing: electrical work of limited duration and scope, also consisting of repairs and/or replacement of electrical and tele-data equipment. Includes all work necessary to retrofit, service, maintain and repair all kinds of lighting fixtures and local lighting controls and washing and cleaning of foregoing fixtures.

Effective Period: 7/1/2014 - 5/13/2015

Wage Rate per Hour: **\$27.00**

Supplemental Benefit Rate per Hour: **\$20.32**

First and Second Year "M" Wage Rate Per Hour - Hired on or before 5/10/07: \$26.30

First and Second Year "M" Supplemental Rate- Hired on or before 5/10/07: \$19.96

First and Second Year "M" Wage Rate Per Hour - Hired after 5/10/07: \$22.50

First and Second Year "M" Supplemental Rate- Hired after 5/10/07: \$18.06

Effective Period: 5/14/2015 - 6/30/2015

Wage Rate per Hour: **\$27.50**

Supplemental Benefit Rate per Hour: **\$20.82**

First and Second Year "M" Wage Rate Per Hour - Hired on or before 5/10/07: \$26.80

First and Second Year "M" Supplemental Rate- Hired on or before 5/10/07: \$20.46

First and Second Year "M" Wage Rate Per Hour - Hired after 5/10/07: \$23.00

First and Second Year "M" Supplemental Rate- Hired after 5/10/07: \$18.56

## Electrician "M" (Overtime After First 8 hours)

"M" rated work shall be defined as jobbing: electrical work of limited duration and scope, also consisting of repairs and/or replacement of electrical and tele-data equipment. Includes all work necessary to retrofit, service, maintain and repair all kinds of lighting fixtures and local lighting controls and washing and cleaning of foregoing fixtures.

Effective Period: 7/1/2014 - 5/13/2015

Wage Rate per Hour: **\$40.50**

Supplemental Benefit Rate per Hour: **\$22.01**

First and Second Year "M" Wage Rate Per Hour - Hired on or before 5/10/07: \$39.45

First and Second Year "M" Supplemental Rate- Hired on or before 5/10/07: \$21.61

First and Second Year "M" Wage Rate Per Hour - Hired after 5/10/07: \$33.75

First and Second Year "M" Supplemental Rate- Hired after 5/10/07: \$19.47

Effective Period: 5/14/2015 - 6/30/2015

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
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Wage Rate per Hour: **\$41.25**

Supplemental Benefit Rate per Hour: **\$22.54**

First and Second Year "M" Wage Rate Per Hour - Hired on or before 5/10/07: **\$40.20**

First and Second Year "M" Supplemental Rate- Hired on or before 5/10/07: **\$22.14**

First and Second Year "M" Wage Rate Per Hour - Hired after 5/10/07: **\$34.50**

First and Second Year "M" Supplemental Rate- Hired after 5/10/07: **\$20.00**

## Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Time and one half the regular rate for Sunday.

## Overtime Holidays

Time and one half the regular rate for work on the following holiday(s).

New Year's Day

Martin Luther King Jr. Day

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

## Paid Holidays

None

(Local #3)

## ELECTRICIAN - ALARM TECHNICIAN

(Scope of Work - Inspect, test, repair, and replace defective, malfunctioning, or broken devices, components and controls of Fire, Burglar and Security Systems)

### Alarm Technician

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$30.40**

Supplemental Benefit Rate per Hour: **\$13.90**

Supplemental Note: \$12.40 only after 8 hours worked in a day

### Overtime Description

Time and one half the regular rate for work on the following holidays: Columbus Day, Veterans Day, Day after Thanksgiving.

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Double time the regular rate for work on the following holidays: New Year's day, Martin Luther King Jr. Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Christmas Day.

**Overtime**

Time and one half the regular rate after an 8 hour day.  
Time and one half the regular rate for Saturday.  
Double time the regular rate for Sunday.

**Paid Holidays**

New Year's Day  
Martin Luther King Jr. Day  
President's Day  
Memorial Day  
Independence Day  
Labor Day  
Columbus Day  
Veteran's Day  
Thanksgiving Day  
Day after Thanksgiving  
Christmas Day

**Shift Rates**

Night Differential is based upon a ten percent (10%) differential between the hours of 4:00 P.M. and 12:30 A.M. and a fifteen percent (15%) differential for the hours 12:00 A.M. to 8:00 A.M.

**Vacation**

At least 1 year of employment.....ten (10) days  
5 years or more of employment.....fifteen (15) days  
10 years of employment.....twenty (20) days  
Plus one Personal Day per year

Sick Days:  
One day per Year

(Local #3)

**ELECTRICIAN-STREET LIGHTING WORKER**

**Electrician - Electro Pole Electrician**

Effective Period: 7/1/2014 - 5/20/2015  
Wage Rate per Hour: **\$53.00**  
Supplemental Benefit Rate per Hour: **\$49.34**

Effective Period: 5/21/2015 - 6/30/2015  
Wage Rate per Hour: **\$54.00**  
Supplemental Benefit Rate per Hour: **\$51.86**

**Electrician - Electro Pole Foundation Installer**

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
§220 PREVAILING WAGE SCHEDULE

Effective Period: 7/1/2014 - 5/20/2015

Wage Rate per Hour: **\$40.18**

Supplemental Benefit Rate per Hour: **\$37.73**

Effective Period: 5/21/2015 - 6/30/2015

Wage Rate per Hour: **\$40.93**

Supplemental Benefit Rate per Hour: **\$39.46**

**Electrician - Electro Pole Maintainer**

Effective Period: 7/1/2014 - 5/20/2015

Wage Rate per Hour: **\$34.40**

Supplemental Benefit Rate per Hour: **\$34.00**

Effective Period: 5/21/2015 - 6/30/2015

Wage Rate per Hour: **\$35.05**

Supplemental Benefit Rate per Hour: **\$35.51**

**Overtime Description**

Electrician - Electro Pole Electrician: Time and one half the regular rate after a 7 hour day and after 5 consecutive days worked per week.

Electrician - Electro Pole Foundation Installer: Time and one half the regular rate after 8 hours within a 24 hour period and Saturday and Sunday.

Electrician - Electro Pole Maintainer: Time and one half the regular rate after a 7 hour day and after 5 consecutive days worked per week. Saturdays and Sundays may be used as a make-up day at straight time when a day is lost during the week to inclement weather.

**Overtime Holidays**

Time and one half the regular rate for work on the following holiday(s).

New Year's Day

Martin Luther King Jr. Day

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

**Paid Holidays**

None

(Local #3)



## **ELEVATOR CONSTRUCTOR**

### **Elevator Constructor**

Effective Period: 7/1/2014 - 3/16/2015

Wage Rate per Hour: **\$58.23**

Supplemental Benefit Rate per Hour: **\$29.47**

Effective Period: 3/17/2015 - 6/30/2015

Wage Rate per Hour: **\$59.55**

Supplemental Benefit Rate per Hour: **\$31.07**

### **Overtime Description**

For New Construction: work performed after 7 or 8 hour day, Saturday, Sunday or between 4:30pm and 7:00am shall be paid at double time rate.

Existing buildings: work performed after an 8 hour day, Saturday, Sunday or between 5:30pm and 7:00 am shall be paid time and one half.

### **Overtime**

Double time the regular rate for work on the following holiday(s).

### **Paid Holidays**

New Year's Day

President's Day

Good Friday

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

### **Vacation**

Employer contributes 8% of regular basic hourly rate as vacation pay for employees with more than 15 years of service, and 6% for employees with 5 to 15 years of service, and 4% for employees with less than 5 years of service.

(Local #1)

## **ELEVATOR REPAIR & MAINTENANCE**

### **Elevator Service/Modernization Mechanic**

Effective Period: 7/1/2014 - 3/16/2015

Wage Rate per Hour: **\$46.00**

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
§220 PREVAILING WAGE SCHEDULE

Supplemental Benefit Rate per Hour: **\$28.78**

Effective Period: 3/17/2015 - 6/30/2015

Wage Rate per Hour: **\$46.92**

Supplemental Benefit Rate per Hour: **\$30.91**

## Overtime Description

For Service Work: Double time - all work performed on Sundays, Holidays, and between midnight and 7:00am.

## Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Time and one half the regular rate for Sunday.

Time and one half the regular rate for work on a holiday plus the day's pay.

## Paid Holidays

New Year's Day

President's Day

Good Friday

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

## Shift Rates

For Modernization Work (4pm to 12:30am) - regularly hourly rate plus a (15%) fifteen percent differential.

## Vacation

Employer contributes 8% of regular basic hourly rate as vacation pay for employees with more than 15 years of service, and 6% for employees with 5 to 15 years of service, and 4% for employees with less than 5 years of service.

(Local #1)

# ENGINEER

## Engineer - Heavy Construction Operating Engineer I

Cherry pickers 20 tons and over and Loaders (rubber tired and/or tractor type with a manufacturer's minimum rated capacity of six cubic yards and over).

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$61.05**

Supplemental Benefit Rate per Hour: **\$31.93**

Supplemental Note: \$57.46 on overtime

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
§220 PREVAILING WAGE SCHEDULE

Shift Wage Rate: **\$97.68**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$62.93**

Supplemental Benefit Rate per Hour: **\$32.89**

Supplemental Note: \$59.13 on overtime

Shift Wage Rate: **\$100.69**

**Engineer - Heavy Construction Operating Engineer II**

Backhoes, Basin Machines, Groover, Mechanical Sweepers, Bobcat, Boom Truck, Barrier Transport (Barrier Mover) & machines of similar nature. Operation of Churn Drills and machines of a similar nature, Stetco Silent Hoist and machines of similar nature, Vac-Alls, Meyers Machines, John Beam and machines of a similar nature, Ross Carriers and Travel Lifts and machines of a similar nature, Bulldozers, Scrapers and Turn-a-Pulls: Tugger Hoists (Used exclusively for handling excavated material); Tractors with attachments, Hyster and Roustabout Cranes, Cherrypickers. Austin Western, Grove and machines of a similar nature, Scoopmobiles, Monorails, Conveyors, Trenchers: Loaders-Rubber Tired and Tractor: Barber Greene and Eimco Loaders and Eimco Backhoes; Mighty Midget and similar breakers and Tampers, Curb and Gutter Pavers and Motor Patrol, Motor Graders and all machines of a similar nature. Locomotives 10 Tons or under. Mini-Max, Break-Tech and machines of a similar nature; Milling machines, robotic and demolition machines and machines of a similar nature, shot blaster, skid steer machines and machines of a similar nature including bobcat, pile rig rubber-tired excavator (37,000 lbs. and under), 2 man auger.

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$59.24**

Supplemental Benefit Rate per Hour: **\$31.93**

Supplemental Note: \$57.46 on overtime

Shift Wage Rate: **\$94.78**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$61.07**

Supplemental Benefit Rate per Hour: **\$32.89**

Supplemental Note: \$59.13 on overtime

Shift Wage Rate: **\$97.71**

**Engineer - Heavy Construction Operating Engineer III**

Minor Equipment such as Tractors, Post Hole Diggers, Ditch Witch (Walk Behind), Road Finishing Machines, Rollers five tons and under, Tugger Hoists, Dual Purpose Trucks, Fork Lifts, and Dempsey Dumpers, Fireperson.

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$56.22**

Supplemental Benefit Rate per Hour: **\$31.93**

Supplemental Note: \$57.46 on overtime

Shift Wage Rate: **\$89.95**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$57.96**

Supplemental Benefit Rate per Hour: **\$32.89**

Supplemental Note: \$59.13 on overtime

Shift Wage Rate: **\$92.74**

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
§220 PREVAILING WAGE SCHEDULE

**Engineer - Heavy Construction Maintenance Engineer I**

Installing, Repairing, Maintaining, Dismantling and Manning of all equipment including Steel Cutting, Bending and Heat Sealing Machines, Mechanical Heaters, Grout Pumps, Bentonite Pumps & Plants, Screening Machines, Fusion Coupling Machines, Tunnel Boring Machines Moles and Machines of a similar nature, Power Packs, Mechanical Hydraulic Jacks; all drill rigs including but not limited to Churn, Rotary Caisson, Raised Bore & Drills of a similar nature; Personnel, Inspection & Safety Boats or any boats used to perform functions of same, Mine Hoists, Whirlies, all Climbing Cranes, all Tower Cranes, including but not limited to Truck Mounted and Crawler Type and machines of similar nature; Maintaining Hydraulic Drills and machines of a similar nature; Well Point System-Installation and dismantling; Burning, Welding, all Pumps regardless of size and/or motor power, except River Cofferdam Pumps and Wells Point Pumps; Motorized Buggies (three or more); equipment used in the cleaning and televising of sewers, but not limited to jet-rodder/vacuum truck, vacall/vactor, closed circuit television inspection equipment; high powered water pumps, jet pumps; screed machines and concrete finishing machines of a similar nature; vermeers.

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$58.97**

Supplemental Benefit Rate per Hour: **\$31.93**

Supplemental Note: \$57.46 on overtime

Shift Wage Rate: **\$94.35**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$60.79**

Supplemental Benefit Rate per Hour: **\$32.89**

Supplemental Note: \$59.13 on overtime

Shift Wage Rate: **\$97.26**

**Engineer - Heavy Construction Maintenance Engineer II**

On Base Mounted Tower Cranes

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$77.30**

Supplemental Benefit Rate per Hour: **\$31.93**

Supplemental Note: \$57.46 on overtime

Shift Wage Rate: **\$123.68**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$79.67**

Supplemental Benefit Rate per Hour: **\$32.89**

Supplemental Note: \$59.13 on overtime

Shift Wage Rate: **\$127.47**

**Engineer - Heavy Construction Maintenance Engineer III**

On Generators, Light Towers

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$39.10**

Supplemental Benefit Rate per Hour: **\$31.93**

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
§220 PREVAILING WAGE SCHEDULE

Supplemental Note: \$57.46 on overtime  
Shift Wage Rate: \$62.56

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: \$40.32  
Supplemental Benefit Rate per Hour: \$32.89  
Supplemental Note: \$59.13 on overtime  
Shift Wage Rate: \$64.51

**Engineer - Heavy Construction Maintenance Engineer IV**

On Pumps and Mixers including mud sucking

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: \$40.11  
Supplemental Benefit Rate per Hour: \$31.93  
Supplemental Note: \$57.46 on overtime  
Shift Wage Rate: \$64.18

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: \$41.36  
Supplemental Benefit Rate per Hour: \$32.89  
Supplemental Note: \$59.13 on overtime  
Shift Wage Rate: \$66.17

**Engineer - Heavy Construction Oilers I**

Gradalls, Cold Planer Grader, Concrete Pumps, Driving Truck Cranes, Driving and Operating Fuel and Grease Trucks.

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: \$53.22  
Supplemental Benefit Rate per Hour: \$31.93  
Supplemental Note: \$57.46 on overtime  
Shift Wage Rate: \$85.15

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: \$54.87  
Supplemental Benefit Rate per Hour: \$32.89  
Supplemental Note: \$59.13 on overtime  
Shift Wage Rate: \$87.79

**Engineer - Heavy Construction Oilers II**

All gasoline, electric, diesel or air operated Shovels, Draglines, Backhoes, Keystones, Pavers, Guniting Machines, Battery of Compressors, Crawler Cranes, two-person Trenching Machines.

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: \$36.97  
Supplemental Benefit Rate per Hour: \$31.93

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Supplemental Note: \$57.46 on overtime  
Shift Wage Rate: \$59.15

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: \$38.13  
Supplemental Benefit Rate per Hour: \$32.89  
Supplemental Note: \$59.13 on overtime  
Shift Wage Rate: \$61.01

**Engineer - Steel Erection Maintenance Engineers**

Derrick, Travelers, Tower, Crawler Tower and Climbing Cranes

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: \$57.05  
Supplemental Benefit Rate per Hour: \$31.93  
Supplemental Note: \$57.46 on overtime  
Shift Wage Rate: \$91.28

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: \$58.66  
Supplemental Benefit Rate per Hour: \$32.89  
Supplemental Note: \$59.13 on overtime  
Shift Wage Rate: \$93.86

**Engineer - Steel Erection Oiler I**

On a Truck Crane

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: \$53.43  
Supplemental Benefit Rate per Hour: \$31.93  
Supplemental Note: \$57.46 on overtime  
Shift Wage Rate: \$85.49

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: \$54.94  
Supplemental Benefit Rate per Hour: \$32.89  
Supplemental Note: \$59.13 on overtime  
Shift Wage Rate: \$87.90

**Engineer - Steel Erection Oiler II**

On a Crawler Crane

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: \$40.84  
Supplemental Benefit Rate per Hour: \$31.93  
Supplemental Note: \$57.46 on overtime  
Shift Wage Rate: \$65.34

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§220 PREVAILING WAGE SCHEDULE

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$41.99**

Supplemental Benefit Rate per Hour: **\$32.89**

Supplemental Note: \$59.13 on overtime

Shift Wage Rate: **\$67.18**

### **Overtime Description**

On jobs of more than one shift, if the next shift employee fails to report for work through any cause over which the employer has no control, the employee on duty who works the next shift continues to work at the single time rate.

### **Overtime**

Double time the regular rate after an 8 hour day.

Double time the regular time rate for Saturday.

Double time the regular rate for Sunday.

Double time the regular rate for work on the following holiday(s).

### **Paid Holidays**

New Year's Day

Lincoln's Birthday

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

Employees must work at least one day in the payroll week in which the holiday occurs to receive the paid holiday

## **Engineer - Building Work Maintenance Engineers I**

Installing, repairing, maintaining, dismantling (of all equipment including: Steel Cutting and Bending Machines, Mechanical Heaters, Mine Hoists, Climbing Cranes, Tower Cranes, Linden Peine, Lorain, Liebherr, Mannes, or machines of a similar nature, Well Point Systems, Deep Well Pumps, Concrete Mixers with loading Device, Concrete Plants, Motor Generators when used for temporary power and lights), skid steer machines of a similar nature including bobcat.

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$54.04**

Supplemental Benefit Rate per Hour: **\$31.93**

Supplemental Note: \$57.46 on overtime

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$55.71**

Supplemental Benefit Rate per Hour: **\$32.89**

Supplemental Note: \$59.13 on overtime

## **Engineer - Building Work Maintenance Engineers II**

On Pumps, Generators, Mixers and Heaters

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$42.10**

Supplemental Benefit Rate per Hour: **\$31.93**

Supplemental Note: \$57.46 on overtime

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$43.41**

Supplemental Benefit Rate per Hour: **\$32.89**

Supplemental Note: \$59.13 on overtime

## **Engineer - Building Work Oilers I**

All gasoline, electric, diesel or air operated Gradealls: Concrete Pumps, Overhead Cranes in Power Houses: Their duties shall be to assist the Engineer in oiling, greasing and repairing of all machines; Driving Truck Cranes: Driving and Operating Fuel and Grease Trucks, Cherrypickers (hydraulic cranes) over 70,000 GVW, and machines of a similar nature.

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$51.40**

Supplemental Benefit Rate per Hour: **\$31.93**

Supplemental Note: \$57.46 on overtime

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$52.99**

Supplemental Benefit Rate per Hour: **\$32.89**

Supplemental Note: \$59.13 on overtime

## **Engineer - Building Work Oilers II**

Oilers on Crawler Cranes, Backhoes, Trenching Machines, Guniting Machines, Compressors (three or more in Battery).

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$38.31**

Supplemental Benefit Rate per Hour: **\$31.93**

Supplemental Note: \$57.46 on overtime

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$39.51**

Supplemental Benefit Rate per Hour: **\$32.89**

Supplemental Note: \$59.13 on overtime

## **Overtime Description**

On jobs of more than one shift, if an Employee fails to report for work through any cause over which the Employer has no control, the Employee on duty will continue to work at the rate of single time.



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§220 PREVAILING WAGE SCHEDULE

## Overtime

Double time the regular rate after an 8 hour day.  
Double time the regular time rate for Saturday.  
Double time the regular rate for Sunday.  
Double time the regular rate for work on the following holiday(s).

## Paid Holidays

New Year's Day  
Lincoln's Birthday  
President's Day  
Memorial Day  
Independence Day  
Labor Day  
Columbus Day  
Veteran's Day  
Thanksgiving Day  
Christmas Day  
Employees must work at least one day in the payroll week in which the holiday occurs to receive the paid holiday

## Shift Rates

Off Shift: double time the regular hourly rate.

(Local #15)

# ENGINEER - CITY SURVEYOR AND CONSULTANT

## Party Chief

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$35.55**

Supplemental Benefit Rate per Hour: **\$17.65**

Supplemental Note: Overtime Benefit Rate - \$23.63 per hour (time & one half) \$29.95 per hour (double time).

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$36.01**

Supplemental Benefit Rate per Hour: **\$18.45**

Supplemental Note: Overtime Benefit Rate - \$25.23 per hour (time & one half) \$32.00 per hour (double time).

## Instrument Person

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$29.41**

Supplemental Benefit Rate per Hour: **\$17.65**

Supplemental Note: Overtime Benefit Rate - \$23.63 per hour (time & one half) \$29.95 per hour (double time).

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$29.75**

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Supplemental Benefit Rate per Hour: **\$18.45**

Supplemental Note: Overtime Benefit Rate - \$25.23 per hour (time & one half) \$32.00 per hour (double time).

**Rodperson**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$25.54**

Supplemental Benefit Rate per Hour: **\$17.65**

Supplemental Note: Overtime Benefit Rate - \$23.63 per hour (time & one half) \$29.95 per hour (double time).

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$25.80**

Supplemental Benefit Rate per Hour: **\$18.45**

Supplemental Note: Overtime Benefit Rate - \$25.23 per hour (time & one half) \$32.00 per hour (double time).

**Overtime Description**

Time and one half the regular rate after an 8 hour day, Time and one half the regular rate for Saturday for the first eight hours worked, Double time the regular time rate for Saturday for work performed in excess of eight hours, Double time the regular rate for Sunday and Double time the regular rate for work on a holiday.

**Paid Holidays**

New Year's Day

Lincoln's Birthday

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

Employees must work at least one day in the payroll week in which the holiday occurs to receive the paid holiday

(Operating Engineer Local #15-D)

**ENGINEER - FIELD (BUILDING CONSTRUCTION)**

**(Construction of Building Projects, Concrete Superstructures, etc.)**

**Field Engineer - BC Party Chief**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$55.40**

Supplemental Benefit Rate per Hour: **\$30.62**

Supplemental Note: Overtime Benefit Rate - \$42.73 per hour (time & one half) \$54.84 per hour (double time).

Effective Period: 1/5/2015 - 6/30/2015

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Wage Rate per Hour: **\$59.02**

Supplemental Benefit Rate per Hour: **\$31.51**

Supplemental Note: Overtime Benefit Rate - \$43.94 per hour (time & one half) \$56.37 per hour (double time).

**Field Engineer - BC Instrument Person**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$43.10**

Supplemental Benefit Rate per Hour: **\$30.62**

Supplemental Note: Overtime Benefit Rate - \$42.73 per hour (time & one half) \$54.84 per hour (double time).

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$45.84**

Supplemental Benefit Rate per Hour: **\$31.51**

Supplemental Note: Overtime Benefit Rate - \$43.94 per hour (time & one half) \$56.37 per hour (double time).

**Field Engineer - BC Rodperson**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$27.96**

Supplemental Benefit Rate per Hour: **\$30.62**

Supplemental Note: Overtime Benefit Rate - \$42.73 per hour (time & one half) \$54.84 per hour (double time).

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$29.60**

Supplemental Benefit Rate per Hour: **\$31.51**

Supplemental Note: Overtime Benefit Rate - \$43.94 per hour (time & one half) \$56.37 per hour (double time).

**Overtime Description**

Time and one half the regular rate after a 7 hour work and time and one half the regular rate for Saturday for the first seven hours worked, Double time the regular time rate for Saturday for work performed in excess of seven hours, Double time the regular rate for Sunday and Double time the regular rate for work on a holiday.

**Paid Holidays**

New Year's Day

President's Day

Good Friday

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Christmas Day

Employees must work at least one day in the payroll week in which the holiday occurs to receive the paid holiday

(Operating Engineer Local #15-D)

## **ENGINEER - FIELD (HEAVY CONSTRUCTION)** **(Construction of Roads, Tunnels, Bridges, Sewers, Building Foundations, Engineering Structures etc.)**

### **Field Engineer - HC Party Chief**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$62.61**

Supplemental Benefit Rate per Hour: **\$30.62**

Supplemental Note: Overtime benefit rate - \$42.73 per hour (time & one half), \$54.84 per hour (double time).

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$64.52**

Supplemental Benefit Rate per Hour: **\$31.51**

Supplemental Note: Overtime benefit rate - \$43.94 per hour (time & one half), \$56.37 per hour (double time).

### **Field Engineer - HC Instrument Person**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$46.00**

Supplemental Benefit Rate per Hour: **\$30.62**

Supplemental Note: Overtime benefit rate - \$42.73 per hour (time & one half), \$54.84 per hour (double time).

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$47.41**

Supplemental Benefit Rate per Hour: **\$31.51**

Supplemental Note: Overtime benefit rate - \$43.94 per hour (time & one half), \$56.37 per hour (double time).

### **Field Engineer - HC Rodperson**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$38.61**

Supplemental Benefit Rate per Hour: **\$30.62**

Supplemental Note: Overtime benefit rate - \$42.73 per hour (time & one half), \$54.84 per hour (double time).

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$39.80**

Supplemental Benefit Rate per Hour: **\$31.51**

Supplemental Note: Overtime benefit rate - \$43.94 per hour (time & one half), \$56.37 per hour (double time).

### **Overtime Description**

Time and one half the regular rate after an 8 hour day, Time and one half the regular rate for Saturday for the first eight hours worked, Double time the regular time rate for Saturday for work performed in excess of eight hours, Double time the regular rate for Sunday and Double time the regular rate for work on a holiday.

### **Paid Holidays**

New Year's Day

Lincoln's Birthday

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
§220 PREVAILING WAGE SCHEDULE

President's Day  
Memorial Day  
Independence Day  
Labor Day  
Columbus Day  
Veteran's Day  
Thanksgiving Day  
Christmas Day

Employees must work at least one day in the payroll week in which the holiday occurs to receive the paid holiday

(Operating Engineer Local #15-D)

## **ENGINEER - FIELD (STEEL ERECTION)**

### **Field Engineer - Steel Erection Party Chief**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$58.50**

Supplemental Benefit Rate per Hour: **\$30.62**

Supplemental Note: Overtime benefit rate - \$42.73 per hour (time & one half), \$54.84 per hour (double time).

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$60.38**

Supplemental Benefit Rate per Hour: **\$31.51**

Supplemental Note: Overtime benefit rate - \$43.94 per hour (time & one half), \$56.37 per hour (double time).

### **Field Engineer - Steel Erection Instrument Person**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$45.53**

Supplemental Benefit Rate per Hour: **\$30.62**

Supplemental Note: Overtime benefit rate - \$42.73 per hour (time & one half), \$54.84 per hour (double time).

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$47.05**

Supplemental Benefit Rate per Hour: **\$31.51**

Supplemental Note: Overtime benefit rate - \$43.94 per hour (time & one half), \$56.37 per hour (double time).

### **Field Engineer - Steel Erection Rodperson**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$30.43**

Supplemental Benefit Rate per Hour: **\$30.62**

Supplemental Note: Overtime benefit rate - \$42.73 per hour (time & one half), \$54.84 per hour (double time).

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$31.52**

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Supplemental Benefit Rate per Hour: **\$31.51**

Supplemental Note: Overtime benefit rate - \$43.94 per hour (time & one half), \$56.37 per hour (double time).

### **Overtime Description**

Time and one half the regular rate for Saturday for the first eight hours worked.

Double time the regular rate for Saturday for work performed in excess of eight hours.

### **Overtime**

Time and one half the regular rate after an 8 hour day.

Double time the regular rate for Sunday.

Double time the regular rate for work on the following holiday(s).

### **Paid Holidays**

New Year's Day

Lincoln's Birthday

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Christmas Day

Employees must work at least one day in the payroll week in which the holiday occurs to receive the paid holiday

(Operating Engineer Local #15-D)

## **ENGINEER - OPERATING**

### **Operating Engineer - Road & Heavy Construction I**

Back Filling Machines, Cranes, Mucking Machines and Dual Drum Paver.

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$67.70**

Supplemental Benefit Rate per Hour: **\$28.60**

Supplemental Note: \$51.75 overtime hours

Shift Wage Rate: **\$108.32**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$69.60**

Supplemental Benefit Rate per Hour: **\$29.60**

Supplemental Note: \$53.50 overtime hours

Shift Wage Rate: **\$111.36**

### **Operating Engineer - Road & Heavy Construction II**

Backhoes, Power Shovels, Hydraulic Clam Shells, Steel Erection, Moles and machines of a similar nature.

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Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$70.10**  
Supplemental Benefit Rate per Hour: **\$28.60**  
Supplemental Note: \$51.75 overtime hours  
Shift Wage Rate: **\$112.16**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$72.07**  
Supplemental Benefit Rate per Hour: **\$29.60**  
Supplemental Note: \$53.50 overtime hours  
Shift Wage Rate: **\$115.31**

**Operating Engineer - Road & Heavy Construction III**

Mine Hoists, Cranes, etc. (Used as Mine Hoists)

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$72.34**  
Supplemental Benefit Rate per Hour: **\$28.60**  
Supplemental Note: \$51.75 overtime hours  
Shift Wage Rate: **\$115.74**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$74.38**  
Supplemental Benefit Rate per Hour: **\$29.60**  
Supplemental Note: \$53.50 overtime hours  
Shift Wage Rate: **\$119.01**

**Operating Engineer - Road & Heavy Construction IV**

Gradealls, Keystones, Cranes on land or water (with digging buckets), Bridge Cranes, Vermeer Cutter and machines of a similar nature, Trenching Machines.

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$70.63**  
Supplemental Benefit Rate per Hour: **\$28.60**  
Supplemental Note: \$51.75 overtime hours  
Shift Wage Rate: **\$113.01**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$72.61**  
Supplemental Benefit Rate per Hour: **\$29.60**  
Supplemental Note: \$53.50 overtime hours  
Shift Wage Rate: **\$116.18**

**Operating Engineer - Road & Heavy Construction V**

Pile Drivers & Rigs (employing Dock Builder foreperson): Derrick Boats, Tunnel Shovels.

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Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$69.23**  
Supplemental Benefit Rate per Hour: **\$28.60**  
Supplemental Note: \$51.75 overtime hours  
Shift Wage Rate: **\$110.77**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$71.17**  
Supplemental Benefit Rate per Hour: **\$29.60**  
Supplemental Note: \$53.50 overtime hours  
Shift Wage Rate: **\$113.87**

**Operating Engineer - Road & Heavy Construction VI**

Mixers (Concrete with loading attachment), Concrete Pavers, Cableways, Land Derricks, Power Houses (Low Air Pressure Units).

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$65.76**  
Supplemental Benefit Rate per Hour: **\$28.60**  
Supplemental Note: \$51.75 overtime hours  
Shift Wage Rate: **\$105.22**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$67.70**  
Supplemental Benefit Rate per Hour: **\$29.60**  
Supplemental Note: \$53.50 overtime hours  
Shift Wage Rate: **\$108.16**

**Operating Engineer - Road & Heavy Construction VII**

Barrier Movers , Barrier Transport and Machines of a Similar Nature.

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$53.08**  
Supplemental Benefit Rate per Hour: **\$28.60**  
Supplemental Note: \$51.75 overtime hours  
Shift Wage Rate: **\$84.93**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$54.54**  
Supplemental Benefit Rate per Hour: **\$29.60**  
Supplemental Note: \$53.50 overtime hours  
Shift Wage Rate: **\$87.26**

**Operating Engineer - Road & Heavy Construction VIII**

Utility Compressors

Effective Period: 7/1/2014 - 1/4/2015



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Wage Rate per Hour: **\$41.18**  
Supplemental Benefit Rate per Hour: **\$28.60**  
Supplemental Note: \$51.75 overtime hours  
Shift Wage Rate: **\$51.93**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$42.28**  
Supplemental Benefit Rate per Hour: **\$29.60**  
Supplemental Note: \$53.50 overtime hours  
Shift Wage Rate: **\$53.35**

**Operating Engineer - Road & Heavy Construction IX**

Horizontal Boring Rig

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$62.53**  
Supplemental Benefit Rate per Hour: **\$28.60**  
Supplemental Note: \$51.75 overtime hours  
Shift Wage Rate: **\$100.05**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$64.27**  
Supplemental Benefit Rate per Hour: **\$29.60**  
Supplemental Note: \$53.50 overtime hours  
Shift Wage Rate: **\$102.83**

**Operating Engineer - Road & Heavy Construction X**

Elevators (manually operated as personnel hoist).

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$57.46**  
Supplemental Benefit Rate per Hour: **\$28.60**  
Supplemental Note: \$51.75 overtime hours  
Shift Wage Rate: **\$91.94**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$59.05**  
Supplemental Benefit Rate per Hour: **\$29.60**  
Supplemental Note: \$53.50 overtime hours  
Shift Wage Rate: **\$94.48**

**Operating Engineer - Road & Heavy Construction XI**

Compressors (Portable 3 or more in battery), Driving of Truck Mounted Compressors, Well-point Pumps, Tugger Machines Well Point Pumps, Churn Drill.

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$44.63**

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Supplemental Benefit Rate per Hour: **\$28.60**  
Supplemental Note: \$51.75 overtime hours  
Shift Wage Rate: **\$71.41**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$45.83**  
Supplemental Benefit Rate per Hour: **\$29.60**  
Supplemental Note: \$53.50 overtime hours  
Shift Wage Rate: **\$73.33**

**Operating Engineer - Road & Heavy Construction XII**

All Drills and Machines of a similar nature.

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$66.45**  
Supplemental Benefit Rate per Hour: **\$28.60**  
Supplemental Note: \$51.75 overtime hours  
Shift Wage Rate: **\$106.32**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$68.31**  
Supplemental Benefit Rate per Hour: **\$29.60**  
Supplemental Note: \$53.50 overtime hours  
Shift Wage Rate: **\$109.30**

**Operating Engineer - Road & Heavy Construction XIII**

Concrete Pumps, Concrete Plant, Stone Crushers, Double Drum Hoist, Power Houses (other than above).

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$64.34**  
Supplemental Benefit Rate per Hour: **\$28.60**  
Supplemental Note: \$51.75 overtime hours  
Shift Wage Rate: **\$102.94**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$66.14**  
Supplemental Benefit Rate per Hour: **\$29.60**  
Supplemental Note: \$53.50 overtime hours  
Shift Wage Rate: **\$105.82**

**Operating Engineer - Road & Heavy Construction XIV**

Concrete Mixer

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$61.53**  
Supplemental Benefit Rate per Hour: **\$28.60**  
Supplemental Note: \$51.75 overtime hours

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Shift Wage Rate: **\$98.45**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$63.24**

Supplemental Benefit Rate per Hour: **\$29.60**

Supplemental Note: \$53.50 overtime hours

Shift Wage Rate: **\$101.18**

**Operating Engineer - Road & Heavy Construction XV**

Compressors (Portable Single or two in Battery, not over 100 feet apart), Pumps (River Cofferdam) and Welding Machines, Push Button Machines, All Engines Irrespective of Power (Power-Pac) used to drive auxiliary equipment, Air, Hydraulic, etc.

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$41.44**

Supplemental Benefit Rate per Hour: **\$28.60**

Supplemental Note: \$51.75 overtime hours

Shift Wage Rate: **\$66.30**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$42.55**

Supplemental Benefit Rate per Hour: **\$29.60**

Supplemental Note: \$53.50 overtime hours

Shift Wage Rate: **\$68.08**

**Operating Engineer - Road & Heavy Construction XVI**

Concrete Breaking Machines, Hoists (Single Drum), Load Masters, Locomotives (over ten tons) and Dinkies over ten tons, Hydraulic Crane-Second Engineer.

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$58.74**

Supplemental Benefit Rate per Hour: **\$28.60**

Supplemental Note: \$51.75 overtime hours

Shift Wage Rate: **\$93.98**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$60.37**

Supplemental Benefit Rate per Hour: **\$29.60**

Supplemental Note: \$53.50 overtime hours

Shift Wage Rate: **\$96.59**

**Operating Engineer - Road & Heavy Construction XVII**

On-Site concrete plant engineer, On-site Asphalt Plant Engineer, and Vibratory console.

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$59.21**

Supplemental Benefit Rate per Hour: **\$28.60**

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Supplemental Note: \$51.75 overtime hours  
Shift Wage Rate: **\$94.74**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$60.85**  
Supplemental Benefit Rate per Hour: **\$29.60**  
Supplemental Note: \$53.50 overtime hours  
Shift Wage Rate: **\$97.36**

**Operating Engineer - Road & Heavy Construction XVIII**

Tower Crane

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$85.00**  
Supplemental Benefit Rate per Hour: **\$28.60**  
Supplemental Note: \$51.75 overtime hours  
Shift Wage Rate: **\$136.00**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$87.42**  
Supplemental Benefit Rate per Hour: **\$29.60**  
Supplemental Note: \$53.50 overtime hours  
Shift Wage Rate: **\$139.87**

**Operating Engineer - Paving I**

Asphalt Spreaders, Autogrades (C.M.I.), Roto/Mil

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$65.76**  
Supplemental Benefit Rate per Hour: **\$28.60**  
Supplemental Note: \$51.75 overtime hours  
Shift Wage Rate: **\$105.22**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$67.60**  
Supplemental Benefit Rate per Hour: **\$29.60**  
Supplemental Note: \$53.50 overtime hours  
Shift Wage Rate: **\$108.16**

**Operating Engineer - Paving II**

Asphalt Roller

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$64.04**  
Supplemental Benefit Rate per Hour: **\$28.60**  
Supplemental Note: \$51.75 overtime hours  
Shift Wage Rate: **\$102.46**

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Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$65.83**  
Supplemental Benefit Rate per Hour: **\$29.60**  
Supplemental Note: \$53.50 overtime hours  
Shift Wage Rate: **\$105.33**

**Operating Engineer - Paving III**

Asphalt Plants

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$54.17**  
Supplemental Benefit Rate per Hour: **\$28.60**  
Supplemental Note: \$51.75 overtime hours  
Shift Wage Rate: **\$86.67**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$55.66**  
Supplemental Benefit Rate per Hour: **\$29.60**  
Supplemental Note: \$53.50 overtime hours  
Shift Wage Rate: **\$89.06**

**Operating Engineer - Concrete I**

Cranes

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$70.32**  
Supplemental Benefit Rate per Hour: **\$28.60**  
Supplemental Note: \$51.75 overtime hours

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$72.29**  
Supplemental Benefit Rate per Hour: **\$29.60**  
Supplemental Note: \$53.50 overtime hours

**Operating Engineer - Concrete II**

Compressors

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$41.76**  
Supplemental Benefit Rate per Hour: **\$28.60**  
Supplemental Note: \$51.75 overtime hours

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$42.88**  
Supplemental Benefit Rate per Hour: **\$29.60**  
Supplemental Note: \$53.50 overtime hours

### **Operating Engineer - Concrete III**

Micro-traps (Negative Air Machines), Vac-All Remediation System.

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$56.16**

Supplemental Benefit Rate per Hour: **\$28.60**

Supplemental Note: \$51.75 overtime hours

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$57.71**

Supplemental Benefit Rate per Hour: **\$29.60**

Supplemental Note: \$53.50 overtime hours

### **Operating Engineer - Steel Erection I**

Three Drum Derricks

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$73.37**

Supplemental Benefit Rate per Hour: **\$28.60**

Supplemental Note: \$51.75 overtime hours

Shift Wage Rate: **\$117.39**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$75.26**

Supplemental Benefit Rate per Hour: **\$29.60**

Supplemental Note: \$53.50 overtime hours

Shift Wage Rate: **\$120.42**

### **Operating Engineer - Steel Erection II**

Cranes, 2 Drum Derricks, Hydraulic Cranes, Fork Lifts and Boom Trucks.

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$70.50**

Supplemental Benefit Rate per Hour: **\$28.60**

Supplemental Note: \$51.75 overtime hours

Shift Wage Rate: **\$112.80**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$72.31**

Supplemental Benefit Rate per Hour: **\$29.60**

Supplemental Note: \$53.50 overtime hours

Shift Wage Rate: **\$115.70**

### **Operating Engineer - Steel Erection III**

Compressors, Welding Machines.

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Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$41.84**

Supplemental Benefit Rate per Hour: **\$28.60**

Supplemental Note: \$51.75 overtime hours

Shift Wage Rate: **\$66.94**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$42.84**

Supplemental Benefit Rate per Hour: **\$29.60**

Supplemental Note: \$53.50 overtime hours

Shift Wage Rate: **\$68.54**

### **Operating Engineer - Steel Erection IV**

Compressors - Not Combined with Welding Machine.

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$39.85**

Supplemental Benefit Rate per Hour: **\$28.60**

Supplemental Note: \$51.75 overtime hours

Shift Wage Rate: **\$63.76**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$40.79**

Supplemental Benefit Rate per Hour: **\$29.60**

Supplemental Note: \$53.50 overtime hours

Shift Wage Rate: **\$65.26**

### **Operating Engineer - Building Work I**

Forklifts, Plaster (Platform machine), Plaster Bucket, Concrete Pump and all other equipment used for hoisting material.

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$57.82**

Supplemental Benefit Rate per Hour: **\$28.60**

Supplemental Note: \$51.75 overtime hours

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$59.42**

Supplemental Benefit Rate per Hour: **\$29.60**

Supplemental Note: \$53.50 overtime hours

### **Operating Engineer - Building Work II**

Compressors, Welding Machines (Cutting Concrete-Tank Work), Paint Spraying, Sandblasting, Pumps (with the exclusion of Concrete Pumps), All Engines irrespective of Power (Power-Pac) used to drive Auxiliary Equipment, Air, Hydraulic, Jacking System, etc.

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Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$43.28**  
Supplemental Benefit Rate per Hour: **\$28.60**  
Supplemental Note: \$51.75 overtime hours

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$44.44**  
Supplemental Benefit Rate per Hour: **\$29.60**  
Supplemental Note: \$53.50 overtime hours

**Operating Engineer - Building Work III**

Double Drum

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$65.83**  
Supplemental Benefit Rate per Hour: **\$28.60**  
Supplemental Note: \$51.75 overtime hours

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$67.67**  
Supplemental Benefit Rate per Hour: **\$29.60**  
Supplemental Note: \$53.50 overtime hours

**Operating Engineer - Building Work IV**

Stone Derrick, Cranes, Hydraulic Cranes Boom Trucks.

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$69.74**  
Supplemental Benefit Rate per Hour: **\$28.60**  
Supplemental Note: \$51.75 overtime hours

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$71.70**  
Supplemental Benefit Rate per Hour: **\$29.60**  
Supplemental Note: \$53.50 overtime hours

**Operating Engineer - Building Work V**

Dismantling and Erection of Cranes, Relief Engineer.

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$64.26**  
Supplemental Benefit Rate per Hour: **\$28.60**  
Supplemental Note: \$51.75 overtime hours

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$66.05**  
Supplemental Benefit Rate per Hour: **\$29.60**



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Supplemental Note: \$53.50 overtime hours

**Operating Engineer - Building Work VI**

4 Pole Hoist, Single Drum Hoists.

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$63.58**

Supplemental Benefit Rate per Hour: **\$28.60**

Supplemental Note: \$51.75 overtime hours

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$65.35**

Supplemental Benefit Rate per Hour: **\$29.60**

Supplemental Note: \$53.50 overtime hours

**Operating Engineer - Building Work VII**

Rack & Pinion and House Cars

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$50.53**

Supplemental Benefit Rate per Hour: **\$28.60**

Supplemental Note: \$51.75 overtime hours

For New House Car projects started after 7/1/11 only: Wage Rate per Hour \$40.31

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$51.91**

Supplemental Benefit Rate per Hour: **\$29.60**

Supplemental Note: \$53.50 overtime hours

For New House Car projects Wage Rate per Hour \$41.38

**Overtime Description**

On jobs of more than one shift, if an Employee fails to report for work through any cause over which the Employer has no control, the Employee on duty will continue to work at the rate of single time.

For House Cars and Rack & Pinion only: Overtime paid at time and one-half for all hours in excess of eight hours in a day, Saturday, Sunday and Holidays worked.

**Overtime**

Double time the regular rate after an 8 hour day.

Double time the regular time rate for Saturday.

Double time the regular rate for Sunday.

Double time the regular rate for work on the following holiday(s).

**Paid Holidays**

New Year's Day

Lincoln's Birthday

President's Day

Memorial Day

Independence Day

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Labor Day  
Columbus Day  
Veteran's Day  
Thanksgiving Day  
Day after Thanksgiving  
Christmas Day

Employees must work at least one day in the payroll week in which the holiday occurs to receive the paid holiday

## Shift Rates

For Steel Erection Only: Shifts may be worked at the single time rate at other than the regular working hours (8:00 A.M. to 4:30 P.M.) on the following work ONLY: Heavy construction jobs on work below the street level, over railroad tracks and on building jobs.

(Operating Engineer Local #14)

## FLOOR COVERER

(Interior vinyl composition tile, sheath vinyl linoleum and wood parquet tile including site preparation and synthetic turf not including site preparation)

### Floor Coverer

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$49.88**

Supplemental Benefit Rate per Hour: **\$44.10**

### Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

### Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day  
President's Day  
Memorial Day  
Independence Day  
Labor Day  
Columbus Day  
Presidential Election Day  
Thanksgiving Day  
Day after Thanksgiving  
Christmas Day

### Paid Holidays

1/2 day on Christmas Eve if work is performed in the A.M.

1/2 day on New Year's Eve if work is performed in the A.M.

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## Shift Rates

Two shifts may be utilized with the first shift working 8:00 A.M. to the end of the shift at the straight time of pay. The second shift will receive one hour at double time rate for the last hour of the shift. (eight for seven, nine for eight).

(Carpenters District Council)

## GLAZIER (New Construction, Remodeling, and Alteration)

### Glazier

Effective Period: 7/1/2014 - 10/31/2014

Wage Rate per Hour: **\$42.50**

Supplemental Benefit Rate per Hour: **\$35.09**

Supplemental Note: Supplemental Benefit Overtime Rate: **\$43.59**

Effective Period: 11/1/2014 - 6/30/2015

Wage Rate per Hour: **\$42.85**

Supplemental Benefit Rate per Hour: **\$35.59**

Supplemental Note: Supplemental Benefit Overtime Rate: **\$44.09**

### Overtime Description

An optional 8th hour can be worked at straight time rate. If 9th hour is worked, then both hours or more (8th & 9th or more) will be at the double time rate of pay.

### Overtime

Double time the regular rate after a 7 hour day.

Double time the regular time rate for Saturday.

Double time the regular rate for Sunday.

### Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Memorial Day

Independence Day

Labor Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

### Paid Holidays

None

### Shift Rates

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Shifts shall be any 7 hours beyond 4:00 P.M. for which the glazier shall receive 8 hours pay for 7 hours worked.

(Local #1281)

## **GLAZIER - REPAIR & MAINTENANCE**

(For the Installation of Glass - All repair and maintenance work on a particular building, whenever performed, where the total cumulative contract value is under \$105,000. Except where enumerated (i.e. plate glass windows) does not apply to non-residential buildings.)

### **Craft Jurisdiction for repair, maintenance and fabrication**

Plate glass replacement, Residential glass replacement, Residential mirrors and shower doors, Storm windows and storm doors, Residential replacement windows, Herculite door repairs, Door closer repairs, Retrofit apartment house (non commercial buildings), Glass tinting.

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$23.60**

Supplemental Benefit Rate per Hour: **\$19.04**

### **Overtime**

Time and one half the regular rate after an 8 hour day.

Double time the regular rate for Sunday.

Time and one half the regular hourly rate after 40 hours in any work week.

### **Paid Holidays**

New Year's Day

President's Day

Memorial Day

Independence Day

Labor Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

(Local #1281)

## **HEAT AND FROST INSULATOR**

### **Heat & Frost Insulator**

Effective Period: 7/1/2014 - 6/30/2015

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
§220 PREVAILING WAGE SCHEDULE

Wage Rate per Hour: **\$56.98**

Supplemental Benefit Rate per Hour: **\$34.81**

### **Overtime Description**

Double time shall be paid for supplemental benefits during overtime work.  
8th hour paid at time and one half.

### **Overtime**

Double time the regular rate after an 8 hour day.

Double time the regular time rate for Saturday.

Double time the regular rate for Sunday.

### **Overtime Holidays**

Double time the regular rate for work on the following holiday(s).

New Year's Day

Martin Luther King Jr. Day

President's Day

Memorial Day

Independence Day

Columbus Day

Veteran's Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

Triple time the regular rate for work on the following holiday(s).

Labor Day

### **Paid Holidays**

None

### **Shift Rates**

The first shift shall work seven hours at the regular straight time rate. The second and third shift shall work seven hours the regular straight time hourly rate plus a fourteen percent wage and benefit premium.

Off hour work in occupied or retail buildings may be worked on weekdays with an increment of \$1.00 per hour and eight hours pay for seven (7) hours worked. Double time will apply for over seven (7) hours worked on weekdays, weekends or holidays.

(Local #12)

## **HOUSE WRECKER (TOTAL DEMOLITION)**

### **House Wrecker - Tier A**

On all work sites the first, second, eleventh and every third House Wrecker thereafter will be Tier A House Wreckers (i.e. 1st, 2nd, 11th, 14th etc). Other House Wreckers may be Tier B House Wreckers.

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
§220 PREVAILING WAGE SCHEDULE

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$34.51**  
Supplemental Benefit Rate per Hour: **\$25.59**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$35.30**  
Supplemental Benefit Rate per Hour: **\$26.31**

**House Wrecker - Tier B**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$24.02**  
Supplemental Benefit Rate per Hour: **\$19.12**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$24.70**  
Supplemental Benefit Rate per Hour: **\$19.52**

**Overtime**

Time and one half the regular rate after an 8 hour day.  
Time and one half the regular rate for Saturday.  
Double time the regular rate for Sunday.

**Overtime Holidays**

Double time the regular rate for work on the following holiday(s).  
New Year's Day  
President's Day  
Memorial Day  
Independence Day  
Labor Day  
Thanksgiving Day  
Christmas Day

**Paid Holidays**

None

(Mason Tenders District Council)

**IRON WORKER - ORNAMENTAL**

**Iron Worker - Ornamental**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate per Hour: **\$42.70**  
Supplemental Benefit Rate per Hour: **\$45.77**

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
§220 PREVAILING WAGE SCHEDULE

Supplemental Note: Supplemental benefits are to be paid at the applicable overtime rate when overtime is in effect.

### Overtime Description

Time and one half the regular rate after a 7 hour day for a maximum of two hours on any regular work day (the 8th and 9th hour) and double time shall be paid for all work on a regular work day thereafter, time and one half the regular rate for Saturday for the first seven hours of work and double time shall be paid for all work on a Saturday thereafter.

### Overtime

Double time the regular rate for Sunday.

### Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day  
President's Day  
Memorial Day  
Independence Day  
Labor Day  
Thanksgiving Day  
Christmas Day

### Paid Holidays

None

### Shift Rates

For off shift work - 8 hours pay for 7 hours of work. When two or three shifts are employed on a job, Monday through Friday, the workday for each shift shall be seven hours and paid for ten and one-half hours at the single time rate. When two or three shifts are worked on Saturday, Sunday or holidays, each shift shall be seven hours and paid fifteen and three-quarters hours.

(Local #580)

## IRON WORKER - STRUCTURAL

### Iron Worker - Structural

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: \$47.75

Supplemental Benefit Rate per Hour: \$65.35

Supplemental Note: Supplemental benefits are to be paid at the applicable overtime rate when overtime is in effect.

### Overtime Description

Monday through Friday- the first eight hours are paid at straight time, the 9th and 10th hours are paid at time and one-half the regular rate, all additional weekday overtime is paid at double the regular rate. Saturdays- the first eight hours are paid at time and one-half the regular rate, double time thereafter. Sunday-all shifts are paid at double time.

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
§220 PREVAILING WAGE SCHEDULE

## Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

## Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day

Good Friday

Memorial Day

Independence Day

Labor Day

Thanksgiving Day

Christmas Day

## Paid Holidays

1/2 day on Christmas Eve if work is performed in the A.M.

1/2 day on New Year's Eve if work is performed in the A.M.

## Shift Rates

Monday through Friday - First Shift: First eight hours are paid at straight time, the 9th & 10th hours are paid at time and a half, double time paid thereafter. Second and third Shifts: First eight hours are paid at time and one-half, double time thereafter. Saturdays: All shifts, first eight hours paid at time and one-half, double time thereafter: Sunday all shifts are paid at double time.

(Local #40 & #361)

## LABORER

(Foundation, Concrete, Excavating, Street Pipe Layer and Common)

### Laborer

Excavation and foundation work for buildings, heavy construction, engineering work, and hazardous waste removal in connection with the above work. Landscaping tasks in connection with heavy construction work, engineering work and building projects. Projects include, but are not limited to pollution plants, sewers, parks, subways, bridges, highways, etc.

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$39.85**

Supplemental Benefit Rate per Hour: **\$34.88**

## Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.



OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
§220 PREVAILING WAGE SCHEDULE

## Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day  
Memorial Day  
Independence Day  
Labor Day  
Columbus Day  
Presidential Election Day  
Thanksgiving Day  
Christmas Day

## Paid Holidays

Labor Day  
Thanksgiving Day

## Shift Rates

When two shifts are employed, single time rate shall be paid for each shift. When three shifts are found necessary, each shift shall work seven and one half hours (7 ½), but shall be paid for eight (8) hours of labor, and be permitted one half hour for lunch.

(Local #731)

## LANDSCAPING

(Landscaping tasks, as well as tree pruning, tree removing, spraying and maintenance in connection with the planting of street trees and the planting of trees in city parks but not when such activities are performed as part of, or in connection with, other construction or reconstruction projects.)

### Landscaper (Above 6 years experience)

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: \$25.75

Supplemental Benefit Rate per Hour: \$13.80

### Landscaper (3 - 6 years experience)

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: \$24.75

Supplemental Benefit Rate per Hour: \$13.80

### Landscaper (up to 3 years experience)

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: \$22.25

Supplemental Benefit Rate per Hour: \$13.80

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
§220 PREVAILING WAGE SCHEDULE

**Groundperson**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate per Hour: **\$22.25**  
Supplemental Benefit Rate per Hour: **\$13.80**

**Tree Remover / Pruner**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate per Hour: **\$30.75**  
Supplemental Benefit Rate per Hour: **\$13.80**

**Landscaper Sprayer (Pesticide Applicator)**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate per Hour: **\$20.75**  
Supplemental Benefit Rate per Hour: **\$13.80**

**Watering - Plant Maintainer**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate per Hour: **\$15.75**  
Supplemental Benefit Rate per Hour: **\$13.80**

**Overtime Description**

For all overtime work performed, supplemental benefits shall include an additional seventy-five (\$0.75) cents per hour.

**Overtime**

Time and one half the regular rate after an 8 hour day.  
Time and one half the regular rate for Saturday.  
Double time the regular rate for Sunday.  
Time and one half the regular rate for work on a holiday plus the day's pay.

**Paid Holidays**

New Year's Day  
Memorial Day  
Independence Day  
Labor Day  
Thanksgiving Day  
Christmas Day

**Shift Rates**

Work performed on a 4pm to 12am shift has a 15% differential. Work performed on a 12am to 8am shift has a 20% differential.

(Local #175)

## **MARBLE MECHANIC**

### **Marble Setter**

Effective Period: 7/1/2014 - 12/31/2014

Wage Rate per Hour: **\$50.85**

Supplemental Benefit Rate per Hour: **\$34.21**

Effective Period: 1/1/2015 - 6/30/2015

Wage Rate per Hour: **\$51.15**

Supplemental Benefit Rate per Hour: **\$34.87**

### **Marble Finisher**

Effective Period: 7/1/2014 - 12/31/2014

Wage Rate per Hour: **\$39.99**

Supplemental Benefit Rate per Hour: **\$33.34**

Effective Period: 1/1/2015 - 6/30/2015

Wage Rate per Hour: **\$40.26**

Supplemental Benefit Rate per Hour: **\$33.90**

### **Marble Polisher**

Effective Period: 7/1/2014 - 12/31/2014

Wage Rate per Hour: **\$35.96**

Supplemental Benefit Rate per Hour: **\$25.92**

Effective Period: 1/1/2015 - 6/30/2015

Wage Rate per Hour: **\$36.25**

Supplemental Benefit Rate per Hour: **\$26.28**

### **Overtime Description**

Supplemental Benefit contributions are to be made at the applicable overtime rates. Time and one half the regular rate after a 7 hour day or time and one half the regular rate after an 8 hour day - chosen by Employer at the start of the project and then would last for the full duration of the project.

### **Overtime**

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

### **Overtime Holidays**

Double time the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Good Friday

Memorial Day

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
§220 PREVAILING WAGE SCHEDULE

Independence Day  
Labor Day  
Columbus Day  
Veteran's Day  
Thanksgiving Day  
Day after Thanksgiving  
Christmas Day

**Paid Holidays**

None

(Local #7)

**MASON TENDER**

**Mason Tender**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$36.05**

Supplemental Benefit Rate per Hour: **\$26.74**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$36.47**

Supplemental Benefit Rate per Hour: **\$27.27**

**Overtime**

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Saturday may be used as a make-up day at straight time when a day is lost during that week to inclement weather.

**Overtime Holidays**

Double time the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Memorial Day

Independence Day

Labor Day

Thanksgiving Day

Christmas Day

**Paid Holidays**

None

**Shift Rates**

The Employer may work two (2) shifts with the first shift at the straight time wage rate and the second shift receiving eight (8) hours paid for seven (7) hours work at the straight time wage rate.

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
§220 PREVAILING WAGE SCHEDULE

(Local #79)

## **MASON TENDER (INTERIOR DEMOLITION WORKER)**

(The erection, building, moving, servicing and dismantling of enclosures, scaffolding, barricades, protection and site safety structures etc., on Interior Demolition jobs.)

### **Mason Tender Tier A**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$34.99**

Supplemental Benefit Rate per Hour: **\$21.10**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$35.26**

Supplemental Benefit Rate per Hour: **\$21.58**

### **Mason Tender Tier B**

On Interior Demolition job sites 33 1/3 % of the employees shall be classified as Tier A Interior Demolition Workers and 66 2/3 % shall be classified as Tier B Interior Demolition Workers; provided that the employer may employ more than 33 1/3 % Tier A Interior Demolition Workers on the job site. Where the number of employees on a job site is not divisible by 3, the first additional employee (above the number of employees divisible by three) shall be a Tier B Interior Demolition Worker, and the second additional employee shall be a Tier A Interior Demolition Worker.

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$24.18**

Supplemental Benefit Rate per Hour: **\$15.42**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$24.45**

Supplemental Benefit Rate per Hour: **\$15.90**

### **Overtime**

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Sunday.

### **Overtime Holidays**

Double time the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Memorial Day

Independence Day

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
§220 PREVAILING WAGE SCHEDULE

Labor Day  
Thanksgiving Day  
Christmas Day

**Paid Holidays**  
None

(Local #79)

## **METALLIC LATHER**

### **Metallic Lather**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$42.03**

Supplemental Benefit Rate per Hour: **\$41.07**

Supplemental Note: Supplemental benefits for overtime are paid at the appropriate overtime rate.

### **Overtime Description**

Overtime would be time and one half the regular rate after a seven (7) or eight (8) hours workday, which would be set at the start of the job.

### **Overtime**

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

### **Overtime Holidays**

Double time the regular rate for work on the following holiday(s).

New Year's Day  
Washington's Birthday  
Good Friday  
Memorial Day  
Independence Day  
Labor Day  
Columbus Day  
Presidential Election Day  
Thanksgiving Day  
Christmas Day

### **Paid Holidays**

1/2 day on Christmas Eve if work is performed in the A.M.

1/2 day on New Year's Eve if work is performed in the A.M.

### **Shift Rates**

There shall be either two (2) or three (3) shifts, each shift shall be eight (8) hours with nine (9) hours pay, including one half (1/2) hour for lunch. Off-Hour Start shall commence after 3:30 P.M. and shall conclude by 6:00 A.M. The first consecutive seven (7) hours shall be at straight time with a differential of twelve dollars (\$12.00) per hour. Fringes shall be paid at the straight time rate.

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
§220 PREVAILING WAGE SCHEDULE

(Local #46)

## MILLWRIGHT

### Millwright

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$48.44**

Supplemental Benefit Rate per Hour: **\$50.52**

### Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Saturday may be used as a make-up day at straight time when a day is lost during that week to inclement weather.

### Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Good Friday

Memorial Day

Independence Day

Labor Day

Columbus Day

Presidential Election Day

Thanksgiving Day

Christmas Day

### Paid Holidays

1/2 day on Christmas Eve if work is performed in the A.M.

1/2 day on New Year's Eve if work is performed in the A.M.

### Shift Rates

The first shift shall receive the straight time rate of pay. The second shift receives the straight time rate of pay plus fifteen (15%) per cent. Members of the second shift shall be allowed one half hour to eat, with this time being included in the hours of the workday established. There must be a first shift to work a second shift. All additional hours worked shall be paid at the time and one-half rate of pay plus fifteen (15%) per cent for weekday hours.

(Local #740)

## **MOSAIC MECHANIC**

### **Mosaic Mechanic - Mosaic & Terrazzo Mechanic**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$45.23**

Supplemental Benefit Rate per Hour: **\$36.59**

Supplemental Note: Supplemental benefits for overtime to be paid at the rate of \$47.56 per hour.

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$45.52**

Supplemental Benefit Rate per Hour: **\$37.39**

Supplemental Note: Supplemental benefits for overtime to be paid at the rate of \$48.36 per hour.

### **Mosaic Mechanic - Mosaic & Terrazzo Finisher**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$43.63**

Supplemental Benefit Rate per Hour: **\$36.57**

Supplemental Note: Supplemental benefits for overtime to be paid at the rate of \$47.54 per hour.

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$43.92**

Supplemental Benefit Rate per Hour: **\$37.37**

Supplemental Note: Supplemental benefits for overtime to be paid at the rate of \$48.34 per hour.

### **Mosaic Mechanic - Machine Operator Grinder**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$43.63**

Supplemental Benefit Rate per Hour: **\$36.57**

Supplemental Note: Supplemental benefits for overtime to be paid at the rate of \$47.54per hour.

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$43.92**

Supplemental Benefit Rate per Hour: **\$37.37**

Supplemental Note: Supplemental benefits for overtime to be paid at the rate of \$48.34 per hour.

### **Overtime**

Time and one half the regular rate after a 7 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

### **Overtime Holidays**

Double time the regular rate for work on the following holiday(s).

New Year's Day

Washington's Birthday

Good Friday

Independence Day

Labor Day



OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
§220 PREVAILING WAGE SCHEDULE

Columbus Day  
Veteran's Day  
Thanksgiving Day  
Day after Thanksgiving  
Christmas Day

**Paid Holidays**  
None

(Local #7)

**PAINTER**

**Painter - Brush & Roller**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate per Hour: **\$39.50**  
Supplemental Benefit Rate per Hour: **\$26.12**  
Supplemental Note: \$30.75 on overtime

**Spray & Scaffold / Decorative / Sandblast**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate per Hour: **\$42.50**  
Supplemental Benefit Rate per Hour: **\$26.12**  
Supplemental Note: \$30.75 on overtime

**Overtime**

Time and one half the regular rate after a 7 hour day.  
Time and one half the regular rate for Saturday.  
Time and one half the regular rate for Sunday.

**Overtime Holidays**

Time and one half the regular rate for work on the following holiday(s).

New Year's Day  
President's Day  
Memorial Day  
Independence Day  
Labor Day  
Columbus Day  
Thanksgiving Day  
Christmas Day

**Paid Holidays**  
None

(District Council of Painters #9)

## **PAINTER - SIGN**

### **Designer**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$36.15**

Supplemental Benefit Rate per Hour: **\$9.66**

### **Journey person**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$33.62**

Supplemental Benefit Rate per Hour: **\$9.66**

### **Overtime**

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Time and one half the regular rate for Sunday.

Double time the regular rate for work on the following holiday(s).

### **Paid Holidays**

New Year's Day

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Election Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

### **Shift Rates**

All work performed outside the regular 8 hour work day (either 7:00 A.M to 3:30 P.M or 8:00 A.M. to 4:30 P.M) shall be paid at time and one half the regular hourly rate.

(Local #8A-28A)

## **PAINTER - STRIPER**

### **Striper (paint)**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$34.00**

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
§220 PREVAILING WAGE SCHEDULE

Supplemental Benefit Rate per Hour: **\$12.60**

Supplemental Note: Overtime Supplemental Benefit rate - \$8.35 New Hire Rate (0-3 months) - \$0.00

**Lineperson (thermoplastic)**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$38.00**

Supplemental Benefit Rate per Hour: **\$12.60**

Supplemental Note: Overtime Supplemental Benefit rate - \$8.35; New Hire Rate (0-3 months) - \$0.00

**Overtime**

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Time and one half the regular rate for work on the following holiday(s).

**Paid Holidays**

New Year's Day

Good Friday

Memorial Day

Independence Day

Labor Day

Columbus Day

Presidential Election Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

**Shift Rates**

Employees hired before April 1, 2003: 15% night shift premium differential for work commenced at 9:00 PM or later.

**Vacation**

Employees with one to two years service shall accrue vacation based on hours worked: 250 hours worked - 1 day vacation; 500 hours worked - 2 days vacation; 750 hours worked - 3 days vacation; 900 hours worked - 4 days vacation; 1,000 hours worked - 5 days vacation. Employees with two to five years service receive two weeks vacation. Employees with five to twenty years service receive three weeks vacation. Employees with twenty to twenty-five years service receive four weeks vacation. Employees with 25 or more years service receive five weeks vacation. Vacation must be taken during winter months. 2 Personal Days except employees hired after 4/1/12 who do not have 2 years of service.

(Local #917)

**PAINTER - STRUCTURAL STEEL**

**Painters on Structural Steel**

Effective Period: 7/1/2014 - 9/30/2014

Wage Rate per Hour: **\$47.00**

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
§220 PREVAILING WAGE SCHEDULE

Supplemental Benefit Rate per Hour: **\$33.58**

Effective Period: 10/1/2014 - 1/4/2015

Wage Rate per Hour: **\$48.75**

Supplemental Benefit Rate per Hour: **\$34.58**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$48.00**

Supplemental Benefit Rate per Hour: **\$34.58**

### **Painter - Power Tool**

Effective Period: 7/1/2014 - 9/30/2014

Wage Rate per Hour: **\$53.00**

Supplemental Benefit Rate per Hour: **\$33.58**

Effective Period: 10/1/2014 - 1/4/2015

Wage Rate per Hour: **\$54.75**

Supplemental Benefit Rate per Hour: **\$34.58**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$54.00**

Supplemental Benefit Rate per Hour: **\$34.58**

### **Overtime Description**

Supplemental Benefits shall be paid for each hour worked, up to forty (40) hours per week for the period of May 1st to November 15th or up to fifty (50) hours per week for the period of November 16th to April 30th.

### **Overtime**

Time and one half the regular rate after a 7 hour day.

Time and one half the regular rate for Saturday.

Time and one half the regular rate for Sunday.

### **Overtime Holidays**

Double time the regular rate for work on the following holiday(s).

New Year's Day

Memorial Day

Independence Day

Labor Day

Thanksgiving Day

Christmas Day

### **Paid Holidays**

None

### **Shift Rates**

Regular hourly rates plus a ten per cent (10%) differential

(Local #806)

## PAPERHANGER

### Paperhanger

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$41.08**

Supplemental Benefit Rate per Hour: **\$29.23**

Supplemental Note: Supplemental benefits are to be paid at the appropriate straight time and overtime rate.

### Overtime

Time and one half the regular rate after a 7 hour day.

Time and one half the regular rate for Saturday.

Time and one half the regular rate for Sunday.

### Overtime Holidays

Time and one half the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Memorial Day

Independence Day

Labor Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

### Paid Holidays

None

### Shift Rates

Evening shift - 4:30 P.M. to 12:00 Midnight (regular rate of pay); any work performed before 7:00 A.M. shall be at time and one half the regular base rate of pay.

(District Council of Painters #9)

## PAVER AND ROADBUILDER

### Paver & Roadbuilder - Formsetter

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$44.19**

Supplemental Benefit Rate per Hour: **\$35.15**

### Paver & Roadbuilder - Laborer

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
§220 PREVAILING WAGE SCHEDULE

Paving and road construction work, regardless of material used, including but not limited to preparation of job sites, removal of old surfaces, asphalt and/or concrete, by whatever method, including but not limited to milling; laying of concrete; laying of asphalt for temporary, patchwork, and utility paving (but not production paving); site preparation and incidental work before the installation of rubberized materials and similar surfaces; installation and repair of temporary construction fencing; slurry seal coating, maintenance of safety surfaces; play equipment installation, and other related work.

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$40.32**

Supplemental Benefit Rate per Hour: **\$35.15**

### **Production Paver & Roadbuilder - Screed Person**

(Production paving is asphalt paving when using a paving machine or on a project where a paving machine is traditionally used)

Adjustment of paving machinery on production paving jobs.

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$45.24**

Supplemental Benefit Rate per Hour: **\$35.15**

### **Production Paver & Roadbuilder - Raker**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$44.73**

Supplemental Benefit Rate per Hour: **\$35.15**

### **Production Paver & Roadbuilder - Shoveler**

General laborer (except removal of surfaces - see Paver and Roadbuilder-Laborer) including but not limited to tamper, AC paint and liquid tar work.

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$41.44**

Supplemental Benefit Rate per Hour: **\$35.15**

### **Overtime Description**

Veteran's Day is a Paid Holiday for employees working on production paving.

If an employee works New Year's Day or Christmas Day, they receive the single time rate plus 25%.

Employees who work on a holiday listed below receive the straight time rate plus one day's pay for the holiday.

### **Overtime**

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

### **Paid Holidays**

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Memorial Day  
Independence Day  
Labor Day  
Presidential Election Day  
Thanksgiving Day

## Shift Rates

When two shifts are employed, the work period for each shift shall be a continuous eight (8) hours. When three shifts are employed, each shift will work seven and one half (7 ½) hours but will be paid for eight (8) hours since only one half (1/2) hour is allowed for meal time.

When two or more shifts are employed, single time will be paid for each shift.

Night Work - On night work, the first eight (8) hours of work will be paid for at the single time rate, except that production paving work shall be paid at 15% over the single time rate for the screed person, rakers and shovelers directly involved only. All other workers will be exempt. Hours worked over eight (8) hours during said shift shall be paid for at the time and one-half rate.

(Local #1010)

## PLASTERER

### Plasterer

Effective Period: 7/1/2014 – 1/4//2015

Wage Rate per Hour: **\$42.43**

Supplemental Benefit Rate per Hour: **\$27.95**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$42.93**

Supplemental Benefit Rate per Hour: **\$27.95**

### Overtime

Time and one half the regular rate after a 7 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Saturday may be used as a make-up day at straight time when a day is lost during that week to inclement weather.

### Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day

Martin Luther King Jr. Day

President's Day

Good Friday

Memorial Day

Independence Day

Labor Day

Columbus Day

Presidential Election Day

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
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Thanksgiving Day  
Christmas Day

## **Paid Holidays**

None

## **Shift Rates**

When it is not possible to conduct alteration work during regular work hours, in a building occupied by tenants, said work shall proceed on a shift basis: however work over seven (7) hours in any twenty four (24) hour period, the time after seven (7) hours shall be considered overtime.

The second shift shall start at a time between 3:30 p.m. and 7:00 p.m. and shall consist of seven (7) working hours and shall receive eight (8) hours of wages and benefits at the straight time rate. The workers on the second shift shall be allowed one-half (½) hour to eat with this time being included in the seven (7) hours of work.

(Local #530)

## **PLASTERER - TENDER**

### **Plasterer - Tender**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$35.53**

Supplemental Benefit Rate per Hour: **\$26.31**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$36.47**

Supplemental Benefit Rate per Hour: **\$27.27**

### **Overtime**

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Saturday may be used as a make-up day at straight time when a day is lost during that week to inclement weather.

### **Overtime Holidays**

Double time the regular rate for work on the following holiday(s).

New Year's Day

Washington's Birthday

Memorial Day

Independence Day

Labor Day

Presidential Election Day

Thanksgiving Day

Christmas Day

## **Paid Holidays**



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None

## Shift Rates

When work commences outside regular work hours, workers receive an hour additional (differential) wage and supplement payment. Eight hours pay for seven hours work or nine hours pay for eight hours work.

(Mason Tenders District Council)

## PLUMBER

### Plumber

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$65.27**

Supplemental Benefit Rate per Hour: **\$25.78**

Supplemental Note: Overtime supplemental benefit rate per hour: \$51.28

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$65.27**

Supplemental Benefit Rate per Hour: **\$27.08**

Supplemental Note: Overtime supplemental benefit rate per hour: \$53.88

### Plumber - Temporary Services

Temporary Services - When there are no Plumbers on the job site, there may be three shifts designed to cover the entire twenty-four hour period, including weekends if necessary, at the following rate straight time.

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$52.24**

Supplemental Benefit Rate per Hour: **\$20.20**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$52.24**

Supplemental Benefit Rate per Hour: **\$21.24**

### Overtime Description

Double time the regular rate after a 7 hour day - unless for new construction site work where the plumbing contract price is \$1.5 million or less, the hours of labor can be 8 hours per day at the employers option. On Alteration jobs when other mechanical trades at the site are working an eighth hour at straight time, then the plumber shall also work an eighth hour at straight time.

### Overtime

Double time the regular time rate for Saturday.

Double time the regular rate for Sunday.

### Overtime Holidays

Double time the regular rate for work on the following holiday(s).

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New Year's Day  
President's Day  
Memorial Day  
Independence Day  
Labor Day  
Columbus Day  
Veteran's Day  
Thanksgiving Day  
Day after Thanksgiving  
Christmas Day

## Shift Rates

Shift work, when directly specified in public agency or authority documents where plumbing contract is \$8 million or less, will be permitted. 30% shift premium shall be paid for wages and fringe benefits for 4:00 pm and midnight shifts Monday to Friday. 50% shift premium shall be paid for wages and fringe benefits for 4:00 pm and midnight shift work performed on weekends. For shift work on holidays, double time wages and fringe benefits shall be paid.

(Plumbers Local #1)

## PLUMBER (MECHANICAL EQUIPMENT AND SERVICE) (Mechanical Equipment and Service work shall include any repair and/or replacement of the present plumbing system.)

### Plumber

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$38.27**

Supplemental Benefit Rate per Hour: **\$12.84**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$38.77**

Supplemental Benefit Rate per Hour: **\$13.34**

### Overtime

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Time and one half the regular rate for Sunday.

### Overtime Holidays

Time and one half the regular rate for work on the following holiday(s).

New Year's Day  
President's Day  
Memorial Day  
Independence Day  
Thanksgiving Day  
Day after Thanksgiving

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
§220 PREVAILING WAGE SCHEDULE

Christmas Day

**Paid Holidays**

None

(Plumbers Local # 1)

**PLUMBER (RESIDENTIAL RATES FOR 1, 2 AND 3 FAMILY HOME CONSTRUCTION)**

Effective Period: 7/1/2014 – 1/4/2015

Wage Rate per Hour: **\$45.19**

Supplemental Benefit Rate per Hour: **\$18.79**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$45.19**

Supplemental Benefit Rate per Hour: **\$19.70**

**Overtime**

Double time the regular rate after an 8 hour day.

Double time the regular time rate for Saturday.

Double time the regular rate for Sunday.

**Overtime Holidays**

Double time the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

**Paid Holidays**

None

**Shift Rates**

30% shift premium shall be paid for wages and fringe benefits for 4:00 pm and midnight shifts Monday to Friday.

50% shift premium shall be paid for wages and fringe benefits for 4:00 pm and midnight shift work performed on weekends. For shift work on holidays, double time wages and fringe benefits shall be paid.

(Plumbers Local #1)

**PLUMBER: PUMP & TANK**  
**Oil Trades (Installation and Maintenance)**

**Plumber - Pump & Tank**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$62.83**

Supplemental Benefit Rate per Hour: **\$21.37**

**Overtime**

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Time and one half the regular rate for Sunday.

**Overtime Holidays**

Time and one half the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

**Paid Holidays**

None

**Shift Rates**

All work outside the regular workday (8:00 A.M. to 3:30 P.M.) is to be paid at time and one half the regular hourly rate

(Plumbers Local #1)

**POINTER - WATERPROOFER, CAULKER MECHANIC (EXTERIOR BUILDING RENOVATION)**

**Pointer - Waterproofer, Caulker Mechanic**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$47.41**

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Supplemental Benefit Rate per Hour: **\$24.40**

### **Overtime**

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Time and one half the regular rate for Sunday.

Saturday may be used as a make-up day at straight time when a day is lost during that week to inclement weather.

### **Overtime Holidays**

Time and one half the regular rate for work on the following holiday(s).

New Year's Day

Martin Luther King Jr. Day

President's Day

Memorial Day

Independence Day

Labor Day

Thanksgiving Day

Christmas Day

### **Paid Holidays**

None

### **Shift Rates**

All work outside the regular work day (an eight hour workday between the hours of 6:00 A.M. and 4:30 P.M.) is to be paid at time and one half the regular rate.

(Bricklayer District Council)

## **ROOFER**

### **Roofer**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$40.70**

Supplemental Benefit Rate per Hour: **\$28.67**

### **Overtime**

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Time and one half the regular rate for Sunday.

### **Overtime Holidays**

Time and one half the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Memorial Day

Independence Day

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Labor Day  
Presidential Election Day  
Thanksgiving Day  
Christmas Day

**Paid Holidays**

None

**Shift Rates**

Second shift - Regular hourly rate plus a 10% differential. Third shift - Regular hourly rate plus a 15% differential.

(Local #8)

**SANDBLASTER - STEAMBLASTER  
(Exterior Building Renovation)**

**Sandblaster / Steamblaster**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$47.41**

Supplemental Benefit Rate per Hour: **\$24.40**

**Overtime**

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Time and one half the regular rate for Sunday.

Saturday may be used as a make-up day at straight time when a day is lost during that week to inclement weather.

**Overtime Holidays**

Time and one half the regular rate for work on the following holiday(s).

New Year's Day

Martin Luther King Jr. Day

President's Day

Memorial Day

Independence Day

Labor Day

Thanksgiving Day

Christmas Day

**Paid Holidays**

None

**Shift Rates**

All work outside the regular work day (an eight hour workday between the hours of 6:00 A.M. and 4:30 P.M.) is to be paid at time and one half the regular rate.

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(Bricklayer District Council)

## **SHEET METAL WORKER**

### **Sheet Metal Worker**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$46.21**

Supplemental Benefit Rate per Hour: **\$43.89**

Supplemental Note: Supplemental benefit contributions are to be made at the applicable overtime rates.

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$46.96**

Supplemental Benefit Rate per Hour: **\$45.19**

Supplemental Note: Supplemental benefit contributions are to be made at the applicable overtime rates.

### **Sheet Metal Worker - Fan Maintenance**

(The temporary operation of fans or blowers in new or existing buildings for heating and/or ventilation, and/or air conditioning prior to the completion of the project.)

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$36.97**

Supplemental Benefit Rate per Hour: **\$43.89**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$37.57**

Supplemental Benefit Rate per Hour: **\$45.19**

### **Sheet Metal Worker - Duct Cleaner**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$12.90**

Supplemental Benefit Rate per Hour: **\$8.07**

### **Overtime**

Time and one half the regular rate after a 7 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

### **Overtime Holidays**

Double time the regular rate for work on the following holiday(s).

New Year's Day

Martin Luther King Jr. Day

President's Day

Memorial Day

Independence Day

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Labor Day  
Columbus Day  
Veteran's Day  
Thanksgiving Day  
Day after Thanksgiving  
Christmas Day

### **Paid Holidays**

None

### **Shift Rates**

Work that can only be performed outside regular working hours (seven hours of work between 7:30 A.M. and 3:30 P.M.) - First shift (work between 3:30 P.M. and 11:30 P.M.) - 10% differential above the established hourly rate.  
Second shift (work between 11:30 P.M. and 7:30 A.M.) - 15% differential above the established hourly rate.

For Fan Maintenance: On all full shifts of fan maintenance work the straight time hourly rate of pay will be paid for each shift, including nights, Saturdays, Sundays, and holidays.

(Local #28)

## **SHEET METAL WORKER - SPECIALTY (Decking & Siding)**

### **Sheet Metal Specialty Worker**

The first worker to perform this work must be paid at the rate of the Sheet Metal Worker. The second and third workers shall be paid the Specialty Worker Rate. The ratio of One Sheet Metal Worker, then Two Specialty Workers shall be utilized thereafter.

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$40.78**

Supplemental Benefit Rate per Hour: **\$23.38**

Supplemental Note: Supplemental benefit contributions are to be made at the applicable overtime rates.

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$42.64**

Supplemental Benefit Rate per Hour: **\$23.62**

Supplemental Note: Supplemental benefit contributions are to be made at the applicable overtime rates.

### **Overtime**

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

### **Overtime Holidays**

Double time the regular rate for work on the following holiday(s).

New Year's Day



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Martin Luther King Jr. Day  
President's Day  
Memorial Day  
Independence Day  
Labor Day  
Columbus Day  
Veteran's Day  
Thanksgiving Day  
Christmas Day

**Paid Holidays**

None

(Local #28)

**SHIPYARD WORKER**

**Shipyard Mechanic - First Class**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$23.83**

Supplemental Benefit Rate per Hour: **\$2.87**

**Shipyard Mechanic - Second Class**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$15.44**

Supplemental Benefit Rate per Hour: **\$2.54**

**Shipyard Laborer - First Class**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$19.28**

Supplemental Benefit Rate per Hour: **\$2.69**

**Shipyard Laborer - Second Class**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$12.36**

Supplemental Benefit Rate per Hour: **\$2.43**

**Shipyard Dockhand - First Class**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$22.68**

Supplemental Benefit Rate per Hour: **\$2.82**

## **Shipyard Dockhand - Second Class**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$14.22**

Supplemental Benefit Rate per Hour: **\$2.50**

### **Overtime Description**

Work performed on holiday is paid double time the regular hourly wage rate plus holiday pay.

### **Overtime**

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Time and one half the regular hourly rate after 40 hours in any work week.

### **Paid Holidays**

New Year's Day

Martin Luther King Jr. Day

President's Day

Good Friday

Memorial Day

Independence Day

Labor Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

Based on Survey Data

## **SIGN ERECTOR**

**(Sheet Metal, Plastic, Electric, and Neon)**

### **Sign Erector**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$44.20**

Supplemental Benefit Rate per Hour: **\$44.10**

### **Overtime**

Time and one half the regular rate after a 7 hour day.

Time and one half the regular rate for Saturday.

Time and one half the regular rate for Sunday.

Time and one half the regular rate for work on the following holiday(s).

### **Paid Holidays**

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New Year's Day  
Washington's Birthday  
Memorial Day  
Independence Day  
Labor Day  
Columbus Day  
Election Day  
Thanksgiving Day  
Day after Thanksgiving  
Christmas Day

## Shift Rates

Time and one half the regular hourly rate is to be paid for all hours worked outside the regular workday either (7:00 A.M. through 2:30 P.M.) or (8:00 A.M. through 3:30 P.M.)

(Local #137)

## STEAMFITTER

### Steamfitter I

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$53.25**

Supplemental Benefit Rate per Hour: **\$51.04**

Supplemental Note: Overtime supplemental benefit rate: \$101.34

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$54.50**

Supplemental Benefit Rate per Hour: **\$52.04**

Supplemental Note: Overtime supplemental benefit rate: \$103.34

### Overtime

Double time the regular rate after a 7 hour day.

Double time the regular time rate for Saturday.

Double time the regular rate for Sunday.

### Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day  
President's Day  
Memorial Day  
Independence Day  
Labor Day  
Columbus Day  
Veteran's Day  
Thanksgiving Day  
Day after Thanksgiving  
Christmas Day

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## **Paid Holidays**

None

## **Shift Rates**

Work performed between 3:30 P.M. and 7:00 A.M. and on Saturdays, Sundays and Holidays shall be at double time the regular hourly rate and paid at the overtime supplemental benefit rate above.

## **Steamfitter II**

For heating, ventilation, air conditioning and mechanical public works contracts with a dollar value not to exceed \$15,000,000 and for fire protection/sprinkler public works contracts not to exceed \$1,500,000.

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$53.25**

Supplemental Benefit Rate per Hour: **\$51.04**

Supplemental Note: Overtime supplemental benefit rate: \$101.34

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$54.50**

Supplemental Benefit Rate per Hour: **\$52.04**

Supplemental Note: Overtime supplemental benefit rate: \$103.34

## **Overtime**

Double time the regular rate after an 8 hour day.

Double time the regular time rate for Saturday.

Double time the regular rate for Sunday.

## **Overtime Holidays**

Double time the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

## **Paid Holidays**

None

## **Shift Rates**

May be performed outside of the regular workday except Saturday, Sunday and Holidays. A shift shall consist of eight working hours. All work performed in excess of eight hours shall be paid at double time. No shift shall commence after 7:00 P.M. on Friday or 7:00 P.M. the day before holidays. All work performed after 12:01 A.M.

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Saturday or 12:01 A.M. the day before a Holiday will be paid at double time. When shift work is performed the wage rate for regular time worked is a thirty percent premium together with fringe benefits.

On Transit Authority projects, where work is performed in the vicinity of tracks all shift work on weekends and holidays may be performed at the regular shift rates.

Local #638

## **STEAMFITTER - REFRIGERATION AND AIR CONDITIONER (Maintenance and Installation Service Person)**

### **Refrigeration and Air Conditioner Mechanic**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$38.30**

Supplemental Benefit Rate per Hour: **\$12.76**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$38.80**

Supplemental Benefit Rate per Hour: **\$13.51**

### **Refrigeration and Air Conditioner Service Person V**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$31.47**

Supplemental Benefit Rate per Hour: **\$11.55**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$31.88**

Supplemental Benefit Rate per Hour: **\$12.19**

### **Refrigeration and Air Conditioner Service Person IV**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$26.07**

Supplemental Benefit Rate per Hour: **\$10.52**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$26.41**

Supplemental Benefit Rate per Hour: **\$11.08**

### **Refrigeration and Air Conditioner Service Person III**

Filter changing and maintenance thereof, oil and greasing, tower and coil cleaning, scraping and painting, general housekeeping, taking of water samples.

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Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$22.38**

Supplemental Benefit Rate per Hour: **\$9.76**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$22.67**

Supplemental Benefit Rate per Hour: **\$10.26**

## **Refrigeration and Air Conditioner Service Person II**

Filter changing and maintenance thereof, oil and greasing, tower and coil cleaning, scraping and painting, general housekeeping, taking of water samples.

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$18.56**

Supplemental Benefit Rate per Hour: **\$9.06**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$18.80**

Supplemental Benefit Rate per Hour: **\$9.50**

## **Refrigeration and Air Conditioner Service Person I**

Filter changing and maintenance thereof, oil and greasing, tower and coil cleaning, scraping and painting, general housekeeping, taking of water samples.

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$13.57**

Supplemental Benefit Rate per Hour: **\$8.30**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$13.75**

Supplemental Benefit Rate per Hour: **\$8.66**

## **Overtime**

Time and one half the regular rate after an 8 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

## **Overtime Holidays**

Double time the regular rate for work on the following holiday(s).

New Year's Day

Independence Day

Labor Day

Veteran's Day

Thanksgiving Day

Christmas Day

Double time and one half the regular rate for work on the following holiday(s).

Martin Luther King Jr. Day

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President's Day  
Memorial Day  
Columbus Day

**Paid Holidays**

New Year's Day  
Martin Luther King Jr. Day  
President's Day  
Memorial Day  
Independence Day  
Labor Day  
Columbus Day  
Veteran's Day  
Thanksgiving Day  
Christmas Day

(Local #638B)

**STONE MASON - SETTER**

**Stone Mason - Setters**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$46.56**

Supplemental Benefit Rate per Hour: **\$36.40**

**Overtime**

Time and one half the regular rate after a 7 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

**Overtime Holidays**

Double time the regular rate for work on the following holiday(s).

New Year's Day  
Washington's Birthday  
Good Friday  
Memorial Day  
Independence Day  
Labor Day  
Thanksgiving Day  
Christmas Day

**Paid Holidays**

1/2 day on Christmas Eve if work is performed in the A.M.

**Shift Rates**

For all work outside the regular workday (8:00 A.M. to 3:30 P.M. Monday through Friday), the pay shall be straight time plus a ten percent (10%) differential.

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(Bricklayers District Council)

## TAPER

### Drywall Taper

Effective Period: 7/1/2014 - 12/30/2014

Wage Rate per Hour: **\$45.32**

Supplemental Benefit Rate per Hour: **\$22.66**

Effective Period: 12/31/2014 - 6/30/2015

Wage Rate per Hour: **\$45.82**

Supplemental Benefit Rate per Hour: **\$22.66**

### Overtime

Time and one half the regular rate after a 7 hour day.

Time and one half the regular rate for Saturday.

Time and one half the regular rate for Sunday.

### Overtime Holidays

Time and one half the regular rate for work on the following holiday(s).

New Year's Day

Martin Luther King Jr. Day

President's Day

Good Friday

Memorial Day

Independence Day

Labor Day

Columbus Day

Thanksgiving Day

Christmas Day

### Paid Holidays

Any worker who reports to work on Christmas Eve or New Year's Eve pursuant to his employer's instruction shall be entitled to three (3) hours afternoon pay without working.

### Shift Rates

Time and one half the regular rate outside the regular work hours (8:00 A.M. through 3:30 P.M.)

(Local #1974)

## TELECOMMUNICATION WORKER (Voice Installation Only)



OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
§220 PREVAILING WAGE SCHEDULE

**Telecommunication Worker**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$39.18**

Supplemental Benefit Rate per Hour: **\$13.19**

Supplemental Note: The above rate applies for Manhattan, Bronx, Brooklyn, Queens. \$12.64 for Staten Island only.

**Overtime**

Time and one half the regular rate after a 7 hour day.

Time and one half the regular rate for Saturday.

Time and one half the regular rate for Sunday.

**Overtime Holidays**

Time and one half the regular rate for work on the following holiday(s).

New Year's Day

Lincoln's Birthday

Washington's Birthday

Memorial Day

Independence Day

Labor Day

Columbus Day

Election Day

Veteran's Day

Thanksgiving Day

Christmas Day

**Paid Holidays**

New Year's Day

Lincoln's Birthday

Washington's Birthday

Memorial Day

Independence Day

Labor Day

Columbus Day

Election Day

Veteran's Day

Thanksgiving Day

Christmas Day

Employees have the option of observing either Martin Luther King's Birthday or the day after Thanksgiving instead of Lincoln's Birthday

**Shift Rates**

For any workday that starts before 8A.M. or ends after 6P.M. there is a 10% differential for the applicable worker's hourly rate.

**Vacation**

After 6 months.....one week.

After 12 months but less than 7 years.....two weeks.

After 7 or more but less than 15 years.....three weeks.

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
§220 PREVAILING WAGE SCHEDULE

After 15 years or more but less than 25 years.....four weeks.

(C.W.A.)

## TILE FINISHER

### Tile Finisher

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$38.80**

Supplemental Benefit Rate per Hour: **\$28.03**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$39.39**

Supplemental Benefit Rate per Hour: **\$28.97**

### Overtime

Time and one half the regular rate after a 7 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

### Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Good Friday

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

### Paid Holidays

None

### Shift Rates

Off shift work day (work performed outside the regular 8:00 A.M. to 3:30 P.M. workday): shift differential of one and one quarter (1¼) times the regular straight time rate of pay for the seven hours of actual off-shift work.

(Local #7)

## TILE LAYER - SETTER

### Tile Layer - Setter

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$49.88**

Supplemental Benefit Rate per Hour: **\$32.36**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$50.63**

Supplemental Benefit Rate per Hour: **\$32.63**

### Overtime

Time and one half the regular rate after a 7 hour day.

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

### Overtime Holidays

Double time the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Good Friday

Memorial Day

Independence Day

Labor Day

Columbus Day

Veteran's Day

Thanksgiving Day

Day after Thanksgiving

Christmas Day

### Shift Rates

Off shift work day (work performed outside the regular 8:00 A.M. to 3:30 P.M. workday): shift differential of one and one quarter (1¼) times the regular straight time rate of pay for the seven hours of actual off-shift work.

(Local #7)

## TIMBERPERSON

### Timberperson

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$44.33**

Supplemental Benefit Rate per Hour: **\$45.39**

### Overtime

Time and one half the regular rate after an 8 hour day.

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
§220 PREVAILING WAGE SCHEDULE

Time and one half the regular rate for Saturday.

Double time the regular rate for Sunday.

Saturday may be used as a make-up day at straight time when a day is lost during that week to inclement weather.

Time and one half the regular hourly rate after 40 hours in any work week.

### **Overtime Holidays**

Double time the regular rate for work on the following holiday(s).

New Year's Day

President's Day

Memorial Day

Independence Day

Labor Day

Columbus Day

Presidential Election Day

Thanksgiving Day

Christmas Day

### **Paid Holidays**

None

### **Shift Rates**

Off shift work commencing between 5:00 P.M. and 11:00 P.M. shall work eight and one half hours allowing for one half hour for lunch. The wage rate shall be 113% of the straight time hourly wage rate.

(Local #1536)

## **TUNNEL WORKER**

### **Blasters, Mucking Machine Operators (Compressed Air Rates)**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$54.20**

Supplemental Benefit Rate per Hour: **\$48.20**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$56.99**

Supplemental Benefit Rate per Hour: **\$48.55**

### **Tunnel Workers (Compressed Air Rates)**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$52.31**

Supplemental Benefit Rate per Hour: **\$46.59**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$55.01**

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
§220 PREVAILING WAGE SCHEDULE

Supplemental Benefit Rate per Hour: **\$46.93**

**Top Nipper (Compressed Air Rates)**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$51.35**

Supplemental Benefit Rate per Hour: **\$45.78**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$54.00**

Supplemental Benefit Rate per Hour: **\$46.12**

**Outside Lock Tender, Outside Gauge Tender, Muck Lock Tender (Compressed Air Rates)**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$50.42**

Supplemental Benefit Rate per Hour: **\$44.91**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$53.02**

Supplemental Benefit Rate per Hour: **\$45.24**

**Bottom Bell & Top Bell Signal Person: Shaft Person (Compressed Air Rates)**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$50.42**

Supplemental Benefit Rate per Hour: **\$44.91**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$53.02**

Supplemental Benefit Rate per Hour: **\$45.24**

**Changehouse Attendant: Powder Watchperson (Compressed Air Rates)**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$43.94**

Supplemental Benefit Rate per Hour: **\$42.55**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$46.31**

Supplemental Benefit Rate per Hour: **\$42.86**

**Blasters (Free Air Rates)**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$51.72**

Supplemental Benefit Rate per Hour: **\$46.03**

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
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Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$54.38**  
Supplemental Benefit Rate per Hour: **\$46.62**

**Tunnel Workers (Free Air Rates)**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$49.48**  
Supplemental Benefit Rate per Hour: **\$44.06**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$52.04**  
Supplemental Benefit Rate per Hour: **\$44.63**

**All Others (Free Air Rates)**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$45.73**  
Supplemental Benefit Rate per Hour: **\$40.75**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$48.08**  
Supplemental Benefit Rate per Hour: **\$41.31**

**Microtunneling (Free Air Rates)**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$39.58**  
Supplemental Benefit Rate per Hour: **\$35.25**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$41.63**  
Supplemental Benefit Rate per Hour: **\$35.71**

**Overtime Description**

For Repair-Maintenance Work on Existing Equipment and Facilities - Time and one half the regular rate after a 7 hour day, or for Saturday, or for Sunday. Double time the regular rate for work on a holiday.  
For Small-Bore Micro Tunneling Machines - Time and one-half the regular rate shall be paid for all overtime.

**Overtime**

Double time the regular rate after an 8 hour day.  
Double time the regular time rate for Saturday.  
Double time the regular rate for Sunday.  
Double time the regular rate for work on the following holiday(s).

**Paid Holidays**

New Year's Day  
Lincoln's Birthday

OFFICE OF THE COMPTROLLER, CITY OF NEW YORK  
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President's Day  
Memorial Day  
Independence Day  
Labor Day  
Columbus Day  
Election Day  
Veteran's Day  
Thanksgiving Day  
Christmas Day

(Local #147)

**WELDER**

**TO BE PAID AT THE RATE OF THE JOURNEYPERSON IN THE TRADE  
PERFORMING THE WORK.**

## OFFICE OF THE COMPTROLLER

### CITY OF NEW YORK

## 220 APPRENTICESHIP PREVAILING WAGE SCHEDULE

### APPENDIX

Pursuant to Labor Law §220 (3-e), only apprentices who are individually registered in a bona fide program to which the employer contractor is a participant and registered with the New York State Department of Labor, may be employed on a public work project.

Any employee listed on a payroll at an apprentice wage rate, who is not registered as above, shall be paid the journey person wage rate for the classification of work he actually performed.

Apprentice ratios are established to ensure the proper safety, training and supervision of apprentices. A ratio establishes the number of journey workers required for each apprentice in a program and on a job site. Ratios are interpreted as follows: in the case of a 1:1, 1:4 ratio, there must be one journey worker for the first apprentice, and four additional journey workers for each subsequent apprentice.



APPRENTICESHIP SCHEDULE OF PREVAILING WAGES AND SUPPLEMENTAL BENEFITS ADDENDUM  
EFFECTIVE PERIOD JANUARY 5, 2015 THROUGH JUNE 30, 2015

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List of Amended Classifications

1. ASBESTOS HANDLER
2. BOILERMAKER
3. ENGINEER
4. ENGINEER - OPERATING
5. HOUSE WRECKER
6. MASON TENDER
7. METALLIC LATHER
8. PLUMBER
9. SHEET METAL WORKER

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## **ASBESTOS HANDLER**

**(Ratio of Apprentice Journeyman: 1 to 1, 1 to 3)**

### **Asbestos Handler (First 1000 Hours)**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 78% of Journeyman's rate  
Supplemental Benefit Rate Per Hour: \$15.45  
Effective 1/5/2015 - Supplemental Benefit Rate Per Hour: \$15.95

### **Asbestos Handler (Second 1000 Hours)**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 80% of Journeyman's rate  
Supplemental Benefit Rate Per Hour: \$15.45  
Effective 1/5/2015 - Supplemental Benefit Rate Per Hour: \$15.95

### **Asbestos Handler (Third 1000 Hours)**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 83% of Journeyman's rate  
Supplemental Benefit Rate Per Hour: \$15.45  
Effective 1/5/2015 - Supplemental Benefit Rate Per Hour: \$15.95

### **Asbestos Handler (Fourth 1000 Hours)**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 89% of Journeyman's rate  
Supplemental Benefit Rate Per Hour: \$15.45  
Effective 1/5/2015 - Supplemental Benefit Rate Per Hour: \$15.95

(Local #78)

## **BOILERMAKER**

**(Ratio of Apprentice to Journeyman: 1 to 1, 1 to 3)**

### **Boilermaker (First Year)**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate Per Hour: 65% of Journeyman's rate  
Supplemental Benefit Rate Per Hour: \$29.74

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate Per Hour: 65% of Journeyman's rate

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Supplemental Benefit Rate Per Hour: \$30.00

**Boilermaker (Second Year: 1st Six Months)**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate Per Hour: 70% of Journeyperson's rate  
Supplemental Benefit Rate Per Hour: \$31.40

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate Per Hour: 70% of Journeyperson's rate  
Supplemental Benefit Rate Per Hour: \$31.66

**Boilermaker (Second Year: 2nd Six Months)**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate Per Hour: 75% of Journeyperson's rate  
Supplemental Benefit Rate Per Hour: \$33.05

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate Per Hour: 75% of Journeyperson's rate  
Supplemental Benefit Rate Per Hour: \$33.32

**Boilermaker (Third Year: 1st Six Months)**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate Per Hour: 80% of Journeyperson's rate  
Supplemental Benefit Rate Per Hour: \$34.69

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate Per Hour: 80% of Journeyperson's rate  
Supplemental Benefit Rate Per Hour: \$35.00

**Boilermaker (Third Year: 2nd Six Months)**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate Per Hour: 85% of Journeyperson's rate  
Supplemental Benefit Rate Per Hour: \$36.34

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate Per Hour: 85% of Journeyperson's rate  
Supplemental Benefit Rate Per Hour: \$36.67

**Boilermaker (Fourth Year: 1st Six Months)**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate Per Hour: 90% of Journeyperson's rate  
Supplemental Benefit Rate Per Hour: \$38.00

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate Per Hour: 90% of Journeyperson's rate  
Supplemental Benefit Rate Per Hour: \$38.34

**Boilermaker (Fourth Year: 2nd Six Months)**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate Per Hour: 95% of Journeyperson's rate  
Supplemental Benefit Rate Per Hour: \$39.65

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate Per Hour: 95% of Journeyperson's rate  
Supplemental Benefit Rate Per Hour: \$40.01

(Local #5)

**BRICKLAYER**

**(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 4)**

**Bricklayer (First 750 Hours)**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 50% of Journeyperson's rate  
Supplemental Benefit Rate Per Hour: \$17.10

**Bricklayer (Second 750 Hours)**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 60% of Journeyperson's rate  
Supplemental Benefit Rate Per Hour: \$17.10

**Bricklayer (Third 750 Hours)**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 70% of Journeyperson's rate  
Supplemental Benefit Rate Per Hour: \$17.10

**Bricklayer (Fourth 750 Hours)**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 80% of Journeyperson's rate  
Supplemental Benefit Rate Per Hour: \$17.10

**Bricklayer (Fifth 750 Hours)**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 90% of Journeyperson's rate  
Supplemental Benefit Rate Per Hour: \$17.10

**Bricklayer (Sixth 750 Hours)**

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Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 95% of Journeyman's rate  
Supplemental Benefit Rate Per Hour: \$17.10

(Bricklayer District Council)

**CARPENTER**  
(Ratio of Apprentice to Journeyman: 1 to 1, 1 to 4)

**Carpenter (First Year)**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 40% of Journeyman's rate  
Supplemental Benefit Rate Per Hour: \$30.25

**Carpenter (Second Year)**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 50% of Journeyman's rate  
Supplemental Benefit Rate Per Hour: \$30.25

**Carpenter (Third Year)**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 65% of Journeyman's rate  
Supplemental Benefit Rate Per Hour: \$30.25

**Carpenter (Fourth Year)**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 80% of Journeyman's rate  
Supplemental Benefit Rate Per Hour: \$30.25

(Carpenters District Council)

**CEMENT MASON**  
(Ratio of Apprentice to Journeyman: 1 to 1, 1 to 4)

**Cement Mason (First Year)**

Effective Period: 7/1/2014 - 6/30/2015

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Wage and Supplemental Rate Per Hour: 50% of Journeyperson's Rate

**Cement Mason (Second Year)**

Effective Period: 7/1/2014 - 6/30/2015

Wage and Supplemental Rate Per Hour: 60% of Journeyperson's Rate

**Cement Mason (Third Year)**

Effective Period: 7/1/2014 - 6/30/2015

Wage and Supplemental Rate Per Hour: 70% of Journeyperson's Rate

(Local #780)

**CEMENT AND CONCRETE WORKER**  
**(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 3)**

**Cement & Concrete Worker (0 - 500 hours)**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate Per Hour: 50% of Journeyperson's rate

Supplemental Benefit Rate Per Hour: \$18.04

**Cement & Concrete Worker (501 - 1000 hours)**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate Per Hour: 65% of Journeyperson's rate

Supplemental Benefit Rate Per Hour: \$18.87

**Cement & Concrete Worker (1001 - 2000 hours)**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate Per Hour: 65% of Journeyperson's rate

Supplemental Benefit Rate Per Hour: \$24.25

**Cement & Concrete Worker (2001 - 4000 hours)**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate Per Hour: 80% of Journeyperson's rate

Supplemental Benefit Rate Per Hour: \$25.07

(Cement Concrete Workers District Council)

**DERRICKPERSON & RIGGER (STONE)**  
**(Ratio of Apprentice to Journeyman: 1 to 1, 1 to 4)**

**Derrickperson & Rigger (stone) - First Year**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 50% of Journeyman's rate  
Supplemental Benefit Rate Per Hour: 50% of Journeyman's rate

**Derrickperson & Rigger (stone) - Second Year: 1st Six Months**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 70% of Journeyman's rate  
Supplemental Benefit Rate Per Hour: 75% of Journeyman's rate

**Derrickperson & Rigger (stone) - Second Year: 2nd Six Months**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 80% of Journeyman's rate  
Supplemental Benefit Rate Per Hour: 75% of Journeyman's rate

**Derrickperson & Rigger (stone) - Third Year**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 90% of Journeyman's rate  
Supplemental Benefit Rate Per Hour: 75% of Journeyman's rate

(Local #197)

**DOCKBUILDER/PILE DRIVER**  
**(Ratio of Apprentice to Journeyman: 1 to 1, 1 to 6)**

**Dockbuilder/Pile Driver (First Year)**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 40% of Journeyman's rate  
Supplemental Benefit Rate Per Hour: \$31.26

**Dockbuilder/Pile Driver (Second Year)**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 50% of Journeyman's rate  
Supplemental Benefit Rate Per Hour: \$31.26



**Dockbuilder/Pile Driver (Third Year)**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 65% of Journeyperson's rate  
Supplemental Benefit Rate Per Hour: \$31.26

**Dockbuilder/Pile Driver (Fourth Year)**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 80% of Journeyperson's rate  
Supplemental Benefit Rate Per Hour: \$31.26

(Carpenters District Council)

**ELECTRICIAN**  
**(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 3)**

**Electrician (First Term: 0-6 Months)**

Effective Period: 7/1/2014 - 5/12/2015  
Wage Rate per Hour: **\$12.50**  
Supplemental Benefit Rate per Hour: **\$11.10**  
Overtime Supplemental Rate Per Hour: \$11.93

Effective Period: 5/13/2015 - 6/30/2015  
Wage Rate per Hour: **\$13.00**  
Supplemental Benefit Rate per Hour: **\$11.61**  
Overtime Supplemental Rate Per Hour: \$12.47

**Electrician (First Term: 7-12 Months)**

Effective Period: 7/1/2014 - 5/12/2015  
Wage Rate per Hour: **\$13.50**  
Supplemental Benefit Rate per Hour: **\$11.62**  
Overtime Supplemental Rate Per Hour: \$12.51

Effective Period: 5/13/2015 - 6/30/2015  
Wage Rate per Hour: **\$14.00**  
Supplemental Benefit Rate per Hour: **\$12.12**  
Overtime Supplemental Rate Per Hour: \$13.04

**Electrician (Second Term: 0-6 Months)**

Effective Period: 7/1/2014 - 5/12/2015  
Wage Rate per Hour: **\$14.50**

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Supplemental Benefit Rate per Hour: **\$12.13**  
Overtime Supplemental Rate Per Hour: **\$13.08**

Effective Period: 5/13/2015 - 6/30/2015

Wage Rate per Hour: **\$15.00**

Supplemental Benefit Rate per Hour: **\$12.63**  
Overtime Supplemental Rate Per Hour: **\$13.62**

**Electrician (Second Term: 7-12 Months)**

Effective Period: 7/1/2014 - 5/12/2015

Wage Rate per Hour: **\$15.50**

Supplemental Benefit Rate per Hour: **\$12.64**  
Overtime Supplemental Rate Per Hour: **\$13.66**

Effective Period: 5/13/2015 - 6/30/2015

Wage Rate per Hour: **\$16.00**

Supplemental Benefit Rate per Hour: **\$13.14**  
Overtime Supplemental Rate Per Hour: **\$14.19**

**Electrician (Third Term: 0-6 Months)**

Effective Period: 7/1/2014 - 5/12/2015

Wage Rate per Hour: **\$16.50**

Supplemental Benefit Rate per Hour: **\$13.15**  
Overtime Supplemental Rate Per Hour: **\$14.23**

Effective Period: 5/13/2015 - 6/30/2015

Wage Rate per Hour: **\$17.00**

Supplemental Benefit Rate per Hour: **\$13.65**  
Overtime Supplemental Rate Per Hour: **\$14.77**

**Electrician (Third Term: 7-12 Months)**

Effective Period: 7/1/2014 - 5/12/2015

Wage Rate per Hour: **\$17.50**

Supplemental Benefit Rate per Hour: **\$13.65**  
Overtime Supplemental Rate Per Hour: **\$14.81**

Effective Period: 5/13/2015 - 6/30/2015

Wage Rate per Hour: **\$18.00**

Supplemental Benefit Rate per Hour: **\$14.16**  
Overtime Supplemental Rate Per Hour: **\$15.34**

**Electrician (Fourth Term: 0-6 Months)**

Effective Period: 7/1/2014 - 5/12/2015

Wage Rate per Hour: **\$18.50**

Supplemental Benefit Rate per Hour: **\$14.16**  
Overtime Supplemental Rate Per Hour: **\$15.38**

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Effective Period: 5/13/2015 - 6/30/2015  
Wage Rate per Hour: **\$19.00**  
Supplemental Benefit Rate per Hour: **\$14.67**  
Overtime Supplemental Rate Per Hour: **\$15.92**

**Electrician (Fourth Term: 7-12 Months)**

Effective Period: 7/1/2014 - 5/12/2015  
Wage Rate per Hour: **\$20.50**  
Supplemental Benefit Rate per Hour: **\$15.18**  
Overtime Supplemental Rate Per Hour: **\$16.53**

Effective Period: 5/13/2015 - 6/30/2015  
Wage Rate per Hour: **\$21.00**  
Supplemental Benefit Rate per Hour: **\$15.68**  
Overtime Supplemental Rate Per Hour: **\$17.07**

**Electrician (Fifth Term: 0-12 Months - Hired on or after 5/10/07)**

Effective Period: 7/1/2014 - 5/12/2015  
Wage Rate per Hour: **\$22.50**  
Supplemental Benefit Rate per Hour: **\$18.06**  
Overtime Supplemental Rate Per Hour: **\$19.47**

Effective Period: 5/13/2015 - 6/30/2015  
Wage Rate per Hour: **\$23.00**  
Supplemental Benefit Rate per Hour: **\$18.56**  
Overtime Supplemental Rate Per Hour: **\$20.00**

**Electrician (Fifth Term: 13-18 Months - Hired on or after 5/10/07)**

Effective Period: 7/1/2014 - 5/12/2015  
Wage Rate per Hour: **\$27.00**  
Supplemental Benefit Rate per Hour: **\$20.32**  
Overtime Supplemental Rate Per Hour: **\$22.01**

Effective Period: 5/13/2015 - 6/30/2015  
Wage Rate per Hour: **\$27.50**  
Supplemental Benefit Rate per Hour: **\$20.82**  
Overtime Supplemental Rate Per Hour: **\$22.54**

**Electrician (Fifth Term: 0-18 Months - Hired before 5/10/07)**

Effective Period: 7/1/2014 - 5/12/2015  
Wage Rate per Hour: **\$26.30**  
Supplemental Benefit Rate per Hour: **\$19.96**  
Overtime Supplemental Rate Per Hour: **\$21.61**

Effective Period: 5/13/2015 - 6/30/2015

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Wage Rate per Hour: **\$26.80**

Supplemental Benefit Rate per Hour: **\$20.46**

Overtime Supplemental Rate Per Hour: **\$22.14**

### **Overtime Description**

Overtime Wage paid at time and one half the regular rate

For "A" rated Apprentices (work in excess of 7 hours per day)

For "M" rated Apprentices (work in excess of 8 hours per day)

(Local #3)

## **ELEVATOR CONSTRUCTOR**

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 2)

### **Elevator (Constructor) - First Year**

Effective Period: 7/1/2014 - 3/16/2015

Wage Rate Per Hour: 50% of Journeyperson's rate

Supplemental Rate Per Hour: **\$25.46**

Effective Period: 3/17/2015 - 6/30/2015

Wage Rate Per Hour: 50% of Journeyperson's rate

Supplemental Rate Per Hour: **\$26.94**

### **Elevator (Constructor) - Second Year**

Effective Period: 7/1/2014 - 3/16/2015

Wage Rate Per Hour: 55% of Journeyperson's rate

Supplemental Rate Per Hour: **\$25.86**

Effective Period: 3/17/2015 - 6/30/2015

Wage Rate Per Hour: 55% of Journeyperson's rate

Supplemental Rate Per Hour: **\$27.35**

### **Elevator (Constructor) - Third Year**

Effective Period: 7/1/2014 - 3/16/2015

Wage Rate Per Hour: 65% of Journeyperson's rate

Supplemental Rate Per Hour: **\$26.66**

Effective Period: 3/17/2015 - 6/30/2015

Wage Rate Per Hour: 65% of Journeyperson's rate

Supplemental Rate Per Hour: **\$28.17**

### **Elevator (Constructor) - Fourth Year**

Effective Period: 7/1/2014 - 3/16/2015

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Wage Rate Per Hour: 75% of Journeyperson's rate  
Supplemental Rate Per Hour: \$27.46

Effective Period: 3/17/2015 - 6/30/2015  
Wage Rate Per Hour: 75% of Journeyperson's rate  
Supplemental Rate Per Hour: \$29.00

(Local #1)

## **ELEVATOR REPAIR & MAINTENANCE (Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 2)**

### **Elevator Service/Modernization Mechanic (First Year)**

Effective Period: 7/1/2014 - 3/16/2015  
Wage Rate Per Hour: 50% of Journeyperson's rate  
Supplemental Benefit Per Hour: \$24.85

Effective Period: 3/17/2015 - 6/30/2015  
Wage Rate Per Hour: 50% of Journeyperson's rate  
Supplemental Benefit Per Hour: \$26.87

### **Elevator Service/Modernization Mechanic (Second Year)**

Effective Period: 7/1/2014 - 3/16/2015  
Wage Rate Per Hour: 55% of Journeyperson's rate  
Supplemental Benefit Per Hour: \$25.24

Effective Period: 3/17/2015 - 6/30/2015  
Wage Rate Per Hour: 55% of Journeyperson's rate  
Supplemental Benefit Per Hour: \$27.27

### **Elevator Service/Modernization Mechanic (Third Year)**

Effective Period: 7/1/2014 - 3/16/2015  
Wage Rate Per Hour: 65% of Journeyperson's rate  
Supplemental Benefit Per Hour: \$26.02

Effective Period: 3/17/2015 - 6/30/2015  
Wage Rate Per Hour: 65% of Journeyperson's rate  
Supplemental Benefit Per Hour: \$28.08

### **Elevator Service/Modernization Mechanic (Fourth Year)**

Effective Period: 7/1/2014 - 3/16/2015  
Wage Rate Per Hour: 75% of Journeyperson's rate  
Supplemental Benefit Per Hour: \$26.81

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Effective Period: 3/17/2015 - 6/30/2015  
Wage Rate Per Hour: 75% of Journeyperson's rate  
Supplemental Benefit Per Hour: \$28.89

(Local #1)

**ENGINEER**  
(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 5)

**Engineer - First Year**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: \$22.49  
Supplemental Benefit Rate per Hour: \$20.68

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: \$23.18  
Supplemental Benefit Rate per Hour: \$21.39

**Engineer - Second Year**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: \$28.11  
Supplemental Benefit Rate per Hour: \$20.68

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: \$28.98  
Supplemental Benefit Rate per Hour: \$21.39

**Engineer - Third Year**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: \$30.92  
Supplemental Benefit Rate per Hour: \$20.68

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: \$31.88  
Supplemental Benefit Rate per Hour: \$21.39

**Engineer - Fourth Year**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: \$33.73  
Supplemental Benefit Rate per Hour: \$20.68

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Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$34.78**  
Supplemental Benefit Rate per Hour: **\$21.39**

(Local #15)

**ENGINEER - OPERATING**  
(Ratio of Apprentice to Journeyman: 1 to 1, 1 to 5)

**Operating Engineer - First Year**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate Per Hour 40% of Journeyman's Rate  
Supplemental Benefit Per Hour: \$18.60

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate Per Hour 40% of Journeyman's Rate  
Supplemental Benefit Per Hour: \$19.35

**Operating Engineer - Second Year**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate Per Hour: 50% of Journeyman's Rate  
Supplemental Benefit Per Hour: \$18.60

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate Per Hour: 50% of Journeyman's Rate  
Supplemental Benefit Per Hour: \$19.35

**Operating Engineer - Third Year**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate Per Hour: 60% of Journeyman's Rate  
Supplemental Benefit Per Hour: \$18.60

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate Per Hour: 60% of Journeyman's Rate  
Supplemental Benefit Per Hour: \$19.35

(Local #14)

**FLOOR COVERER**  
(Ratio of Apprentice to Journeyman: 1 to 1, 1 to 4)

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**Floor Coverer (First Year)**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 40% of Journeyperson's rate  
Supplemental Rate Per Hour: \$30.25

**Floor Coverer (Second Year)**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 50% of Journeyperson's rate  
Supplemental Rate Per Hour: \$30.25

**Floor Coverer (Third Year)**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 65% of Journeyperson's rate  
Supplemental Rate Per Hour: \$30.25

**Floor Coverer (Fourth Year)**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 80% of Journeyperson's rate  
Supplemental Rate Per Hour: \$30.25

(Carpenters District Council)

**GLAZIER**  
**(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 3)**

**Glazier (First Year)**

Effective Period: 7/1/2014 - 10/31/2014  
Wage Rate Per Hour: 40% of Journeyperson's rate  
Supplemental Rate Per Hour: \$12.97

Effective Period: 11/1/2014 - 6/30/2015  
Wage Rate Per Hour: 40% of Journeyperson's rate  
Supplemental Rate Per Hour: \$13.12

**Glazier (Second Year)**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 50% of Journeyperson's rate  
Supplemental Rate Per Hour: \$22.25



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**Glazier (Third Year)**

Effective Period: 7/1/2014 - 10/31/2014  
Wage Rate Per Hour: 60% of Journeyperson's rate  
Supplemental Rate Per Hour: \$24.75

Effective Period: 11/1/2014 - 6/30/2015  
Wage Rate Per Hour: 60% of Journeyperson's rate  
Supplemental Rate Per Hour: \$25.10

**Glazier (Fourth Year)**

Effective Period: 7/1/2014 - 10/31/2014  
Wage Rate Per Hour: 80% of Journeyperson's rate  
Supplemental Rate Per Hour: \$29.87

Effective Period: 11/1/2014 - 6/30/2015  
Wage Rate Per Hour: 80% of Journeyperson's rate  
Supplemental Rate Per Hour: \$30.02

(Local #1281)

**HEAT & FROST INSULATOR**  
**(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 4)**

**Heat & Frost Insulator (First Year)**

Effective Period: 7/1/2014 - 6/30/2015  
Wage and Supplemental Rate Per Hour: 40% of Journeyperson's rate

**Heat & Frost Insulator (Second Year)**

Effective Period: 7/1/2014 - 6/30/2015  
Wage and Supplemental Rate Per Hour: 60% of Journeyperson's rate

**Heat & Frost Insulator (Third Year)**

Effective Period: 7/1/2014 - 6/30/2015  
Wage and Supplemental Rate Per Hour: 70% of Journeyperson's rate

**Heat & Frost Insulator (Fourth Year)**

Effective Period: 7/1/2014 - 6/30/2015  
Wage and Supplemental Rate Per Hour: 80% of Journeyperson's rate

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(Local #12)

**HOUSE WRECKER  
(TOTAL DEMOLITION)  
(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 3)**

**House Wrecker - First Year**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$20.52**  
Supplemental Benefit Rate per Hour: **\$16.60**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$20.97**  
Supplemental Benefit Rate per Hour: **\$17.08**

**House Wrecker - Second Year**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$21.67**  
Supplemental Benefit Rate per Hour: **\$16.60**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$22.12**  
Supplemental Benefit Rate per Hour: **\$17.08**

**House Wrecker - Third Year**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$23.27**  
Supplemental Benefit Rate per Hour: **\$16.60**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$23.77**  
Supplemental Benefit Rate per Hour: **\$17.08**

**House Wrecker - Fourth Year**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$25.83**  
Supplemental Benefit Rate per Hour: **\$16.60**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$26.33**

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Supplemental Benefit Rate per Hour: \$17.08

(Mason Tenders District Council)

**IRON WORKER - ORNAMENTAL**  
(Ratio of Apprentice to Journeyman: 1 to 1, 1 to 4)

**Iron Worker (Ornamental) - 1st Ten Months**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 50% of Journeyman's rate  
Supplemental Rate Per Hour: \$35.15

**Iron Worker (Ornamental) - 11 -16 Months**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 55% of Journeyman's rate  
Supplemental Rate Per Hour: \$36.21

**Iron Worker (Ornamental) - 17 - 22 Months**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 60% of Journeyman's rate  
Supplemental Rate Per Hour: \$37.27

**Iron Worker (Ornamental) - 23 - 28 Months**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 70% of Journeyman's rate  
Supplemental Rate Per Hour: \$39.40

**Iron Worker (Ornamental) - 29 - 36 Months**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 80% of Journeyman's rate  
Supplemental Rate Per Hour: \$41.52

(Local #580)

**IRON WORKER - STRUCTURAL**  
(Ratio of Apprentice to Journeyman: 1 to 1, 1 to 6)

**Iron Worker (Structural) - 1st Six Months**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate per Hour: \$24.98  
Supplemental Benefit Rate per Hour: \$45.53

**Iron Worker (Structural) - 7- 18 Months**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate per Hour: \$25.58  
Supplemental Benefit Rate per Hour: \$45.53

**Iron Worker (Structural) - 19 - 36 months**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate per Hour: \$26.18  
Supplemental Benefit Rate per Hour: \$45.53

(Local #40 and #361)

**LABORER (FOUNDATION, CONCRETE, EXCAVATING, STREET PIPE LAYER & COMMON)  
(Ratio Apprentice to Journeyman: 1 to 1, 1 to 3)**

**Laborer (Foundation, Concrete, Excavating, Street Pipe Layer & Common) - First 1000 hours**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 50% of Journeyman's rate  
Supplemental Rate Per Hour: \$34.88

**Laborer (Foundation, Concrete, Excavating, Street Pipe Layer & Common) - Second 1000 hours**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 60% of Journeyman's rate  
Supplemental Rate Per Hour: \$34.88

**Laborer (Foundation, Concrete, Excavating, Street Pipe Layer & Common) - Third 1000 hours**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 75% of Journeyman's rate

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Supplemental Rate Per Hour: \$34.88

**Laborer (Foundation, Concrete, Excavating, Street Pipe Layer & Common) -  
Fourth 1000 hours**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 90% of Journeyman's rate  
Supplemental Rate Per Hour: \$34.88

(Local #731)

**MARBLE MECHANICS  
(Ratio of Apprentice to Journeyman: 1 to 1, 1 to 4)**

**Cutters & Setters - First 750 Hours**

Effective Period: 7/1/2014 - 6/30/2015  
Wage and Supplemental Rate Per Hour: 50% of Journeyman's rate

NO BENEFITS PAID DURING THE FIRST TWO MONTHS (PROBATIONARY PERIOD)

**Cutters & Setters - Second 750 Hours**

Effective Period: 7/1/2014 - 6/30/2015  
Wage and Supplemental Rate Per Hour: 55% of Journeyman's rate

**Cutters & Setters - Third 750 Hours**

Effective Period: 7/1/2014 - 6/30/2015  
Wage and Supplemental Rate Per Hour: 65% of Journeyman's rate

**Cutters & Setters - Fourth 750 Hours**

Effective Period: 7/1/2014 - 6/30/2015  
Wage and Supplemental Rate Per Hour: 75% of Journeyman's rate

**Cutters & Setters - Fifth 750 Hours**

Effective Period: 7/1/2014 - 6/30/2015  
Wage and Supplemental Rate Per Hour: 85% of Journeyman's rate

**Cutters & Setters - Sixth 750 Hours**

Effective Period: 7/1/2014 - 6/30/2015  
Wage and Supplemental Rate Per Hour: 95% of Journeyman's rate

**Polishers & Finishers - First 750 Hours**

Effective Period: 7/1/2014 - 6/30/2015

Wage and Supplemental Rate Per Hour: 50% of Journeyperson's rate

NO BENEFITS PAID DURING THE FIRST TWO MONTHS (PROBATIONARY PERIOD)

**Polishers & Finishers - Second 750 Hours**

Effective Period: 7/1/2014 - 6/30/2015

Wage and Supplemental Rate Per Hour: 60% of Journeyperson's rate

**Polishers & Finishers - Third 750 Hours**

Effective Period: 7/1/2014 - 6/30/2015

Wage and Supplemental Rate Per Hour: 75% of Journeyperson's rate

**Polishers & Finishers - Fourth 750 Hours**

Effective Period: 7/1/2014 - 6/30/2015

Wage and Supplemental Rate Per Hour: 90% of Journeyperson's rate

(Local #7)

**MASON TENDER**

**(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 3)**

**Mason Tender - First Year**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$20.99**

Supplemental Benefit Rate per Hour: **\$17.86**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$21.19**

Supplemental Benefit Rate per Hour: **\$18.19**

**Mason Tender - Second Year**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$22.14**

Supplemental Benefit Rate per Hour: **\$17.86**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$22.34**

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Supplemental Benefit Rate per Hour: **\$18.19**

**Mason Tender - Third Year**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$23.84**

Supplemental Benefit Rate per Hour: **\$17.86**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$24.09**

Supplemental Benefit Rate per Hour: **\$18.24**

**Mason Tender - Fourth Year**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$26.50**

Supplemental Benefit Rate per Hour: **\$17.86**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$26.75**

Supplemental Benefit Rate per Hour: **\$18.24**

(Local #79)

**METALLIC LATHER**

**(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 3)**

**Metallic Lather (First Year -Called Prior to 6/29/11)**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$28.11**

Supplemental Benefit Rate per Hour: **\$22.79**

Effective Period: 1/5/2015 - 6/30/2015

Wage Rate per Hour: **\$29.41**

Supplemental Benefit Rate per Hour: **\$22.89**

**Metallic Lather (Second Year - Called Prior to 6/29/11)**

Effective Period: 7/1/2014 - 1/4/2015

Wage Rate per Hour: **\$32.71**

Supplemental Benefit Rate per Hour: **\$24.44**

Effective Period: 1/5/2015 - 6/30/2015

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Wage Rate per Hour: **\$34.01**  
Supplemental Benefit Rate per Hour: **\$24.54**

**Metallic Lather (Third Year - Called Prior to 6/29/11)**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$37.77**  
Supplemental Benefit Rate per Hour: **\$25.59**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$39.07**  
Supplemental Benefit Rate per Hour: **\$25.69**

**Metallic Lather (First Year -Called On Or After 6/29/11)**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$17.71**  
Supplemental Benefit Rate per Hour: **\$19.85**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$19.01**  
Supplemental Benefit Rate per Hour: **\$19.95**

**Metallic Lather (Second Year - Called On Or After 6/29/11)**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$22.81**  
Supplemental Benefit Rate per Hour: **\$19.85**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$24.11**  
Supplemental Benefit Rate per Hour: **\$19.95**

**Metallic Lather (Third Year - Called On Or After 6/29/11)**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$27.91**  
Supplemental Benefit Rate per Hour: **\$19.85**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$29.21**  
Supplemental Benefit Rate per Hour: **\$19.95**

(Local #46)



## **MILLWRIGHT**

**(Ratio of Apprentice to Journeyman: 1 to 1, 1 to 4)**

### **Millwright (First Year)**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$26.64**

Supplemental Benefit Rate per Hour: **\$32.84**

### **Millwright (Second Year)**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$31.49**

Supplemental Benefit Rate per Hour: **\$36.18**

### **Millwright (Third Year)**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$36.33**

Supplemental Benefit Rate per Hour: **\$40.66**

### **Millwright (Fourth Year)**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$46.02**

Supplemental Benefit Rate per Hour: **\$46.24**

(Local #740)

## **PAVER AND ROADBUILDER**

**(Ratio of Apprentice to Journeyman: 1 to 1, 1 to 3)**

### **Paver and Roadbuilder - First Year (Minimum 1000 hours)**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$26.61**

Supplemental Benefit Rate per Hour: **\$16.50**

### **Paver and Roadbuilder - Second Year (Minimum 1000 hours)**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$28.22**

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Supplemental Benefit Rate per Hour: **\$16.50**

(Local #1010)

## **PAINTER**

(Ratio of Apprentice to Journeyman: 1 to 1, 1 to 3)

### **Painter - Brush & Roller - First Year**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$15.80**

Supplemental Benefit Rate per Hour: **\$11.88**

### **Painter - Brush & Roller - Second Year**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$19.75**

Supplemental Benefit Rate per Hour: **\$15.73**

### **Painter - Brush & Roller - Third Year**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$23.70**

Supplemental Benefit Rate per Hour: **\$18.64**

### **Painter - Brush & Roller - Fourth Year**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$31.60**

Supplemental Benefit Rate per Hour: **\$24.02**

(District Council of Painters)

## **PAINTER - STRUCTURAL STEEL**

(Ratio of Apprentice to Journeyman: 1 to 1, 1 to 3)

### **Painters - Structural Steel (First Year)**

Effective Period: 7/1/2014 - 6/30/2015

Wage and Supplemental Rate Per Hour: 40% of Journeyman's rate

**Painters - Structural Steel (Second Year)**

Effective Period: 7/1/2014 - 6/30/2015

Wage and Supplemental Rate Per Hour: 60% of Journeyperson's rate

**Painters - Structural Steel (Third Year)**

Effective Period: 7/1/2014 - 6/30/2015

Wage and Supplemental Rate Per Hour: 80% of Journeyperson's rate

(Local #806)

**PLASTERER**

**(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 3)**

**Plasterer - First Year: 1st Six Months**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate Per Hour: 40% of Journeyperson's rate

Supplemental Rate Per Hour: \$15.76

**Plasterer - First Year: 2nd Six Months**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate Per Hour: 45% of Journeyperson's rate

Supplemental Rate Per Hour: \$16.24

**Plasterer - Second Year: 1st Six Months**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate Per Hour: 55% of Journeyperson's rate

Supplemental Rate Per Hour: \$18.21

**Plasterer - Second Year: 2nd Six Months**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate Per Hour: 60% of Journeyperson's rate

Supplemental Rate Per Hour: \$19.29

**Plasterer - Third Year: 1st Six Months**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate Per Hour: 70% of Journeyperson's rate

Supplemental Rate Per Hour: \$21.46

## **Plasterer - Third Year: 2nd Six Months**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 75% of Journeyman's rate  
Supplemental Rate Per Hour: \$22.54

(Local #530)

## **PLUMBER**

**(Ratio of Apprentice to Journeyman: 1 to 1, 1 to 3)**

### **Plumber - First Year: 1st Six Months**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate per Hour: **\$14.00**  
Supplemental Benefit Rate per Hour: **\$0.71**

### **Plumber - First Year: 2nd Six Months**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate per Hour: **\$14.00**  
Supplemental Benefit Rate per Hour: **\$2.96**

### **Plumber - Second Year**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$23.87**  
Supplemental Benefit Rate per Hour: **\$11.46**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$23.87**  
Supplemental Benefit Rate per Hour: **\$12.11**

### **Plumber - Third Year**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$25.97**  
Supplemental Benefit Rate per Hour: **\$11.46**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$25.97**  
Supplemental Benefit Rate per Hour: **\$12.11**

### **Plumber - Fourth Year**

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Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$28.82**  
Supplemental Benefit Rate per Hour: **\$11.46**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$28.82**  
Supplemental Benefit Rate per Hour: **\$12.11**

**Plumber - Fifth Year: 1st Six Months**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$30.22**  
Supplemental Benefit Rate per Hour: **\$11.46**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$30.22**  
Supplemental Benefit Rate per Hour: **\$12.11**

**Plumber - Fifth Year: 2nd Six Months**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate per Hour: **\$42.29**  
Supplemental Benefit Rate per Hour: **\$11.46**

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate per Hour: **\$42.29**  
Supplemental Benefit Rate per Hour: **\$12.11**

(Plumbers Local #1)

**POINTER - WATERPROOFER, CAULKER MECHANIC (EXTERIOR BUILDING RENOVATION)**  
(Ratio of Apprentice to Journeyman: 1 to 1, 1 to 4)

**Pointer - Waterproofer, Caulker Mechanic - First Year**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate per Hour: **\$25.01**  
Supplemental Benefit Rate per Hour: **\$4.75**

**Pointer - Waterproofer, Caulker Mechanic - Second Year**

Effective Period: 7/1/2014 - 6/30/2015

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Wage Rate per Hour: **\$27.25**

Supplemental Benefit Rate per Hour: **\$9.70**

**Pointer - Waterproofer, Caulker Mechanic - Third Year**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$32.24**

Supplemental Benefit Rate per Hour: **\$12.45**

**Pointer - Waterproofer, Caulker Mechanic - Fourth Year**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate per Hour: **\$38.66**

Supplemental Benefit Rate per Hour: **\$12.45**

(Bricklayer District Council)

**ROOFER**

(Ratio of Apprentice to Journeyman: 1 to 1, 1 to 2)

**Roofer - First Year**

Effective Period: 7/1/2014 - 6/30/2015

Wage and Supplemental Rate Per Hour: 35% of Journeyman's Rate

**Roofer - Second Year**

Effective Period: 7/1/2014 - 6/30/2015

Wage and Supplemental Rate Per Hour: 50% of Journeyman's Rate

**Roofer - Third Year**

Effective Period: 7/1/2014 - 6/30/2015

Wage and Supplemental Rate Per Hour: 60% of Journeyman's Rate

**Roofer - Fourth Year**

Effective Period: 7/1/2014 - 6/30/2015

Wage and Supplemental Rate Per Hour: 75% of Journeyman's Rate

(Local #8)

## **SHEET METAL WORKER**

**(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 3)**

### **Sheet Metal Worker (0-6 Months)**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate Per Hour: 25% of Journeyperson's rate  
Supplemental Rate Per Hour: \$6.15

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate Per Hour: 25% of Journeyperson's rate  
Supplemental Rate Per Hour: \$6.24

### **Sheet Metal Worker (7-18 Months)**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate Per Hour: 35% of Journeyperson's rate  
Supplemental Rate Per Hour: \$16.21

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate Per Hour: 35% of Journeyperson's rate  
Supplemental Rate Per Hour: \$16.71

### **Sheet Metal Worker (19-30 Months)**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate Per Hour: 45% of Journeyperson's rate  
Supplemental Rate Per Hour: \$22.23

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate Per Hour: 45% of Journeyperson's rate  
Supplemental Rate Per Hour: \$23.00

### **Sheet Metal Worker (31-36 Months)**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate Per Hour: 55% of Journeyperson's rate  
Supplemental Rate Per Hour: \$26.16

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate Per Hour: 55% of Journeyperson's rate  
Supplemental Rate Per Hour: \$27.02

### **Sheet Metal Worker (37-42 Months)**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate Per Hour: 60% of Journeyperson's rate  
Supplemental Rate Per Hour: \$28.13

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate Per Hour: 60% of Journeyperson's rate  
Supplemental Rate Per Hour: \$29.06

### **Sheet Metal Worker (43-48 Months)**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate Per Hour: 70% of Journeyperson's rate  
Supplemental Rate Per Hour: \$32.09

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate Per Hour: 70% of Journeyperson's rate  
Supplemental Rate Per Hour: \$33.10

### **Sheet Metal Worker (49-54 Months)**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate Per Hour: 75% of Journeyperson's rate  
Supplemental Rate Per Hour: \$34.07

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate Per Hour: 75% of Journeyperson's rate  
Supplemental Rate Per Hour: \$35.12

### **Sheet Metal Worker (55-60 Months)**

Effective Period: 7/1/2014 - 1/4/2015  
Wage Rate Per Hour: 80% of Journeyperson's rate  
Supplemental Rate Per Hour: \$36.03

Effective Period: 1/5/2015 - 6/30/2015  
Wage Rate Per Hour: 80% of Journeyperson's rate  
Supplemental Rate Per Hour: \$37.15

(Local #28)

## **SIGN ERECTOR**

(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 4)

### **Sign Erector - First Year: 1st Six Months**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 35% of Journeyperson's rate  
Supplemental Rate Per Hour: \$5.96

### **Sign Erector - First Year: 2nd Six Months**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 40% of Journeyperson's rate  
Supplemental Rate Per Hour: \$6.75

### **Sign Erector - Second Year: 1st Six Months**



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Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 45% of Journeyperson's rate  
Supplemental Rate Per Hour: \$7.55

**Sign Erector - Second Year: 2nd Six Months**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 50% of Journeyperson's rate  
Supplemental Rate Per Hour: \$8.34

**Sign Erector - Third Year: 1st Six Months**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 55% of Journeyperson's rate  
Supplemental Rate Per Hour: \$9.13

**Sign Erector - Third Year: 2nd Six Months**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 60% of Journeyperson's rate  
Supplemental Rate Per Hour: \$9.92

**Sign Erector - Fourth Year: 1st Six Months**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 65% of Journeyperson's rate  
Supplemental Rate Per Hour: \$10.72

**Sign Erector - Fourth Year: 2nd Six Months**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 70% of Journeyperson's rate  
Supplemental Rate Per Hour: \$11.51

**Sign Erector - Fifth Year**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 75% of Journeyperson's rate  
Supplemental Rate Per Hour: \$12.30

**Sign Erector - Sixth Year**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 80% of Journeyperson's rate  
Supplemental Rate Per Hour: \$12.30

(Local #137)

## **STEAMFITTER**

**(Ratio of Apprentice to Journeyman: 1 to 1, 1 to 3)**

### **Steamfitter - First Year**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate and Supplemental Per Hour: 40% of Journeyman's rate

### **Steamfitter - Second Year**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate and Supplemental Rate Per Hour: 50% of Journeyman's rate.

### **Steamfitter - Third Year**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate and Supplemental Rate per Hour: 65% of Journeyman's rate.

### **Steamfitter - Fourth Year**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate and Supplemental Rate Per Hour: 80% of Journeyman's rate.

### **Steamfitter - Fifth Year**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate and Supplemental Rate Per Hour: 85% of Journeyman's rate.

(Local #638)

## **STONE MASON - SETTER**

**(Ratio Apprentice of Journeyman: 1 to 1, 1 to 2)**

### **Stone Mason - Setters - First 750 Hours**

Effective Period: 7/1/2014 - 6/30/2015

Wage and Supplemental Rate Per Hour: 50% of Journeyman's rate

### **Stone Mason - Setters - Second 750 Hours**

Effective Period: 7/1/2014 - 6/30/2015

Wage Rate Per Hour: 60% of Journeyman's rate

Supplemental Rate Per Hour: 50% of Journeyman's rate

**Stone Mason - Setters - Third 750 Hours**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 70% of Journeyperson's rate  
Supplemental Rate Per Hour: 50% of Journeyperson's rate

**Stone Mason - Setters - Fourth 750 Hours**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 80% of Journeyperson's rate  
Supplemental Rate Per Hour: 50% of Journeyperson's rate

**Stone Mason - Setters - Fifth 750 Hours**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 90% of Journeyperson's rate  
Supplemental Rate Per Hour: 50% of Journeyperson's rate

**Stone Mason - Setters - Sixth 750 Hours**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 100% of Journeyperson's rate  
Supplemental Rate Per Hour: 50% of Journeyperson's rate

(Bricklayers District Council)

**TAPER**

**(Ratio of Apprentice to Journeyperson: 1 to 1, 1 to 4)**

**Drywall Taper - First Year**

Effective Period: 7/1/2014 - 6/30/2015  
Wage and Supplemental Rate Per Hour: 40% of Journeyperson's rate

**Drywall Taper - Second Year**

Effective Period: 7/1/2014 - 6/30/2015  
Wage and Supplemental Rate Per Hour: 60% of Journeyperson's rate

**Drywall Taper - Third Year**

Effective Period: 7/1/2014 - 6/30/2015  
Wage and Supplemental Rate Per Hour: 80% of Journeyperson's rate

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(Local #1974)

## **TILE LAYER - SETTER**

(Ratio of Apprentice to Journeyman: 1 to 1, 1 to 4)

### **Tile Layer - Setter - First 750 Hours**

Effective Period: 7/1/2014 - 6/30/2015

Wage and Supplemental Rate Per Hour: 50% of Journeyman's rate

### **Tile Layer - Setter - Second 750 Hours**

Effective Period: 7/1/2014 - 6/30/2015

Wage and Supplemental Rate Per Hour: 55% of Journeyman's rate

### **Tile Layer - Setter - Third 750 Hours**

Effective Period: 7/1/2014 - 6/30/2015

Wage and Supplemental Rate Per Hour: 65% of Journeyman's rate

### **Tile Layer - Setter - Fourth 750 Hours**

Effective Period: 7/1/2014 - 6/30/2015

Wage and Supplemental Rate Per Hour: 75% of Journeyman's rate

### **Tile Layer - Setter - Fifth 750 Hours**

Effective Period: 7/1/2014 - 6/30/2015

Wage and Supplemental Rate Per Hour: 85% of Journeyman's rate

### **Tile Layer - Setter - Sixth 750 Hours**

Effective Period: 7/1/2014 - 6/30/2015

Wage and Supplemental Rate Per Hour: 95% of Journeyman's rate

(Local #7)

## **TIMBERPERSON**

(Ratio of Apprentice to Journeyman: 1 to 1, 1 to 6)

### **Timberperson - First Year**

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Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 40% of Journeyperson's rate  
Supplemental Rate Per Hour: \$30.89

**Timberperson - Second Year**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 50% of Journeyperson's rate  
Supplemental Rate Per Hour: \$30.89

**Timberperson - Third Year**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 65% of Journeyperson's rate  
Supplemental Rate Per Hour: \$30.89

**Timberperson - Fourth Year**

Effective Period: 7/1/2014 - 6/30/2015  
Wage Rate Per Hour: 80% of Journeyperson's rate  
Supplemental Rate Per Hour: \$30.89

(Local #1536)