# SPECIFICATIONS

### FOR

Intersection Improvements, Rahway Avenue & Lamberts Mill Road (CR606) and West Broad Street (CR653) & Scotch Plains Avenue, Town of Westfield, County of Union, New Jersey

BA#14-2020; UNION COUNTY ENGINEERING PROJECT #2010-017
OCTOBER 2020

# UNION COUNTY OFFICIALS BOARD OF CHOSEN FREEHOLDERS

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### **COUNTY MANAGER**

Edward T. Oatman

# DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES MANAGEMENT

Joseph A. Graziano, Sr., CPWM
Director, Department of Engineering, Public Works and
Facilities Management

# COUNTY ENGINEER DIVISION OF ENGINEERING

Thomas O. Mineo, P.E.

#### Prepared by:

Pennoni Assoicates, Inc

Revised: 2020.02.19

# COUNTY OF UNION NOTICE TO BIDDERS

Sealed bids will be received by the assistant director of the Division of Purchasing, or her designee, at the County of Union, New Jersey on, **October 29, 2020 at 11:30 a.m.**, prevailing time, in the **6th Floor Conference Room**, U.C. Administration Building, 10 Elizabethtown Plaza, Elizabeth, New Jersey for:

Intersection Improvements, Rahway Avenue & Lamberts Mill Road (CR606) and West Broad Street (CR653) & Scotch Plains Avenue, Town of Westfield, County of Union, New Jersey BA#14-2020; UNION COUNTY ENGINEERING PROJECT #2010-017

Bid Packages may be obtained at no charge by registering and downloading at <a href="http://ucnj.org/bid-specs">http://ucnj.org/bid-specs</a>. Bid Packages may also be obtained in person from the Division of Engineering at 2325 South Avenue, Scotch Plains, New Jersey 07076 between 8:30 a.m. and 4:00 p.m. weekdays upon payment of a non-refundable money order or bank check in the amount of \$275.00 made payable to the County of Union. No Personal / Company checks will be accepted. Requests for mailing of specifications will not be honored. For further information please call 908-789-3675.

The County reserves the right to reject any and all bids and to waive any and all informalities in the bid in accordance with the New Jersey Local Public Contracts Law.

\*\*\*Public access to the County of Union Administration Building is currently restricted during the statewide public health emergency. Accordingly there will not be an in-person public opening but instead will be conducted live and streamed via the County of Union live streaming platform which will feature both audio and video capabilities. A link will be provided on the day of the opening at <a href="https://ucnj.org/">https://ucnj.org/</a>.

Bids shall be submitted in a sealed envelope and clearly marked with the subject of the bid, name and address of the bidder, phone & fax number, and date of the bid opening. Each bid must be delivered to reach the Division of Purchasing prior to the stated time of the opening of the bids. The County will not be responsible for late delivery by the U.S. Mail or any other carrier. Hand delivery of proposals are strongly discouraged due to public restrictions. If delivered by hand, you will not receive confirmation of delivery. **No** late bids will be accepted.

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

\*\*\*Entire bid packages received will be scanned and available for public inspection on the portal, <a href="http://ucnj.org/itb">http://ucnj.org/itb</a>, as they would be available for public inspection after an in-person bid opening. Bidders are reminded to review their submissions for any information they consider to be confidential. The County will not be responsible for the release of any information contained in the bid package which may be subject to confidentiality.

MICHELE HAGOPIAN, ASSISTANT DIRECTOR OF PURCHASING

UNION COUNTY BOARD OF CHOSEN FREEHOLDERS

We're Connected to You!

# Intersection Improvements, Rahway Avenue & Lamberts Mill Road (CR606) and West Broad Street (CR653) & Scotch Plains Avenue, Town of Westfield, County of Union, New Jersey BA#14-2020; UNION COUNTY ENGINEERING PROJECT #2010-017

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# UNION COUNTY BOARD OF CHOSEN FREEHOLDERS INSTRUCTIONS TO BIDDERS AND FORMS

#### **DEFINITIONS**

Wherever reference is made to the County, Title of Project, Bidder, or Vendor/Contractor they shall be as follows:

#### OWNER/COUNTY:

Union County Board of Chosen Freeholders UC Administration Building, 6th Floor 10 Elizabethtown Plaza Elizabeth, New Jersey 07207

#### **ADDRESS INQUIRIES TO:**

Union County Division of Purchasing UC Administration Building, 3<sup>rd</sup> Floor 10 Elizabethtown Plaza Elizabeth, NJ 07207

Attn: Michelle Hagopian, Assistant Director, Division of Purchasing

Telephone: 908-527-4130 Facsimile: 908-558-2548

ucbids@ucnj.org

#### **ADDRESS BIDS AND SUBMIT TO:**

Union County Division of Purchasing UC Administration Building, 3rd Floor 10 Elizabethtown Plaza Elizabeth, NJ 07207

Attn: Michelle Hagopian, Assistant Director, Division of Purchasing

Telephone: 908-527-4130 Facsimile: 908-558-2548

ucbids@ucnj.org

TITLE OF PROJECT: Intersection Improvements, Rahway Avenue & Lamberts Mill Road (CR606) and West Broad Street (CR653) & Scotch Plains Avenue Town of Westfield. County of Union, New Jersey BA#14-2020; **UNION COUNTY ENGINEERING PROJECT #2010-017** 

BIDDER: Bidder shall be a single overall contract bidder

**ENGINEER:** Pennoni Associates, Inc.

### COUNTY ENGINEER AND/OR CONSTRUCTION MANAGER (as applicable):

#### **COUNTY ENGINEER:**

Thomas O. Mineo, P.E. **Union County** Division of Engineering

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#### **CONSTRUCTION MANAGER:**

#### **GENERAL SPECIFICATIONS**

#### 1. BID FORM

Bids for this Work will be enclosed in a sealed envelope addressed to the Purchasing Division, County of Union, New Jersey, Union County Administration Building, 10 Elizabethtown Plaza, Elizabeth, New Jersey 07207, with the full name of the Project clearly marked on the outside. Refer to the sheet marked "Notice of Bid (Advertisement)" for the correct name of the Project. Bidders must submit their bids on the attached pricing sheet (Bid Form), in a sealed envelope addressed to the County and bearing on the outside: the name of the Bidder, Bidder's business address, and the title of the Project.

The Division of Purchasing will receive the bids for this Work at the Union County Administration Building, 10 Elizabethtown Plaza, Elizabeth, New Jersey on the date and time noted on the sheet marked "**Notice of Bid (Advertisement)**".

The County will not assume responsibility for bids forwarded by mail. It is the individual's responsibility to see that the bids are presented to the Purchasing Division at the time and at the place designated.

Bids will be accepted only on the Bid Form supplied. Bids on forms other than the original supplied herein will be rejected. The "complete" Bid Documents includes the Bid Bond, Bid Form, Bidder's Checklist, Consent of Surety, Ownership Disclosure Certification, Non-Collusion Affidavit, and any other documents noted in these Instructions to Bidders or Contract Document to be submitted with this Bid.

The bidder will state in the bidding sheet the price per unit of measure for each scheduled Item of Work for which he will agree to carry out the Work, and the Total Bid Price for the construction of the Project.

The prices in the Bid Form shall be typed or written in pen and ink. Erasures or alterations must be initialed by the bidder in ink.

The bidding sheet for this Project may include a fixed amount as a Bid Allowance. If applicable, all bidders are required to add this fixed amount to their base bid and to include this additional amount in their Bid Bond. This sum will be included in the Contract as well as the performance, labor and materials bond. Payment by the County will be made to the Contractor from these funds only upon the completion of extra Work pursuant to a written Change Order(s) signed by the County's Engineer or his designee and the Contractor, prior to the commencement of such Work. Work commenced prior to written approval by the County shall be done at Contactor's risk. Such payment will only be in the amount agreed to by the parties, in writing in the

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Change Order(s). See Section 37, Change Orders, of these general specifications for further details.

Refer to Bid Document Submission Checklist for all required documents.

In the event there is a discrepancy between the unit price given and the extended total, the unit price will govern. Any discrepancies will be mathematically adjusted.

Insert applicable alternates, if any have been specified, applicable to the Bidder's Work. All alternates MUST be bid upon. Any Bidder's failure to do so will be deemed a material, non-waivable defect and shall render the bid nonresponsive. The Bidder shall clearly designate whether the change in price is an addition or subtraction, by using either a "+" sign or the word "addition", or in the alternative, a "-"sign or the word "minus". If there is no other change in price, the Bidder shall insert "NC" or "No Charge".

When two or more low bids are equal in all respects, awards will be made according to the provisions of N.J.S.A. 40A:11-6.1(d).

Where unit prices have already been established by the Contract Documents, the Bidder agrees that such unit prices shall prevail. All unit prices, whether filled in by the Bidder or established by the Contract Documents, shall become part of the Contract. No bid will be considered or award made, unless applicable unit prices, as required, are filled in.

The County reserves the right to reject any or all bids and also reserves the right to waive any minor informalities or non-material exceptions in the bids.

The County of Union has the right to reject any and all bids from any bidder that is in, or contemplates bankruptcy of any chapter of nature. Said bidder shall notify the County, in writing, of any condition or knowledge of the same.

Conditional bids will not be accepted. Bids may be withdrawn prior to the advertised time for the opening of bids or authorized postponement thereof or in accordance with the provisions of N.J.S.A. 40A:11-23.3 discussed below. Bids received after the advertised time shall not be considered. Bidders shall be solely responsible for premature opening or late delivery of bids not properly marked, addressed, or directed.

#### 2. WITHDRAWAL OF BID DUE TO MISTAKE

N.J.S.A. 40A:11-23.3 authorizes a bidder to request withdrawal of a public works bid due to a mistake on the part of the bidder. A mistake is defined by N.J.S.A. 40A:11-2(42) as a clerical error that is an unintentional and substantial computational error or an unintentional omission of a substantial quantity of labor, material, or both, from the final bid computation.

G-3 Revised: 2020.03.03 A bidder claiming a mistake under N.J.S.A. 40A:11-23.3 must submit a request for withdrawal, **in writing**, by certified or registered mail to Michele Hagopian, Assistant Director, Division of Purchasing, County of Union, New Jersey, Union County Administration Building, 10 Elizabethtown Plaza, Elizabeth, New Jersey 07207. The bidder must request withdrawal of a bid due to a mistake, as defined by the law, within five business days after the receipt and opening of the bids. Since the bid withdrawal request shall be effective as of the postmark of the certified or registered mailing, Michele Hagopian, Assistant Director of the Division of Purchasing or his designee may contact all bidders, after bids are opened, to ascertain if any bidders wish to, or already have exercised a request to withdraw their bid pursuant to N.J.S.A. 40A:11-23.3.

A bidder's request to withdraw the bid **shall** contain evidence, including any pertinent documents, demonstrating that a mistake was made. Such documents and relevant written information shall be reviewed and evaluated by the County's designated staff pursuant to the statutory criteria of N.J.S.A. 40A:11-23.3.

The County will not consider any written request for a bid withdrawal for a mistake, as defined by N.J.S.A. 40A:11-2(42), by a bidder in the preparation of a bid proposal unless the postmark of the certified or registered mailing is within the five business days following the opening of bids.

#### 3. QUALIFICATIONS OF BIDDERS AND REQUIRED SUBMISSIONS

The County may make such investigation as it deems necessary to determine the ability of the Bidders to perform the Work, which includes investigation of any and all subcontractors listed with the bid. The Bidder shall furnish any information and data for this purpose as the County may request.

#### 4. INTERPRETATIONS AND ADDENDA

Any explanation desired by a bidder regarding the meaning or interpretation of the Contract Documents must be requested in writing to the Assistant Director, Division of Purchasing at <a href="mailto:ucbids@ucnj.org">ucbids@ucnj.org</a> with reasonable time allowed for a reply to reach bidders before submission of their bids. Any interpretation or instruction made by the County Engineer will be in the form of an addendum to the Contract Documents or clarification and will be furnished to all prospective bidders. Oral explanations or instructions given before the award of the Contract will not be binding. Bidders are required to bring to the attention of the Assistant Director, Division of Purchasing at ucbids@ucnj.org, the discovery of any apparent ambiguity, inconsistency, error, discrepancy, omission in the Contract Documents for interpretation and correction at least ten (10) working days before opening of bids with the exception of Saturdays, Sundays and holidays.

All Addenda issued through the Office of the Division of Purchasing are amendments to the Contract Documents and shall be considered in preparing bids. Same shall become part of the Contract Documents.

G-4 Revised: 2020.03.03 Addenda take precedence over all earlier documents and over each other according to the latest date. Addenda unless themselves interpretive remain subject to interpretation the same as any other document incorporated in the Contract.

Addenda may be issued by the Assistant Director, Division of Purchasing up to seven (7) working days prior to the opening of bids. Failure of any bidder to receive an addendum shall not relieve such bidder from the obligation imposed by such addendum. Bidders are to keep themselves currently acquainted with the Contract Documents during the entire bidding period and make inquiry on their own initiative as to issuance of any Addenda. Receipts of all Addenda shall be acknowledged on the "Acknowledgement of Receipt of Changes" included in the bid package and must be submitted with the bid.

# 5. OBLIGATION OF BIDDER TO INSPECT SITE AND CONTRACT DOCUMENTS

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

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

#### 6. BID AND PERFORMANCE GUARANTEE

Each bidder must furnish a Bid Bond, Certified Check or Bank Cashier's Check in the amount of ten percent (10%) of the Bid. Checks shall be drawn to the order of the County of Union, New Jersey, not to exceed \$20,000.

Each bidder must furnish with the bid a certificate from a Surety Company, i.e. Consent of Surety, stating that in the event of the contract being awarded to said bidder, such Surety Company will provide the Contractor with bonds guaranteeing the faithful performance of the Work in accordance with the plans and specifications, and the payment for labor, materials, and all other indebtedness which may accrue on the account of this Work. A Performance, Labor and Materials Bond will be furnished by

G-5 Revised: 2020.03.03 the Contractor upon an award of Contract, and will be in the amount of 100% of the contract price.

A one-year Maintenance Bond will be required upon acceptance of the Project by the County in the amount as stated in Section 15 of the General Specifications. Bonds will be written by a firm authorized to issue the bonds under the laws of the State of New Jersey and be in a form acceptable to the County Counsel.

N.J.S.A. 40A:11-1 et seq. allows the prime Contractor to furnish the Performance Security for his Subcontractors. The County of Union requires Performance Security to be furnished by the prime contractor for the entire job in the total amount of the contract.

The County will return all certified checks or cashier's checks after the proposals have been opened, tabulated and reviewed except those of the three (3) bidders lowest responsible bidders. The County will return the checks of these bidders when a contract is awarded to the successful bidder within ten (10) days after the award of the contract.

If the successful bidder refuses or neglects to sign an agreement and furnish the required bonds, the Bid Bond will be held and used by the County to offset any damages for such refusal or neglect.

#### 7. COMMENCEMENT AND COMPLETION

Work will not commence until a Notice to Proceed is received from the County Engineer.

Upon substantial completion of the Project, the Contractor must request a joint inspection with the County Engineer. Upon completion of this inspection, the County Engineer will prepare a list of incomplete or incorrect items (punch list) and have Contractor initial and date same. The Contractor shall rectify all deficiencies noted on the punch list within 30 calendar days of receipt of the list. The County Engineer may approve extensions for extenuating circumstances.

#### 8. BIDDER AFFIDAVIT

All Bidders are required to complete, sign, and submit with their Bid, the attached "Affidavit Regarding List of Debarred, Suspended or Disqualified Bidders". (See form enclosed)

### 9. LABOR AND MATERIALS

The prices will cover all costs of any nature incident to and growing out of the Work, including all labor, material, equipment, transportation, loss by damage or destruction of the Project, settlement of damages, and for replacement of defective work or materials. N.J.S.A. 54:32B-1 et seq. exempts all materials sold to the County of

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Union from sales or use taxes and should not be included in the prices provided on the Bidding Sheet.

### **10. INSURANCE REQUIREMENTS**

The County of Union requires all contractors to be able to comply with the following insurance requirements. In the event a bid is accepted by the County, the contractor must accept the applicable insurance requirements, as set forth below, as part of any contract awarded to it by the County.

Contractor shall carry and maintain at all times while the contract is in full force and effect, the following insurance coverage with an insurance company or companies acceptable to the County, with limits not less than those shown below. A Certificate of Insurance shall be filed with the County <u>prior</u> to commencement of any Work indicating the following:

- a) Commercial General Liability (CGL): Coverage for all operations including, but not limited to, contractual, products and completed operations, and personal injury with limits no less than \$5,000,000 per occurrence/\$10,000,000 aggregate. The County of Union, its Board of Chosen Freeholders, officers, employees, agents and servants shall be included as an additional insured. Coverage is provided on a primary and non-contributory basis to the County of Union, et al.
- b) Automobile Liability: Coverage for all owned, non-owned and hired vehicles with limits not less than \$5,000,000 per occurrence, combined single limits (CSL) or its equivalent.
- c) Workers Compensation: As required by the State of New Jersey and Employers Liability with limits not less than \$1,000,000 per accident for bodily injury or disease.
- d) Professional Liability (if design/build): Coverage with limits not less than \$1,000,000 per occurrence or claim, \$2,000,000 aggregate
- e) Contractor's Pollution Legal Liability and/or Asbestos Legal Liability and/or Errors & Omissions (if project involves environmental hazards): Coverage with limits no less than \$1,000,000 per occurrence or claim/\$2,000,000 aggregate.
- f) Builders Risk (for major renovations): During the course of construction utilizing an "All Risk" coverage form with limits equal to the completed value of the project and no coinsurance penalty provisions.

Where applicable, a waiver of subrogation in favor of the County of Union, its Board of Chosen Freeholders, officers, employees, agents, servants and the State of New Jersey is to be included in those policies of insurance where permitted by law.

Notice of Cancellation: Each insurance policy required above shall provide that coverage shall not be canceled, except with notice to the Entity.

Special Risks or Circumstances: The County reserves the right to modify these requirements, including limits, based on the nature of the risk, prior experience, insurer, coverage, or other special circumstances.

#### 11. INDEMNIFICATION REQUIREMENTS

The County of Union requires all bidders to accept the following indemnification requirements in the event the County accepts their bid. The Contract awarded by the County to the successful bidder will contain the following provision:

"To the fullest extent permitted by law the Contractor shall indemnify and hold harmless the owner and the owner's consultants, agents, representatives, and employees from and against any and all claims, damages, losses, costs, and expenses, including, but not limited to attorneys' fees, legal costs and legal expenses arising out of or resulting from the performance of the Contractor's work under this contract, provided that such claim, damage, loss, cost, or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the work itself) caused or alleged to be caused by the negligent acts, negligent omissions, and/or fault of the Contractor, anyone directly or indirectly employed or retained by the Contractor, or anyone for whose acts the Contractor may be liable regardless of whether caused in part by the negligent act or omission of a party indemnified hereunder provided it is not caused by the sole negligence of a party indemnified hereunder. Contractor shall further indemnify and hold harmless the County and the County's consultants, agents, representative, and employees from and against any and all claims, damages, losses, costs, and expenses, including, but not limited to attorneys' fees, legal costs and legal expenses, arising out of or resulting from performance of the work, provided that such claim, damage, loss, cost, or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the work itself) caused or alleged to be caused by the negligent acts, negligent omissions, and/or fault of the County or the County's consultants, agents, representatives, or employees and arises out of this project and provided such claim, damage, loss, cost, or expense is not caused by the sole negligence of a party indemnified hereunder."

#### 12. ROYALTIES AND PATENTS

The Contractor shall pay all royalties and license fees. He shall defend all suits or claims for infringement of any patent rights and shall hold the County harmless from loss on account thereof.

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### 13. PLANS AND SPECIFICATIONS

In carrying out the Work, the plan(s) and the specifications will be followed by the Contractor. Minor alterations in the plan may be made or permitted by the County Engineer from time to time and, if no additional Work is necessary, there will be no additional charge for carrying out such minor alterations.

The Contractor shall provide the County Engineer a set of reproducible as-built drawings upon completion of the Project. The Contractor shall maintain an updated construction progress plan in the Project field office at all times.

When applicable, The New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction, as amended, and Supplemental Specifications for State Aid Projects, herein after referred to as the "Standard Specifications", are made a part of these specifications and contract for the improvements, and will govern the construction of this Project, the material used and the execution of this Project, except as revised and modified herein. The references to these specifications are given herein for the purpose of aiding in the rapid location of the description of the various items herein specified. The entire Work must be carried on and completed to the satisfaction of the County. The Standard Specifications are amended as follows:

"Any reference to the Commissioner, Department, Department Laboratory, Engineer or Inspector should be redefined to be the County of Union".

#### 14. GUARANTEE AGAINST DEFECTIVE WORK

Prior to final payment being made or before the release of the performance security required by Section 3 above, the Contractor and Surety shall execute and deliver to the County an original Maintenance Bond with an original signature and seal having a penal sum equal to:

- A) One hundred percent (100%) of the final adjusted Contract amount, if such amount is \$50,000.00 or less;
- B) Fifty percent (50%) of the final adjusted Contract amount, if such amount be greater than \$50,000.00 but less than \$250,000.00; and,
- C) Twenty-five percent (25%) of the final adjusted contract amount, if such amount is \$250,000.00 or more.

The Bond and Surety shall be satisfactory to the Union County Counsel. The Surety shall hold a Certificate of Authorization to do business in the State of New Jersey and shall conform to P.L. 1995 c.384, codified as N.J.S.A. 2A:44-143, 144. The Surety Disclosure Statement and Certification required by N.J.S.A. 2A: 44-143, 144, shall be attached to the Bond. Such Maintenance Bond shall remain in full force and effect for a

period of one (1) year from the date of Final Completion. Such Maintenance Bond shall also provide that the Contractor and the Surety guarantee to replace for the said period of one (1) year from the date of Final Completion, all Work performed and/or all materials furnished that were not performed or were not furnished in accordance to the terms and performance requirements of the Contract Documents, and will make good any defects thereof which become apparent before the expiration of one (1) year. If, during that period, any part of the Project, in the judgment of the Engineer, is found defective, the Contractor will repair or replace same within five (5) days of receipt of notice from the County Engineer. If the Contractor refuses or neglects to do such Work in the time specified, the County Engineer may have the Work done by others and the Contractor or his Surety thereof will pay the cost.

The Contractor will furnish the County a Maintenance Bond for a percentage of the final adjusted contract price, as stated above. The one (1) year period will start the day of Final Completion of Project by the County. Final payment is conditional on the receipt of a maintenance bond in a form acceptable to County Counsel.

#### 15. TRAFFIC AND STREET MAINTENANCE

The Work must be started and performed by the Contractor in such a manner as to minimize delays to the traveling public. It must be completed in a timely fashion, with little or no inconvenience to traffic and pedestrians, where such inconvenience may be avoided.

All municipal, county, and state roadways shall remain open to traffic unless otherwise provided for in the technical specifications.

If modified traffic patterns are authorized in order to provide a safe working or traveling environment, the Contractor is responsible for providing all equipment, barrels, cones, signs, and barricades to implement the work zone and detours, unless otherwise specified in the technical specifications. All work zones and detours shall be established in accordance with the technical plans and specifications if provided or in strict compliance with the current version of the Manual for Uniform Traffic Control Devices (MUTCD). The Contractor shall obtain approval for these work zones and detour plans from the Municipal Police or applicable police agency and the Union County Bureau of Traffic Maintenance prior to implementation.

All traffic control plans shall provide for safe movement of vehicular, bicycle, and pedestrian traffic. Particular attention shall be given to requirements of the Americans with Disabilities Act.

No portion of any street or alleyway may be used for the storage of any materials or equipment without the approval of the Municipal Police or other applicable police

G-10 Revised: 2020.03.03 agency. Sidewalks, gutters, drains, fire hydrants and private drives shall be maintained for their intended use unless specifically approved by the County Engineer.

Upon suspension of Work, at the end of the day or for protracted periods, the Contractor shall remove all rubbish and materials from the Work site to the approved storage/staging location. All road cuts, saw cuts, and trenches that may pose hazard to vehicular, pedestrian, or bicycle traffic, to include handicapped users, shall be filled to the surface of the roadway or sidewalk. At no time will steel plates or settled trenches be allowed at the daily suspension of Work, unless specifically approved by the County Engineer.

Use of Traffic Control Officers shall be determined by the County in accordance with the provisions of N.J.S.A. 40A:11-23.1(c). If applicable to the Project, the County shall have provided an allowance for same as set forth in the Bid Form.

With respect to pedestrian traffic, the Contractor shall install signs restricting access of the general public and, as necessary, Union County employees to the area of construction. The Contractor shall provide safe access to required areas and place physical barriers to restricted areas. These barriers may range from caution tape to actual barriers, at the direction of the County Engineer.

#### 16. CONTRACTOR'S EMPLOYEES

The Contractor must employ only suitable and competent labor in the Work, and must remove from the Work any incompetent, unsuitable, or disorderly person upon complaint from the County Engineer.

The parties to any contract resulting from this proposal do hereby agree that the provisions of N.J.S.A. 10:2-1 through 10:2-4 (discrimination in employment on public works contracts): 34:11-56.25 et seq. (payment of prevailing rate of wages determined pursuant to N.J.S.A. 34:11-56.30 by the Commissioner), and the Rules and Regulations promulgated pursuant thereto, are hereby made a part of any contract and are binding upon them.

There will be no discrimination against any employee who is employed in the Work to be covered by any contract resulting from this bid because of age, race, creed, color, national origin, ancestry, marital status or sex.

Any person, firm, or corporation violating the provisions of this Section will be deemed and judged a disorderly person.

#### 17. OWNERSHIP DISCLOSURES REQUIRED

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Pursuant to P.L. 2016, c. 43, codified as N.J.S.A. 52:25-24.2.no corporation, partnership, or limited liability company shall be awarded any contract nor shall any agreement be entered into for the performance of any work or the furnishing of any materials or supplies the County unless prior to the receipt of the bid or accompanying the bid, of said corporation, said partnership, or said limited liability company there is submitted a statement setting forth the names and addresses of all stockholders in the corporation who own ten percent (10%) or more of its stock, of any class, or of all individual partners in the partnership who own a ten percent (10%) or greater interest therein, or of all members in the limited liability company who own a ten percent (10%) or greater interest therein, as the case may be. If one or more such stockholder or partner or member is itself a corporation or partnership or limited liability company, the stockholders holding ten percent (10%) or more of that corporation's stock, or the individual partners owning ten percent (10%) or greater interest in that partnership, or the members owning ten percent (10%) or greater interest in that limited liability company, as the case may be, shall also be listed. The disclosure shall be continued until names and addresses of every non corporate stockholder, and individual partner, and member, exceeding the ten percent (10%) ownership criteria has been listed.

To comply with this section, a bidder with any direct or indirect parent entity which is publicly traded may submit the name and address of each publicly traded entity and the name and address of each person that holds a ten percent (10%) or greater beneficial interest in the publicly traded entity as of the last annual filing with the federal Securities and Exchange Commission ("SEC") or the foreign equivalent, and, if there is any person that holds a ten percent (10%) or greater beneficial interest, also shall submit links to the websites containing the last annual filings with the federal SEC or the foreign equivalent and the relevant page numbers of the filings that contain the information on each person that holds a ten percent (10%) or greater beneficial interest.

(See forms attached)

#### 18. NON-COLLUSION AFFIDAVIT

The Bidder shall submit with its bid either the attached completed "Non-Collusion Affidavit" or a statement of non-collusion with verbiage similar to same.

# 19. EQUAL EMPLOYMENT OPPORTUNITY COMPLIANCES

The successful bidder shall be required to complete and submit an Initial Project Workforce Report, New Jersey Department of Treasury Form AA-201, upon notification of award. Failure to submit this completed form may result in the Contract being terminated.

The successful bidder shall also be required to submit a copy of its Monthly Project Workforce Report, New Jersey Department of Treasury Form AA-202, to the

G-12 Revised: 2020.03.03 New Jersey Department of Treasury's Division of Public Contracts Equal Employment Opportunity Compliance and to the Board.

#### 20. COMPLIANCE WITH NEW JERSEY PREVAILING WAGE ACT

The County of Union, in order to fulfill the requirements of N.J.S.A. 34:11-56.25 et seq, requires that the following additional conditions be strictly followed. The bidders represent that he is not listed or is not on record in the Office of the Commissioner or the Department of Labor and Workforce Development as one who failed to pay prevailing wages in accordance with the provisions of this Act. The bidder agrees to the inclusion of a contract provision upon award which specifically requires said Contractor to fully comply with each and all of the requirements of the aforesaid Act as it relates to prevailing rates of wages on public contracts as set forth in the New Jersey Prevailing Wage Act, P.L. 1963, Chapter 150 and P.L. 1974, Chapter 64.

A Copy of the Prevailing Wage Rates is attached for your reference. Applicable rates are those wages and fringe benefit rates in effect on the date the contract is awarded. All predetermined rate increases listed at the time the contract award must also be paid, beginning on the dates specified. Rates may change between the time of issuance of this determination and the award of the public works contract. Therefore, prior to the award of the contract, verification must be made with the Public Contracts section, to insure that the rates contained in this determination are still prevailing.

The Contractor agrees to abide and be bound by each and all of the said statutory provisions with respect to the payment of prevailing rates of wages, and acknowledges that the County reserves the right to terminate the Contractor's (or his subcontractors') right to proceed with the scope of Work, or such portion thereof that relates to the failure to pay prevailing rates of wages. In such event or under the terms of N.J.S.A. 34:11-56.27, the Contractor and his surety will be liable to the County of Union for any excess costs occasioned by such a violation.

The Contractor or subcontractors for this Project will post the Prevailing Wage Rates for each craft and classification involved as determined by the Commissioner of Labor and Industry, including the effective date of any changes thereof, in prominent and easily accessible places at the site of the Work or at such place or places as are used by them to pay workmen their wages.

The County of Union requires a copy of payroll records from the Contractor and subcontractors. Payroll records shall be submitted with each voucher request for payment. Prevailing wage rates may be obtained from the New Jersey Labor, Division of Workplace Standards, Public Contracts Section, (609-292-2259).

In addition to compliance with the New Jersey Prevailing Wage Act, the County requires compliance with procedures established by Resolution No. 2014-0408 adopted

by the Union County Board of Chosen Freeholders on May 8, 2014. The resolution is furnished in Section 51 of these General Specifications.

#### UNION LABOR IS PREFERRED ON ALL COUNTY WORK

The foregoing reference to specific laws will not be deemed to be a limitation of obligation of the Contractor to perform his obligations in full compliance with the provisions and requirements of all federal and state statues and local ordinances applicable to the Work to be done under the contract.

It is agreed and understood that any contracts and/or orders placed as a result of this proposal will be governed and construed and the rights and obligations of the parties hereto will be determined in accordance with the laws of the State of New Jersey.

Upon completion of the Work, the Contractor will furnish a Certification of Compliance with the New Jersey Prevailing Wage Act. The certificate in a form acceptable to County Counsel is a condition of the final payment. (See form attached)

#### 21. BRAND NAME OR EQUAL

When the Specifications, Forms, and other Contract Documents use "brand name or equivalent" or similar language, the listed brand name shall serve as a reference or point of comparison for the functional or operational characteristic desired for the goods or services being requested. Where a bidder attempts to submit an equivalent product for a brand name, it shall be the responsibility of the bidder to fully describe and document the product to be provided with the bid in order to establish the equivalence claim.

- A. If the Bidder proposes to offer substitute goods as an equal to those specified herein, the bidder shall so indicate with the Bid Proposal. For the purposes of this paragraph, a proposed item shall be considered equal to goods specified herein if:
  - 1. The County, in its sole discretion, determines that: (i) the goods conform substantially, even with deviations, to the brand name goods specified herein; (ii) the goods are equal to or greater than the brand name goods specified herein in terms of quality, durability, functionality, appearance, strength and design; (iii) the goods are capable, at least as well as the brand name goods specified herein, or performing with existing equipment; and (iv) the goods do not cost the County more than the brand name goods specified herein costs the County.

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- B. To offer substitute goods as an equal to those specified herein, it is necessary that:
  - The Bidder submits sufficient information with its bid to permit the County to determine that the goods are equivalent to the brand name goods specified herein, including, but not necessarily limited to the brand, catalog number and specifications/data sheets;
  - The Bidder fully identifies and describes the variations of the goods from the brand name goods specified herein on a separate sheet that is to be submitted with the bid proposal. Bidder's literature WILL NOT suffice in explaining exceptions to these specifications.
  - 3. The Bidder certifies that the goods (i) are similar in substance to the brand name goods specified, and (ii) are suited to the same use as the item specified;
- C. The County shall be allowed a reasonable time within which to evaluate the Bidder's proposal to offer substitute goods as an equal to those specified herein. The County shall be the sole judge of acceptability. No "or-equal" goods shall be ordered, delivered, assembled, set-up or utilized until the County's evaluation is complete. The County's determination as to equivalency shall be deemed final and absolute.

In the event the Bidder does not provide sufficient supporting documentation with the bid, it will be presumed and required that the brand name goods and services as described in the specifications will be provided.

#### 22. LINES AND GRADES

Normally, horizontal and vertical control points will be provided in the technical specifications. All other surveying will be the responsibility of the Contractor unless otherwise noted.

#### 23. NUMBER OF WORKING DAYS

In accordance with N.J.S.A. 40A:11-17, the Work for the within Project shall be completed as specified on the Time of Completion Form. See form attached

G-15 Revised: 2020.03.03 There shall be taken a deduction from the contract price, or any wages paid by the County, to any inspector(s) necessarily employed by it on the Work, for any number of days in excess of the number allowed in the specifications.

# 24. PROMPT PAYMENT OF CONSTRUCTION CONTRACTS (NJ Prompt Payment Act)

Pursuant to N.J.S.A. 2A:30A-1 et seq., payment to the Contractor, other than for Work done pursuant to a contact allowance, where applicable, shall be processed and paid as follows:

- 1. All contractor bills shall be either approved for payment, or notice provided as to why the bill or any portion of it will not be approved by the representative(s) of the governing body no later than the public meeting following 20 calendar days of the billing date as defined in the statute.
- 2. If the billing is approved, said bill shall be paid in the payment cycle following the meeting.

#### 25. STOPPING WORK ON ACCOUNT OF BAD WEATHER

Work must only be performed in weather suitable for the type of construction planned or underway. Extremes in temperature, humidity, precipitation, evaporation, etc. can detrimentally affect the constructed product. Refer to the Standard and Technical Specifications for specific items.

#### 26. ACCESS FOR OTHER CONTRACTORS

The Contractor for this Work will give proper access to other contractors who may be employed upon the Project and must not hinder or delay unnecessarily any Work that may be progressing under other contracts.

#### 27. CONDEMNED MATERIALS AND WORK

Any materials and or part of the Work that may be condemned by the County Engineer will be removed and replaced by the Contractor or otherwise rectified, as may be directed by the County Engineer. No payment will be made upon the Work until such faulty work has been made good as may be directed. In the event the Contractor refuses or neglects to make good such faulty work, he will be deemed to have abandoned the contract and proceedings may be taken against him as provided herein.

28. STORAGE

G-16 Revised: 2020.03.03 In the event that it is necessary for the Contractor to stockpile or store materials or equipment on the job site, the Contractor shall inform the County of such necessity and the County may offer available space, if any, for storage of such materials or equipment. The Contractor shall use said space only for such purpose. Any and all materials which may be stored in such space or which may be brought onto the job site at any time by the Contractor will be at the Contractor's sole risk. The County will not be responsible for loss of or damage to said materials or equipment for any cause whatsoever. The Contractor shall take necessary measures to protect any such storage area and shall be responsible for any and all damages.

#### 29. FINAL CLEAN UP

Upon completion of the Work, the Contractor will remove all equipment, unused materials, rubbish, etc., and will repair, or replace in an a manner acceptable to the County Engineer, all areas that may have been damaged in the prosecution of the Work. Same shall be a condition precedent to final payment. Should said Contractor fail to comply with this requirement, the County shall undertake the clean-up with its own forces and charge the cost of same against the Contractor's contract balance.

#### **30. SUB-LETTING OF WORK**

Except for the List of Subcontractors, pursuant to N.J.S.A. 40A:11-16 (See form attached), no portion of the Work will be sublet by the Contractor to any other entities, except with the consent of the County Engineer. A complete list of subcontractors must be submitted to the County Engineer at the preconstruction meeting. If the job does not warrant a preconstruction meeting, the Contractor must submit such list prior to the start of Work.

All Subcontractors will be subject to N.J.S.A. 34:11-56 et al.

N.J.S.A. 40A:11-16 requires the bidder to list in the bid sheets the name or names of all subcontractors involved in the following types of Work: plumbing and gas fitting and all kindred work, steam and hot water heating, ventilating apparatus, steam power plants and kindred work, electrical work, ornamental iron work, and structural steel. In addition, the County may require the identification of specific additional subcontractors. If these trades are expected to be part of the contract, such subcontractors should be listed on the "Subcontractor Identification Statement List of Subcontractors" and Bidder shall certify same on the accompanying sheet titled "Subcontractor Identification Certification". (See forms attached) Bidder's failure to submit these two forms shall be considered a material defect and result in rejection of Bidder's bid. Substitutions of any listed subcontractors pursuant to N.J.S.A. 40A:11-16 will not be permitted except with the consent of the County Engineer.

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#### 31. SAFETY

The Contractor shall observe all rules and regulations of the Federal, State, and local health officials. Attention is directed to Federal, State, and local laws, rules, and regulations concerning construction safety and health standards. The Contractor shall not require any worker to work in surroundings or under conditions that are unsanitary, hazardous, or dangerous to the worker's health or safety.

The Contractor shall admit to the site, without delay and without the presentation of an inspection warrant, any inspector of OSHA or other legally responsible agency involved in safety and health administration upon presentation of proper credentials.

The Contractor shall make available to the Contractor's employees, subcontractors, the County Engineer, and the public, all information pursuant to OSHA 29 CFR Part 1926.59 of The Hazard Communication Standard 29 CFR 1910.1200, and shall also maintain a file on each job site containing all Material Safety Data Sheets (MSDS) for products in use at the Project. These Material Safety Data Sheets shall be made available to the Engineer upon request.

The Contractor shall at all times conduct the Work to provide for the safety and convenience of the general public and protection of persons and property. The safety provisions of applicable laws, OSHA regulations, building and construction codes, and the rules and regulations of the New Jersey Department of Labor and Workforce Development shall be observed.

#### 32. QUALITY, SAFETY AND PERFORMANCE STANDARDS

All goods and services must be constructed and provided with the highest quality materials and workmanship. It is the intent of these specifications that only equipment equal to, or exceeding, the standard specified will be acceptable in order to protect the safety of the occupants of the Building.

#### 33. MATTERS NOT MENTIONED IN CONTRACT DOCUMENTS

Any Work, material, or method, not specifically described in these specifications, but shown upon the plans of the Work, will be carried out as shown on said plan.

#### 34. PERMITS

The Contractor will obtain all necessary permits required by law and provide the County with necessary approvals prior to commencement of permitted Work.

#### 35. CONTRACTOR TO PROVIDE PROOF OF PAYMENT

Upon the completion of the Work, the Contractor will furnish a General Release as proof that all claims for labor, materials, etc., have been settled by the Contractor.

G-18 Revised: 2020.03.03 The General Release, in a form acceptable to County Counsel, is a condition of final payment.

#### 36. CHANGE ORDERS

The applicability of change orders and change order procedures shall comply with N.J.S.A. 40A:11-16.7 and N.J.A.C. 5:30-11.1 et seq., "Change Orders and Open End Contracts".

#### 37. SUPPLEMENTAL WORK

In case any supplemental work is necessary, it will be performed by the Contractor at a price fixed by agreement between the Contractor and the County Engineer and approved by the County as specified in Section 36. The Contractor will do no supplemental work on any character, for which the Contractor will demand pay, except upon the written order of the County.

#### 38. FORM OF CONTRACT

The Contract will be subject to all statutory provisions on the matter of Public Works, Public Contracts, The Law Against Discrimination, the Laws Governing Affirmative Action and Prevailing Rates of Wages under the laws of New Jersey.

The Agreements shall be executed by both parties not later than twenty-one (21) days from the date of the award by the County (Sundays and holidays excluded); however, such time frame may be extended by agreement of the parties.

#### 39. PROGRESS PAYMENTS

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

(Refer to the Owner/Contractor Agreement for Retainage and other conditions pertaining to payment and the application of N.J.S.A. 2A:30A-1 et seq.)

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

No payment shall be made without Contractor having provided all submittals set forth in this Section, and the approval of same by the County.

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For contracts exceeding \$100,000.00, monthly payments will be made on the Work to the extent of 98% of the value of the Work done which is considered to be retainage.

For contracts less than \$100,000.00, monthly payments will be on the Work to the extent of 90% of the value of the Work done. In lieu of the retainage, the Contractor will, at his option, deposit with the County Counsel negotiable bearer bonds of the State of New Jersey or any political subdivision thereof, equal to the amount otherwise withheld as retainage.

When the Project is completed, the final cost of the Project will be based on actual quantities of authorized Work done under each item scheduled in the bidding sheet and approved Change Orders, if any. The money due to the Contractor as determined by said final certificate after deduction of previous monthly payments on account, will be paid to the Contractor in accordance with the terms of the contract dealing with Prompt Payment, providing, however that before such final payment is made, all outstanding claims against the Contractor must be satisfied. Before final payment is released, the Contractor must furnish: a) Maintenance Bond (see Section 6 of these general specifications); b) Certification of Compliance, New Jersey Prevailing Wage Act (see Sections 21 and 51); and c) General Release (see Section 36) in a form satisfactory to County Counsel; d) complete set of as-built plans in the latest AutoCad on compact disc; and e) a complete set of in-progress photos in jpg, jpeg, or bmp digital format on a compact disc.

#### 40. INSPECTION

The Work must be done in accordance with the plans and specifications, and will be inspected by the County Engineer. An inspector may be placed upon the Work at any time by the County Engineer to see that the plans, specifications, and instructions of the County Engineer are carried out. In connection herewith, bidders are referred to N.J.S.A. 40A:11-17.

#### 41. DAMAGES

The Contractor will be held responsible for all damages that may occur to Work, or to persons or property by reason of the nature of the Work or from the elements, or by reason of inadequate protection of the Work, or from any carelessness or negligence on his part or on the part of his employees. The County will withhold payments on the Work until all suits or claims for damages sustained on, or by reason of, this Work will have been settled by the Contractor.

The construction and final completion of this Work will be guaranteed by the Contractor. Any damages that may be done to the Work or any part thereof, by the elements or otherwise, during its construction, will be made good by the Contractor.

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### **42. LIQUIDATED DAMAGES**

If the Project is not completed within the time specified herein or within such further time as may have been granted by the County Engineer, then the Contractor hereby agrees to pay to the County as liquidated damages, but not as a penalty, \$1,000.00 per day for each and every calendar day that he is in default on time to complete the Work. The said sum will be deducted from moneys due the Contractor and if the damages exceed this amount, then the Contractor or his Surety Company will pay the excess. These damages may be waived at the option of the County.

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#### 43. AFFIRMATIVE ACTION REQUIREMENTS

# EXHIBIT B (Revised 4/10)

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

#### CONSTRUCTION CONTRACTS

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

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

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

The contractor or subcontractor will send to each labor union, with which it has a collective bargaining agreement, a notice, to be provided by the agency contracting officer, advising the labor union or workers' representative of the contractor's commitments under this act and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

The contractor or subcontractor, where applicable, agrees to comply with any regulations promulgated by the Treasurer, pursuant to N.J.S.A. 10:5-31 et seq., as amended and supplemented from time to time and the Americans with Disabilities Act.

When hiring or scheduling workers in each construction trade, the contractor or subcontractor agrees to make good faith efforts to employ minority and women workers in each construction trade consistent with the targeted employment goal prescribed by N.J.A.C. I7:27-7.2; provided, however, that the Division may, in its discretion, exempt a contractor or subcontractor from

G-22 Revised: 2020.03.03 compliance with the good faith procedures prescribed by the following provisions, A, B and C, as long as the Division is satisfied that the contractor or subcontractor is employing workers provided by a union which provides evidence, in accordance with standards prescribed by the Division, that its percentage of active "card carrying" members who are minority and women workers is equal to or greater than the targeted employment goal established in accordance with N.J.A.C. I7:27-7.2. The contractor or subcontractor agrees that a good faith effort shall include compliance with the following procedures:

- If the contractor or subcontractor has a referral agreement or arrangement with a union for a construction trade, the contractor or subcontractor shall, within three business days of the contract award, seek assurances from the union that it will cooperate with the contractor or subcontractor as it fulfills its affirmative action obligations under this contract and in accordance with the rules promulgated by the Treasurer pursuant to N.J.S.A. 10:5-31 et. seg., as supplemented and amended from time to time and the Americans with Disabilities Act. If the contractor or subcontractor is unable to obtain said assurances from the construction trade union at least five business days prior to the commencement of construction work, the contractor or subcontractor agrees to afford equal employment opportunities minority and women workers directly, consistent with this chapter. If the contractor's or subcontractor's prior experience with a construction trade union, regardless of whether the union has provided said assurances, indicates a significant possibility that the trade union will not refer sufficient minority and women workers consistent with affording equal employment opportunities as specified in this chapter, the contractor or subcontractor agrees to be prepared to provide such opportunities to minority and women workers directly, consistent with this chapter, by complying with the hiring or scheduling procedures prescribed under (B) below; and the contractor or subcontractor further agrees to take said action immediately if it determines that the union is not referring minority and women workers consistent with the equal employment opportunity goals set forth in this chapter.
- (B) If good faith efforts to meet targeted employment goals have not or cannot be met for each construction trade by adhering to the procedures of (A) above, or if the contractor does not have a referral agreement or arrangement with a union for a construction trade, the contractor or subcontractor agrees to take the following actions:
- (I) To notify the public agency compliance officer, the Division, and minority and women referral organizations listed by the Division pursuant to N.J.A.C. 17:27-5.3, of its workforce needs, and request referral of minority and women workers;
- (2) To notify any minority and women workers who have been listed with it as awaiting available vacancies;
- (3) Prior to commencement of work, to request that the local construction trade union refer minority and women workers to fill job openings, provided the contractor or subcontractor has a referral agreement or arrangement with a union for the construction trade;
- (4) To leave standing requests for additional referral to minority and women workers with the local construction trade union, provided the contractor or subcontractor has a referral agreement or arrangement with a union for the construction trade, the State Training and Employment Service and other approved referral sources in the area;

- (5) If it is necessary to lay off some of the workers in a given trade on the construction site, layoffs shall be conducted in compliance with the equal employment opportunity and non-discrimination standards set forth in this regulation, as well as with applicable Federal and State court decisions;
- (6) To adhere to the following procedure when minority and women workers apply or are referred to the contractor or subcontractor:
- (i) The contactor or subcontractor shall interview the referred minority or women worker.
- (ii) If said individuals have never previously received any document or certification signifying a level of qualification lower than that required in order to perform the work of the construction trade, the contractor or subcontractor shall in good faith determine the qualifications of such individuals. The contractor or subcontractor shall hire or schedule those individuals who satisfy appropriate qualification standards in conformity with the equal employment opportunity and non-discrimination principles set forth in this chapter. However, a contractor or subcontractor shall determine that the individual at least possesses the requisite skills, and experience recognized by a union, apprentice program or a referral agency, provided the referral agency is acceptable to the Division. If necessary, the contractor or subcontractor shall hire or schedule minority and women workers who qualify as trainees pursuant to these rules. All of the requirements, however, are limited by the provisions of (C) below.
- (iii) The name of any interested women or minority individual shall be maintained on a waiting list, and shall be considered for employment as described in (i) above, whenever vacancies occur. At the request of the Division, the contractor or subcontractor shall provide evidence of its good faith efforts to employ women and minorities from the list to fill vacancies.
- (iv) If, for any reason, said contractor or subcontractor determines that a minority individual or a woman is not qualified or if the individual qualifies as an advanced trainee or apprentice, the contractor or subcontractor shall inform the individual in writing of the reasons for the determination, maintain a copy of the determination in its files, and send a copy to the public agency compliance officer and to the Division.
- (7) To keep a complete and accurate record of all requests made for the referral of workers in any trade covered by the contract, on forms made available by the Division and submitted promptly to the Division upon request.
- (C) The contractor or subcontractor agrees that nothing contained in (B) above shall preclude the contractor or subcontractor from complying with the union hiring hall or apprenticeship policies in any applicable collective bargaining agreement or union hiring hall arrangement, and, where required by custom or agreement, it shall send journeymen and trainees to the union for referral, or to the apprenticeship program for admission, pursuant to such agreement or arrangement. However, where the practices of a union or apprenticeship program will result in the exclusion of minorities and women or the failure to refer minorities and women consistent with the targeted county employment goal, the contractor or subcontractor shall consider for employment persons referred pursuant to (B) above without regard to such agreement or arrangement; provided further, however, that the contractor or subcontractor shall

not be required to employ women and minority advanced trainees and trainees in numbers which result in the employment of advanced trainees and trainees as a percentage of the total workforce for the construction trade, which percentage significantly exceeds the apprentice to journey worker ratio specified in the applicable collective bargaining agreement, or in the absence of a collective bargaining agreement, exceeds the ratio established by practice in the area for said construction trade. Also, the contractor or subcontractor agrees that, in implementing the procedures of (B) above, it shall, where applicable, employ minority and women workers residing within the geographical jurisdiction of the union.

After notification of award, but prior to signing a construction contract, the contractor shall submit to the public agency compliance officer and the Division an initial project workforce report (Form AA 201) electronically provided to the public agency by the Division, through its website, for distribution to and completion by the contractor, in accordance with N.J.A.C. 17:27-7. The contractor also agrees to submit a copy of the Monthly Project Workforce Report once a month thereafter for the duration of this contract to the Division and to the public agency compliance officer.

The contractor agrees to cooperate with the public agency in the payment of budgeted funds, as is necessary, for on-the-job and/or off-the-job programs for outreach and training of minorities and women.

(D) The contractor and its subcontractors shall furnish such reports or other documents to the Division of Public Contracts Equal Employment Opportunity Compliance as may be requested by the Division from time to time in order to carry out the purposes of these regulations, and public agencies shall furnish such information as may be requested by the Division of Public Contracts Equal Employment Opportunity Compliance for conducting a compliance investigation pursuant to <u>Subchapter IO of the Administrative Code (NJAC 17:27)</u>.

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#### 44. INVESTMENT ACTIVITIES IN IRAN

Pursuant to *N.J.S.A.* 52:32-55 *et seq.*, prohibits State and local public contracts with persons or entities engaging in certain investment activities in energy or finance sectors of Iran.

# 45. COMPLIANCE WITH THE PUBLIC WORKS CONTRACTOR REGISTRATION ACT - (N.J.S.A. 34:11-56.48 et. seq.)

Pursuant to the above-referenced law, Bidders are required to be registered with the New Jersey Department of Labor and Workforce Development and to possess a current certificate by said Department indicating compliance with the Act prior to the time and date that bids are received. Bidders are notified of this requirement of their compliance. Such certificates or applications shall also be provided for each Subcontractor furnishing plumbing and gas fitting, steam and hot water heating and ventilating apparatus, and all kindred work, steam power plants and kindred work, electrical work, structural steel and ornamental iron work, and such other subcontractors as the specifications require relative to prior identification.

#### 46. UTILITIES

Attention of the bidder is directed to the fact that the approximate locations of known utility structures and facilities that may be encountered within and adjacent to the limits of the Work are shown on the plans and described herein. The accuracy and completeness of this information is not guaranteed by the County Engineer and the bidder is advised to ascertain for himself all the facts concerning the location of these and other utilities.

The Contractor will not proceed with his Work until he has made diligent inquiries of all public utility and municipal officials to determine the exact location of all-underground structures and pipes within the site of the Project. The Contractor will notify utility owners not less than ten (10) days in advance of the time he proposes to perform any Work that will endanger or affect their facilities in compliance with **New Jersey One-Call.** In excavating in any part of the Work, care must be taken not to remove or damage any gas, water, sewer, or other pipe, conduit, or structure, - public or private - without the concurrence of the owner and the County Engineer. The Contractor will, at his own expense, shore up, secure and maintain a continuous flow in such structures, and will keep them in repair until final acceptance of the Work.

When pipes or other structures are encountered or when the removal, relocation or protection of these utilities are necessary in carrying out the Project as planned, the Contractor will cooperate with the owner of said utilities and will permit the owners or their agents access to the site of the Work in order to relocate or protect their facilities and not hinder or delay unnecessarily the Work of the owners in moving same. No extra

G-26 Revised: 2020.03.03 allowance of payment will be made to the Contractor for the use of any materials, equipment, etc., or for the performance of any Work in connection with the moving of said structures unless the Contractor is specifically ordered by the County Engineer to furnish such materials, equipment, or services. If directed by the County Engineer to do any Work or furnish any materials or equipment, payment will be allowed the Contractor in accordance with the unit prices bid for such Work, or, if such items are not scheduled in the proposal, such Work shall be allowed "Supplemental Work" as provided in Section 39 of these general specifications. The corporations, companies, agencies or municipalities owning or controlling the utilities, and the name, and telephone numbers are listed in the beginning of the Technical Specifications.

#### 47. MATERIAL COMPLIANCE AND SHOP DRAWINGS

The Contractor will require the manufacturer or supplier to furnish three (3) copies of Certification of Compliance with each delivery of materials, components and manufactured items for the Project. Two (2) copies will be furnished to the County Engineer; one copy will be retained by the Contractor. Certificates of Compliance will contain the following information:

- 1. Project to which material is consigned;
- 2. Name of the Contractor to which the material is supplied;
- Kind of material supplied;
- 4. Quantity of material represented by the Certificate;
- 5. Means of identifying the consignment, such as label marking, seal number, etc.;
- 6. Date and method of shipment;
- 7. That the material is in conformity with the pertinent specifications stated in the certificate: and
- 8. Signature of a person having legal authority to bind the supplier.

The Contractor will submit to the County Engineer for his approval five (5) copies of complete and fully detailed shop or working drawings for those items listed in the beginning of the technical specifications.

Each drawing will identify the name of the job, location and Contractor.

All drawings will be approved in accordance with the standard specifications. Refer to the Technical Specifications for specific items.

All materials or articles used in the Work will be of American manufacture, insofar as same are available, in conformance with N.J.S.A. 40A:11-18.

#### 48. PRECONSTRUCTION

In order to provide full coordination of this Project among the parties concerned, the County Engineer will arrange for a preconstruction meeting between the Contractor, County Engineer and other interested parties as soon as possible after the contract is executed. At this meeting the Contractor will present his proposed schedule of Work which shall be subject to review and approval of the County through its designated representatives.

#### 49. DISPUTES UNDER THE CONTRACT

A dispute arising under the Contract shall be submitted in writing to the County Engineer with all facts and supporting data. The County Engineer will review the dispute and issue his decision or request additional facts or documentation after which he will render his decision.

In the event the dispute is not then resolved, the matter shall, pursuant to law, be submitted to mediation before being submitted to a court of competent jurisdiction venued in Union County.

The County Engineer will notify the County Counsel when a matter is to be submitted to mediation. The County Counsel will communicate with the parties and inform them of the procedures to be followed in making such a submission.

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#### 50. CONTRACTOR BUSINESS REGISTRATION CERTIFICATE

Pursuant to N.J.S.A. 52:32-44, the County of Union is prohibited from entering into a contract with an entity unless the bidder/proposer/contractor, and each subcontractor that is required by law to be named in a bid/proposal/contract has a valid Business Registration Certificate on file with the Division of Revenue and Enterprise Services within the Department of the Treasury.

Prior to contract award or authorization, the contractor shall provide the County of Union with its proof of business registration and that of any named subcontractor(s).

Subcontractors named in a bid or other proposal shall provide proof of business registration to the bidder, who in turn, shall provide it to the County of Union prior to the time a contract, purchase order, or other contracting document is awarded or authorized.

During the course of contract performance:

- the contractor shall not enter into a contract with a subcontractor unless the subcontractor first provides the contractor with a valid proof of business registration.
- 2) the contractor shall maintain and submit to the County of Union a list of subcontractors and their addresses that may be updated from time to time.
- 3) the contractor and any subcontractor providing goods or performing services under the contract, and each of their affiliates, shall collect and remit to the Director of the Division of Taxation in the Department of the Treasury, the use tax due pursuant to the Sales and Use Tax Act, (N.J.S.A. 54:32B-1 et seq.) on all sales of tangible personal property delivered into the State. Any questions in this regard can be directed to the Division of Taxation at (609)292-6400. Form NJ-REG can be filed online at http://www.state.nj.us/treasury/revenue/busregcert.shtml.

Before final payment is made under the contract, the contractor shall submit to the County of Union a complete and accurate list of all subcontractors used and their addresses.

Pursuant to N.J.S.A. 54:49-4.1, a business organization that fails to provide a copy of a business registration as required, or that provides false business registration information, shall be liable for a penalty of \$25 for each day of violation, not to exceed \$50,000, for each proof of business registration not properly provided under a contract with a contracting agency.

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#### 51. BID PROTEST – LEGAL FEES AND COSTS

In the event a Bidder unsuccessfully challenges a Bid Submission by filing an action in a court of law concerning same, said Bidder shall be responsible for payment of reasonable legal costs and fees incurred by the County relating to said protest.

#### 52. AMERICAN GOODS AND PRODUCTS WHERE POSSIBLE

Bidder shall comply with the requirements of N.J.S.A. 40A:11-18 and use only manufactured and farm products of the United States, wherever available, for the Project.

#### 53. NEW JERSEY PAY-TO-PLAY REQUIREMENTS

This Contract is required by law to be publicly advertised for bids. As such, lists of political contributions pursuant to N.J.S.A. 19:44A-1 et seq. are NOT REQUIRED to be provided with the bids.

#### 54. STATEMENT OF EQUIPMENT TO BE USED IN CONSTRUCTION

Pursuant to N.J.S.A. 40A:11-20 entitled Certificate of Bidder Showing Ability to Perform Contract, the County requires a Certification from all bidders submitting a bid showing that the Bidder owns, leases, or controls all necessary equipment required by the Project Plans and Specifications. All bidders shall provide this information at the time of the bid opening using the attached form entitled, "CERTIFICATE OF BIDDER SHOWING ABILITY TO PERFORM CONTRACT".

If the Bidder is not the actual owner of the equipment, it shall state the source from which the equipment will be obtained and shall attach a certificate from the owner or person in control of the equipment demonstrating that the equipment owner has granted the Bidder control of the requisite equipment during such time as may be necessary for completion of the portion of the contract for which the equipment is necessary.

#### 55. NEW JERSEY SALES AND USE TAX REQUIREMENTS.

Contractors are required to comply with the following:

New Jersey Sales and Use Tax Requirements: All contractors with subcontractors, or any of their affiliates, who enter into contracts for the provision of goods or services with or for New Jersey local government entities, are required to collect and remit to the New Jersey Director of Taxation in the Department of the Treasury the use tax due on all of their sales of tangible personal property delivered into the State of New Jersey pursuant to the "Sales and Use Tax Act," (N.J.S.A. 54:32B-1 et seq.),

G-30 Revised: 2020.03.03 regardless of whether the tangible personal property is intended for a contract with the contracting agency. This tax shall be remitted for the term of the Contract.

For purposes herein "affiliate" shall mean any entity that: (a) directly, indirectly, or constructively controls another entity, (b) is directly, indirectly, or constructively controlled by another entity, or (c) is subject to the control of a common entity. For purposes of the immediately preceding sentence, an entity controls another entity if it owns, directly or indirectly, more than fifty percent (50%) of the ownership interest in that entity. NJSA 52:32-44(g)(3).

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#### EDWARD T. OATMAN COUNTY MANAGER

# MICHELLE HAGOPIAN, ASSISTANT DIRECTOR DIRECTOR / DIVISION OF PURCHASING

### **BID DOCUMENT SUBMISSION CHECKLIST**

ALL SIGNATURES AND SEALS SHALL BE ORIGINALS UNLESS OTHERWISE SPECIFIED BID SHEETS SHOULD NOT BE SUBMITTED DOUBLE SIDED PAGES, (SINGLE SIDE ONLY)

PLEASE SUBMIT BID DOCUMENTS ON SINGLE SIDED PAPER ONLY, WITH THE EXCEPTION OF THE SURETY AND BID BOND DOCUMENTS.  IN ACCORDANCE WITH THE BID SPECIFICATIONS I HAVE REVIEWED, COMPLETED / EXECUTED AND INCLUDED THE FOLLOWING FORMS:			
		Bid	Form Page (Signed, Dated and Bid on all alternatives applicable to the Work).
		Sec	curity in the form of:  Bid bond in an amount equal to 10% of the total amount of this bid not to exceed \$20,000.00; or Certified check or cashier's check in the amount of 10% of this bid not to exceed \$20,000.00
If you Per The Sur reje the	issent of Surety form signed by a Surety Company if the total amount of your Bid is over \$36,000.00. Four bid is accepted, the Surety Company that provided the Consent shall be required to furnish a formance, Labor and Materials Bond in the amount of 100% of the award of the contract. County of Union has provided its Consent of Surety form for your use. The use of this form by your ety Company will expedite the bid review process and eliminate the possibility of having your bid ected. If, however, you should need to use another form, please use language similar to that used or Union County form and avoid making any additions or deletions to the Union County form language eu of the Consent of Surety you may submit a Certified Check in the full amount of the bid.		
	ATEMENT OF BIDDER OWNERSHIP. Pursuant to N.J.S.A. 52:25-24.2, which includes <b>BOTH</b> of the owing documents:		
-	Bidder Signature Page Bidder Disclosure Statement (Fill out 2 pages completely)		
	BCONTRACTOR IDENTIFICATION. Pursuant to N.J.S.A. 40A:11-16, which includes <b>BOTH</b> of the owing documents:		
- -	Subcontractor Identification Statement: List of Subcontractors (only for certain types of work) Subcontractor Identification Certification		
	nowledgement of Addendum form: (This form is to be used only when an addendum has been led to the specifications).		
Reg bec	opy of the State of New Jersey Department of the Treasury, Division of Revenue, <b>Business gistration Certificate ("BRC")</b> may be included with the bids to expedite the contract process rause the bidder is required to provide the County of Union with its proof of business registration and to of any named subcontractor(s) prior to contract award or authorization.		

	A copy of the State of New Jersey Department of the Treasury, Division of Revenue, <b>Business Registration Certificate ("BRC")</b> of all named or listed subcontractors (List of Subcontractors) in a Construction bid may be included with the bid as the BRC(s) for each named or listed subcontractors in order to expedite the contract process. Subcontractors named in a bid or other proposal shall provide proof of business registration to the bidder, who in turn, shall provide it to the County of Union prior to the time a contract, purchase order, or other contracting document is awarded or authorized.
	Affirmative Action Requirement
E	Experience Statement
(	Certificate of Bidder showing ability to perform Contract
1	Non-Collusion Affidavit – Fill out completely and notarize
	Certificates from New Jersey Department of Labor and Workforce Development – Public Works Contractor Registration Act. (Only for certain types of work)
F	Federal Attachments (If applicable)
1	NJDPMC Certificate / Notice of Classification (If applicable)
	Americans with Disabilities Act
	Statement of Bidder's Qualifications
0	Contractor Performance Record
	Affidavit Regarding List of Debarred, Suspended or Disqualified Bidders
F	Prior Negative Experience Questionnaire
0	Contractor's Certification of Compliance – New Jersey Prevailing Wage Act
ι	Uncompleted Contracts Affidavit (For Bidder, if applicable) MUST ALSO PROVIDE DPMC FORM 701
0	Certificate of Insurance Statement
0	Collection of Use Tax on Sales to Local Government Statement
7	Fime of Completion
[	Disclosure of Investment Activities in Iran Certification Form
I HAVE	TAKEN THE FOLLOWING ACTIONS:
\	/isited the site and attended the Pre-Bid Meeting (Where applicable)
	Reviewed the Contract Documents (including any permits the County or its professionals may have obtained), Work, Site, Locality, and Local Conditions and Laws and Regulations that in any manner may affect Cost, Progress, Performance or Furnishing of Work.
F	Reviewed Bond Requirements
F	Provided Proof of Compliance with New Jersey Prevailing Wage Act
F	Reviewed Form of Owner/Contractor Agreement and General Conditions to the Contract

Bidder's Name\_\_\_\_\_

NOTE: QUESTIONS PERTAINING TO THIS BID ARE TO BE DIRECTED TO THE DIVISION OF PURCHASING AT <a href="mailto:ucbids@ucnj.org">ucbids@ucnj.org</a>.

Bidder's Name
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# **BIDDING DOCUMENTS**

The Bidding Documents consist of the following items:

- ADDENDA, if issued
- CLARIFICATIONS, if issued
- INSTRUCTION TO BIDDERS
- BID FORM
- SPECIFICATIONS: As outlined in the Table of Contents and included in the Project Manual.
- DRAWINGS:
   As per List of Drawings, indicated on the Project Title Sheet.

### **BID FORM**

I/We have carefully examined the plans, specifications, and advertisement for bid for the

Intersection Improvements, Rahway Avenue & Lamberts Mill Road (CR606) and West Broad Street (CR653) & Scotch Plains Avenue Town of Westfield, County of Union, New Jersey BA#14-2020; UNION COUNTY ENGINEERING PROJECT #2010-017

that is on file in the Union County Division of Engineering. I/We have inspected the site of the work and will contract to do all the work and furnish all materials mentioned in said plans and specifications. Work will be accomplished in the manner prescribed therein.

#### **BASE BID ITEMS:**

ITEM NO	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL
1	CLEARING SITE	1	LS	\$	\$
2	TRAFFIC CONTROL	1	LS	\$	\$
3	TREE REMOVAL, OVER 36" DIAMETER	1	UNIT	\$	\$
4	NO ITEM	-	-	\$	\$
5	NO ITEM	-	-	\$	\$
6	NO ITEM	-	-	\$	\$
7	CONSTRUCTION LAYOUT	1	LS	\$	\$
8	MAST ARM SIGNS, TYPE SF	6	SF	\$	\$
9	MAST ARM SIGNS, TYPE DF	51	SF	\$	\$
10	2" RIGID METALLIC CONDUIT, EARTH	51	LF	\$	\$
11	4" RIGID NON-METALLIC CONDUIT, EARTH	500	LF	\$	\$
12	4" RIGID NON-METALLIC CONDUIT, ROADWAY	360	LF	\$	\$
13	GROUND WIRE, NO. 8 AWG	840	LF	\$	\$
14	SERVICE WIRE, NO. 6 AWG	115	LF	\$	\$
15	FOUNDATIONS, TYPE SFT	5	UNIT	\$	\$
16	FOUNDATIONS, TYPE SFT-H	3	UNIT	\$	\$
17	FOUNDATIONS, TYPE P-MC	2	UNIT	\$	\$
18	17" x 30" JUNCTION BOXES	9	UNIT	\$	\$
19	24" x 36" JUNCTION BOXES	1	UNIT	\$	\$
20	CONTROLLER ASSEMBLIES, 8 PHASE W/ BATTERY BACKUP	2	UNIT	\$	\$
21	METER CABINETS, TYPE T	2	UNIT	\$	\$
22	PEDESTRIAN SIGNAL ASSEMBLIES, TYPE W-1	2	UNIT	\$	\$
23	PEDESTRIAN SIGNAL ASSEMBLIES, TYPE W-2	1	UNIT	\$	\$
24	NO ITEM	-	UNIT	\$	\$
25	PUSH BUTTON ASSEMBLY	2	UNIT	\$	\$

Bidder's Name		

# **BID FORM (CONTINUED)**

# BASE BID ITEMS CONTINUED:

ITEM NO	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL
26	SINGLE MEMBER ARM & SHAFT ASSEMBLY, UC-SMA15-TB2-1	1	UNIT	\$	\$
27	SINGLE MEMBER ARM & SHAFT ASSEMBLY, UC-SMA15-TB2-2	1	UNIT	\$	\$
28	SINGLE MEMBER ARM & SHAFT ASSEMBLY, UC-SMA20-TB2-2	3	UNIT	\$	\$
29	SINGLE MEMBER ARM & SHAFT ASSEMBLY, UC-SMA25-TB2-1	1	UNIT	\$	\$
30	SINGLE MEMBER ARM & SHAFT ASSEMBLY, UC-SMA25-TB2-2	2	UNIT	\$	\$
31	TRAFFIC SIGNAL ASSEMBLIES, TYPE MM-1	7	UNIT	\$	\$
32	TRAFFIC SIGNAL CABLE, 2 CONDUCTOR	150	LF	\$	\$
33	TRAFFIC SIGNAL CABLE, 5 CONDUCTOR	260	LF	\$	\$
34	TRAFFIC SIGNAL CABLE, 7 CONDUCTOR	430	LF	\$	\$
35	TRAFFIC SIGNAL CABLE, 10 CONDUCTOR	2715	LF	\$	\$
36	VIDEO DETECTION SYSTEM	2	UNIT	\$	\$
37	POST MOUNTED SIGNS	48	SF	\$	\$
38	TRAFFIC STRIPES, LONG LIFE, THERMOPLASTIC	5389	LF	\$	\$
39	TRAFFIC MARKINGS, LONG LIFE, THERMOPLASTIC	172	SF	\$	\$
40	REMOVAL OF TRAFFIC STRIPES AND MARKINGS	1630	LF	\$	\$
41	HOT MIX ASPHALT PAVEMENT REPAIR	3	TONS	\$	\$
42	10" x VARIABLE HEIGHT CONCRETE CURB	36	LF	\$	\$
43	GRANITE CURB	20	LF	\$	\$
44	RESET GRANITE CURB	88	LF	\$	\$
45	CONCRETE SIDEWALK, 4" THICK	71	SY	\$	\$
46	DETECTABLE WARNING SURFACES	24	SY	\$	\$
47	TOPSOIL, 4" THICK	473	SY	\$	\$
48	FERTILIZING AND SEEDING	473	SY	\$	\$
49	STRAW MULCHING	473	SY	\$	\$
50	EXCAVATION, TEST PIT	0	CY	\$	\$
51	EXCAVATION, UNCLASSIFIED	11	CY	\$	\$
52	NO ITEM	-	-	\$	\$

Bidder's Name
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# **BID FORM (CONTINUED)**

# **BASE BID ITEMS CONTINUED:**

ITEM NO	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL
53	HOT MIX ASPHALT 12.5 H64 SURFACE COURSE	10	TONS	\$	\$
54	TACK COAT	6	GAL	\$	\$
55	NO ITEM	-	-	\$	\$
56	CURB AND GUTTER	60	LF	\$	\$
57	RESET FENCE	35	LF	\$	\$
58	BICYCLE SAFE GRATE	2	UNIT	\$	\$
59	MILLING, VARIABLE DEPTH	549	SY	\$	\$

TOTAL BASE BID ITEMS	
Written	Figures
BID CONTINGENCY: (To be used if and when directed by t	he County)
FIFTY THOUSAND DOLLARS AND NO CENTS Written	_ <b>\$50,000.00</b> Figures
TOTAL BASE BID ITEMS PLUS BID CONTINGENCY AMOU	NT:
Written	Figures

NOTE: Bid Contingency may include one-half of one percent of contract amount set aside for local training if and when directed by the County.

CONSENT OF SURETY
TO ACCOMPANY PROPOSAL (BID)

	(hereinafter called Surety), organized and existing under the laws of the State of			
	duly authorized and qualified to transact business in the State of New Jersey, i			
consideration of the sum	of One Dollar (\$1.00), lawful money of the United States of America, to it in han			
paid, receipt whereof is	hereby acknowledged, and in consideration, hereby certifies and agrees that			
the contract for which the	e attached proposal is made be awarded to (hereinafte			
called Contractor) for the	e performance of certain work and labor or the supplying of certain materials, o			
both, as more particular	y set forth in said proposal and described for purposes of this instrument as			
proposal for	to the COUNTY OF UNION and if Contractor shall enter into th			
contract, Surety will beco	ome bound as surety for its faithful performance, labor and material payment an			
will provide the Contracto	or with a performance, labor and material payment bond in the full amount of th			
contract price.				
NOTE:	NAME OF INSURANCE COMPANY			
Expiration date  Needed if Annual Surety  ADDRESS:				
	ORIGINAL SIGNATURE			
ATTORNEY-IN-FACT FOR INSURANCE CO.				

PROOF OF AUTHORITY OF OFFICERS OF SURETY COMPANY TO EXECUTE THIS NOTE: DOCUMENT MUST BE SUBMITTED.

### **BIDDER SIGNATURE PAGE**

THE BIDDER MUST READ THE FOLLOWING INSTRUCTIONS TO COMPLETE THIS PAGE:

- 1. If doing business under a <u>trade name, partnership or a sole proprietorship</u>, you must submit the bid under exact title of the trade name, partnership, or proprietorship, and the bid must be signed by either the <u>owner</u>, or a <u>partner</u> and <u>witnessed</u> by a <u>notary public</u>.
- 2. If a <u>Corporation</u>, the bid must be signed by the <u>President</u> or <u>Vice President</u> and <u>witnessed</u> by a <u>Corporate Secretary</u> (corporate title must be exact) and <u>affix corporate seal</u>. If a Corporate Secretary does not exist, President or Vice President's signature shall be witnessed by a Notary Public.
- 3. Other persons <u>authorized</u> by <u>corporate resolution</u> to execute agreements in its behalf may also sign the bid documents (pages). <u>Copy of a resolution must accompany the bid</u>.
- 4. The person who signs this bid form **must also** sign the **Non-Collusion Affidavit**.
- 5. You <u>cannot</u> witness your own signature.

		NAME OF BIDDER
ORIGINAL SIGNATURE CORPORATE SECRETARY		ADDRESS OF BIDDER
PRINT NAME AND TITLE CORPORATE SECRETARY		TEL: FAX: E-Mail:
	BY:	ORIGINAL SIGNATURE
Corporate Seal		
		PRINT OR TYPE NAME AND TITLE

WARNING: IF YOU FAIL TO FULLY, ACCURATELY, AND COMPLETELY SUPPLY THE

INFORMATION REQUESTED ON THIS PAGE, YOUR BID MAY BE REJECTED.

# STATEMENT OF OWNERSHIP DISCLOSURE

N.J.S.A. 52:25-24.2 (P.L. 1977, c.33, as amended by P.L. 2016, c.43)

This statement shall be completed, certified to, and included with all bid and proposal submissions. Failure to submit the required information is cause for automatic rejection of the bid or proposal.

Name o	of Organization:
Organiz	ration Address:
<u>Part</u> I	Check the box that represents the type of business organization:
Sole	e Proprietorship (skip Parts II and III, execute certification in Part IV)
Nor	n-Profit Corporation (skip Parts II and III, execute certification in Part IV)
For	-Profit Corporation (any type) Limited Liability Company (LLC)
Par	tnership Limited Partnership Limited Liability Partnership (LLP)
Oth	er (be specific):
<u>Part I</u>	<u>I</u>
	The list below contains the names and addresses of all stockholders in the corporation who own 10 percent or more of its stock, of any class, or of all individual partners in the partnership who own a 10 percent or greater interest therein, or of all members in the limited liability company who own a 10 percent or greater interest therein, as the case may be. (COMPLETE THE LIST BELOW IN THIS SECTION)
	OR
	No one stockholder in the corporation owns 10 percent or more of its stock, of any class, or no individual partner in the partnership owns a 10 percent or greater interest therein, or no member in the limited liability company owns a 10 percent or greater interest therein, as the case may be. (SKIP TO PART IV)

(Please attach additional sheets if more space is needed):

Bidder's Name

Name of Individual or Business Entity	Home Address (for Individuals) or Business Address

# <u>Part III</u> DISCLOSURE OF 10% OR GREATER OWNERSHIP IN THE STOCKHOLDERS, PARTNERS OR LLC MEMBERS LISTED IN PART II

If a bidder has a direct or indirect parent entity which is publicly traded, and any person holds a 10 percent or greater beneficial interest in the publicly traded parent entity as of the last annual federal Security and Exchange Commission (SEC) or foreign equivalent filing, ownership disclosure can be met by providing links to the website(s) containing the last annual filing(s) with the federal Securities and Exchange Commission (or foreign equivalent) that contain the name and address of each person holding a 10% or greater beneficial interest in the publicly traded parent entity, along with the relevant page numbers of the filing(s) that contain the information on each such person. Attach additional sheets if more space is needed.

Website (URL) containing the last annual SEC (or foreign equivalent) filing	Page #'s

**Please list** the names and addresses of each stockholder, partner or member owning a 10 percent or greater interest in any corresponding corporation, partnership and/or limited liability company (LLC) listed in Part II **other than for any publicly traded parent entities referenced above**. The disclosure shall be continued until names and addresses of every noncorporate stockholder, and individual partner, and member exceeding the 10 percent ownership criteria established pursuant to N.J.S.A. 52:25-24.2 has been listed. **Attach additional sheets if more space is needed.** 

Bidder's Name	
---------------	--

Stockholder/Partner/Member and Corresponding Entity Listed in Part II	Home Address (for Individuals) or Business Address

# Part IV Certification

I, being duly sworn upon my oath, hereby represent that the foregoing information and any attachments thereto to the best of my knowledge are true and complete. I acknowledge: that I am authorized to execute this certification on behalf of the bidder/proposer; that the *County of Union* is relying on the information contained herein and that I am under a continuing obligation from the date of this certification through the completion of any contracts with *County of Union* to notify the *County of Union* in writing of any changes to the information contained herein; that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification, and if I do so, I am subject to criminal prosecution under the law and that it will constitute a material breach of my agreement(s) with the, permitting the *County of Union* to declare any contract(s) resulting from this certification void and unenforceable.

Full Name (Print):	Title:	
Signature:	Date:	

<b>Bidder's Name</b>	

# SUBCONTRACTOR IDENTIFICATION STATEMENT LIST OF SUBCONTRACTORS

This form is ONLY required for plumbing and gas fitting, steam and hot water heating and ventilating apparatus, steam power plants, electrical work, structural steel, ornamental iron work, and any other trades required to be identified by the specifications (including, but not limited, to satisfying any DPMC Classification requirements).

# CHECK THIS BOX IF NONE OF THE ABOVE LISTED TRADES OR THOSE REQUIRED TO BE IDENTIFIED IN THE SPECIFICATIONS ARE TO BE USED TO PERFORM THE WORK

In compliance with N.J.S.A. 40A:11-16 and the bid specifications, the undersigned hereby lists the name or names of the following subcontractors:

Company Name:	
Telephone:	Subcontract Amount: \$
License No.	
Company Name:	
	Subcontract Amount: \$
License No.	_
Company Name:	
Telephone:	Subcontract Amount: \$
Specific Scope of Work Subcontracted:	
License No	_

IF MORE THAN THREE SUBCONTRACTORS, PLEASE COPY THIS SHEET AS NECESSARY AND ATTACH TO THE BID PACKAGE.

(Continued on following page)

Bidder's Name					

#### SUBCONTRACTOR IDENTIFICATION CERTIFICATION

Note the law does not permit the listing of alternate subcontractors. However, multiple subcontractors for the same trade are permitted to be named provided the bidder meets the following requirements:

- Bidder identifies each subcontractor named for that category;
- Bidder states the scope of work, goods and services (the portion of the work) to be performed by each subcontractor; and
- Bidder provides the price quote provided by each subcontractor.

The bidder is advised that any change of subcontractor(s) from ones listed herein is subject to the County's approval. Change of subcontractor(s) will be approved only if made for good cause and not as a result of an arbitrary purpose.

The undersigned Bidder certifies and declares that the subcontractors listed above shall be used as subcontractors to complete certain portions of the work in this project as set forth in N.J.S.A. 40A: 11-16.

Witness	_	NAME OF BIDDER
Date		
		ADDRESS
	Ву:	
		ORIGINAL SIGNATURE ONLY
		PRINT NAME AND TITLE

Bidder's	Name		

# **ACKNOWLEDGMENT OF ADDENDUM**

# **COUNTY OF UNION**

(Name of Construction /Public Works Project)		(Project or Bid Number)			
Pursuant to N.J.S.A. 40A:11-23. following notices, revisions, or addindicating date of receipt, bidder anotice, revision or addendum. No precedence and that failure to include the bid.	denda to the bid advert cknowledges the submit ote that the County of	isement, sp ted bid take: Union's reco	ecifications or bid doct s into account the provord of notice to bidder	uments. By sions of the s shall take	
Local Unit Reference Number or Title of Addendum/Revision	How Received (mail, up, etc.)	fax, pick-	Date Received		
of Thic of Addendam/Acvision	up, ctc.)				
ACKNOWLEDGMENT BY BIDDE	R:		I		
NAME OF BIDDER:					
ORIGINAL SIGNATURE:					
PRINTED NAME AND TITLE:					
DATE:					

### **CONTRACTOR BUSINESS REGISTRATION CERTIFICATE**

New Mandatory Requirement - Effective 1/18/2010

The recently enacted **P.L. 2009, c.315**, requires that effective January 18, 2010; a contracting agency must receive proof of the bidder's business registration prior to the award of a contract. However, the proof must show that the bidder was in fact registered with the State of New Jersey Department of the Treasury, Division of Revenue and obtained the business registration prior to the receipt of bids.

If subcontractors are named on the bid, proof of the business registration for each subcontractor must be provided prior to the award of bid. Similarly to the bidder, the proof must show that each subcontractor was registered with the State of New Jersey Department of the Treasury, Division of Revenue and obtained the business registration prior to the receipt of bids.

Proof of b	usiness registration shall be
	A copy of a Business Registration Certificate issued by the Department of the Treasury
Divisi	on of Revenue; or
	A copy of the web version provided by the NJ Division of Revenue, or
Reaister o	nline at www.nj.gov/treasury/revenue/taxreg.htm. Click the "online" link and then select
-	for Tax and Employer Purposes or call the Division at 609-292-1730.
•	J Certificate of Authority is not acceptable.

**FAILURE** to submit proof of registration of the bidder or any subcontractor named on the bid prior to the award of a contract shall be cause to reject the bids.

**FAILURE** of the bidder or any subcontractor named on the bid to be <u>registered</u> prior to the receipt of bids is cause for a **MANDATORY REJECTION** of bids. (A NON-WAIVABLE DEFECT). This covers construction work as well as non-construction bids.

#### IN ADDITION:

The contractor shall provide written notice to all **subcontractors and suppliers** not specifically named on the bid of the responsibility to register and submit proof of business registration to the contractor. The requirement of proof of business registration extends down through all levels (tiers) of the project.

Before final payment on the contract is made by the contracting agency, the contractor shall submit an accurate list and the proof of business registration of each subcontractor or supplier used in the fulfillment of the contract, or shall attest that no subcontractors were used.

For the term of the contract, the contractor and each of its affiliates and a subcontractor and each of its affiliates [N.J.S.A. 52:32-44(g)(3)] shall collect and remit to the Director, New Jersey Division of Taxation, the use tax due pursuant to the Sales and Use Tax Act on all sales of tangible personal property delivered into this State, regardless of whether the tangible personal property is intended for a contract with a contracting agency.

A business organization that fails to provide a copy of a business registration as required pursuant to section 1 of P.L.2001,c.134 (C.52:32-44 et al.) or subsection e. or f. of section 92 of P.L.1977,c.110 (C.5:12-92), or that provides false business registration information under the requirements of either of those sections, shall be liable for a penalty of \$25 for each day of violation, not to exceed \$50,000 for each business registration copy not properly provided under a contract with a contracting agency.

#### **BUSINESS REGISTRATION**

Pursuant to N.J.S.A. 52:32-44, the County of Union is prohibited from entering into a contract with an entity unless the bidder/proposer/contractor, and each subcontractor that is required by law to be named in a bid/proposal/contract has a valid Business Registration Certificate on file with the Division of Revenue and Enterprise Services within the Department of the Treasury.

Prior to contract award or authorization, the contractor shall provide the County of Union with its proof of business registration and that of any named subcontractor(s).

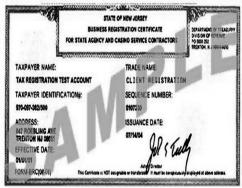
Subcontractors named in a bid or other proposal shall provide proof of business registration to the bidder, who in turn, shall provide it to the County of Union prior to the time a contract, purchase order, or other contracting document is awarded or authorized.

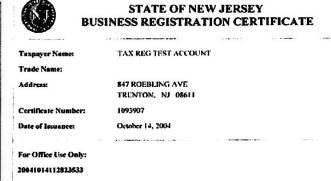
During the course of contract performance:

- (1) the contractor shall not enter into a contract with a subcontractor unless the subcontractor first provides the contractor with a valid proof of business registration.
- (2) the contractor shall maintain and submit to the County of Union a list of subcontractors and their addresses that may be updated from time to time.
- (3) the contractor and any subcontractor providing goods or performing services under the contract, and each of their affiliates, shall collect and remit to the Director of the Division of Taxation in the Department of the Treasury, the use tax due pursuant to the Sales and Use Tax Act, (N.J.S.A. 54:32B-1 et seq.) on all sales of tangible personal property delivered into the State. Any questions in this regard can be directed to the Division of Taxation at (609)292-6400. Form NJ-REG can be filed online at http://www.state.nj.us/treasury/revenue/busregcert.shtml.

Before final payment is made under the contract, the contractor shall submit to the County of Union a complete and accurate list of all subcontractors used and their addresses.

Pursuant to N.J.S.A. 54:49-4.1, a business organization that fails to provide a copy of a business registration as required, or that provides false business registration information, shall be liable for a penalty of \$25 for each day of violation, not to exceed \$50,000, for each proof of business registration not properly provided under a contract with a contracting agency.





ATTACH BRC HERE	
 •	

#### AFFIRMATIVE ACTION REQUIREMENT

#### REQUIRED AFFIRMATIVE ACTION EVIDENCE

General Requirements of P.L. 1975, c. 127: You are hereby put on notice that:

CONSTRUCTION CONTRACTS: The successful contractor must submit within three (3) days of the notice of intent to award or the signing of the contract the initial project manning report (A.A.201). This report should be submitted at the time the signed contract is returned to the County of Union. Attention: *Affirmative Action Officer*.

If the successful contract <u>does not submit the initial project manning report</u> (A.A.201) within the three (3) days from the time the signed contract is returned to the County of Union, the County of Union <u>WILL</u> declare the contractor <u>non-responsive and award the contract to the next lowest responsible bidder.</u>

NAME OF BIDDER
ORIGINAL SIGNATURE
PRINT OR TYPE NAME AND TITLE
DATE THIS FORM IS COMPLETED

Bidder's Name	

# **EXPERIENCE STATEMENT**

I hereby certify that my company has performed the following private or public work, which is relevant to this bid. I further certify that my company has never defaulted under any contract. Should you not sign this form due to prior defaults, please provide details on an attached sheet.

Witness	NAME OF BIDDER	
Date		
	ADDRESS	
	By: ORIGINAL SIGNATURE O	NLY
	<u> </u>	
	PRINT NAME AND TITLE	

YOU MAY ATTACH ADDITIONAL SHEETS, BUT YOU MUST SIGN AND WITNESS THIS SHEET.

Bidder's Name				

# CERTIFICATE OF BIDDER SHOWING ABILITY TO PERFORM CONTRACT

STATE OF NEW JERSEY /		
COUNTY OF	Specify, if Other	) SS:
COUNTY OF	)	
I,		, of the (City, Town, Borough, etc.) of, of full age, being duly sworn according
State of _		, of full age, being duly sworn according
to law on my oath depose and s	ay that:	
I am	of the firm of	,
the Bidder making the proposal	for the above named Project	("Contractor'), and that I executed said
proposal with full authority to do	so; and that said Contractor	, pursuant to <u>N.J.S.A.</u> 40A:11-20, certifies
that it owns, leases or controls a	ll the necessary equipment r	required by the Plans, Specifications and
Advertisements under this Bids	are asked for.	
If the Bidder is not the actual ow	ner or lessee of any such eq	uipment, then the Bidder shall attach to this
Certificate information identifying	g the source from which the	equipment will be obtained, and such
information shall be accompanie	ed by a certificate from the ov	wner or person in control of the equipment
definitively granting to the Bidde	r the control of the equipmer	nt required during such time as may be
necessary for the completion of	that portion of the contract.	
(Also type or print name of affiar	nt under signature)	
Bv:		

Bidder's Name		

# **NON-COLLUSION AFFIDAVIT**

(N.J.S.A. 52:34-15)

STATE OF	=		
COUNTY	OF	) <b>SS:</b> )	
above nam has not, di taken any that all sta knowledge	ned project, and that I ex rectly or indirectly, enter action in restraint of free tements contained in sai that the COUNTY OF L	ecuted the said production of the competitive biddir proposal and in the NION, NEW JERS	, in the County of, being duly sworn according to law, on my oath the firm of, the bject, and that I executed the said proposal for the roposal with full authority to do so; that said bidder ment, participation in any collusion, or otherwise ing in connection with the above named project; and this Affidavit are true and correct, and made with full SEY relies upon the truth of the statements contained he affidavit in awarding the contract for the said
contract up	oon an agreement or und	erstanding for a co afide established o	s been employed or retained to solicit or secure such commission, percentage, brokerage or contingent fee, commercial or selling agencies maintained by
			NAME OF BIDDER
			ORIGINAL SIGNATURE ONLY
			NOTE: The person who signed the bidder signature page for the bidder should sign this form also.
Subscribed	d and sworn to before m		
this	day of		, 20
(Seal) Not	ary Public of New Jersey	Specify Othe	er State
My Comm	ission Expires		, 20

WARNING: IF YOU FAIL TO FULLY, ACCURATELY, AND COMPLETELY FILL OUT THIS AFFIDAVIT OF NON-COLLUSION, YOUR BID MAY BE REJECTED.

#### **Contractor Registration Advisement**

For Public Works Projects

A new law, known as "The Public Works Contractor Registration Act" (P.L. 1999, c.238), became effective April 11, 2000. Under the Act, no contractor/subcontractor will be permitted to bid on or engage in any contract for public work, as defined in Section 2 of P.L. 1963, c.150 (C:34:11-56.26), unless that contractor/subcontractor is registered with the New Jersey Department of Labor and Workforce Development. The Act provides that upon registration with the Department, a public works contractor/subcontractor will be issued a certificate by the Department indicating compliance with the Act's requirements. The registration fee has been set at \$300.00 per year. Upon the effective date of the Act, public bodies will be expected to request production of such a certificate from those bidding on or engaging in public works projects.

It is important to note that the term "contractor," is defined in the, Act as, "a person, partnership, association, joint stock company, trust, corporation or other legal business entity or successor thereof who enters into a contract which is subject to the provision of the "New Jersey Prevailing Wage Act," P.L. 1963, c.150 (C.34:11-56.25, et seq.) for the construction, reconstruction, demolition, alteration, repair or maintenance of a public building regularly open to and used by the general public or a public institution, and includes any subcontractor or lower tier subcontractor as defined herein: except that, for the purposes of the act, no pumping station, treatment plant or other facility associated with utility and environmental construction, reconstruction, demolition, alteration, repair or maintenance shall be regarded as a public building regularly open to and used by the general public or a public institution."

Registration forms, copies of the Act, and other relevant information can be obtained by contacting:

Contractor Registration Unit

New Jersey Department of Labor and Workforce Development
Division of Wage & Hour Compliance
PO Box 389

Trenton, New Jersey 08625-0389
Telephone: 609-292-9464

Fax: 609-633-8591 E-mail: contreg@dol.state.nj.us

Bidder's Name

#### **AMERICANS WITH DISABILITIES ACT**

#### EQUAL OPPORTUNITY FOR INDIVIDUALS WITH DISABILITIES

The contractor and the County of Union (hereafter "Owner") do hereby agree that the provisions of Title II of the Americans With Disabilities Act of 1990 (the "Act") (42 US.C. S12101 et seq.), which prohibits discrimination on the basis of disability by public entities in all services, programs and activities provided or made available by public entities, and the rules and regulations promulgated pursuant thereunto, are made a part of this contract. In providing any aid, benefit, or service on behalf of the Owner pursuant to this contract, the contractor agrees that the performance shall be in strict compliance with the Act. In the event the contractor, its agents, servants, employees, or subcontractors violate or are alleged to have violated the Act during the performance of this contract, the contractor shall defend the Owner in any action or administrative proceeding commenced pursuant to this Act. The contractor shall indemnify, protect, and save harmless the Owner, its agents, servants, and employees from and against any and all suits, claims, losses, demands, or damages of whatever kind or nature arising out of or claimed to arise out of the alleged violation. The contractor shall, at its own expense, appear, defend, and pay any and all charges for legal services and any and all costs and other expenses arising from such action or administrative proceeding or incurred in connection therewith. In any and all complaints brought pursuant to the Owner's grievance procedure, the contractor agrees to abide by any decision of the Owner which is rendered pursuant to said grievance procedure. If any action or administrative proceeding results in an award of damages against the Owner, or if the Owner incurs any expense to cure a violation of the ADA which has been brought pursuant to its grievance procedure, the contractor shall satisfy and discharge the same at its own expense.

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

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

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

Name	(Please print or type)
Signature	Date

# **STATEMENT OF BIDDER'S QUALIFICATIONS**

All questions must be answered and the data given must be clear and comprehensive. <u>This statement must be notarized</u>. Questions may be answered on separate attached sheets. The Bidder may submit any additional information it desires.

	manent Main Office Address)
(Whe	en Organized)
(If a (	Corporation, where incorporated)
` Num	ber of years your organization has been engaged in construction or contracting busines ent firm or trade name?
How contr	many years of experience in construction work has your organization had (a) as a generactor? And/or (b) As a subcontractor?
	racts on hand: (Attach a list or table showing gross amounts of each Contract and the opriate dates of completion)
Gene	eral character of work performed by you
	Tal character of work periormod by year.
Have	e you ever failed to complete any work awarded to you?

# **STATEMENT OF BIDDER'S QUALIFICATIONS - (continued)**

11.	Has any officer or partner of your organization ever failed to complete a construction contract handled in its own name? If so, state name of individual, name of owner, location and type of project, and reason for the failure to complete.
12.	List your major equipment available for this Contract.
13.	Experience in the construction work similar in importance to this Project.
14.	Have you had any material adverse changes from the trades as listed in NJ Notice of Classification within last five (5) years? If so, list prior classification.
15.	Background and experience of the principal members of your organization, including the officers.

Individual's Name	Present Position or Office	Yrs. of Construction Experience	Magnitude & Type of Work	In What Capacity

16.	Bank Reference. (Name, Addre	ess, Phone, Representative)			
17.	Will you, upon request, fill out a	a detailed financial statement?			
18.	The undersigned, hereby authorizes and requests any person, firm or corporation to furnish any information requested by the proper agency in verification of the responses comprising this Statement of Bidder's Qualifications.				
19.	Bidder's telephone number, fax	x number and e-mail address (if applicable).			
	Phone				
	Fax	<u> </u>			
	E-mail	<u> </u>			
	Mobile				
Dated	at	this day of _, 20			
BIDDE	R (Signature)	<u> </u>			
BIDDE	R (Print Name)				
Subsci	ribed and sworn to before me				
this	day of	, 20			
(Seal)	Notary Public of New Jersey/	Specify Other State			
Му Со	mmission Expires	, 20			

Bidder's Name\_\_\_\_\_

Bidder's Name
---------------

# **CONTRACTOR PERFORMANCE RECORD**

List all contracts completed by you below or provide separate form.

Name of Owner	Name & Location of Project: Type Of Work	Prime or Sub- Cont.	Engineer or Architect in Charge for Owner	Contract Price (Omit Cost)	Date Completed	Was Time* Extension Necessary	Were Any Penalties Imposed	Were Liens* Claims or Stop Notice Filed

<sup>\*</sup> If answer is YES, provide explanation of details in connection with non-completion of contracts, time extensions, penalties imposed, labor troubles, liens, claims and notices filed against contracts listed in preceding item "Performance Record" on an attached sheet.

Bidder's Name				

# CONTRACTOR PERFORMANCE RECORD CERTIFICATION

The information above is true and complete to the best of my knowledge and belief.

		(Name of Organization)	
		(Signature)	
		(Title)	
Subscribe	d and sworn to before me		
this	day of	, 20	
(Seal) Not	ary Public of New Jersey/_		
		Specify Other State	
My Comm	ission Expires	, 20	

# AFFIDAVIT REGARDING LIST OF DEBARRED, SUSPENDED OR DISQUALIFIED BIDDERS

STATE OF NEW JERSEY /		)
STATE OF NEW JERSEY /	Specify, if Other	
COUNTY OF		_)
I,		, of the (City, Town, Borough, etc.) of
State of		_, of the (City, Town, Borough, etc.) of _, of full age, being duly sworn according
to law on my oath depose and say that	t:	
lam	of the firm of	
the Bidder making the Proposal for the	above named Project. I	have executed the said Proposal with full
		this bid included on the New Jersey State
		pended or Disqualified Bidders as a result
of action taken by any State or Federal	l Agency.	
		Name of Contractor
	Dv.	
	Signature (	of Authorized Representative)
	(Oignataro (	or rathonized representative)
Subscribed and sworn to before me		
this day of	, 20	
		_
(Seal) Notary Public of New Jersey/		_
(Seal) Notally Fublic of New Jersey/	Specify Other State	<del></del>
My Commission Expires	, 20	

# PRIOR NEGATIVE EXPERIENCE QUESTIONNAIRE (N.J.S.A. 40A:11-4)

failed to provide or otherwise perf						imely mann
yes	_	no	o If yes, ple	ease provide fu	ll, detailed exp	lanation.
Within the past to to utilize the serv correct or comple	ices of anoth	ner contracto				
yes		no	o If yes, ple	ease provide fu	ll, detailed exp	lanation.
			e contract or		osts of comple	tion?
to look to your su	rety for com	pletion of the no	e contract or  If yes, ple	tender of the cease provide fu	osts of comple  II, detailed exp  d from contract	tion? lanation.  ing with an
Within the past to look to your su yes Within the past to the agencies or contract award, with a public entire	n (10) years lepartment o	no n	e contract or  If yes, place  een debarre  ive branch o	tender of the cease provide fundamental fundamental tender of the cease provide fundamental fundamental tender of the cease provide fundamental fundam	osts of comple  II, detailed exp  d from contract ew Jersey at the	tion? lanation.  ing with anne time of tl

Bidder's Name						

# PRIOR NEGATIVE EXPERIENCE CERTIFICATION

day of, 20	true and accurate as of this
Name of Contractor	
By(Signature of Authorized Representative)	
Subscribed and sworn to before me	
this day of	, 20
(Seal) Notary Public of New Jersey/Spec	eify Other State
My Commission Expires	20

### TO BE COMPLETED ONLY WHEN FINAL PAYMENT IS REQUESTED

#### CONTRACTOR'S CERTIFICATION OF COMPLIANCE - NEW JERSEY PREVAILING WAGE ACT

Scotch Plains, New Jersey 07076  PROJECT:  In accordance with the requirements of the New Jersey Prevailing Wage Act, N.J.S.A. 34:1 the undersigned contractor on the public work being performed for:	1-56 et al *
In accordance with the requirements of the New Jersey Prevailing Wage Act, N.J.S.A. 34:1	1-56 et al *
	1-56 et al *
and directorighted continuous on the public work being performed for.	
COUNTY OF UNION	
hereby certifies that he/she has complied with the contract requirements regarding the pay minimum prevailing wages established under "The New Jersey Prevailing Wage Act" N.J.S. et al.	
CONTRACTOR:ADDRESS:	
BY: ORIGINAL SIGNATURE ONLY	
STATE OF NEW JERSEY COUNTY OF	
Being by me duly sworn according to law, on his oath deposes and says that is of the above named contractor, and that the facts set forth in the above statement are true.	
Subscribed and sworn to before me	
this, 20	
(Seal) Notary Public of New Jersey/Specify Other State	
My Commission Expires, 20	

\* N.J.S.A. 34:11-56.33 requires the contractor and subcontractor to file written statements with the public body in form satisfactory to the Commissioner certifying to the amounts then due and owing from such contractor and subcontractor filing such statement to any and all workmen for wages due on account of the public work, setting forth therein the names of the persons whose wages are unpaid and the amount due to each respectively. Union County will withhold the amount so deducted for the benefit of the workmen whose wages are unpaid as shown by the verified statement filed, and will pay directly to any workman the amount shown by such statement to be due to him for such wages. Such payment shall thereby discharge the obligation of the contractor to the person receiving such payment to the extent of the amount thereof.

Bidder's Name
---------------

# **UNCOMPLETED CONTRACTS AFFIDAVIT**

(To be Submitted with DPMC Form 701)

PURSUANT TO N.J.A.C. 17:19-2.13, BIDDER DECLARES THE FOLLOWING WITH RESPECT TO ITS UNCOMPLETED CONTRACTS, ON ALL WORK, FROM WHATEVER SOURCE (PUBLIC AND PRIVATE), BOTH IN NEW JERSEY AND FROM OTHER GOVERNMENTAL JURISDICTIONS						
ENTITY	PROJECT TITLE	ORIGINAL CONTRACT AMOUNT	UNCOMPLETED AMOUNT AS OF BID OPENING DATE	NAME AND TELEPHONE NUMBER OF PARTY TO BE CONTACTED FROM ENTITY FOR VERIFICATION		

TOTAL AMOUNT OF UNCOMPLI	ETED CONTRACTS \$	
	BIDDER:	
	(Signature)	
	(Print Name)	
Subscribed and sworn to before m	e	
this day of		
(Seal) Notary Public of New Jersey	Specify Other State	
My Commission Expires	. 20	

Bidder's Nan	ıe			

# **CERTIFICATE OF INSURANCE STATEMENT**

The Bidder fully understands the County of Union insurance requirements as stated in the Instructions to Bidders as well as the Owner/Contractor Agreement and agrees to provide all insurance required by these documents <u>prior</u> to the issuance of the Notice to Proceed.

BIDDER (Signature)	
, ,	
BIDDER (Print Name)	

Bidder's Name								

# **COLLECTION OF USE TAX ON SALES TO LOCAL GOVERNMENTS STATEMENT**

The Bidder fully understands the requirements of the use tax on sales to local governments as stated in the General Conditions to the Contract for Construction and the Instructions to Bidders, and agrees at all times to comply with the "Contractor Use Tax Collection Legislation", as defined therein, and the terms relating thereto contained in the Contract Documents.

BIDDER (Signature)	
,	
PIDDED (Drint Name)	
BIDDER (Print Name)	

<b>Bidder's Name</b>						

# **TIME OF COMPLETION**

The undersigned proposed that if awarded the	e Contract, the scope of work will be started within ten (10)
calendar days and will be substantially complete he date of the notice to proceed.	eted within <b>One Hundred Eighty (180) calendar days</b> from
, c NAME (Print or type)	of COMPANY
Agree to complete work in the time frame spe	scifiedSIGNATURE
SITE VISIT – GENERAL CONTRACTOR	
,of NAME (Print or type)	COMPANY
Visited the site of the work on	SIGNATURE

Revised: 2020.02.19

Bidder's Name	

# Division of Purchasing DISCLOSURE OF INVESTMENT ACTIVITIES IN IRAN FORM

Solicitation Num	nber: Vendor/Bidder:
	PART 1
<u>F</u> 2	CERTIFICATION  VENDOR/BIDDER MUST COMPLETE PART 1 BY CHECKING ONE OF THE BOXES  AILURE TO CHECK ONE OF THE BOXES WILL RENDER THE PROPOSAL NON-RESPONSIVE
must complete the affiliates, is identificativities in Iran. Vendors/Bidders revendor's/Bidder's of the law, s/he sha	Law 2012, c. 25, any person or entity that submits a bid or proposal or otherwise proposes to enter into or renew a contra certification below to attest, under penalty of perjury, that neither the person nor entity, nor any of its parents, subsidiaries, fied on the State of New Jersey, Department of the Treasury's Chapter 25 list as a person or entity engaged in investme. The Chapter 25 list is found on the Department's website at <a href="http://www.state.nj.us/treasury/pdf/Chapter25List.pd">http://www.state.nj.us/treasury/pdf/Chapter25List.pd</a> must review this list prior to completing the below certification. Failure to complete the certification will render s proposal non-responsive. If the Director of the Division of Purchase and Property finds a person or entity to be in violatic all take action as may be appropriate and provided by law, rule or contract, including but not limited to, imposing sanction e, recovering damages, declaring the party in default and seeking debarment or suspension of the party.
	CHECK THE APPROPRIATE BOX
☐ A.  OR	I certify, pursuant to Public Law 2012, c.25, that neither the Vendor/Bidder listed above nor any of i parents, subsidiaries, or affiliates is listed on the N.J. Department of Treasury's list of entities determined be engaged in prohibited activities in Iran pursuant to P.L. 2012, c. 25 ("Chapter 25 List"). Disregard Part and complete and sign the Certification below.
OK -	
Ы В.	I am unable to certify as above because the Vendor/Bidder and/or one or more of its parents, subsidiaries, of affiliates is listed on the Department's Chapter 25 list. I will provide a detailed, accurate and precise description of the activities in Part 2 below and sign and complete the Certification below. Failure to provide such information will result in the proposal being rendered as non-responsive and appropriate penalties, find and/or sanctions will be assessed as provided by law.
If you checked Box	PART 2  LEASE PROVIDE ADDITIONAL INFORMATION RELATED TO INVESTMENT ACTIVITIES IN IRAN x "B" above, provide a detailed, accurate and precise description of the activities of the Vendor/Bidder, or one of its parent liates, engaged in investment activities in Iran by completing the information below.
DESCRIPTION OF DURATION OF E ANTICIPATED CO VENDOR/BIDDE	INGAGEMENT: ESSATION DATE: R CONTACT NAME: R CONTACT PHONE#:
any attachments he information contait completion of any herein; that I am as to criminal prosect County of Union to	CERTIFICATION  I, certify that I am authorized to execute this certification on behalf of the Vendor/Bidder, that the foregoing information are creto, to the best of my knowledge are true and complete. I acknowledge that the County of Union, New Jersey is relying on the ined herein, and that the Vendor/Bidder is under a continuing obligation from the date of this certification through the contract(s) with the County of Union to notify the County of Union in writing of any changes to the information contains ware that it is a criminal offense to make a false statement or misrepresentation in this certification. If I do so, I will be subject to under the law, and it will constitute a material breach of my agreement(s) with the County of Union, permitting the declare any contract(s) resulting from this certification void and unenforceable.
Signature	Date

Revised 10/19/17

Print Name and Title

## STANDARD SPECIFICATIONS

The Standard Specifications for Road and Bridge Construction of New Jersey Department of Transportation, 2007 Edition; is added to and/or amended elsewhere herein by the Notice to Contractors (Advertisement), Proposal, Information for Bidders, General Conditions, Supplemental Conditions, Project Plans, and Supplementary Specifications; shall, insofar as technical requirements are involved, govern in the execution of this project.

Such Standard Specifications are made a part of these Specifications by this reference and will not be repeated herein. It is the responsibility of prospective bidders to familiarize themselves with these Standard Specifications, copies of which may be examined at the office of the Engineer and may be obtained, upon payment of the cost thereof, from:

Department of Transportation State of New Jersey 1035 Parkway Avenue Trenton, New Jersey 08625

The Notice to Contractors (Advertisement), Proposal, General Conditions, Special Provisions, Project Plans and/or Supplementary Specifications shall govern and prevail in the case of conflict between them and the Standard Specifications.

In these Standard Specifications the words "COMMISSIONER" or "DEPARTMENT" shall refer to and mean the person, persons, body, board or agent legally empowered to enter into contracts and otherwise legally act for the Owner. The word "STATE" shall refer to and mean the professional engineering representative of the Owner as hereinbefore defined and the word "ENGINEER" shall refer to and mean the professional engineering representative of the Owner as hereinbefore defined and the word "INSPECTOR" shall mean the authorized project representative of the Engineer with the authority as hereinbefore defined. The word "LABORATORY" shall mean and refer to the Engineer who may, at his discretion, and with the consent of the Owner, employ qualified technical personnel or testing laboratories to assist him in fulfilling the duties normally assigned to the "LABORATORY" in these Standard Specifications.

When reference is made herein to the bulletins, standards, specifications, publications or requirements of the American Association of State Highway Official (AASHO), the American Concrete Institute (ACI), the American Society of Civil Engineers (ASCE) or similar national or regional societies, associations, institutes or organizations; the requirements of the bulletins, specifications, publications or requirements referred to shall be considered a part of these Specifications by such reference and shall not be repeated herein but shall have the same import and be as binding as if herein set forth in full.



#### STATE OF NEW JERSEY

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

### PREVAILING WAGE RATE DETERMINATION

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

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

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

## **Prevailing Wage Rate**

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

W =Wage Rate per Hour

**B** = Fringe Benefit Rate per Hour\*

T = Total Rate per Hour

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

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

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

### **Apprentice Rate Schedule**

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

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

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

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

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#### Comments/Notes

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

#### **Public Works Contractor Registration**

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

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

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

### **Snow Plowing**

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

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County - UNION

Craft: Air Conditioning & Refrigeration - Service and Repair

PREVAILING WAGE RATE

	03/01/20
Journeyman (Mechanic)	W40.33 B25.67
	T66.00

Craft: Air Conditioning & Refrigeration - Service and Repair

#### APPRENTICE RATE SCHEDULE

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

Ratio of Apprentices to Journeymen - 1:4

Craft: Air Conditioning & Refrigeration - Service and Repair

**COMMENTS/NOTES** 

THESE RATES MAY BE USED FOR THE FOLLOWING:

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

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

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

#### SHIFT DIFFERENTIALS:

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

### **OVERTIME:**

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

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

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County - UNION

Craft: Boilermaker PREVAILING WAGE RATE

	01/01/20
Foreman	W50.88
	B45.21
	T96.09
General Foreman	W52.88
	B46.22
	T99.10
Journeyman	W45.88
	B43.54
	T89.42
	1

Craft: Boilermaker APPRENTICE RATE SCHEDULE

INTERVAL		PERIOD AND RATES									
1000 Hours	65%	70%	75%	80%	85%	90%	95%				
Benefit =	37.08	37.99	39.49	39.84	40.78	41.70	42.61				

### Ratio of Apprentices to Journeymen - \*

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

Craft: Boilermaker COMMENTS/NOTES

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

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

### SHIFT DIFFERENTIALS:

- The second shift shall work 7½ hours and receive 8 hours pay, at a rate equal to the regular hourly rate plus 10%.
- The third shift shall work 7 hours and receive 8 hours pay, at a rate equal to the regular hourly rate plus 20%.
- For "Municipal Water Works" projects only, the following shall apply: Two, four day, 10 hour shifts may be worked at straight time Monday through Thursday. The day shift shall work four days, at 10 hours, for 10 hours pay. The second shift shall work four days, at nine and a half hours, for 10 hours pay, plus 10% the hourly rate for new work and .25 cents on repair work. Friday may be used as a make-up day at straight time, due to weather conditions, hoilday or any other circumstances beyond the employer's control.

#### **OVERTIME:**

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

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**County - UNION** 

hours per week.

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

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County - UNION

Craft: Boilermaker - Minor Repairs PREVAILING WAGE RATE

	01/01/20
Foreman	W33.62
	B16.47
	T50.09
General Foreman	W34.12
	B16.47
	T50.59
Mechanic	W32.12
	B16.47
	T48.59
I .	I .

Craft: Boilermaker - Minor Repairs

#### **COMMENTS/NOTES**

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

### **OVERTIME:**

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

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

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County - UNION

Craft: Bricklayer, Stone Mason PREVAILING WAGE RATE

	05/01/20
Deputy Foreman	W47.18 B34.00 T81.18
Foreman	W50.18 B34.00 T84.18
Journeyman	W44.18 B34.00 T78.18

Craft: Bricklayer, Stone Mason APPRENTICE RATE SCHEDULE

INTERVAL		PERIOD AND RATES									
6 Months	40%	50%	55%	60%	65%	70%	75%	80%			
Benefits	4.00	5.00	5.50	6.00	22.44	23.93	25.41	26.89			

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

Craft: Bricklayer, Stone Mason COMMENTS/NOTES

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

## SHIFT DIFFERENTIALS:

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

## OVERTIME:

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

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**County - UNION** 

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

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County - UNION

Craft: Carpenter PREVAILING WAGE RATE

	05/07/20
Foreman	W59.06 B34.29 T93.35
Journeyman	W51.36 B29.90 T81.26

Craft: Carpenter APPRENTICE RATE SCHEDULE

INTERVAL		PERIOD AND RATES								
Yearly	40%	55%	65%	80%	90%					
Benefit	57% of	Appren	tice	Wage Rate	for all	intervals	+ \$0.63			

Ratio of Apprentices to Journeymen - 1:3

Craft: Carpenter COMMENTS/NOTES

#### FOREMAN REQUIREMENTS:

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

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

### SHIFT DIFFERENTIALS:

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

#### **OVERTIME:**

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

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

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County - UNION

Craft: Carpenter - Resilient Flooring PREVAILING WAGE RATE

	05/05/20
Foreman	W59.06 B34.20 T93.26
Journeyman	W51.36 B29.81 T81.17

Craft: Carpenter - Resilient Flooring APPRENTICE RATE SCHEDULE

INTERVAL		PERIOD AND RATES									
Yearly	40%	55%	65%	80%	90%						
Benefit	57%	of	Appren	tice	Wage Rate	for all	intervals	+ \$0.54			

### Ratio of Apprentices to Journeymen - \*

**Craft: Carpenter - Resilient Flooring** 

## **COMMENTS/NOTES**

#### FOREMAN REQUIREMENTS:

- On any job where there are 4 or more Carpenters of Resilient Flooring, 1 must be designated a Foreman.

#### FOR SYNTHETIC TURF INSTALLATION ONLY:

- The rate shall be 90% of the wage and benefit rate.

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

## SHIFT DIFFERENTIALS:

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

### OVERTIME:

- Hours in excess of 8 per day or 40 per week, or before or after the regular workday, Monday through Friday, shall be paid at time and one-half the wage rate. Saturday may be used as a make-up day, at straight time, up to 8 hours, for hours lost to reasons beyond the control of the employer, up to a total of 40 hours per week; hours in excess of 8 on Saturday shall then be paid at time and one-half the wage rate. If Saturday is not a make-up day, all hours on Saturday shall be paid at time and one-half the wage rate. All hours on Sundays and holidays shall be paid at double the wage rate.
- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for hours lost to reasons beyond the control of the employer. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the wage rate.

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<sup>\* 1</sup> apprentice shall be allowed to every 2 journeymen or major fraction therof. No more than 3 apprentices on any one job or project.

**County - UNION** 

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

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County - UNION

Craft: Cement Ma	ason P	REVAILING WAGE RAT	E					
See "B	ricklayer, Stone Mason"	Rates						
Craft: Cement Ma	ason A	PPRENTICE RATE SCH	EDULE					
INTERVAL	PERIO	OD AND RATES						
Ratio of Apprentic	es to Journeymen - 1:4	•	+					
Craft: Cement M	ason C	COMMENTS/NOTES						
***See "Bricklayer	***See "Bricklayer, Stone Mason" Rates***							

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County - UNION

### Craft: Commercial Painter- New Construction

#### PREVAILING WAGE RATE

	07/28/20
Foreman	W47.45 B24.35
General Foreman	T71.80 W51.43
	B24.67 T76.10
Journeyman	W43.47 B24.04 T67.51

#### **Craft: Commercial Painter- New Construction**

### APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	40%	45%	55%	65%	70%	75%	80%	80%		
Benefits	8.05	8.05	10.05	10.05	11.05	11.05	14.05	14.05		

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

## **Craft: Commercial Painter- New Construction**

## **COMMENTS/NOTES**

\* Commercial Painters perform work on all commercial structures such as offices, schools, hotels, shopping malls, restaurants, condominiums, etc.

Spraying, sandblasting, lead abatement work on commercial buildings, work performed above 3 stories or 30 feet in height, or using swing scaffolds requires an additional 10% of the wage rate.

#### FOREMEN REQUIREMENTS:

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

#### SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

#### **OVERTIME:**

- Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.
- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, General Election Day,

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**County - UNION** 

Veterans' Day, Thanksgiving Day, Christmas Day.

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County - UNION

## Craft: Commercial Painter- Repainting

#### PREVAILING WAGE RATE

	07/28/20
Foreman	W33.92
	B19.95
	T53.87
General Foreman	W36.85
	B20.10
	T56.95
Journeyman	W30.99
	B19.77
	T50.76

Craft: Commercial Painter- Repainting

#### APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	SEE	PAINTER	NEW	CONSTR	TION					

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

## Craft: Commercial Painter- Repainting

## **COMMENTS/NOTES**

\* Commercial Painters perform work on all commercial structures such as offices, schools, hotels, shopping malls, restaurants, condominiums, etc.

NOTE: These rates may only be used on jobs where no major alterations (only doing painting and carpeting with nothing else being changed in the commercial building) occur, and where not more than 3 other trades are present on the job, but may NOT, under any circumstances, be used for work on bridges, stacks, tanks, or generating stations.

Spraying, sandblasting, lead abatement work on commercial buildings, work performed above 3 stories or 30 feet in height, or using swing scaffolds requires an additional 10% of the wage rate.

### FOREMEN REQUIREMENTS:

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

#### **OVERTIME:**

- Hours in excess of 8 per day and 40 per week shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.
- Four 10-hour days may be worked, at straight time, Monday through Sunday.

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

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County - UNION

Craft: Diver PREVAILING WAGE RATE

	05/05/20
Diver	W60.24 B48.47 T108.71
Tender	W48.50 B48.47 T96.97

Craft: Diver COMMENTS/NOTES

NOTE: All dive crews must consist of a Tender, a Diver, and a standby Diver (standby Diver is the same rate as a Diver).

DEPTH & PENETRATION RATES: Divers shall be paid the following depth and penetration rates, in addition to the regular hourly rate, when applicable:

### AIR DIVES: MIXED GAS DIVES:

### PENETRATION DIVES:

126-200 feet: + \$1.50 per foot 201-275 feet: + \$1.75 per foot 276-350 feet: + \$2.00 per foot 351-425 feet: + \$2.50 per foot

#### **OVERTIME:**

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

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Presidential Election Day, Thanksgiving Day, Christmas Day. Veterans' Day may be switched with the day after Thanksgiving.

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County - UNION

Craft: Dockbuilder PREVAILING WAGE RATE

	05/05/20
Foreman	W55.78 B48.47 T104.25
Foreman (Concrete Form Work)	W54.97 B35.36 T90.33
Journeyman	W48.50 B48.47 T96.97
Journeyman (Concrete Form Work)	W47.80 B35.36 T83.16

Craft: Dockbuilder APPRENTICE RATE SCHEDULE

INTERVAL		PERIC	DD AND RAT	<u>ES</u>			
Yearly	19.40	24.25	31.53	38.80			
Benefit	32.07	for all	intervals				

### Ratio of Apprentices to Journeymen - \*

\* When there are 4 or fewer Dockbuilders on a job, no more than 1 may be an apprentice. When there are 5 or more Dockbuilders, there may be 1 apprentice for every 5 Dockbuilders.

Craft: Dockbuilder COMMENTS/NOTES

APPRENTICE RATE SCHEDULE FOR CONCRETE FORM WORK ONLY:

INTERVAL PERIOD AND RATES
Yearly 19.12 23.90 31.07 38.24

Benefits 24.16 for all intervals

### CREOSOTE HANDLING:

When handling creosote products on land piledriving, floating marine construction, and construction of wharves, the worker shall receive an additional \$0.25 per hour.

## HAZARDOUS WASTE WORK:

- Hazardous waste removal work on a state or federally designated hazardous waste site where Level A, B, or C personal protection is required: an additional 20% of the hourly rate, per hour.
- Hazardous waste removal work in Level D, or where personal protection is not required: an additional \$1.00 per hour.

CERTIFIED WELDER: When required on the job by the project owner, a Certified Welder shall receive an additional \$1.00 per hour.

#### FOREMAN REQUIREMENTS:

The first Dockbuilder on the job shall be designated a Foreman.

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**County - UNION** 

### **OVERTIME**:

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

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Presidential Election Day, Thanksgiving Day, Christmas Day. Veterans' Day may be switched with the day after Thanksgiving.

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County - UNION

Craft: Drywall Finisher PREVAILING WAGE RATE

	11/01/18
Foreman	W43.95
	B24.40
	T68.35
General Foreman	W45.94
	B24.40
	T70.34
Journeyman	W39.95
	B24.40
	T64.35

Craft: Drywall Finisher APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	40%	50%		60%	70%		80%	90%		
Benefits	Intervals	1 to 2 =	10.65	Intervals	3 to 4 =	13.17	Intervals	5 to 6 =	16.25	

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

Craft: Drywall Finisher COMMENTS/NOTES

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

### SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, and the third shift shall receive 8 hours pay for 7 hours of work.
- Shift work must run for a minimum of 5 consecutive workdays.

#### **OVERTIME:**

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

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**County - UNION** 

Craft: Electrician PREVAILING WAGE RATE

	06/01/20	05/31/21
Cable Splicer	W63.83	W64.92
·	B37.99	B39.29
	T101.82	T104.21
Foreman (11-20	W67.90	W69.05
Journeymen)	B40.41	B41.78
	T108.31	T110.83
Foreman (1-3	W63.83	W64.92
Journeymen)	B37.99	B39.29
	T101.82	T104.21
Foreman (4-10	W66.74	W67.87
Journeymen)	B39.72	B41.07
	T106.46	T108.94
General Foreman (21-30	W69.64	W70.82
Journeymen)	B41.44	B42.85
	T111.08	T113.67
General Foreman (31-60	W75.44	W76.72
Journeymen)	B44.89	B46.42
	T120.33	T123.14
General Foreman (61+	W76.60	W77.90
Journeymen)	B45.58	B47.13
	T122.18	T125.03
Journeyman	W58.03	W59.02
	B34.54	B35.72
	T92.57	T94.74
Sub-Foreman	W66.16	W67.28
	B39.37	B40.71
	T105.53	T107.99

Craft: Electrician APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	40%	49%	58%	68%	80%		of Jour	neyman	Wage	Rate
Benefit	40%	49%	58%	68%	80%		of Jour	neyman	Benefit	Rate

Ratio of Apprentices to Journeymen - 2:3

Craft: Electrician COMMENTS/NOTES

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County - UNION

#### THESE RATES ALSO APPLY TO THE FOLLOWING:

- -All burglar and fire alarm work.
- -All fiber optic work.
- -Teledata work in new construction.
- -Teledata work involving 16 Voice/Data Lines or more.

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

#### FOREMAN REQUIREMENTS:

- 1 to 3 Journeymen- 1 must be a Foreman (Foreman/1-3 Journeymen rate).
- -4 to 10 Journeymen- 1 must be a Foreman (Foreman/4-10 Journeymen rate).
- -11 to 20 Journeymen- 1 must be Foreman (Foreman/11-20 Journeymen rate) and 1 must be a Sub-Foreman.
- -21 to 30 Journeymen- 1 must be a General Foreman (General Foreman/21-30 Journeymen rate) and 2 must be a Sub-Foreman.
- -31 to 40 Journeymen- 1 must be a General Foreman (General Foreman/31-40 Journeymen rate) and 3 must be a Sub-Foreman.
- -41 to 50 Journeymen- 1 must be a General Foreman (General Foreman/31-60 Journeymen rate) and 4 must be a Sub-Foreman.
- -51 to 60 Journeymen- 1 must be a General Foreman (General Foreman/31-60 Journeymen rate) and 5 must be a Sub-Foreman.
- -61+ Journeymen- 1 must be a General Foreman (General Foreman/61+ Journeymen rate) and 6 must be a Sub-Foreman.

### SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 5 consecutive workdays.
- 2nd Shift (4:30 PM to 12:30 AM) shall receive 8 hours pay for 7.5 hours work + an additional 10% of the regular rate, per hour, inclusive of benefits.
- 3rd Shift (12:30 AM to 8:00 AM) shall receive 8 hours pay for 7 hours work + an additional 15% of the regular rate, per hour, inclusive of benefits.

### **OVERTIME:**

Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, and all hours on Saturdays, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

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

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County - UNION

#### Craft: Electrician - Teledata (15 Voice/Data Lines & Less)

#### PREVAILING WAGE RATE

	10/28/19	11/02/20
Master	W56.16	W57.42
Technician/General	B30.89	B31.58
Foreman	T87.05	T89.00
Senior Technician/Lead	W51.41	W52.56
Foreman	B28.27	B28.91
(21-30 Workers on Job)	T79.68	T81.47
Technician A/Foreman	W49.25	W50.35
(11-20 Workers on Job)	B27.08	B27.69
	T76.33	T78.04
Technician B/Working	W47.09	W48.15
Foreman	B25.90	B26.47
(4-10 Workers on Job)	T72.99	T74.62
Technician C/Journeyman	W43.20	W44.17
(1-3 Workers on Job)	B23.76	B24.29
	T66.96	T68.46

Craft: Electrician - Teledata (15 Voice/Data Lines & Less)

## APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES								
6 Months				66%	72%	79%	86%		
Benefits				11.81	12.89	14.14	15.40		

Ratio of Apprentices to Journeymen - 2:3

Craft: Electrician - Teledata (15 Voice/Data Lines & Less)

**COMMENTS/NOTES** 

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM AFTER 10-31-14:

INTERVAL PERIOD AND RATES

6 Months 35% 35% 40% 43% 48% 54% 61% 67% 74% 81% Benefits 6.76 6.76 7.16 7.70 8.59 9.66 10.82 11.99 13.25 14.51

#### NOTES:

- These rates are for service, maintenance, moves, and/or changes affecting
- 15 Voice/Data (teledata) lines or less. These rates may NOT be used for any teledata work in new construction (including additions) or any fiber optic work.
- The number of Teledata workers on the jobsite is the determining factor for which Foreman category applies .

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

#### SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 5 consecutive workdays.

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- 2nd Shift (4:30 PM to 12:30 AM) shall receive 8 hours pay for 7.5 hours work + an additional 10% of the regular rate, per hour, inclusive of benefits.
- 3rd Shift (12:30 AM to 8:00 AM) shall receive 8 hours pay for 7 hours work + an additional 15% of the regular rate, per hour, inclusive of benefits.

#### **OVERTIME:**

Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, and all hours on Saturdays, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

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

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**County - UNION** 

Craft:	Electrician - Teledata (16 Instruments & More)	PREVAILING WAGE RATE
	See "Electrician" Rates	
	See Electrician Nates	
Craft:	Electrician - Teledata (16 Instruments & More)	COMMENTS/NOTES
***See	ELECTRICIAN Rates***	

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**County - UNION** 

## Craft: Electrician- Outside Commercial

## PREVAILING WAGE RATE

	06/01/20	05/31/21
Cable Splicer	W64.14	W65.22
	B37.69	B38.97
	T101.83	T104.19
Certified Welder	W61.22	W62.26
	B35.97	B37.21
	T97.19	T99.47
Equipment Operator	W58.31	W59.29
	B34.26	B35.43
	T92.57	T94.72
Foreman (1-3	W64.14	W65.22
Journeymen workers on	B37.69	B38.97
job)	T101.83	T104.19
Foreman (4-10	W67.06	W68.19
Journeymen workers on	B39.40	B40.75
job)	T106.46	T108.94
General Foreman (11-20	W68.22	W69.37
Journeymen workers on	B40.08	B41.45
job)	T108.30	T110.82
General Foreman (21-30	W69.97	W71.16
Journeymen workers on	B41.11	B42.52
job)	T111.08	T113.68
General Foreman (31-60	W75.80	W77.08
Journeymen workers on	B44.54	B46.06
job)	T120.34	T123.14
General Foreman (61+	W76.96	W78.27
Journeymen workers on	B45.22	B46.77
job)	T122.18	T125.04
Groundman	W34.99	W35.58
	B20.56	B21.26
	T55.55	T56.84
Journeyman	W58.31	W59.29
Lineman/Technician	B34.26	B35.43
	T92.57	T94.72
Sub-Foreman	W66.47	W67.60
	B39.06	B40.40
	T105.53	T108.00

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County - UNION

Craft: Electrician- Outside Commercial APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES								
1000 Hours	60%	65%	70%	75%	80%	85%	90%		
Benefits	57.75% of	Journey	man	wage	+ \$.01				

#### Craft: Electrician- Outside Commercial

#### **COMMENTS/NOTES**

EFFECTIVE 6-1-20- The apprentice benefit rate shall be 58.75% + \$.01.

EFFECTIVE 5-31-21- The apprentice benefit rate shall be 59.75% + \$.01.

#### \* FOR UTILITY WORK PLEASE SEE STATEWIDE RATES

The regular worday shall be 8 hours, between 8:00 AM and 4:30 PM.

#### FOREMAN REQUIREMENTS:

- 1 to 3 Journeymen- 1 must be a Foreman (Foreman/1-3 Journeymen rate).
- -4 to 10 Journeymen- 1 must be a Foreman (Foreman/4-10 Journeymen rate).
- -11 to 20 Journeymen- 1 must be Foreman (Foreman/11-20 Journeymen rate) and 1 must be a Sub-Foreman.
- -21 to 30 Journeymen- 1 must be a General Foreman (General Foreman/21-30 Journeymen rate) and 2 must be a Sub-Foreman.
- -31 to 40 Journeymen- 1 must be a General Foreman (General Foreman/31-40 Journeymen rate) and 3 must be a Sub-Foreman.
- -41 to 50 Journeymen- 1 must be a General Foreman (General Foreman/31-60 Journeymen rate) and 4 must be a Sub-Foreman.
- -51 to 60 Journeymen- 1 must be a General Foreman (General Foreman/31-60 Journeymen rate) and 5 must be a Sub-Foreman.
- -61+ Journeymen- 1 must be a General Foreman (General Foreman/61+ Journeymen rate) and 6 must be a Sub-Foreman.

#### SHIFT DIFFERENTIALS:

Shift work must run for a minimum of 5 consecutive workdays.

2nd Shift (4:30 PM to 12:30 AM): 8 hrs. pay for 7.5 hrs. work + an additional 10% of the regular rate, inclusive of benefits.

3rd Shift (12:30 AM to 8:00 AM): 8 hrs. pay for 7 hrs. work + an additional 15% of the regular rate per hour, inclusive benefits.

### **OVERTIME:**

Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, and all hours on Saturdays, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

#### RECOGNIZED HOLIDAYS:

New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day and Christmas Day.

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County - UNION

Craft: Electrician-Utility Work (North) PREVAILING W.	<i>N</i> AGE KATE
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Rates are located in the "Statewide" rate package

Craft: Electrician-Utility Work (North)

### APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES								
* 6 Months	60%	65%	70%	75%	80%	85%	90%		
Benefits	69% of	Appren	tice	Wage	Rate	for all	intervals		

Craft: Electrician-Utility Work (North) COMMENTS/NOTES

Electrician-Utility Work (North) rates are located in the "Statewide" rate package.

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<sup>\*</sup> The apprentice wage rate is paid at the percentage of the Journeyman Lineman wage rate located in the "Statewide" rate package.

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Craft: Electrician-Utility Work (South) PREVAILING WAGE RATE

Rates are located in the "Statewide" rate package

Craft: Electrician-Utility Work (South)

### APPRENTICE RATE SCHEDULE

INTERVAL		PERIOD AND RATES							
6 Months	29.11	31.54	33.96	36.39	38.82	41.24	43.67		
Benefits	25.61	27.04	28.46	29.90	31.33	32.79	34.23		

Craft: Electrician-Utility Work (South)

**COMMENTS/NOTES** 

Electrician-Utility Work (South) rates are located in the "Statewide" rate package.

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County - UNION

Craft: Elevator Constructor PREVAILING WAGE RATE

	03/17/20	03/17/21	03/17/22	03/17/23
Journeyman	W69.56 B41.92	W72.29 B42.92	W75.14 B43.91	W77.49 B45.57
	T111.48	T115.21	T119.05	T123.06

Craft: Elevator Constructor APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES								
Yearly	29.85	36.82	43.52	50.21					
Benefits	32.71	33.51	34.80	36.09					

### Ratio of Apprentices to Journeymen - 1:1

Craft: Elevator Constructor COMMENTS/NOTES

APPRENTICE RATE SCHEDULE AS OF 3-17-20: INTERVAL PERIOD AND RATES

Yearly 31.03 38.26 45.21 52.17

Benefits 33.38 34.20 35.55 36.89

APPRENTICE RATE SCHEDULE AS OF 3-17-21:

INTERVAL PERIOD AND RATES
Yearly 32.27 39.76 46.99 54.22
Benefits 34.05 34.91 36.30 37.70

APPRENTICE RATE SCHEDULE AS OF 3-17-22:

 INTERVAL
 PERIOD AND RATES

 Yearly
 33.56
 41.33
 48.84
 56.36

 Benefits
 34.72
 35.61
 37.05
 38.50

APPRENTICE RATE SCHEDULE AS OF 3-17-23:

 INTERVAL
 PERIOD AND RATES

 Yearly
 34.60
 42.62
 50.37
 58.12

 Benefits
 36.02
 36.94
 38.50
 39.95

The regular workday shall consist of either 7 or 8 hours to be established at the beginning of the project, between 7:00 AM and 4:30 PM.

## OVERTIME:

For all hours worked before or after the regular workday, Monday through Friday, and all hours on Saturday and Sunday, shall be paid at double the hourly rate. Holiday pay is one days wages (8 hours) plus double the hourly rate for all hours worked.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Columbus

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**County - UNION** 

Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Saturday holidays shall be observed on the previous Friday and Sunday holidays shall be observed on the following Monday.

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County - UNION

Craft: Elevator Modernization & Service

#### PREVAILING WAGE RATE

	03/17/20	03/17/21	03/17/22	03/17/23
Journeyman	W54.56	W56.77	W59.09	W60.89
	B40.86	B41.82	B42.79	B44.41
	T95.42	T98.59	T101.88	T105.30

**Craft: Elevator Modernization & Service** 

#### APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES								
Yearly	29.85	28.84	34.09	39.33					
Benefits	32.66	33.13	34.36	35.58					

### Ratio of Apprentices to Journeymen - 1:1

**Craft: Elevator Modernization & Service** 

**COMMENTS/NOTES** 

APPRENTICE RATE SCHEDULE AS OF 3-17-20: INTERVAL PERIOD AND RATES

Yearly 31.03 30.01 35.46 40.92

Benefits 33.33 33.82 35.09 36.36

APPRENTICE RATE SCHEDULE AS OF 3-17-21:

 INTERVAL
 PERIOD AND RATES

 Yearly
 32.27
 31.22
 36.90
 42.58

 Benefits
 34.00
 34.50
 35.83
 37.15

APPRENTICE RATE SCHEDULE AS OF 3-17-22:

 INTERVAL
 PERIOD AND RATES

 Yearly
 33.56
 32.50
 38.41
 44.32

 Benefits
 34.67
 34.20
 35.20
 37.94

## APPRENTICE RATE SCHEDULE AS OF 3-17-23:

 INTERVAL
 PERIOD AND RATES

 Yearly
 34.60
 33.49
 39.58
 45.67

 Benefits
 35.97
 36.53
 37.95
 39.38

MODERNIZATION (addition, replacement, refurbishing, relocation, or changes in design or appearance, of elevator equipment in existing buildings):

- The regular workday consists of 8 hours, between 7:00 AM and 4:30 PM.

#### - Overtime

Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturday and Sunday shall be paid at time and one-half the hourly rate. Holiday pay is one days wages (8 hours) plus time and one-half the hourly rate for all hours worked.

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SERVICE (repair or replacement of parts for the purpose of maintaining elevator equipment in good operating condition):

- The regular workday consists of 8 hours, between 6:00 AM and 6:00 PM.

#### Overtime:

Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturday shall be paid at time and one-half the hourly rate. All hours on Sunday and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS (Modernization and Service): New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Saturday holidays shall be observed on the previous Friday and Sunday holidays shall be observed on the following Monday.

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County - UNION

Craft: Glazier PREVAILING WAGE RATE

	05/01/19
* Leadman	W49.11
	B25.06
	T74.17
Foreman	W52.81
	B23.62
	T76.43
General Foreman	W54.81
	B23.75
	T78.56
Journeyman	W48.81
	B23.36
	T72.17

Craft: Glazier APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	50%	55%		60%	65%		70%	75%		
Benefits	Intervals	1 to 2 =	9.11	Intervals	3 to 4 =	11.71	Intervals	5 to 6 =	13.20	

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

Craft: Glazier COMMENTS/NOTES

Hazard/Height Pay: +\$1.00 per hour

\* When there are three (3) men working on a jobsite for three (3) days or longer, 1 Journeyman may be designated as a Leadman for the duration of the job, provided he has his OSHA certification.

## FOREMAN REQUIREMENTS:

- When there are 4 or more Glaziers on a job, 1 must be designated a Foreman.
- When there are 15 or more Glaziers on a job, 1 must be designated a General Foreman.

The regular workday shall consist of 8 hours, between 7:00 AM and 5:30 PM, Monday to Friday.

### SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, and the third shift shall receive 8 hours pay for 7 hours of work.

## OVERTIME:

Hours in excess of 8 per day, or before or after the regular workday Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular

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rate.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, General Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

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County - UNION

Craft: Heat & Frost Insulator PREVAILING WAGE RATE

	09/24/19
Foreman	W57.02
	B32.67
	T89.69
General Foreman	W59.36
	B33.78
	T93.14
Journeyman	W55.24
	B32.11
	T87.35

Craft: Heat & Frost Insulator APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	25.79	30.59	36.89	43.16						
Benefits	19.07	22.58	24.92	27.16						

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

## Craft: Heat & Frost Insulator COMMENTS/NOTES

NOTE: These rates apply to the installing of insulation on hot and cold mechanical systems.

The regular workday shall be 8 hours between 8:00 AM and 4:30 PM.

### SHIFT DIFFERENTIAL:

- Shift work must run for a minimum of 5 consecutive workdays.
- Second Shift shall work 7.5 hours and receive 8 hours pay, at the regular rate, plus 25% per hour.
- Third Shift shall work 7 hours and receive 8 hours pay, at the regular rate, plus 30% per hour.

### **OVERTIME:**

The first 2 hours in excess of 8 per day, hours outside of the regular workday Monday through Friday that are not shift work, and the first 10 hours on Saturday, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours in excess of 10 per day, and all hours on Sunday and holidays (except Labor Day) shall be paid at double the regular rate, inclusive of benefits. All hours on Labor Day shall be paid at triple the regular rate, inclusive of benefits.

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

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County - UNION

Craft: Heat & Frost Insulator - Asbestos Worker PREVAILING WAGE RATE

	09/24/19
Asbestos Helper	W36.89
Abatement	B24.92
	T61.81

Craft: Heat & Frost Insulator - Asbestos Worker APPRENTICE RATE SCHEDULE

INTERVAL		PERIOD AND RATES								
	SEE	НЕАТ &	FROST	INSULAT						
				Oit						

Ratio of Apprentices to Journeymen - 1:3

Craft: Heat & Frost Insulator - Asbestos Worker COMMENTS/NOTES

NOTE: These rates apply only to the removal of insulation materials/asbestos from mechanical systems, including containment erection and demolition, and placing material in appropriate containers.

The regular workday shall be 8 hours between 8:00 AM and 4:30 PM.

## SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 5 consecutive workdays.
- The second shift shall work 7.5 hours and receive 8 hours pay at the regular rate, plus 25% per hour.
- The third shift shall work 7 hours and receive 8 hours pay at the regular rate, plus 30% per hour.

OVERTIME: The first 2 hours in excess of 8 per day, hours outside of the regular workday Monday through Friday that are not shift work, and the first 10 hours on Saturday, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours in excess of 10 per day, and all hours on Sunday and holidays (except Labor Day) shall be paid at double the regular rate, inclusive of benefits. All hours on Labor Day shall be paid at triple the regular rate, inclusive of benefits.

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

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County - UNION

Craft: Industrial Painter- Bridges PREVAILING WAGE RATE

	07/28/20
Foreman	W62.18 B28.99 T91.17
General Foreman	W64.18 B28.99 T93.17
Journeyman	W57.18 B28.99 T86.17

Craft: Industrial Painter- Bridges

#### APPRENTICE RATE SCHEDULE

INTERVAL		PERIOD AND RATES								
6 Months	40%	50%			60%	70%		80%	90%	
Benefits	Intervals	1 to 2 =	10.28	Intervals	3 to 4 =	12.55	Intervals	5 to 6 =	15.56	

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

## Craft: Industrial Painter-Bridges

## **COMMENTS/NOTES**

\* Industrial Painters perform work on all industrial structures, such as bridges, water tanks, waste water facilitites, refineries, any structural steel work, etc.

These rates apply to: All bridges that span waterways, roadways, railways and canyons. All tunnels, overpasses, viaducts and all appurtenances.

#### FOREMEN REQUIREMENTS:

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

#### SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

#### **OVERTIME:**

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays and Sundays shall be paid at time and one-half the regular rate. All hours on holidays shall be paid at double the regular rate.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.
- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday

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**County - UNION** 

observed the following Monday.

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**Craft: Industrial Painter- Structural Steel** 

#### PREVAILING WAGE RATE

	07/28/20
Foreman	W50.92
	B26.64
	T77.56
General Foreman	W52.92
	B26.64
	T79.56
Journeyman	W45.92
	B26.64
	T72.56
I .	I .

Craft: Industrial Painter- Structural Steel

#### APPRENTICE RATE SCHEDULE

INTERVAL		PERIOD AND RATES								
	SEE	PAINTER	BRIDGES							

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

## **Craft: Industrial Painter- Structural Steel**

## **COMMENTS/NOTES**

\* Industrial Painters perform work on all industrial structures, such as bridges, water tanks, waste water facilitites, refineries, any structural steel work, etc.

These rates apply to: All work in power plants (any aspect). On steeples, on dams, on hangers, transformers, substations, on all open steel, in refineries, tank farms, water/sewerage treatment facilities and on pipelines.

### FOREMEN REQUIREMENTS:

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

### SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

#### **OVERTIME:**

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays and Sundays shall be paid at time and one-half the regular rate. All hours on holidays shall be paid at double the regular rate.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.
- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

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Craft: Industrial Painter- Water Tanks PREVAILING WAGE RATE

	07/28/20
Foreman	W51.97
	B26.29
	T78.26
General Foreman	W53.97
	B26.29
	T80.26
Journeyman	W46.97
	B26.29
	T73.26

Craft: Industrial Painter- Water Tanks APPRENTICE RATE SCHEDULE

INTERVAL		PERIOD AND RATES								
	SEE	PAINTER	BRIDGES							

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

## **Craft: Industrial Painter- Water Tanks**

## **COMMENTS/NOTES**

\* Industrial Painters perform work on all industrial structures, such as bridges, water tanks, waste water facilitites, refineries, any structural steel work, etc.

These rates apply to: All new and repaint water tanks (interior and exterior).

### FOREMEN REQUIREMENTS:

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

### SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

## **OVERTIME:**

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays and Sundays shall be paid at time and one-half the regular rate. All hours on holidays shall be paid at double the regular rate.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.
- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

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## Craft: Industrial Painter-Containment PREVAILING WAGE RATE

	07/28/20
Journeyman	W38.23
	B26.04
	T64.27

#### **Craft: Industrial Painter-Containment**

### **COMMENTS/NOTES**

Note: These rates shall require no painting, but used in a supporting capacity only, such as wrapping, boxing, fencing, etc. on tanks.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

#### SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, and the third shift shall receive 8 hours pay for 7 hours of work.

### **OVERTIME:**

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.
- Four 10-hour days may be worked, at straight time, Monday through Friday.

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

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Craft: Ironworker PREVAILING WAGE RATE

	07/24/20
Rod /Fence Foreman	W46.14
	B48.12
	T94.26
Rod/Fence Journeyman	W43.14
	B48.12
	T91.26
Structural Foreman	W48.44
	B48.12
	T96.56
Structural Journeyman	W45.44
	B48.12
	T93.56
	1

Craft: Ironworker APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	50%	60%		Yearly	70%	80%	90%			

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

Craft: Ironworker COMMENTS/NOTES

HAZARDOUS WASTE WORK: On hazardous waste removal work on a state or federally designated hazardous waste site where the Ironworker is required to wear Level A,B, or C personal protection: +\$3.00 per hour

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

## FOREMAN REQUIREMENTS:

When there are 2 or more Ironworkers on a job, 1 shall be designated a Foreman.

### SHIFT DIFFERENTIALS:

- When a 2 shift schedule is established, the first, or day shift, shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis, and receive the regular rate plus 15%.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular hourly rate, the second shift shall receive the regular rate plus 15%, and the third shift shall receive the regular rate plus 20%.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis.
- When an irregular shift is established for the Ironworker (Structural) classification, the rate shall be paid at time and one-half the regular rate, inclusive of benefits. When an irregular shift is established for the Rod/Fence classification, the shift shall be established on an 8 hour basis and receive the regular rate, plus 20%.

## **OVERTIME:**

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## **County - UNION**

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

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

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Craft: Laborer - Asbestos & Hazardous Waste Removal

PREVAILING WAGE RATE

	10/24/19
Journeyman (Handler)	W32.48 B22.81 T55.29

Craft: Laborer - Asbestos & Hazardous Waste Removal

#### APPRENTICE RATE SCHEDULE

INTERVAL		PERIOD AND RATES							
Yearly	19.49	22.74	25.98	29.23					
Benefits	21.16	for	all	intervals					

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

## Craft: Laborer - Asbestos & Hazardous Waste Removal

## COMMENTS/NOTES

NOTE: These rates apply to work in connection with Asbestos, Radiation, Hazardous Waste, Lead, Chemical, Biological, Mold Remediation and Abatement.

The regular workday shall be 8 hours.

## **OVERTIME:**

- Hours in excess of 8 per day, Monday through Saturday, and all hours on Sunday and holidays shall be paid at time and one-half the regular rate.
- Benefits on ALL overtime hours shall be paid at straight time.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Good Friday, Easter, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. (Holidays start at 12:00 am).

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<sup>\*</sup> Ratio of apprentices to journeymen shall not be more than one apprentice for the first journeyman and no more than (1) apprentice for each additional three (3) journeymen.

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Craft: Laborer - Building PREVAILING WAGE RATE

	05/12/20
Class A Journeyman	W34.85
	B30.27
	T65.12
Class B Journeyman	W34.10
	B30.27
	T64.37
Class C Journeyman	W28.99
	B30.27
	T59.26
Foreman	W39.21
	B30.27
	T69.48
General Foreman	W43.56
	B30.27
	T73.83

Craft: Laborer - Building APPRENTICE RATE SCHEDULE

INTERVAL		PERIOD AND RATES							
6 Months	60%	70%	80%	90%					
Benefit	27.02	27.02	27.02	27.02					

## Ratio of Apprentices to Journeymen - \*

## Craft: Laborer - Building COMMENTS/NOTES

CLASS A: Specialist laborer including mason tender or concrete pour crew; scaffold builder (scaffolds up to 14 feet in height); operator of forklifts, Bobcats (or equivalent machinery), jack hammers, tampers, motorized tampers and compactors, vibrators, street cleaning machines, hydro demolition equipment, riding motor buggies, conveyors, burners; and nozzlemen on qunite work.

CLASS B: Basic laborer - includes all laborer work not listed in Class A or Class C.

CLASS C: Janitorial-type light clean-up work associated with the TURNOVER of a project, or part of a project, to the owner. All other clean-up work is Class B.

The regular workday shall be 8 hours between 6:00 AM and 6:00 PM.

#### SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 5 consecutive workdays.
- When a 2-shift schedule is worked, including a day shift, both shifts shall be established on the basis of 8 hours pay for 8 hours worked. The second shift shall receive the regular rate plus an additional 10%.
- When a 3-shift schedule is worked, the day shift shall be established on the basis of 8 hours pay for 8 hours worked, the second shift shall be established on the basis of 8 hours pay for 7.5 hours worked, and the third shift shall be established

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<sup>\*</sup> Ratio of apprentices to journeymen shall not be more than one apprentice for the first journeyman and no more than (1) apprentice for each additional three (3) journeymen.

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on the basis of 8 hours pay for 7 hours worked. The day shift shall receive the regular rate, the second shift shall receive the regular rate plus an additional 10%, and the third shift shall receive the regular rate plus an additional 15%.

- When a second or third shift is worked with no day shift, the second or third shift shall be established on the basis of 8 hours pay for 8 hours worked. The second shift shall receive the regular rate plus an additional 10%, and the third shift shall receive the regular rate plus an additional 15%.

#### **OVERTIME:**

- Hours in excess of 8 per day, or outside the regular workday that are not shift work, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate. Saturday may be used as a make-up day (paid at straight time) for a day lost to inclement weather, or for a holiday that is observed during the work week, Monday through Friday. All hours on Sundays and holidays shall be paid at double the regular rate.
- Four 10-hour days may be worked Monday to Thursday, at straight time, with Friday used a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the regular rate.
- Benefits on ALL overtime hours shall be paid at time and one-half.

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

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Craft:	Laborer - Heavy & General	PREVAILING WAGE RATE
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Rates are located in the "Statewide" rate package

Craft: Laborer - Heavy & General

#### APPRENTICE RATE SCHEDULE

INTERVAL		PERIOD AND RATES							
1000 Hours	60%	70%	80%	90%					
Benefit	21.78	for	all	intervals					

Ratio of Apprentices to Journeymen - \*

Craft: Laborer - Heavy & General

**COMMENTS/NOTES** 

Heavy & General Laborer rates are located in the "Statewide" rate package.

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<sup>\*</sup> No more than 1 apprentice for the first journeyman and no more than 1 apprentice for each additional 3 journeymen.

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Craft: Laborer-Residential and Modular Construction

PREVAILING WAGE RATE

	04/01/20
* Skilled Tradesman (only applies to Modular Construction)	W26.55 B5.45 T32.00
Foreman (person directing crew, regardless of his skill classification)	W30.55 B5.45 T36.00
Laborer	W22.55 B5.45 T28.00
Laborer (for single family and stand-alone duplex owned by single owner)	W17.05 B2.95 T20.00

Craft: Laborer-Residential and Modular Construction

#### APPRENTICE RATE SCHEDULE

INTERVAL		PERIOD AND RATES							
As shown	800 hours	600 hours	600 hours						
wage & benefits	70%	80%	90%						

Ratio of Apprentices to Journeymen-

One (1) apprentice shall be allowed for the first journeyman on site and no more than one (1) additional apprentice for each additional three (3) journeymen on site.

Craft: Laborer-Residential and Modular Construction

**COMMENTS/NOTES** 

### \* SKILLED TRADESMAN-

any worker doing work not typically done by a Building Laborer. Some examples are installing interior doors, sheet rock, hooking up appliances, installing light fixtures, installing railing systems, etc. Please note where local building codes require that certain work be performed under the supervision of a licensed tradesman (i.e. Plumber, Electrician, etc.) Laborers shall work under such supervision.

RESIDENTIAL CONSTRUCTION- All residential construction (not commercial), single-family, stand-alone duplex houses, townhouses and multi-family buildings of not more than four (4) floors. Each housing unit must be fully and independently functional; each housing unit must have its own kitchen and bathroom. The definition includes all incidental items such as site work, parking areas, utilities, streets and sidewalks. Please note the construction must be Residential in nature. A First Floor at or below grade may contain commercial space not to exceed 50% square footage of the floor; at least 50% of the First Floor must contain living accommodations or related nonresidential uses (e.g. laundry space, recreation/hobby rooms, and/or corridor space). Basement stories below grade used for storage, parking, mechanical systems/equipment, etc., are considered basement stories which are not used in determining the building's height even if used for storage purposes. In addition, barracks and dormitories are not considered residential projects.

MODULAR RESIDENTIAL CONSTRUCTION- all aspects of modular residential construction (not commercial) at the site of installation of structures of no more than four (4) stories, including all excavation and site preparation, footings and

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foundation systems whether poured on-site or prefabricated, all underground waterproofing, underground utilities, concrete slabs, sidewalks, driveways, paving, hardscape and landscaping. Please note the construction must be Residential as defined above. All work performed by the Set Crew (the crew of workers who set the modular boxes on the foundation), including the rigging, setting, attaching and assembly of all modules and structural members, preparation of the foundation to accept modules, such as sill plates, connection of all in-module and under-module connections including, but not limited to, plumbing, electrical, HVAC, fire suppression, CATS, telephone, television/internet, and fiber optic, the building or installation of any porches or decks regardless of material or method of construction, the on-site installation of, or completion of any roof system, doors, windows and fenestrations, including flashing, gutter and soffit systems, waterproofing, insulation and interior and exterior trim work, and painting. Please note that modular construction does not include on-site stick built construction, tip up construction or panel built construction.

The regular workday shall be 8 hours between 6:00 AM and 6:00 PM.

#### **OVERTIME:**

Hours worked in excess of 8 per day/40 per week, Monday through Saturday, and all hours worked on Sunday and holidays shall be paid at time and one-half the hourly rate.

#### RECOGNIZED HOILDAYS:

New Year's Day, Martin Luther King Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day and Christmas Day.

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Craft: Millwright PREVAILING WAGE RATE

	05/01/20
Foreman	W59.32
	B35.01
	T94.33
Journeyman	W51.58
	B30.52
	T82.10

Craft: Millwright APPRENTICE RATE SCHEDULE

INTERVAL		PERIOD AND RATES								
6 Months	40%	55%	65%	80%	90%					
Benefits	58% of	Appren	tice	Wage	Rate	for all	intervals	+ \$.60		

Ratio of Apprentices to Journeymen - 1:3

Craft: Millwright COMMENTS/NOTES

### FOREMAN REQUIREMENTS:

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

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

### SHIFT DIFFERENTIALS:

- When a 2 shift schedule (including a day shift) is established, the day shift shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis, and receive the regular rate plus 15%, inclusive of benefits.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular hourly rate, the second shift shall receive the regular rate plus 15% and the third shift shall receive the regular rate plus 20%, inclusive of benefits.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis. The second shift shall receive the regular rate plus 15% and the third shift shall receive the regular rate plus 20%, inclusive of benefits
- When an irregular shift must be established, this shift shall receive the regular rate plus 15%, inclusive of benefits.

### **OVERTIME:**

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

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

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substituted for the day after Thanksgiving.

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County - UNION

Craft:	<b>Operating Engineer</b>	PREVAILING WAGE RATE
Ci ait.	Operating Engineer	TREVAILING WAGE RATE

Rates are located in the "Statewide" rate package

Craft: Operating Engineer APPRENTICE RATE SCHEDULE

INTERVAL		PERIOD AND RATES							
Yearly	60%	70%	80%	90%					

Ratio of Apprentices to Journeymen - \*

Craft: Operating Engineer COMMENTS/NOTES

Operating Engineer rates are located in the "Statewide" rate package.

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<sup>\* 1</sup> apprentice for each piece of heavy equipment. At least 10 pieces of heavy equipment or a minimum of 5 Operating Engineers must be on site.

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Craft:	Operating Engineer - Field Engineer	PREVAILING WAGE RATE
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Rates are located in the "Statewide" rate package

**Craft: Operating Engineer - Field Engineer** 

### APPRENTICE RATE SCHEDULE

INTERVAL		PERIOD AND RATES								
Yearly	70%	75%	of Rod/	Chainman	Wage					
Yearly			80%	90%	Transit/	Instrument	man	Wage		

Ratio of Apprentices to Journeymen - \*

Craft: Operating Engineer - Field Engineer

**COMMENTS/NOTES** 

Operating Engineer - Field Engineer rates are located in the "Statewide" rate package.

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<sup>\*</sup> No more than 1 Field Engineer Apprentice per Survey Crew.

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Craft: Painter - Line Striping PREVAILING WAGE RATE

	01/23/20
Apprentice (1st year)	W27.50 B11.90
	T39.40
Apprentice (2nd year)	W31.50 B20.60 T52.10
Foreman (Charge Person)	W40.15 B21.38 T61.53
Journeyman 1 (at least 1 year of working exp. as a journeyman)	W35.38 B21.38 T56.76
Journeyman 2 (at least 2 years of working exp. as a journeyman)	W39.15 B21.38 T60.53

Craft: Painter - Line Striping COMMENTS/NOTES

## **OVERTIME:**

Hours in excess of 8 per day, Monday through Saturday, and all hours on Sundays and holidays shall be paid at time and one-half the hourly rate.

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

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County - UNION

**Craft: Paperhanger - New Construction** 

#### PREVAILING WAGE RATE

	05/01/20
Foreman	W47.68 B24.11 T71.79
Journeyman	W42.61 B24.11 T66.72

Craft: Paperhanger - New Construction

#### APPRENTICE RATE SCHEDULE

INTERVAL		PERIOD AND RATES								
	SEE	PAINTER	NEW	CONSTR	TION					

Ratio of Apprentices to Journeymen - 1:4

**Craft: Paperhanger - New Construction** 

#### COMMENTS/NOTES

## FOREMEN REQUIREMENTS:

- When there are 4 or more Paperhangers on a job, 1 shall be designated a Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

#### SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

#### **OVERTIME:**

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.
- Four 10-hour days may be worked, at straight time, Monday through Friday.

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

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Craft: Paperhanger - Renovation PREVAILING WAGE RATE

	05/01/20
Foreman	W35.15 B19.81 T54.96
Journeyman	W31.96 B19.81 T51.77

Craft: Paperhanger - Renovation APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES								
	SEE	PAINTER	NEW	Lic	TION				

Ratio of Apprentices to Journeymen - 1:4

Craft: Paperhanger - Renovation

**COMMENTS/NOTES** 

NOTE: These rates may only be used on jobs where no major alterations occur, and where not more than 3 other trades are present on the job, but may NOT, under any circumstances, be used for work on bridges, stacks, elevated tanks, or generating stations.

## FOREMEN REQUIREMENTS:

- When there are 4 or more Paperhangers on a job, 1 shall be designated a Foreman.

#### **OVERTIME:**

- Hours in excess of 8 per day and 40 per week shall be paid at time and one-half the regular rate.
- Four 10-hour days may be worked, at straight time, Monday through Sunday.

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Craft: Pipefitter PREVAILING WAGE RATE

	05/01/20
Foreman	W54.76 B45.83 T100.59
Journeyman	W51.01 B42.70 T93.71

Craft: Pipefitter APPRENTICE RATE SCHEDULE

INTERVAL		PERIOD AND RATES								
Yearly	35%	45%	55%	65%	75%					
Benefit	21.63	24.20	26.79	29.36	31.94					

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

Craft: Pipefitter COMMENTS/NOTES

### FOREMAN REQUIREMENTS:

- When there are 2 or more Journeyman Pipefitters on a job, 1 shall be designated a Foreman.
- There shall be a Foreman for every 8 Journeyman Pipefitters on a job.

The regular workday shall be 8 hours between 7:00 AM and 3:30 PM.

### SHIFT DIFFERENTIAL:

- 2nd Shift (3:30 PM-11:30 PM) shall work 7.5 hours and receive 8 hours pay at the regular rate, plus 10% per hour on the total rate.
- 3rd Shift (11:30 PM-7:00 AM) shall work 7 hours and receive 8 hours pay at the regular rate, plus 15% per hour on the total rate.

#### **OVERTIME:**

- All hours worked in excess of 8 per day, Monday through Friday, and all hours worked on Saturday, shall be paid at time and one-half, inclusive of benefits. All hours on Sunday and holidays shall be paid at double time, inclusive of benefits.
- By mutual agreement, employees may work four 10-hour days, Monday to Thursday, at straight time rate. Friday may be used as a make-up day for a day lost to inclement weather, and may be paid at straight time. If Friday is not a make-up day, the first 8 hours shall be paid at time and one-half, inclusive of benefits; hours in excess of 8 shall be paid at double time, inclusive of benefits.

## SHIFT DIFFERENTIAL (Maintenance Work Only):

- 2nd Shift (3:30 PM-11:30 PM) shall work 7.5 hours and receive 8 hours pay at the regular rate, plus 10% per hour on the total rate.
- 3rd Shift (11:30 PM-7:00 AM) shall work 7 hours and receive 8 hours pay at the regular rate, plus 15% per hour on the total rate.

### OVERTIME (Maintenance Work Only):

- All hours in excess of 8 per day, Monday through Saturday, shall be paid at time and one-half, inclusive of benefits. All

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hours on Sundays and holidays shall be paid at double time, inclusive of benefits.

NOTE: Maintenance work is work to repair, restore, or improve the efficiency of existing facilities. This does NOT apply to ANY new construction.

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

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**County - UNION** 

Craft:	Plasterer	PREVAILING WAGE RATE

See Bricklayer, Stone Mason Rates

Craft: Plasterer COMMENTS/NOTES

\*\*\*See BRICKLAYER, STONE MASON Rates\*\*\*

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County - UNION

Craft: Plumber PREVAILING WAGE RATE

05/01/20
W60.69
B37.32
T98.01
W64.62
B37.32
T101.94
W56.19
B37.32
T93.51

Craft: Plumber APPRENTICE RATE SCHEDULE

INTERVAL		PERIOD AND RATES								
Yearly	30%	45%	55%	65%	75%					
Benefits	14.31	20.83	22.72	24.52	26.50					

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

#### Craft: Plumber COMMENTS/NOTES

#### FOREMAN REQUIREMENTS:

- On any job having 2 or more Plumbers, 1 must be designated a Foreman.
- On any job having 9 or more Plumbers, 2 shall be designated as Foremen.

The regular workday shall consist of 8 hours between 7:00 AM and 4:30 PM.

#### SHIFT DIFFERENTIALS:

- Shift work must continue for a minimum of 5 consecutive workdays.
- When two shifts are worked, the second shift shall work 7.5 hours and receive 8 hours pay, at a rate equal to the hourly rate plus 10%, inclusive of benefits.
- When a third shift is worked, the third shift shall work 7 hours and receive 8 hours pay, at a rate equal to the hourly rate plus 15%, inclusive of benefits.

## **OVERTIME:**

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

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

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<sup>\*</sup> Employers may employ 1 apprentice on any job where 1 or 2 journeymen are employed. Thereafter, 1 apprentice may be employed for every 4 journeymen.

County - UNION

Craft: Roofer PREVAILING WAGE RATE

	06/04/20
Foreman	W42.77 B28.03 T70.80
Journeyman	W39.77 B28.03 T67.80

Craft: Roofer APPRENTICE RATE SCHEDULE

INTERVAL		PERIC	DD AND RAT	ES				
6 Months	15.90	19.89	23.86	27.84	31.82	35.79		
Benefits	2.10	2.10	25.28	25.28	25.28	25.28		

### Ratio of Apprentices to Journeymen - \*

- \* A) For roofing jobs that are of the 1 or single ply nature: 1:2 or fraction thereof
- B) For roofing jobs on new built up roofs: 1:3 or fraction thereof
- C) For roofing jobs that are of a tear-off nature: 1:2 or fraction thereof
- D) For roofing jobs {not requiring complete removal of existing systems, installation done over existing roof}: 1:3 or fraction thereof

Craft: Roofer COMMENTS/NOTES

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM AFTER 4-1-17:

INTERVAL PERIOD AND RATES

6 Months 15.90 19.89 23.86 25.85 27.84 29.83 31.82 35.79 Benefits 2.10 2.10 25.28 25.28 25.28 25.28 25.28 25.28

Pitch: +.50 per hour

Mop Man: +.30 per hour

The regular workday consists of 8 hours between 8:00 AM and 4:30 PM.

### **OVERTIME:**

Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturdays, Sundays, and holidays shall be paid at time and one-half the regular rate.

RECOGNIZED HOLIDAYS: New Year's Day, Good Friday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

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County - UNION

Craft: Sheet Metal Sign Installation PREVAILING WAGE RATE

	04/16/20
Foreman	W38.29 B35.55 T73.84
Journeyman	W36.79 B35.55 T72.34

Craft: Sheet Metal Sign Installation APPRENTICE RATE SCHEDULE

INTERVAL		PERIC	DD AND RAT	ES						
1000 hours	35%	40%	45%	50%	55%	60%	65%	70%	75%	80%
Benefits	12.03	13.71	15.39	17.09	19.21	20.92	22.65	24.38	26.10	27.82

Ratio of Apprentices to Journeymen - 1:3

Craft: Sheet Metal Sign Installation COMMENTS/NOTES

### FOREMAN REQUIREMENT:

When there are 6 or more Sheet Metal Sign Installers on a job, 1 shall be designated a Foreman.

The regular workday consists of 8 hours, between 7:00 AM and 3:30 PM.

## **OVERTIME**:

Hours before or after the regular workday, Monday though Friday, and all hours worked on Saturday shall be paid at time and one-half the hourly rate. All hours on Sunday and holidays shall be paid at double the hourly rate.

Four(4) 10 hour days may be worked, Monday through Friday, at straight time, for projects lasting at least one week in duration. The fifth day may be used as a make-up day at straight time for a day lost due to inclement weather. However, if the fifth day is not a make-up day, all hours worked will be paid at time and one-half the hourly rate.

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

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County - UNION

Craft: Sheet Metal Worker PREVAILING WAGE RATE

	06/09/20
Foreman	W53.62
	B46.85
	T100.47
General Foreman	W54.62
	B46.85
	T101.47
Journeyman	W50.12
	B46.85
	T96.97

Craft: Sheet Metal Worker APPRENTICE RATE SCHEDULE

INTERVAL		PERIC	DD AND RAT	ES						
Yearly	35%	45%	55%	65%	of	Journey	man	Wage	Rate	
Benefit	35%	45%	55%	65%	of	Journey	man	Benefit	Rate	

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

Craft: Sheet Metal Worker COMMENTS/NOTES

### FOREMAN REQUIREMENTS:

- When there are 2 or more Sheet Metal Workers on a project, 1 must be designated a Foreman.
- When there are 17 or more Sheet Metal Workers on a project, 1 must be designated a General Foreman.
- When there is only 1 Sheet Metal Worker (1 Journeyman) on a project, he/she shall receive \$1.00 more than the regular Journeyman's rate.

The regular workday is 8 hours between 7:00 AM and 4:30 PM.

### SHIFT DIFFERENTIAL:

- 2nd Shift (3:30 PM 12:00 AM): +17% of regular hourly rate
- Shift work must run for a minimum of 5 consecutive workdays.

### **OVERTIME:**

- Hours in excess of 8 per day, or before or after the regular workday, that are not shift work, and the first 10 hours on Saturdays shall be paid at time and one-half of the regular rate, inclusive of benefits. Hours in excess of 10 per day on Saturday, and all hours on Sundays and holidays shall be at double the regular rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday through Friday, at straight time, with hours in excess of 10 per day, and hours in excess of 40 per week paid at the overtime rates listed above.

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

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County - UNION

Craft: Sprinkler Fitter PREVAILING WAGE RATE

07/01/20
W66.89
B32.13
T99.02
W70.15
B32.13
T102.28
W62.64
B32.13
T94.77

Craft: Sprinkler Fitter APPRENTICE RATE SCHEDULE

INTERVAL	PERIO	D AND RAT	ES					
1000 Hours							80%	85%
Benefits					Intervals	9 to 10	Jourymn	Ben.

### APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES REGISTERED AS OF 7-1-13:

INTERVAL PERIOD AND RATES

1000 hours 25% 30% 40% 45% 55% 60% 70% 75% 85% 90%

Benefits 12.33 12.33 25.63 25.63 25.63 Intervals 7 to 10 receive Journeyman Ben.

Craft: Sprinkler Fitter COMMENTS/NOTES

The regular workday consists of 8 consecutive hours between 6:00 AM and 4:30 PM.

## FOREMAN REQUIREMENTS:

- The first Sprinkler Fitter on the job must be designated a Foreman.
- On any job having 12 or more Sprinkler Fitters, one must be designated a General Foreman.

#### SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 2 consecutive workdays.
- 2nd and 3rd shift shall receive an additional 15% of the regular rate, per hour.
- Any "off hours" shift starting at 8:00 PM or later shall receive an additional 25% of the regular rate, per hour.

## **OVERTIME:**

The first 2 hours in excess of 8 per day, after the regular workday that are not shift work, Monday through Friday, shall be paid at time and one-half the regular rate. Hours worked in excess of 10 per day, Monday through Friday, and all hours on Saturday, Sunday and holidays, shall be paid double the regular rate.

Four 10 hour days may be worked, Monday through Friday, at straight-time.

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

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County - UNION

Craft: Tile Finisher-Marble PREVAILING WAGE RATE

	06/02/20
Finisher	W47.92
	B35.14
	T83.06

Craft: Tile Finisher-Marble APPRENTICE RATE SCHEDULE

INTERVAL		PERIO	DD AND RAT	ES						
750 Hours	40%	45%	50%	55%	60%	65%	70%	75%	85%	95%

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

Craft: Tile Finisher-Marble COMMENTS/NOTES

## OVERTIME:

Hours in excess of 7 per day, Monday through Friday, and the first 7 hours on Saturdays shall be paid at time and one half the regular rate, inclusive of benefits. Hours in excess of 7 on Saturdays and all hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Sunday holidays observed the following Monday.

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County - UNION

Craft: Tile Setter - Ceramic PREVAILING WAGE RATE

	06/02/20
Finisher	W46.21 B31.31
	T77.52
Setter	W60.09
	B34.63
	T94.72

Craft: Tile Setter - Ceramic APPRENTICE RATE SCHEDULE

INTERVAL		PERIC	DD AND RAT	ES						
750 Hours	35%	40%	50%	55%	60%	65%	70%	75%	80%	90%

Ratio of Apprentices to Journeymen - 1:4

Craft: Tile Setter - Ceramic COMMENTS/NOTES

### **OVERTIME**:

Hours in excess of 7 per day, and the first 10 hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Saturdays after 10 hours shall be paid double the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.

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

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County - UNION

Craft: Tile Setter - Marble PREVAILING WAGE RATE

	06/02/20
Tile Setter	W60.35 B37.39
	T97.74

Craft: Tile Setter - Marble APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
750 Hours	40%	45%	50%	55%	60%	65%	70%	75%	85%	95%

Ratio of Apprentices to Journeymen - 1:4

Craft: Tile Setter - Marble COMMENTS/NOTES

### **OVERTIME:**

Hours in excess of 7 per day, Monday through Friday, and the first 7 hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. Hours in excess of 7 on Saturdays, and all hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Sunday holidays observed the following Monday.

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County - UNION

Craft: Tile Setter - Mosaic & Terrazzo PREVAILING WAGE RATE

	07/09/20
Grinder or Assistant	W55.82
	B37.31
	T93.13
Mechanic	W57.42
	B37.33
	T94.75
Terrazzo Resinous	W47.92
Worker	B30.24
	T78.16
	1

Craft: Tile Setter - Mosaic & Terrazzo APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
750 Hours	50%	55%	60%	65%	70%	75%	85%	95%	100%	

Ratio of Apprentices to Journeymen - 1:5

Craft: Tile Setter - Mosaic & Terrazzo COMMENTS/NOTES

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM AFTER 7-1-17:

INTERVAL PERIOD AND RATES

1500 Hours 35% 45% 60% 70% 80% 90% 100%

The regular workday consists of 7 hours, between 8:00 AM and 3:30 PM.

#### **OVERTIME:**

- Hours in excess of 7 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Monday after Easter, Memorial Day, July 4th, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Sunday holidays observed the following Monday.

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County - UNION

Craft: Truck Driver PREVAILING WAGE RATE

	05/01/20
Bucket, Utility, Pick-up, Fuel Delivery trucks	W39.21 B38.05 T77.26
Dump truck, Asphalt Distributor, Tack Spreader	W39.21 B38.05 T77.26
Euclid-type vehicles (large, off-road equipment)	W39.31 B38.05 T77.36
Helper on Asphalt Distributor truck	W39.21 B38.05 T77.26
Slurry Seal, Seeding/Fertilizing/ Mulching truck	W39.21 B38.05 T77.26
Straight 3-axle truck	W39.21 B38.05 T77.26
Tractor Trailer (all types)	W39.31 B38.05 T77.36
Vacuum or Vac-All truck (entire unit)	W39.21 B38.05 T77.26
Winch Trailer	W39.41 B38.05 T77.46

Craft: Truck Driver COMMENTS/NOTES

### BLENDED RATE:

When a truck driver is performing work on the site and also serving as a material delivery driver, the driver shall be paid a "blended rate" which shall be 80% of the above-listed wage rates, plus the full benefit rate. This rate shall be used when the driver "round robins" for a minimum of 6 hours during the work day.

### HAZARDOUS WASTE REMOVAL:

- On hazardous waste removal work on a State designated hazardous waste site where the driver is in direct contact with hazardous materials and when personal protective equipment is required for respiratory, skin, and eye protection, the driver shall receive an additional \$3.00 per hour (with or without protective gear).
- A hazardous waste related certified worker at a designated hazardous waste site who is not working in a zone requiring level A, B or C personal protection shall receive an additional \$1.00 per hour.

TRUCK FOREMAN: \$.75 cents per hour above regular rate. Overtime shall be increased accordingly.

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County - UNION

The regular workday shall be 8 hours, starting between 6:00 AM and 8:00 AM.

## SHIFT DIFFERENTIAL:

- Shifts starting at 4:00 PM (2nd Shift): + \$3.00 per hour.
- Shifts starting at 12:00 AM (midnight/3rd Shift): time and one-half the hourly rate.
- Shifts starting at a time other than from 6:00 AM to 8:00 AM, when such hours are mandated by the project owner: + \$3.00 per hour.

### **OVERTIME:**

- Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, that are not shift work, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Employees may work four 10-hour days at straight time, Monday through Thursday, with Friday used as a make-up day for a lost day. If Friday is not a make-up day, then all hours on Friday shall be paid at time and one-half the hourly rate.
- -Benefits on overtime shall be \$36.80.

As of 5-1-20, benefits on overtime shall be \$37.80.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day (Decoration Day), July 4th, Labor Day, Presidential Election Day, Veteran's Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday. The day after Thanksgiving may be substituted for Veteran's Day.

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County - UNION

## Craft: Truck Driver-Material Delivery Driver

#### PREVAILING WAGE RATE

	04/01/20
Driver	W25.60
	B15.71
	T41.31

## Craft: Truck Driver-Material Delivery Driver COMMENTS/NOTES

#### **BLENDED RATE:**

When a truck driver is performing work on the site and also serving as a material delivery driver, the driver shall be paid a "blended rate". See the "Truck Driver" craft for the blended rates.

Truck Foreman/Shop Steward: +\$0.25 per hour

#### SHIFT DIFFERENTIALS:

- 2nd Shift shall receive an additional \$0.50 per hour
- 3rd Shift shall receive time and one-half the hourly rate.

## **OVERTIME:**

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

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day (Decoration Day), July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday. The day after Thanksgiving may be substituted for Veterans' Day.

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

**County - UNION** 

Craft:	Welder	PREVAILING WAGE RATE
	Welder	
Craft:	Welder	COMMENTS/NOTES
Welder	s rate is the same as the	e craft to which the welding is incidental.

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# STATEWIDE RATES

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

#### **OPERATING ENGINEERS** Rates Expiration Date:

{For apprentice rates refer to "Operating Engineers" apprentice rates in any county rate package}

The regular workday consists of 8 hours, Monday to Friday, between 6:00 AM and 4:30 PM.

### SHIFT DIFFERENTIALS:

- Shift work must run for 5 consecutive workdays.
- When 2 shifts are worked, the second shift shall receive an additional 10% of the regular rate inclusive of benefits, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, plus an additional 10% of the regular rate inclusive of benefits, per hour. The third shift shall receive 8 hours pay for 7 hours of work, plus an additional 15% of the regular rate inclusive of benefits, per hour.
- When such hours are mandated by the project owner, a shift that starts between 8:00 PM and midnight and ends by 6:00 AM Saturday, or that starts after 8:00 PM on Sunday, provided there are consecutive hours of work within the shift, shall receive an additional 15% of the regular rate, inclusive of benefits.
- On Highway, Road, Street, and Sewer projects irregular shifts starting between 5:00 PM and 12:00 AM may be worked Monday through Friday, and shall receive an additional 15% of the regular rate, inclusive of benefits. When working with other trades that receive a higher irregular shift rate, the Operating Engineer shall also receive the higher irregular shift rate.

#### **OVERTIME:**

- Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, that are not shift work, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with all hours on Friday paid at time and one-half the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. When all trades on a particular job site agree, the day after Thanksgiving may be substituted for Veteran's Day.

On hazardous waste removal work or asbestos removal work, on a state or federally designated hazardous waste site, where the operating engineer is in direct contact with hazardous material and when personal protective equipment is required for respiratory, skin, and eye protection, the operating engineer shall receive an additional 20% of the hourly wage, per hour.

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

# ENTIRE STATE

# OPERATING ENGINEERS Rates Expiration Date :

# **Effective Dates:**

Hydro-Blaster

07/01/2020			07/01/2021	07/01/2022
Rate	Fringe	Total	Total	Total
53.23	34.50	87.73	90.03	92.28

53.23	34.50	87.73	90.03	92.28	
CLASSIFICA	TIONS:				
A-Frame					
Backhoe (con	nbination)				
Boom Attachi	ment on loaders	s (Except pipehoc	ok)		
Boring & Dri	lling Machine				
Brush Choppe	er, Brush Shred	der, Tree Shredde	er, Tree Shearer		
Bulldozer, fin	ish grade				
Cableway					
Carryall					
Concrete Pum	np				
Concrete Pum	nping System (l	Pumpcrete & sim	ilar types)		
Conveyor, 12	5 feet or longer				
Drill Doctor (	Duties include	dust collector and	d maintenance)		
Front End Lo	ader (2 cu. yds.	but less than 5 cu	u. yds.)		
Grader, finish	ı				
Groove Cuttin	ng Machine (ric	le-on type)			
Heater Planer					
hydraulic, si snorkle roof	ngle and double, and other simi	e drum, concrete, llar types, Except	es including steam, gas, diesel, brick shaft caisson, Chicago-boom type) * receive 00 ft. and over total height.	electric, air s an addtional \$1.00 per hour on 100 ft. up to 199	) ft. total
Hydraulic Cra	ane (10 tons &	under)			
Hydraulic Dro	edge				
Hydro-Axe					

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

# ENTIRE STATE

# **OPERATING ENGINEERS** Rates Expiration Date:

### **Effective Dates:**

07/01/2020			07/01/2021	07/01/2022
Rate	Fringe	Total	Total	Total
53.23	34.50	87.73	90.03	92.28

### **CLASSIFICATIONS:**

Jack (screw, air hydraulic, power-operated unit, or console type, Except hand jack or pile load test type)

Log Skidder

Pan

Paver, concrete

Plate & Frame Filter Press

Pumpcrete (unit type)

Pumperete, Squeezecrete, or Concrete Pumping machine (regardless of size)

Scraper

Side Boom

Straddle Carrier (Ross and similar types)

Whiphammer

Winch Truck (hoisting)

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

# OPERATING ENGINEERS Rates Expiration Date :

#### **Effective Dates:**

07/01/2020			07/01/2021	07/01/2022
Rate	Fringe	Total	Total	Total
51.32	34.50	85.82	88.12	90.37

#### **CLASSIFICATIONS:**

Asphalt Curbing Machine

Asphalt Plant Engineer

Asphalt Spreader

Autograde Curb Trimmer & Sidewalk Shoulder Slipform (CMI & similar types)

Autograde Curecrete Machine (CMI & similar types)

Autograde Tube Finisher & Texturing Machine (CMI & similar types)

Bar Bending Machines (Power)

Batcher, Batching Plant, & Crusher [On Site]

Belt Conveyor System

Boom-Type Skimmer Machine

Bridge Deck Finisher

Bulldozer (all sizes)

Captain (Power Boats)

Car Dumper (railroad)

Compressor & Blower unit for loading/unloading of concrete, cement, fly ash, or similar type materials (used independently or truck-mounted)

Compressor (2 or 3 battery)

Concrete Breaking Machine

Concrete Cleaning/Decontamination Machine

Concrete Finishing Machine

Concrete Saw or Cutter (ride-on type)

Concrete Spreader (Hetzel, Rexomatic & similar types)

Concrete Vibrator

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

# ENTIRE STATE

# OPERATING ENGINEERS Rates Expiration Date :

Hopper Doors (power operated)

Ladder (motorized)

Effective Da	ites:			
	07/01/202	0	07/01/2021	07/01/2022
Rate	Fringe	Total	Total	Total
51.32	34.50	85.82	88.12	90.37
CLASSIFIC	CATIONS:			
Conveyors	- under 125 feet			
Crane Signa	alman			
Crushing M	<b>f</b> achine			
Directional	Boring Machine	e		
Ditching M	achine - Small (	Ditchwitch, Vermee	er or similar types)	
Dope Pot -	Mechanical (with	th or without pump)	)	
Dumpster				
Elevator				
Fireman				
Fork Lift (E	Economobile, Lu	all & similar types)		
Front End I	Loader (1 cu. yd	and over but less t	han 2 cu. yds.)	
Generator (	2 or 3 battery)			
Giraffe Gri	nder			
Goldhofer/I	Hydraulic Jackir	ng Trailer		
Grader & N	Motor Patrols			
Grout Pump	p			
Gunnite Ma	achine (Excludir	ng nozzle)		
Hammer - V	Vibratory (in cor	njunction with gener	rator)	
Heavy Equi	ipment Robotics	- Operator/Technic	cian	
Hoist (roof,	tugger, aerial p	latform hoist, house	e car)	
Hopper				

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

# ENTIRE STATE

# OPERATING ENGINEERS Rates Expiration Date :

# **Effective Dates:**

Tractor

Transfer Machines

	07/01/202	0	07/01/2021	07/01/2022	
Rate	Fringe	Total	Total	Total	
51.32	34.50	85.82	88.12	90.37	
CLASSIFIC	ATIONS:				
Laddervator					
Locomotive	(Dinky-type)				
Maintenance	Utility Man				
Master Envi	ronmental Mai	ntenance Technici	an		
Mechanic					
Mixer (Exce	pt paving mixe	ers)			
Pavement Br		nounted or small so	elf-propelled		
Pavement B	reaker - mainte	enance of compress	sor or hydraulic unit		
Pipe Bendin	g Machine (po	wer)			
Pitch Pump					
Plaster Pump	o (regardless o	f size)			
Post Hole D	igger (post pou	inder, auger)			
Rod Bending	g Machines				
Roller (black	( top)				
Scale (power	r)				
Seamen Pulv	Seamen Pulverizing Mixer				
Shoulder Widener					
Silo					
Skimmmer M	Machine (boon	ı type)			
Steel Cutting	g Machine (ser	vice & maintenanc	ee)		
Tamrock Dri	111				

07/01/2020

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

# ENTIRE STATE

## **OPERATING ENGINEERS** Rates Expiration Date:

#### **Effective Dates:**

07/01/2020			07/01/2021	07/01/2022
Rate	Fringe	Total	Total	Total
51.32	34.50	85.82	88.12	90.37

# **CLASSIFICATIONS:**

Tug Captains

Tug Master (Power Boats)

Ultra High Pressure Waterjet Cutting Tool System - Operator/Maintenance Technician

Vacuum Blasting Machine - Operator/Maintenance Technician

Vibrating Plant (used with unloading)

Welder & Repair Mechanic

### **Effective Dates:**

07/01/2020			07/01/2021	07/01/2022
Rate	Fringe	Total	Total	Total
47.98	34.50	82.48	84.78	87.03

# **CLASSIFICATIONS:**

Assistant Engineer/Oiler

Driller's Helper

Field Engineer - Transit man or Instrument man

Maintenance Apprentice (Deckhand)

Maintenance Apprentice (Oiler)

Mechanic's Helper

Off Road Back Dump

Tire Repair & Maintenance

#### **Effective Dates:**

07/01/2020			07/01/2021	07/01/2022
Rate	Fringe	Total	Total	Total
45.40	34.50	79.90	82.20	84.45

#### **CLASSIFICATIONS:**

Field Engineer - Rodman or Chainman

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

ENTIRE STATE

# OPERATING ENGINEERS Rates Expiration Date :

# **Effective Dates:**

07/01/2020			07/01/2021	07/01/2022
Rate	Fringe	Total	Total	Total
55.56	34.50	90.06	92.36	94.61

# **CLASSIFICATIONS:**

Lead Engineer, Foreman Engineer, Safety Engineer (minimum)

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

# ENTIRE STATE

## **OPERATING ENGINEERS** Rates Expiration Date:

#### **Effective Dates:**

07/01/2020			07/01/2021	07/01/2022
Rate	Fringe	Total	Total	Total
54.82	34.50	89.32	91.62	93.87

### **CLASSIFICATIONS:**

Autograde Pavement Profiler (CMI & similar types)
Autograde Pavement Profiler - Recycle Type (CMI & similar types)
Autograde Placer/Trimmer/Spreader Combination (CMI & similar types)

Autograde Slipform Paver (CMI & similar types)

Backhoe (Excavator)

Central Power Plant

Concrete Paving Machine

Cranes, Derricks, Pile Drivers (all types), under 100 tons with a boom (including jib and/or leads) under 100 ft.

Draglines

Drill, Bauer, AMI and similar types

Drillmaster, Quarrymaster

Drillmaster/Quarrymaster (down-the-hole drill), rotary drill, self-propelled hydraulic drill, self-powered drill

Elevator Grader

Field Engineer-Chief of Party

Front End Loader (5 cu. yards or larger)

Gradall

Grader, Rago

Helicoptor Co-Pilot

Helicoptor Communications Engineer

Juntann Pile Driver

Locomotive (large)

Mucking Machine

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

# ENTIRE STATE

# OPERATING ENGINEERS Rates Expiration Date :

### **Effective Dates:**

07/01/2020			07/01/2021	07/01/2022
Rate	Fringe	Total	Total	Total
54.82	34.50	89.32	91.62	93.87

# **CLASSIFICATIONS:**

Pile Driver

Prentice Truck

Roadway Surface Grinder

Scooper (loader & shovel)

Shovel (Excavator)

Trackhoe (Excavator)

Tree Chopper with boom

Trenching Machine (cable plow)

Tunnel Boring Machine

Vacuum Truck

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

# ENTIRE STATE

## **OPERATING ENGINEERS** Rates Expiration Date:

#### **Effective Dates:**

07/01/2020			07/01/2021	07/01/2022
Rate	Fringe	Total	Total	Total
49.69	34.50	84.19	86.49	88.74
CLASSIFIC	CATIONS:			
Chipper				

Compressor (single)

Concrete Spreader (small type)

Conveyor Loader (Except elevator graders)

Engines, Large Diesel (1620 HP) & Staging Pump

Farm Tractor

Fertilizing Equipment (operation & maintenance)

Fine Grade Machine (small type)

Form Line Grader (small type)

Front End Loader (under 1 cubic yard)

Generator (single)

Grease, Gas, Fuel, & Oil Supply Trucks

Heaters (Nelson or other type)

Lights - portable generating light plant

Mixer, Concrete (small)

Mulching Equipment (operation & maintenance)

Power Broom or Sweeper

Pump (diesel engine & hydraulic - regardless of power)

Pump (larger than 2 inch suction, including submersible pumps)

Road Finishing Machine (small type)

Roller - grade, fill, or stone base

Seeding Equipment (operation & maintenance)

Sprinkler & Water Pump Trucks

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

# ENTIRE STATE

## **OPERATING ENGINEERS** Rates Expiration Date:

#### **Effective Dates:**

07/01/2020			07/01/2021	07/01/2022
Rate	Fringe	Total	Total	Total
49.69	34.50	84.19	86.49	88.74

#### **CLASSIFICATIONS:**

Steam Generator or Boiler

Stone Spreader

Tamping Machine (vibrating ride-on type)

Temporary Heating Plant (Nelson or other type, including proprane, natural gas, and flow-type units)

Water or Sprinkler Truck

Welding Machine (gas, diesel, or electric convertor, of any type)

Welding System - Multiple (rectifier transformer type)

Wellpoint Systems (including installation by bull gang and maintenance)

## **Effective Dates:**

07/01/2020			07/01/2021	07/01/2022
Rate	Fringe	Total	Total	Total
56.64	34.50	91.14	93.44	95.69

## **CLASSIFICATIONS:**

Helicoptor Pilot/Engineer

## **Effective Dates:**

07/01/2020			07/01/2021	07/01/2022
Rate	Fringe	Total	Total	Total
61.32	34.50	95.82	98.12	100.37

### **CLASSIFICATIONS:**

Cranes, Derricks, Pile Driver (all types), 100 tons and over and TOWER CRANE with boom (including jib and/or leads) 140 ft. and over

#### **Effective Dates:**

07/01/2020			07/01/2021	07/01/2022
Rate	Fringe	Total	Total	Total
60.32	34.50	94.82	97.12	99.37

#### **CLASSIFICATIONS:**

Cranes, Derricks, Pile Driver (all types), 100 tons and over and TOWER CRANE with boom (including jib and/or leads) from 100 ft. to 139 ft.

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

### ENTIRE STATE

## **OPERATING ENGINEERS** Rates Expiration Date:

#### **Effective Dates:**

07/01/2020			07/01/2021	07/01/2022
Rate	Fringe	Total	Total	Total
56.82	34.50	91.32	93.62	95.87

# **CLASSIFICATIONS:**

Cranes, Derricks, Pile Driver (all types), under 100 tons with a boom (including jib and/or leads) 140 ft. and over

### **Effective Dates:**

07/01/2020			07/01/2021	07/01/2022
Rate	Fringe	Total	Total	Total
59.32	34.50	93.82	96.12	98.37

# **CLASSIFICATIONS:**

Cranes, Derricks, Pile Driver (all types), 100 tons and over and TOWER CRANE with a boom (including jib and/or leads) under 100 ft.

### **Effective Dates:**

07/01/2020			07/01/2021	07/01/2022
Rate	Fringe	Total	Total	Total
55.82	34.50	90.32	92.62	94.87

### **CLASSIFICATIONS:**

Cranes, Derricks, Pile Driver (all types), under 100 tons with a boom (including jib and/or leads) from 100 ft. to 139 ft.

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

#### STRUCTURAL STEEL ERECTION Rates Expiration Date:

{For apprentice rates refer to "Operating Engineers" apprentice rates in any county rate package}

The regular workday consists of 8 hours, Monday to Friday, between 6:00 AM and 4:30 PM.

#### SHIFT DIFFERENTIALS:

- Shift work must run for 5 consecutive workdays.
- When 2 shifts are worked, the second shift shall receive an additional 10% of the regular rate inclusive of benefits, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, plus an additional 10% of the regular rate inclusive of benefits, per hour. The third shift shall receive 8 hours pay for 7 hours of work, plus an additional 15% of the regular rate inclusive of benefits, per hour.
- When such hours are mandated by the project owner, a shift that starts between 8:00 PM and midnight and ends by 6:00 AM Saturday, or that starts after 8:00 PM on Sunday, provided there are consecutive hours of work within the shift, shall receive an additional 15% of the regular rate, inclusive of benefits.
- On Highway, Road, Street, and Sewer projects irregular shifts starting between 5:00 PM and 12:00 AM may be worked Monday through Friday, and shall receive an additional 15% of the regular rate, inclusive of benefits. When working with other trades that receive a higher irregular shift rate, the Operating Engineer shall also receive the higher irregular shift rate.

#### OVERTIME:

- Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, that are not shift work, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with all hours on Friday paid at time and one-half the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. When all trades on a particular job site agree, the day after Thanksgiving may be substituted for Veteran's Day.

On hazardous waste removal work or asbestos removal work, on a state or federally designated hazardous waste site, where the operating engineer is in direct contact with hazardous material and when personal protective equipment is required for respiratory, skin, and eye protection, the operating engineer shall receive an additional 20% of the hourly wage, per hour.

#### **Effective Dates:**

07/01/2020			07/01/2021	07/01/2022
Rate	Fringe	Total	Total	Total
58.45	34.50	92.95	95.25	97.50

### **CLASSIFICATIONS:**

Helicopter Co-Pilot & Communications Engineer

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

# STRUCTURAL STEEL ERECTION Rates Expiration Date :

### **Effective Dates:**

07/01/2020		07/01/2021	07/01/2022	
Rate	Fringe	Total	Total	Total
54.39	34.50	88.89	91.19	93.44

### **CLASSIFICATIONS:**

A-Frame

Cherry Picker -10 tons or less (Over 10 tons use crane rate)

Hoist (all types Except Chicago-boom)

Jack (screw, air hydraulic, power-operated unit or console type, Except hand jack or pile load test type)

Side Boom

Straddle Carrier

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

# ENTIRE STATE

### STRUCTURAL STEEL ERECTION Rates Expiration Date:

#### **Effective Dates:**

07/01/2020		07/01/2021	07/01/2022	
Rate	Fringe	Total	Total	Total
51.73	34.50	86.23	88.53	90.78

#### **CLASSIFICATIONS:**

Aerial Platform Used On Hoists
Apprentice Engineer/Oiler with Compressor or Welding Machine
Captain (Power Boats)
Compressor (2 or 3 in battery)

Concrete Cleaning/Decontamination Machine Operator

Conveyor or Tugger Hoist

Directional Boring Machine

Elevator or House Car

Fireman

Forklift

Generator (2 or 3)

Heavy Equipment Robotics, Operator/Technician

Maintenance Utility Man

Master Environmental Maintenance Technician

Tug Master (Power Boats)

Ultra High Pressure Waterjet Cutting Tool System Operator/Maintenance Technician

Vacuum Blasting Machine Operator/Maintenance Technician

Welding Machines, Gas or Electric Converters on any type-2 or 3 in battery including diesels

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

# ENTIRE STATE

## STRUCTURAL STEEL ERECTION Rates Expiration Date:

#### **Effective Dates:**

07/01/2020			07/01/2021	07/01/2022
Rate	Fringe	Total	Total	Total
50.20	34.50	84.70	87.00	89.25

# **CLASSIFICATIONS:**

Compressor (Single)

Generators

Welding Machines, Gas, Diesel, Or Electric Converters of any type-single

Welding System, Multiple (Rectifier Transformer Type)

### **Effective Dates:**

07/01/2020		07/01/2021	07/01/2022	
Rate	Fringe	Total	Total	Total
48.44	34.50	82.94	85.24	87.49

# **CLASSIFICATIONS:**

Assistant Engineer/Oiler

Drillers Helper

Field Engineer - Transit/Instrument Man

Maintenance Apprentice (Deckhand)

Maintenance Apprentice (Oiler)

Off Road Back Dump

## **Effective Dates:**

07/01/2020			07/01/2021	07/01/2022
Rate	Fringe	Total	Total	Total
56.01	34.50	90.51	92.81	95.06

## **CLASSIFICATIONS:**

Lead Engineer, Foreman Engineer, Safety Engineer (Minimum)

#### **Effective Dates:**

07/01/2020		07/01/2021	07/01/2022	
Rate	Fringe	Total	Total	Total
45.40	34.50	79.90	82.20	84.45

### **CLASSIFICATIONS:**

Field Engineer - Rodman or Chainman

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

## ENTIRE STATE

#### **STRUCTURAL STEEL ERECTION** Rates Expiration Date:

#### **Effective Dates:**

07/01/2020		07/01/2021	07/01/2022	
Rate	Fringe	Total	Total	Total
55.15	34.50	89.65	91.95	94.20

#### **CLASSIFICATIONS:**

Field Engineer-Chief of Party

Vacuum Truck

#### **Effective Dates:**

07/01/2020			07/01/2021	07/01/2022
Rate	Fringe	Total	Total	Total
63.34	34.50	97.84	100.14	102.39

#### **CLASSIFICATIONS:**

Cranes (all cranes, land or floating with booms, including jib, 140 ft. and over, above ground). Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, 140 ft. and over, above ground), and Pile Drivers (all types) 100 tons and over and Tower Cranes.

#### **Effective Dates:**

07/01/2022	07/01/2021	07/01/2020		
Total	Total	Total	Fringe	Rate
100.73	98.48	96.18	34.50	61.68

#### **CLASSIFICATIONS:**

Cranes (all cranes, land or floating with booms including jib, less than 140 ft. above ground), Derricks (all derricks. land, floating or Chicago Boom type with booms including jib, less than 140 ft. above ground), Pile Drivers (all types), 100 tons and over and Tower Crane.

### **Effective Dates:**

07/01/2020		07/01/2021	07/01/2022	
Rate	Fringe	Total	Total	Total
58.84	34.50	93.34	95.64	97.89

#### **CLASSIFICATIONS:**

Cranes (all cranes, land or floating with booms including jib, 140 ft. and over, above ground), Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, 140 ft. and over, above ground), Pile Drivers (all types), under 100 tons.

### **Effective Dates:**

07/01/2020			07/01/2021	07/01/2022
Rate	Fringe	Total	Total	Total
57.18	34.50	91.68	93.98	96.23

#### **CLASSIFICATIONS:**

Cranes (all cranes, land or floating with booms including jib, less than 140 ft. above ground), Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, less than 140 ft. above ground), Pile Drivers (all types), under 100 tons.

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

# **STRUCTURAL STEEL ERECTION** Rates Expiration Date:

# **Effective Dates:**

07/01/2020			07/01/2021	07/01/2022
Rate	Fringe	Total	Total	Total
58.84	34.50	93.34	95.64	97.89

# **CLASSIFICATIONS:**

Helicopter Pilot & Engineer

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

# TEST BORING PRELIMINARY TO CONSTRUCTION-SOUTH/WEST Rates Expiration Date:

#### THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Hunterdon, Mercer, Monmouth, Ocean, Salem, Sussex, Warren

The regular workday consists of 8 hours, Monday to Friday, between 6:00 AM and 4:30 PM.

#### SHIFT DIFFERENTIALS:

- Shift work must run for 5 consecutive workdays.
- When 2 shifts are worked, the second shift shall receive an additional 10% of the regular rate inclusive of benefits, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, plus an additional 10% of the regular rate inclusive of benefits, per hour. The third shift shall receive 8 hours pay for 7 hours of work, plus an additional 15% of the regular rate inclusive of benefits, per hour.
- When such hours are mandated by the project owner, a shift that starts between 8:00 PM and midnight and ends by 6:00 AM Saturday, or that starts after 8:00 PM on Sunday, provided there are consecutive hours of work within the shift, shall receive an additional 15% of the regular rate, inclusive of benefits.
- On Highway, Road, Street, and Sewer projects irregular shifts starting between 5:00 PM and 12:00 AM may be worked Monday through Friday, and shall receive an additional 15% of the regular rate, inclusive of benefits. When working with other trades that receive a higher irregular shift rate, the Operating Engineer shall also receive the higher irregular shift rate.

#### OVERTIME:

- Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, that are not shift work, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with all hours on Friday paid at time and one-half the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. When all trades on a particular job site agree, the day after Thanksgiving may be substituted for Veteran's Day.

On hazardous waste removal work or asbestos removal work, on a state or federally designated hazardous waste site, where the operating engineer is in direct contact with hazardous material and when personal protective equipment is required for respiratory, skin, and eye protection, the operating engineer shall receive an additional 20% of the hourly wage, per hour.

#### **Effective Dates:**

07/01/2020			07/01/2021	07/01/2022
Rate	Fringe	Total	Total	Total
54.82	34.50	89.32	91.62	93.87

#### **CLASSIFICATIONS:**

Driller

#### **Effective Dates:**

07/01/2020			07/01/2021	07/01/2022
Rate	Fringe	Total	Total	Total
47.98	34.50	82.48	84.78	87.03

#### **CLASSIFICATIONS:**

Driller's Helper

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

#### FREE AIR TUNNEL JOBS Rates Expiration Date:

{For apprentice rates refer to "Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

#### SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$3.00 per hour.

#### **OVERTIME:**

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

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

### Hazardous Waste Work:

- -where Level A, B, or C protection is required: + \$3.00/hr
- -other Hazardous Waste site: + \$1.00/hr

#### **Effective Dates:**

	03/01/2020	,
Rate	Fringe	Total
45.75	32.53	78.28

02/01/2020

### **CLASSIFICATIONS:**

Walking Boss & Superintendent

## **Effective Dates:**

	03/01/2020	
Rate	Fringe	Total
45.45	32.53	77.98

### **CLASSIFICATIONS:**

Heading Foreman, Shaft Foreman, Rod Foreman, Electrician Foreman, Rigging Foreman

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

#### **ENTIRE STATE**

#### FREE AIR TUNNEL JOBS Rates Expiration Date :

#### **Effective Dates:**

### 03/01/2020

Rate	Fringe	Total
44.95	32.53	77.48

#### **CLASSIFICATIONS:**

Iron Foreman, Caulking Foreman, Form Foreman, Cement Finishing Foreman, Concrete Foreman, Track Foreman, Cleanup Foreman, Grout Foreman

#### **Effective Dates:**

### 03/01/2020

Rate	Fringe	Tota	
47.45	32.53	79.98	

#### **CLASSIFICATIONS:**

Blaster

#### **Effective Dates:**

#### 03/01/2020

Rate	Fringe	Total
44.40	32.53	76.93

### **CLASSIFICATIONS:**

Top Labor Foreman

#### **Effective Dates:**

### 03/01/2020

Rate	Fringe	Total
44 05	32 53	76.58

# **CLASSIFICATIONS:**

Skilled Men (including Caulker, Powder Carrier, all other skilled men)

Skilled Men (including Miner, Drill Runner, Iron Man, Conveyor Man, Manitenance Man, Safety Miner, Rigger, Block Layer, Cement Finisher, Tod Man)

#### **Effective Dates:**

#### 03/01/2020

Rate	Fringe	Total
43.90	32.53	76.43

#### **CLASSIFICATIONS:**

Semi-Skilled Men (including Bell or Signal Man Top or Bottom, Form Worker & Mover, Concrete Worker, Shaft Man, Tunnel Laborer, Caulker's Helper, all other semi-skilled)

Semi-Skilled Men (including Miner's Helper, Chuck Tender, Track Man, Nipper, Brake Man, Derail Man, Cable Man, Hose Man, Gravel Man, Form Man)

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

ENTIRE STATE

# FREE AIR TUNNEL JOBS Rates Expiration Date :

**Effective Dates:** 

03/01/2020

Rate Fringe Total 43.50 32.53 76.03

# **CLASSIFICATIONS:**

All Others (including Powder Watchman, Change House Attendant, Top Laborer)

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

### DRILL FOR GROUND WATER SUPPLY Rates Expiration Date:

The well driller and/or helper may perform all work relative to the construction, finishing, and servicing of wells, pumps and borings for ground water supply. The present methods of well drilling entailing as they do, many diverse job operations calling for drilling, pump discharge, piping, and the operation of various types of related power equipment, shall all be within the job duties and functions of the well driller and/or helper. In the event that an extension of work should occur beyond water well drilling functions, into the field of general construction work, such extension of work would come under the appropriate rates listed elsewhere in this wage determination.

- For Work Hours, Shift Differentials, Overtime Rates, and Recognized Holidays see the "Operating Engineers" section of this wage determination.

#### **Effective Dates:**

07/01/2020		07/01/2021	07/01/2022	
Rate	Fringe	Total	Total	Total
53.57	34.50	88.07	90.37	92.62

#### **CLASSIFICATIONS:**

Driller

#### **Effective Dates:**

07/01/2020			07/01/2021	07/01/2022
Rate	Fringe	Total	Total	Total
47.33	34.50	81.83	83.53	85.78

#### **CLASSIFICATIONS:**

Driller's Helper

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

#### **ENTIRE STATE**

#### **OPERATING ENGINEERS MARINE-DREDGING** Rates Expiration Date:

NOTE: These wage rates only apply to dredging and other marine construction activities occurring in navigable waters and their tributaries.

Boat crews carrying explosive material (dynamite, pourfex, and other similar materials) shall be paid at 120% of the hourly wage rate for hours engaged in handling of said materials. Employees required to possess a Hazardous Material Certification as a condition of employment shall be compensated at 120% of the hourly wage rate.

### OVERTIME:

Hours in excess of 40 per week, and all hours on Saturdays and Sundays, shall be paid at time and one-half the hourly rate. All hours on holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Martin Luther King Day, Good Friday, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

#### **Effective Dates:**

10/01/2019			10/01/2020
Rate	Fringe	Total	Total
40.31	14.60	54.91	56.71

#### **CLASSIFICATIONS:**

Lead Dredgerman, Operator, Leverman

Licensed Tug Operator (over 1000 HP)

# **Effective Dates:**

10/01/2019			10/01/2020
Rate	Fringe	Total	Total
34.86	14.19	49.05	50.66

### **CLASSIFICATIONS:**

Derrick Operator, Spider/Spill Barge Operator

Engineer, Electrician, Chief Welder, Chief Mate

Fill Placer, Operator II

Licensed Boat Operator

Maintenance Engineer

#### **Effective Dates:**

10/01/2019			10/01/2020
Rate	Fringe	Total	Total
32.82	14.04	46.86	48.39

#### **CLASSIFICATIONS:**

Certified Welder

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

# ENTIRE STATE

# OPERATING ENGINEERS MARINE-DREDGING Rates Expiration Date :

### **Effective Dates:**

10/01/2019			10/01/2020
Rate	Fringe	Total	Total
31.92	13.67	45.59	47.10

# **CLASSIFICATIONS:**

Mate, Drag Barge Operator, Steward, Assistant Fill Placer

Welder

### **Effective Dates:**

10/01/2019			10/01/2020
Rate	Fringe	Total	Total
30.89	13.59	44.48	45.95

### **CLASSIFICATIONS:**

**Boat Operator** 

#### **Effective Dates:**

10/01/2019			10/01/2020
Rate	Fringe	Total	Total
25.66	12.90	38.56	39.85

## **CLASSIFICATIONS:**

Shoreman, Deckhand, Rodman, Scowman

# **Effective Dates:**

10/01/2019			10/01/2020
Rate	Fringe	Total	Total
35.92	14.27	50.19	51.84

# **CLASSIFICATIONS:**

Crane Operator

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

ENTIRE STATE

# MICROSURFACING/SLURRY SEAL Rates Expiration Date :

# THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Mercer, Ocean, Salem

\*\*\*IN ALL OTHER COUNTIES use the Heavy and General Laborers - North "Slurry Seal Laborer" rates.\*\*\*

#### SHIFT DIFFERENTIALS:

Any shift starting at 3:30 PM or later shall receive an additional \$0.35/hr

#### **OVERTIME:**

Hours in excess of 8 per day or 40 per week shall be paid at time and one-half the hourly rate. All hours on holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Washington's Birthday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

#### **Effective Dates:**

03/01/	2017
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Rate	Fringe	Total
36.50	21.27	57.77

#### **CLASSIFICATIONS:**

Foreman

#### **Effective Dates:**

#### 03/01/2017

Rate	Fringe	Total
33.80	21.27	55.07

#### **CLASSIFICATIONS:**

Box man

#### **Effective Dates:**

Rate	Fringe	Total
31.75	21.27	53.02

#### **CLASSIFICATIONS:**

Microsurface/Slurry Preparation

## **Effective Dates:**

## 03/01/2017

Rate	Fringe	Total	
31.75	21.27	53.02	

### **CLASSIFICATIONS:**

Squeegee man

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

ENTIRE STATE

# MICROSURFACING/SLURRY SEAL Rates Expiration Date :

**Effective Dates:** 

03/01/2017

 Rate
 Fringe
 Total

 30.30
 21.27
 51.57

# **CLASSIFICATIONS:**

Cleaner, Taper

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

ENTIRE STATE

#### ASPHALT LABORERS - SOUTH Rates Expiration Date :

"THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY: Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Mercer, Ocean, Salem

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

#### SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$3.00 per hour.

#### **OVERTIME:**

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

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

#### Hazardous Waste Work:

-where Level A, B, or C protection is required: + \$3.00/hr

-other Hazardous Waste site: + \$1.00/hr

## **Effective Dates:**

03/01/2020	03	/01	/20	020
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Rate	Fringe	Total
45.25	32.53	77.78

#### **CLASSIFICATIONS:**

Paving Foreman

## **Effective Dates:**

Rate	Fringe	Total
43.80	32.53	76.33

#### **CLASSIFICATIONS:**

Head Raker

#### **Effective Dates:**

03	/01	/20	020

Rate	Fringe	Total
43.65	32.53	76.18

### **CLASSIFICATIONS:**

Raker, Screedman, Luteman

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

# ENTIRE STATE

# ASPHALT LABORERS - SOUTH Rates Expiration Date :

### **Effective Dates:**

03/01/2020

Rate Fringe Total 43.40 32.53 75.93

# **CLASSIFICATIONS:**

Tampers, Smoothers, Kettlemen, Painters, Shovelers, Roller Boys

### **Effective Dates:**

03/01/2020

Rate Fringe Total 43.50 32.53 76.03

### **CLASSIFICATIONS:**

Milling Controller

# **Effective Dates:**

03/01/2020

Rate Fringe Total 43.70 32.53 76.23

# **CLASSIFICATIONS:**

Traffic Control Coordinator

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

# ENTIRE STATE

#### TEST BORING PRELIMINARY TO CONSTRUCTION-NORTH Rates Expiration Date:

# THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Bergen, Essex, Hudson, Middlesex, Morris, Passaic, Somerset, Union

### SHIFT DIFFERENTIAL:

Employees on a shift other than between the hours of 8:00 AM and 5:00 PM shall receive an additional \$2.00 per hour.

#### **OVERTIME:**

Hours in excess of 8 per day, Monday through Friday, and all hours on Saturday shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.

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

Hazardous Waste Pay (for Levels A, B, and C): an additional 15% of the hourly rate, per hour.

A newly hired Helper with no experience in the industry shall be paid as follows:

1st year on the job - 70% of Helper wage rate

2nd year on the job - 80% of Helper wage rate

3rd year on the job - 90% of Helper wage rate

All helpers receive full fringe benefit rate.

#### **Effective Dates:**

	10/18/201	9	10/18/2020	10/18/2021	10/18/2022
Rate	Fringe	Total	Total	Total	Total
32.62	28.05	60.67	62.42	64.17	65.92

#### **CLASSIFICATIONS:**

Helper (4th year helper)

#### **Effective Dates:**

	10/18/201	9	10/18/2020	10/18/2021	10/18/2022
Rate	Fringe	Total	Total	Total	Total
41.19	28.05	69.24	71.24	73.24	75.24

### **CLASSIFICATIONS:**

Driller

# **Effective Dates:**

	10/18/201	9	10/18/2020	10/18/2021	10/18/2022
Rate	Fringe	Total	Total	Total	Total
47.23	28.05	75.28	77.28	79.28	81.28

#### **CLASSIFICATIONS:**

Foreman

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

**ENTIRE STATE** 

#### HEAVY & GENERAL LABORERS - NORTH Rates Expiration Date :

#### THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Bergen, Essex, Hudson, Hunterdon, Middlesex, Monmouth, Morris, Passaic, Somerset, Sussex, Union, Warren

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

#### SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$3.00 per hour.

#### OVERTIME:

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

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

# Hazardous Waste Work:

- -where Level A, B, or C protection is required: + \$3.00/hr
- -other Hazardous Waste site: + \$1.00/hr

#### **Effective Dates:**

03/01/2020

Rate Fringe		Total
43 00	32 53	75 53

#### **CLASSIFICATIONS:**

#### "D" Rate:

basic, landscape, asphalt, slurry seal, or railroad track laborer; utility meter installer; flagman; salamander tender; pitman; dumpman; rakers or tampers on cold patch work; wrappers or coaters of pipe; waterproofer; timberman; wagon drill or drill master helper; powder carrier; magazine tender; signal man; power buggy operator; tree cutter; operator of basic power tools

#### **Effective Dates:**

## 03/01/2020

Rate	Fringe	Total
43.70	32.53	76.23

## **CLASSIFICATIONS:**

#### "C" Rate

pipe layer; laser man; conduit or duct line layer; operator of jack hammer, chipping hammer, pavement breaker, concrete cutter, asphalt cutter, sheet hammer, or walk-behind saw cutter; sandblaster; acetylene cutting or burning; wagon drill, directional drill, or hydraulic drill operator; drill master; core driller; traffic control coordinator; asphalt raker or lute man

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

# ENTIRE STATE

### HEAVY & GENERAL LABORERS - NORTH Rates Expiration Date :

#### **Effective Dates:**

Rate	Fringe	Total
43.95	32.53	76.48

### **CLASSIFICATIONS:**

"B" Rate:

concrete finisher; setter of brick or stone pavers; stone cutter; form setter; manhole, catch basin, or inlet builder; asphalt screedman; rammer; hardscaping; gunite nozzle man

### **Effective Dates:**

### 03/01/2020

Rate	Fringe	Total
47.50	32.53	80.03

#### **CLASSIFICATIONS:**

"A" Rate:

blaster

## **Effective Dates:**

### 03/01/2020

Rate	Fringe	Total
45.25	32.53	77.78

# **CLASSIFICATIONS:**

"FOREMAN" Rate:

labor foreman, asphalt foreman, drill foreman, pipe foreman, grade foreman, finisher foreman, concrete foreman

## **Effective Dates:**

# 03/01/2020

Rate	Fringe	Total
46.25	32.53	78.78

# **CLASSIFICATIONS:**

"GENERAL FOREMAN" Rate

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

**ENTIRE STATE** 

#### **HEAVY & GENERAL LABORERS - SOUTH** Rates Expiration Date:

#### THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Mercer, Ocean, Salem

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

#### SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$3.00 per hour.

#### OVERTIME:

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

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

## Hazardous Waste Work:

- -where Level A, B, or C protection is required: + \$3.00/hr
- -other Hazardous Waste site: + \$1.00/hr

#### **Effective Dates:**

	05/01/2020	
Rate	Fringe	Total
43.00	32.53	75.53

03/01/2020

#### **CLASSIFICATIONS:**

basic, landscape, or railroad track laborer; utility meter installer; flagman; salamander tender; pitman; dumpman; rakers or tampers on cold patch work; wrappers or coaters of pipe; waterproofers; tree cutter, timberman

#### **Effective Dates:**

### 03/01/2020

Rate	Fringe	Total
43.00	32 53	75 53

#### **CLASSIFICATIONS:**

wagon drill or drill master helper; powder carrier; magazine tender; signal man

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

#### ENTIRE STATE

# HEAVY & GENERAL LABORERS - SOUTH Rates Expiration Date :

#### **Effective Dates:**

#### 03/01/2020

Rate	Fringe	Total
43.70	32.53	76.23

#### **CLASSIFICATIONS:**

pipe layer; laser man; conduit or duct line layer; operator of jack hammer, chipping hammer, pavement breaker, concrete cutter, asphalt cutter, sheet hammer, or walk-behind saw cutter; sandblaster; acetylene cutting or burning

#### **Effective Dates:**

# 03/01/2020

Rate	Fringe	Total
43.70	32.53	76.23

#### **CLASSIFICATIONS:**

wagon or directional drill operator; drill master

#### **Effective Dates:**

#### 03/01/2020

Rate	Fringe	Total
47.50	32.53	80.03

#### **CLASSIFICATIONS:**

blaster

#### **Effective Dates:**

# 03/01/2020

Rate	Fringe	Total
45 25	32 53	77 78

# **CLASSIFICATIONS:**

labor foreman, drill foreman, pipe foreman, grade foreman, finisher foreman, concrete foreman

#### **Effective Dates:**

#### 03/01/2020

Rate	Fringe	Total
46.25	32.53	78.78

#### **CLASSIFICATIONS:**

general foreman

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

ENTIRE STATE

# HEAVY & GENERAL LABORERS - SOUTH Rates Expiration Date :

# **Effective Dates:**

03/01/2020

Rate Fringe Total 43.95 32.53 76.48

# **CLASSIFICATIONS:**

concrete finisher; setter of brick or stone pavers; stone cutter; form setter; manhole, catch basin, or inlet builder; rammer; gunite nozzle man

# TERRITORY ENTIRE STATE

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

PIPELINE - MAINLINE TRANSMISSION

#### Rates Expiration Date:

These rates apply to the following: welding on Transportation Mainline pipe lines (cross-country pipe lines, or any segments thereof, transporting coal, gas, oil, water or other transportable materials, vapors or liquids, including portions of such pipe lines within private property boundaries up to the final metering station or connection - the point where a valve, consumer connection, or town border station divides mainline transmission lines or higher pressure lateral and branch lines from lower pressure distribution systems).

#### PER DIEM PAYMENT:

In addition to the total wage rate paid for each craft, the following per diem (per day) amounts must also be paid - Pipeline Journeyman: \$80.50; Pipeline Journeyman Welder: \$140.50; and Pipeline Helper: \$64.50. Note: in order to receive the per diem payment an employee must work a minimum of 8 hours in a 24 hour period.

#### NOTES:

- Journeymen employed as "stringer bead" welders and journeymen who are regularly employed as "hot-pass" welders shall receive \$1.00 per hour more than other journeymen.
- Welders running "stringer bead" or "hot-pass" on "cutouts" or "tie-ins" on a production basis shall be paid \$1.00 per hour above the journeymen rate.
- Whenever a welder helper is employed using a power buffer or power grinder immediately behind the stringer bead and/or hot-pass welders, and the pipe gang is set on a production basis, the helper shall be paid \$2.00 per hour above the helper rate.
- If back welding is performed inside a pipe under either or both of the following conditions, the welder engaged in the welding will receive \$3.00 per hour above the regular rate for the job only for the days on which such back welding is performed:
  - The employer elects, as a regular procedure, to back weld each line-up. This condition is not intended to apply to occasional back welding performed by the pipe gang to repair a bead, to rectify a "high-lo" condition or wall thickness, etc.
  - A welder is required to back weld a completed weld behind the firing line.
- If the welder helper is required to go inside the pipe for the purpose of brushing, buffing and grinding the weld, they shall receive a wage rate \$1.00 per hour above the regular

helper rate for the days involved.

- Welders working on "hot work" shall be paid \$2.00 per hour above the regular rate for each day engaged in such work. "Hot work' is defined as work on lines in service where there is the danger of fire or explosion.

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

#### OVERTIME:

Hours in excess of 8 per day, and all hours on Sundays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, July 4th, Labor Day, Thanksgiving Day, and Christmas Day. Sunday holidays observed the following Monday.

#### **Effective Dates:**

	j	
Rate	Fringe	Total
54.58	32.80	87.38

0.000/2020

#### **CLASSIFICATIONS:**

Pipeline Journeyman Welder

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

ENTIRE STATE

# PIPELINE - MAINLINE TRANSMISSION Rates Expiration Date :

#### **Effective Dates:**

06/09/2020

 Rate
 Fringe
 Total

 54.58
 32.80
 87.38

# **CLASSIFICATIONS:**

Pipeline Journeyman

# **Effective Dates:**

06/09/2020

Rate Fringe Total 33.27 22.42 55.69

# **CLASSIFICATIONS:**

Pipeline Helper

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

**ENTIRE STATE** 

#### PIPELINE - GAS DISTRIBUTION Rates Expiration Date :

These rates apply to the following: welding on gas line distribution systems (that portion of the gas distribution system placed in streets, roads, subways, tunnels, viaducts, highways and easements which serves the users of gas).

#### SHIFT DIFFERENTIALS:

An "irregular" shift may start any time from 5:00 PM to 12:00 AM, Monday through Friday, and shall receive an additional 15% of the regular rate per hour, inclusive of benefits.

#### OVERTIME:

Hours in excess of forty per week, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

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

#### **Effective Dates:**

#### 11/08/2019

Rate	Fringe	Total
60.00	26.23	86.23

#### **CLASSIFICATIONS:**

Pipeline Journeyman Welder

#### **Effective Dates:**

# 11/08/2019

Rate	Fringe	Total
60.00	26.23	86.23

#### **CLASSIFICATIONS:**

Pipeline Journeyman

#### **Effective Dates:**

# 11/08/2019

Rate	Fringe	Total
38.46	19.21	57.67

#### **CLASSIFICATIONS:**

Pipeline Helper

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

**ENTIRE STATE** 

#### ASPHALT LABORERS- NORTH Rates Expiration Date:

#### THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Bergen, Essex, Hudson, Hunterdon, Middlesex, Monmouth, Morris, Passaic, Somerset, Sussex, Union, Warren {For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package} The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

#### SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$3.00 per hour.

#### **OVERTIME:**

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

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

#### Hazardous Waste Work:

-where Level A, B, or C protection is required: + \$3.00/hr

-other Hazardous Waste site: + \$1.00/hr

#### **Effective Dates:**

03/01/2020	03/	01	/20	20
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Rate	Fringe	Total
45.25	32.53	77.78

#### **CLASSIFICATIONS:**

Asphalt Foreman

#### **Effective Dates:**

03/01	/2020
03/01	12020

Rate	Fringe	Total
43.95	32.53	76.48

# **CLASSIFICATIONS:**

Asphalt Screedman

#### **Effective Dates:**

03/	01.	/2(	20

Rate	Fringe	Total
43.70	32.53	76.23

#### **CLASSIFICATIONS:**

Asphalt Raker or Lute Man

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

ENTIRE STATE

# ASPHALT LABORERS- NORTH Rates Expiration Date :

**Effective Dates:** 

03/01/2020

Rate Fringe Total 43.00 32.53 75.53

# **CLASSIFICATIONS:**

Asphalt Laborer

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

ENTIRE STATE

#### **ELECTRICIAN- UTILITY WORK (NORTH)** Rates Expiration Date:

Electrician-Utility Work (North)

(For apprentice rates refer to Electrician-Utility Work (North) in any county rate package).

These rates apply to work contracted for by the following utility companies:

Public Service Electric & Gas Co. of NJ, GPU Energy, Borough of Madison Electric Department, Sussex Rural

Electric Cooperative, Rockland Utilities, and Butler Municipal Electric Co.

These rates do not apply to work on substations or switching stations.

For Utility work contracted for by a utility company other than those listed above or those listed under "Electrician-

Utility Work (South), see the "Outside Commercial Rates" for the county in which the jobsite is located.

#### \* FOR OUTSIDE COMMERCIAL RATES PLEASE SEE COUNTY RATES

The regular workday is 8 hours, between 6:00 AM and 6:00 PM.

FOR EMERGENCY WORK ONLY: (emergency work is defined as work caused by storm, catastrophe, act of god, and circumstances beyond the control of the employer)-all hours of work shall be paid at double the hourly rate.

#### SHIFT DIFFERENTIALS:

Shift work must run for a minimum of 5 consecutive workdays.

2nd shift (between the hours of 4:30 PM and 1:00 AM): 8 hours of work + 17.3% of the regular rate, inclusive of benefits.

3rd shift (between the hours of 12:30 AM and 9:00 AM): 8 hours of work + 31.4% of the regular rate per hour, inclusive of benefits.

#### OVERTIME:

Hours in excess of 8 per day, or before or after the regular wokday Monday through Friday, that is not shift work, and all hours on Saturday shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the hourly rate, inclusive of benefits.

Four 10-hour days may worked, at straight time, between 7:00 AM and 6:30 PM, Monday through Thursday.

# RECOGNIZED HOLIDAYS:

New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day and Christmas Day, or day on which they are legally observed.

#### **Effective Dates:**

12/30/2019		11/29/2020	
Rate Fringe Total		Total	
55.89	38.56	94.45	96.84

#### **CLASSIFICATIONS:**

Chief Lineman

# **Effective Dates:**

12/30/2019		11/29/2020	
Rate	Fringe	Total	Total
52.73	36.38	89.11	91.36

# **CLASSIFICATIONS:**

Journeyman Lineman

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

# ENTIRE STATE

# ELECTRICIAN- UTILITY WORK (NORTH) Rates Expiration Date :

#### **Effective Dates:**

12/30/2019			11/29/2020
Rate	Fringe	Total	Total
52.73	36.38	89.11	91.36

# **CLASSIFICATIONS:**

Special License Operator

#### **Effective Dates:**

12/30/2019		11/29/2020	
Rate	Fringe	Total	Total
52.20	36.02	88.22	90.44

# **CLASSIFICATIONS:**

Transit Man

#### **Effective Dates:**

12/30/2019		11/29/2020	
Rate	Fringe	Total	Total
50.62	34.91	85.53	87.70

#### **CLASSIFICATIONS:**

Line Equipment Operator

#### **Effective Dates:**

12/30/2019		11/29/2020	
Rate	Fringe	Total	Total
44.29	30.55	74.84	76.73

#### **CLASSIFICATIONS:**

Dynamite Man

# **Effective Dates:**

12/30/2019			11/29/2020
Rate	Fringe	Total	Total
65.91	45.47	111.38	114.19

#### **CLASSIFICATIONS:**

General Foreman

#### **Effective Dates:**

12/30/2019		11/29/2020	
Rate	Fringe	Total	Total
60.64	41.83	102.47	105.05

# **CLASSIFICATIONS:**

Assistant General Foreman

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

# ENTIRE STATE

# ELECTRICIAN- UTILITY WORK (NORTH) Rates Expiration Date :

#### **Effective Dates:**

12/30/2019		11/29/2020	
Rate	Fringe	Total	Total
59.06	40.73	99.79	102.32

#### **CLASSIFICATIONS:**

Line Foreman

#### **Effective Dates:**

12/30/2019			11/29/2020
Rate	Fringe	Total	Total
42.71	29.46	72.17	73.99

# **CLASSIFICATIONS:**

Street Light Mechanical Leader

#### **Effective Dates:**

12/30/2019			11/29/2020
Rate	Fringe	Total	Total
40.60	28.02	68.62	70.34

#### **CLASSIFICATIONS:**

Groundman Winch Operator

# **Effective Dates:**

12/30/2019			11/29/2020
Rate	Fringe	Total	Total
40.60	28.02	68.62	70.34

#### **CLASSIFICATIONS:**

Groundman Truck Operator

# **Effective Dates:**

12/30/2019			11/29/2020
Rate	Fringe	Total	Total
40.07	27.64	67.71	69.43

# **CLASSIFICATIONS:**

Street Light Mechanic

#### **Effective Dates:**

12/30/2019			11/29/2020
Rate	Fringe	Total	Total
40.07	27.64	67.71	69.43

#### **CLASSIFICATIONS:**

Line Equipment Mechanic

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

# ENTIRE STATE

# ELECTRICIAN- UTILITY WORK (NORTH) Rates Expiration Date :

#### **Effective Dates:**

12/30/2019			11/29/2020
Rate	Fringe	Total	Total
34.27	23.64	57.91	59.38

# **CLASSIFICATIONS:**

Groundman 2nd Year

#### **Effective Dates:**

12/30/2019			11/29/2020
Rate	Fringe	Total	Total
31.64	21.83	53.47	54.80

# **CLASSIFICATIONS:**

Groundman 1st Year

#### **Effective Dates:**

12/30/2019			11/29/2020
Rate	Fringe	Total	Total
52.20	36.02	88.22	90.44

#### **CLASSIFICATIONS:**

Line Equipment Foreman

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

**ENTIRE STATE** 

#### **ELECTRICIAN- UTILITY WORK (SOUTH)** Rates Expiration Date:

Electrician-Utility Work (South)

(For apprentice rates refer to Electrician-Utility Work (South) in any county rate package).

These rates apply to work contracted for by the following utility company:

Atlantic City Electric.

These rates do not apply to work on substations or switching stations.

For utility work contracted for by a utility company other than the one listed above or those listed under "Electrician-

Utility Work (North), see the "Outside Commercial Rates" for the county in which the jobsite is located.

#### \* FOR OUTSIDE COMMERCIAL RATES PLEASE SEE COUNTY RATES

The regular workday is 8 hours, between 7:00 AM and 4:30 PM.

FOR EMERGENCY WORK ONLY: (emergency work is defined as work caused by storm, catastrophe, act of god, and circumstances beyond the control of the employer)- all hours of work shall be paid at double the hourly rate.

#### SHIFT DIFFERENTIALS:

Shift work must run for a minimum of 5 consecutive workdays.

When two (2) or three (3) shifts are worked the following shall apply:

1st shift (between the hours of 8:00 AM and 4:30 PM)

2nd shift (between the hours of 4:30 PM and 12:30 AM): 8 hours of work + 10% of the regular rate of pay for 7.5 hours worked.

3rd shift (between the hours of 12:30 AM and 8:00 AM): 8 hours of work + 15% of the regular rate of pay for 7 hours worked.

#### OVERTIME:

Hours in excess of 8 per day, or before or after the regular wokday Monday through Friday, that is not shift work, and all hours on Saturday shall be paid at time and one-half the regular rate. All hours on Sundays and Holidays shall be paid double the hourly rate.

Four 10-hour days may be worked, at straight time, between 6:00 AM and 6:00 PM, Monday through Thursday with Friday used as a make-up day.

#### RECOGNIZED HOLIDAYS:

New Year's Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day and Christmas Day or on days celebrated.

#### WORKING RULES:

There shall be a Foreman in charge of each work crew. No crews are to exceed twelve (12) men, including Foremen.

There shall be a General Foreman designated for transmission work when three (3) or more crews are on the same job and for distribution work where there are are more than twenty (20) employees on site.

A small job crew shall consist of five (5) or less employees, one (1) of the Journeyman Linemen in the crew shall be designated as a Small Job Foreman.

Work performed from ladders and/or mechanical lift equipment shall be the work of Linemen and/or Apprentices.

On new construction, fitting and framing poles, towers or structures may be done by Journeymen and/or Apprentices. Groundmen may assist, but may not perform any work which would be performed by Linemen if assembled in the air.

There shall be a Journeyman Lineman in each pole setting, erection, grounding, wire and cable-pulling crew of more than three (3) men.

#### **Effective Dates:**

#### 12/01/2019

Rate	Fringe	Total
62.11	49.53	111.64

#### **CLASSIFICATIONS:**

General Foreman

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

# ENTIRE STATE

# **ELECTRICIAN- UTILITY WORK (SOUTH)** Rates Expiration Date:

#### **Effective Dates:**

12/01/2019

Rate Fringe Total 55.31 45.49 100.80

#### **CLASSIFICATIONS:**

Foreman

#### **Effective Dates:**

12/01/2019

Rate Fringe Total 52.40 43.78 96.18

# **CLASSIFICATIONS:**

Small Job Foreman

#### **Effective Dates:**

12/01/2019

Rate Fringe Total 48.52 41.48 90.00

#### **CLASSIFICATIONS:**

Heavy Equipment Operator

# **Effective Dates:**

12/01/2019

Rate Fringe Total 48.52 41.48 90.00

#### **CLASSIFICATIONS:**

Cable Splicer

#### **Effective Dates:**

#### 12/01/2019

Rate Fringe Total 48.52 41.48 90.00

#### **CLASSIFICATIONS:**

Journeyman Lineman

#### **Effective Dates:**

12/01/2019

Rate Fringe Total 48.52 41.48 90.00

# **CLASSIFICATIONS:**

Journeyman Welder

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

# ENTIRE STATE

# **ELECTRICIAN- UTILITY WORK (SOUTH)** Rates Expiration Date:

#### **Effective Dates:**

12/01/2019

Rate Fringe Total 48.52 41.48 90.00

#### **CLASSIFICATIONS:**

Journeyman Painter

#### **Effective Dates:**

12/01/2019

Rate Fringe Total 38.82 35.73 74.55

# **CLASSIFICATIONS:**

Light Equipment Operator

#### **Effective Dates:**

12/01/2019

Rate Fringe Total 33.96 32.86 66.82

#### **CLASSIFICATIONS:**

Groundman Truck Driver

#### **Effective Dates:**

12/01/2019

Rate Fringe Total 31.54 31.44 62.98

#### **CLASSIFICATIONS:**

Groundman 3rd Year

#### **Effective Dates:**

12/01/2019

Rate Fringe Total 29.11 30.01 59.12

#### **CLASSIFICATIONS:**

Groundman 2nd Year

# **Effective Dates:**

12/01/2019

 Rate
 Fringe
 Total

 26.69
 28.57
 55.26

# **CLASSIFICATIONS:**

Groundman 1st Year

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

ENTIRE STATE

# ELECTRICIAN- UTILITY WORK (SOUTH) Rates Expiration Date :

**Effective Dates:** 

12/01/2019

Rate Fringe Total 21.35 25.41 46.76

# **CLASSIFICATIONS:**

Flagman

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

ENTIRE STATE

#### HEAVY & GENERAL LABORERS- NEW TRANS HUDSON TUNNELS Rates Expiration Date:

\*\*THESE RATES APPLY TO CONSTRUCTION ON NEW TRANS HUDSON TUNNELS ONLY\*\*

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

#### SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$3.00 per hour.

#### OVERTIME:

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

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

#### Hazardous Waste Work:

-where Level A, B, or C protection is required: + \$3.00/hr

-other Hazardous Waste site: + \$1.00/hr

## **Effective Dates:**

## 03/01/2020

Rate Fringe Total 68.63 32.53 101.16

#### **CLASSIFICATIONS:**

Walking Boss & Superintendent

#### **Effective Dates:**

#### 03/01/2020

Rate	Fringe	Total
68.18	32.53	100.71

#### **CLASSIFICATIONS:**

Heading Foreman, Shaft Foreman, Rod Foreman, Electrical Foreman, Rigging Foreman

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

#### **ENTIRE STATE**

#### HEAVY & GENERAL LABORERS- NEW TRANS HUDSON TUNNELS Rates Expiration Date :

#### **Effective Dates:**

#### 03/01/2020

Rate	Fringe	Total
67.43	32.53	99.96

#### **CLASSIFICATIONS:**

Iron Foreman, Caulking Foreman, Form Foreman, Cement Finishing Foreman, Concrete Foreman, Track Foreman, Clean-up Foreman, Grout Foreman

#### **Effective Dates:**

#### 03/01/2020

Rate	Fringe	Total
71.18	32.53	103.71

#### **CLASSIFICATIONS:**

Blaster

#### **Effective Dates:**

#### 03/01/2020

Rate	Fringe	Total
66.60	32.53	99.13

#### **CLASSIFICATIONS:**

Top Labor Foreman

#### **Effective Dates:**

#### 03/01/2020

Rate	Fringe	Total
66.08	32 53	98 61

# **CLASSIFICATIONS:**

Skilled Men (including Caulker, Powder Carrier, all other skilled men)

Skilled Men (including Miner, Drill Runner, Iron Man, Conveyor Man, Maintenance Man, Safety Miner, Rigger, Block Layer, Cement Finisher, Rod Man)

#### **Effective Dates:**

#### 03/01/2020

Rate	Fringe	Total
65.85	32.53	98.38

# **CLASSIFICATIONS:**

Semi-Skilled Men (including Bell or Signal Man top or bottom, Form Worker & Mover, Concrete Worker, Shaft Man, Tunnel Laborer, Caulker's Helper, all other semi-skilled)

Semi-Skilled Men (including Miner's Helper, Chuck Tender, Track Man, Nipper, Brake Man, Derail Man, Cable Man, Hose Man, Gravel Man, Form Man)

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

ENTIRE STATE

# HEAVY & GENERAL LABORERS- NEW TRANS HUDSON TUNNELS Rates Expiration Date :

# **Effective Dates:**

03/01/2020

Rate Fringe Total 65.25 32.53 97.78

# **CLASSIFICATIONS:**

All others (including Powder Watchman, Change House Attendant, Top Laborer, Job Steward)

# PROJECT SPECIFIC CONDITIONS

## **SECTION I - GENERAL**

The scope of work consists of intersection improvements and the installation of signals at Rahway Avenue & Lamberts Mill Road (C.R. 606) and West Broad Street (C.R. 653) & Scotch Plains Avenue in the Town of Westfield, County of Union. The installation of signals will include LED signals, Image Detection, GPS Controller Time Reference, and a Battery Back-up System. Intersection improvements will consist of installation of ADA compliant ramps, curb, sidewalks and roadway repair.

# **SECTION II - REGULATORY REQUIREMENTS AND APPLICABLE STANDARDS**

All specifications shall conform to the New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction, 2007 Edition, except as specifically modified within this document.

Bidders must be registered with the New Jersey Department of Labor, Division of Wage and Hour Compliance, at the time of bid pursuant to the "Public Works Contractor Registration Act," N.J.S.A. 34:11-56.48 et seq. (P.L. 2003, c. 91).

# SECTION III - MAINTENANCE BOND

A Maintenance Bond will be provided by the Contractor in an amount equal to 25% of the total bid and will remain in force for one year (1) after completion and acceptance of the work done under this contract. Said acceptance will be in written form provided by the County that lists the date of acceptance.

# SECTION IV - CONTRACTOR RESPONSIBILITIES

The Contractor shall be responsible for maintaining the entire project (e.g., roadways; driveways; sidewalks, etc., within the project limits) until the County accepts it. This includes any and all items that may arise during the course of construction including damage and vandalism.

All punchlist work must be addressed and corrected within fourteen (14) calendar days from receipt of said items, unless other arrangements have been made between the Contractor and the County. Failure to address the punchlist items in a timely manner may result in payment being withheld for the respective item or items the punchlist references or in pursuing liquidated damages as described herein.

The Contractor shall provide a 24-hour emergency telephone number to the Engineer and Union County for the duration of this project. A PAGER NUMBER FOR THIS PURPOSE WILL NOT SUFFICE. IF AND WHEN THE NUMBER IS CALLED, THE CONTRACTOR OR DULY APPOINTED AGENT MUST BE AVAILABLE TO ANSWER

# AND RESPOND TO THE EMERGENCY CALL. THE CONTRACTOR'S RESPONSE TIME TO EMERGENCIES THAT ARISE DURING THIS PROJECT SHALL BE ONE HOUR OR LESS.

With the exception of water valve boxes, gas valve boxes, County and Township-owned facilities, which will be reset by the Contractor as part of this contract (as described herein), utility companies shall reset their valves, meters and manholes to final grade prior to construction. The Contractor shall make all necessary arrangements with the respective utility owners, to confirm that the appropriate number of each type of valve sleeves, covers, etc. are on-site for work performed by him/her under this contract. The Contractor shall also be responsible for coordinating work to be done by respective utility companies in a manner that does not impede construction progress. Under no circumstances will the Contractor be permitted to commence with resurfacing operations and/or construction, until all utility valves have been reset. A list of affected utility companies, with reference telephone numbers is provided below:

# Cable

Mr. Richard Gugulski Comcast of New Jersey Construction Department 800 Rahway Avenue Union, NJ 07083

Electric Mr. Keith Wilson Public Service Electric & Gas Co. 48 Middle Avenue Summit, NJ 07901 (908) 527-7412

Water Mr. Nick Pinto New Jersey American Water Co. 167 JFK Parkway Short Hills, NJ 07078

Gas Mr. Gregory Balint Distribution Engineer Elizabethtown Gas Company 520 Green Lane Union, NJ 07083 Telephone Mr. David W. Gruytch Verizon 445 Georges Road North Brunswick, NJ 08902

Sanitary Town of Westfield Department of Public Works 959 North Avenue West Westfield, NJ, 07090

Conrail Mr. J Leo Mcglynn, Director, Design & Construction 1000 Howard Blvd. Mount Laurel, NJ 08054 (856) 231-2450

The Contractor is advised that the design for this Contract did not identify any anticipated utility conflicts. However, this Contract does require the Contractor to

perform underground excavation and the driving of signposts and is reminded to call the State's One Call System (1-800-272-1000) to verify that a conflict does not exist.

# SECTION V - CONSTRUCTION SCHEDULES

It is imperative that the Contractor progress his work steadily and in a compact manner to minimize the impact of construction activities on the surrounding homes and businesses. It is anticipated and expected that once construction on this project begins, the Contractor will be on site each and every day (weather permitting), to complete construction as soon as possible.

# **Delay in Completion of Work**

The Contractor and the County recognize that delay in completion of the contract results in damage to the County in terms of effect of the delay on the use of the project, upon the public inconvenience and economic development of the County, and also results in additional cost to the County for Engineering, inspection and administration of the contract.

Therefore, the parties agree that if the Contractor fails to complete the contract within the time stated in the Supplementary Specifications, or within such further time as may have been granted in accordance with the provisions of the contract, the Contractor shall pay the County liquidated damages amounting to \$500.00 per calendar day. Such liquidated damages shall be paid for each and every day that he is in default on time to complete the contract.

The County may elect, upon substantial completion of the project, to waive liquidated damages and, in lieu thereof, require the Contractor to pay the County's cost for Engineering, inspection, maintenance and protection of traffic, administration (including overhead, if applicable) and traffic directors, between the date of substantial completion or such subsequent date as the County may determine and the date established as the completion date.

The County will recover said damages by deducting the amount thereof from any monies due or that may become due the Contractor, or from the Contractor or from his surety.

# **SECTION VI - PROJECT MEETINGS**

A pre-construction meeting will be held to enable full coordination of parties involved in this project. The County will arrange this meeting shortly after award of contract and prior to the start of any work and send an agenda and written invitations to municipal officials, utility owners and any other interested parties.

At or prior to the pre-construction meeting, the Contractor will provide the County, in writing, with the following:

- 1. Proposed work schedule
- 2. List of subcontractors
- 3. List of material suppliers (including NJDOT form SA-11)
- 4. Breakdown of lump sum items

# **SECTION VII - SUBMITTALS**

Shop drawings are required for the following items:

- 1. All sign materials used for fabrication of all signs under this contract (i.e. reflective sheeting, electro-cuttable film, etc.).
- 2. Junction Boxes
- 3. Overhead Street Name Sign Brackets
- 4. Inlet Curb Pieces
- 5. Ground Wire
- 6. Service Wire
- 7. Traffic Signal Cable
- 8. Conduit all types used on the project
- 9. Video Detector Assembly Components
- 10. Thermoplastic Pavement Marking and Striping Materials
- 11. All traffic signal hardware including poles, arms, traffic signal heads and lenses.
- 12. Controller Assembly
- 13. Controller Cabinet
- 14. All Signal Pre-emption Equipment

Four (4) copies shall be submitted to the County for review and approval by the Engineer, and shall be submitted prior to the pre-construction meeting. This is to avoid unnecessary delays that might occur if an item is submitted that is unacceptable to the Engineer.

No installation of these items shall take place prior to their being approved. Items installed prior to approval will not be subject to payment, either before or after their subsequent approval, if so approved.

# **TECHNICAL SPECIFICATIONS**

# **FOR**

# INTERSECTION IMPROVEMENTS TOWN OF WESTFIELD RAHWAY AVENUE & LAMBERTS MILL ROAD (CR 606) AND WEST BROAD STREET (CR 653) & SCOTCH PLAINS AVENUE COUNTY OF UNION, NEW JERSEY

The 2007 New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction shall govern this Contract with all supplemental specifications through 2012.

The following pages are revisions to the listed Sections of the 2007 NJDOT Standard Specifications:

# **DIVISION 150 - CONTRACT REQUIREMENTS**

Section 157 Construction Layout and Monuments

Section 158 Soil Erosion and Sediment Control and Water Quality Control

Section 159 Traffic Control

# **DIVISION 200 - EARTHWORK**

Section 201 Clearing Site

Section 202 Excavation

# **DIVISION 300 - SUBBASE AND BASE COURSES**

Section 302 Aggregate Base Course

# **DIVISION 400 - PAVEMENTS**

Section 401 Hot Mix Asphalt (HMA) Courses

# **DIVISION 600 - MISCELLANEOUS CONSTRUCTION**

Section 606 Sidewalks, Driveways and Islands

Section 607 Curbs

Section 610 Traffic Stripes, Traffic Markings and Rumble Strips

Section 612 Signs

# **DIVISION 700 - ELECTRICAL**

Section 701 General Items

Section 702 Traffic Signals

# **DIVISION 800 - LANDSCAPING**

Section 802 Trimming and Removing Trees

Section 804 Topsoiling

Section 806 Fertilizing and Seeding

Section 809 Mulching

# The following Sections of the Standard Specifications are deleted:

**SECTION 101 – GENERAL INFORMATION** 

SECTION 102 - BIDDING REQUIREMENTS AND CONDITIONS

SECTION 103 - AWARD AND EXECUTION OF CONTRACT

SECTION 104 – SCOPE OF WORK

SECTION 105 – CONTROL OF WORK

SECTION 106 - CONTROL OF MATERIAL

SECTION 107 - LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC

SECTION 108 - PROSECUTION AND PROGRESS

SECTION 109 - MEASUREMENT AND PAYMENT

# **DIVISION 150 - CONTRACT REQUIREMENTS**

# SECTION 157 - CONSTRUCTION LAYOUT AND MONUMENTS

157.03 PROCEDURE THE SECTION IS CHANGED TO:

# 157.03.01 Construction Layout

Perform a site investigation within the Project Limits to locate existing property markers and monuments. Protect property markers and monuments from disturbance and destruction. Notify the RE of the location of property markers and monuments that are in danger of being removed or disturbed. Do not remove or disturb existing property markers and monuments until obtaining RE approval.

Before removing a monument that is not owned by the Department, notify the agency to which the monument belongs of the need to remove the monument. Provide the RE with copies of correspondence with the agency, as well as the agency's written requirements or guidelines for setting monuments.

If a monument or marker is disturbed or removed without RE approval, the Contractor is responsible for reimbursing the Department for the cost to replace the monument.

Perform layout for the construction of the Contract using the control points and data shown on the Plans. Perform layout under the direct supervision of a land surveyor. Preserve control points throughout the duration of the Project. Reset control points that are damaged, lost, displaced, or removed.

Before beginning construction operations, verify the vertical and horizontal controls provided in the Plans using, at a minimum, third-order, Class I accuracy procedural standards and equipment. Notify the RE in writing of discrepancies or errors and obtain resolution before proceeding with the work. Upon request, provide the RE with survey notes and calculations related to the field control verification.

Before beginning construction operations, establish lines for ROW, easement, and other restrictions, such as boundaries for environmentally sensitive areas to define the limits of construction and temporary operations. Do not encroach on private property, except as allowed by easements.

Provide the Utilities with the layout needed to install relocated utility facilities and coordinate the Work. Ensure that relocated facilities do not conflict with proposed construction, including High Voltage Proximity Act conflicts.

Establish the exact location of the Work from the control points. Reference the Work to baselines that are established from the control points. Maintain baselines until Completion.

Provide and maintain offset baseline stakes for roadways, ramps, jughandles, or turnarounds outside the limits of grading and construction. Set offset stakes at a maximum interval spacing of 50 feet. Where baselines have a radius of less than 475 feet, provide offset stakes at a maximum interval spacing of 25 feet. Identify and mark each stake to show the offset distance from the baseline, and provide grade sheets to the RE showing the cut or fill to the finished profile lines with reference to the offset stakes. Provide grade sheets for construction of subbase that include calculations to establish the typical cross-section from the profile grade stake. Provide adequate and accurate offset lines during construction that requires occupation of the baseline points by construction operations. Provide the RE with assistance as requested for verification of lines, grades, boundaries, dimensions, and elevations.

For each bridge and sign structure within the Project Limits, provide the RE as-built measurements of the vertical under clearance at each lane line, shoulder line, curb line and edge of pavement line under a structure to the nearest inch. For each bridge structure, provide vertical under clearance measurements at each fascia beam.

Upon request, provide the RE with survey notes and calculations related to the alignment and horizontal and vertical control, and field notes to document the ROW, including easements and monument locations. Maintain survey notes in a bound field notebook in a professional manner.

If the Department discovers survey errors, the Department will deduct the costs of checking and correcting these errors from any money due to the Contractor.

# 157.04 MEASUREMENT AND PAYMENT

THE SECTION IS CHANGED TO:

Measurement and Payment will be as follows:

ItemPay UnitConstruction Layout (Item 7)Lump Sum

Payment for construction layout will be adjusted based on the final contract amount and will be calculated as follows:

$$CL = \frac{CL_B \times (C_F - E)}{C_O - E}$$

Where:

CL = Adjusted payment for CONSTRUCTION LAYOUT.

CL<sub>B</sub> = Bid price for CONSTRUCTION LAYOUT.

Co = Original Contract Price.

C<sub>F</sub> = Final Contract Price.

E = Total cost of payment for CONSTRUCTION LAYOUT, PERFORMANCE BOND AND PAYMENT BOND, Incentive/Disincentives, Bonus/Penalties, and claim settlements.

Should the adjusted price be less than the bid price for construction layout, the contractor shall issue a credit to the County. The adjusted price may not exceed the bid price.

# SECTION 158 – SOIL EROSION AND SEDIMENT CONTROL AND WATER QUALITY CONTROL

# **158.04 MEASUREMENT AND PAYMENT**

THE SECTION IS CHANGED TO:

Separate payment will not be made for soil erosion and sediment control. The contractor is required to comply with the Section 158 of the NJDOT Standard Specifications and the Standards for Soil Erosion and Sediment Control in New Jersey.

# **SECTION 159 – TRAFFIC CONTROL**

# 159.01 DESCRIPTION

THE FOLLOWING IS ADDED:

Before beginning work on any phase of the project the Contractor shall furnish and install all specified warning signs, temporary pavement markings, barricades, flashing lights, and other devices necessary, in the opinion of the Union County Engineer, to protect the public during that phase of his operations.

The contractor shall provide and maintain to the satisfaction of the Union County Engineer, adequate and safe means of passage of vehicular and pedestrian traffic at all times throughout the project length. This requirement shall include vehicular (including fire, police and other emergency vehicles and school buses) and pedestrian access to all residences, businesses, schools and public buildings adjoining or affected by the work.

During periods of inactivity all construction equipment, material and other obstructions shall be removed from all travel ways and shoulders, and properly secured from traffic.

All traffic warning signs shall be furnished, erected, and maintained in a suitable manner as determined by the County Engineer and shall be maintained so as to provide maximum visibility and legibility.

Signs, lights, barricades and all other warning and protective devices shall be established, repaired, replaced, relocated and removed by the Contractor at the locations and times and in the manner directed by the Union County Engineer.

#### 159.03 PROCEDURES

THE FOLLOWING IS ADDED:

The Contractor shall be responsible for project maintenance within the project limits until acceptance. This maintenance shall consist of continuous and effective work

prosecuted day by day, with adequate equipment and forces to the end that the roadway is kept in satisfactory condition at all times.

It shall be the Contractor's responsibility to maintain driveway access for all adjacent property owners. In the event that the driveway access must be temporarily denied the Contractor shall provide written notice to the Engineer and property owner at least five (5) working days in advance of the driveway closing.

On any section opened to traffic, whether provided for in the contract documents or opened as directed, any damage to the roadway due to the Contractor's operations shall be repaired at no cost to the County of Union.

All equipment, materials, excavated material or debris shall be removed by the end of the workday unless specific arrangements have been made with the County and/or Municipality. Any items left on site must be safely secured and barricaded. Material or debris left at the end of the day by the Contractor on, near or adjacent to the sidewalk or traveled way that is open to pedestrians and vehicles and creates a hazard is subject to removal by County or Municipal personnel. All costs associated with the removal of any hazards left by the Contractor will be charged to this project and deducted from any monies owed to the Contractor.

The Contractor shall notify the Engineer of the anticipated start-up and shut down times the day before work is to actually commence. Neither the Contractor nor his forces or equipment shall occupy any part of the roadway or begin work prior to the work zone being properly established (including detours). Work on the project will not be allowed to commence until all provisions of this item are met to the satisfaction of the Engineer. Work that has been performed without meeting these provisions will not be subject to payment.

The Contractor shall be responsible for maintaining safe and adequate pedestrian access in, near or around the work site. Neither the Contractor's equipment nor debris and materials shall occupy any part of the sidewalk, path or traveled way that is not being constructed. Any pedestrian detours or diversions shall be approved by the Engineer and meet the requirements of the American with Disabilities Act (ADA), as amended. Additionally, precautions such as snow fencing or other physical separation between the walkway and work site, and signing shall be erected and maintained by the Contractor.

Prior to beginning a seasonal shutdown or any other prolonged work stoppage or when work is suspended by the Engineer, all excavated areas within the traveled way or adjacent thereto shall be brought to a grade compatible with the existing traveled way or to finished grade, as approved. The Contractor is responsible for maintenance of these temporarily backfilled areas throughout the duration of the shutdown. Should an area require repair the Contractor shall be on site within 24 hours to perform such repair. All maintenance operations shall be performed at no additional cost to the County of Union.

# ALL WORKERS SHALL WEAR REFLECTORIZED GARMENTS, UTILIZING 360° VISIBILITY, AS SPECIFIED FOR TRAFFIC DIRECTORS.

The Contractor shall not be responsible for removal of ice or snow from sections of roadways opened to traffic or for damage to the project caused by the operation of snow plows or other snow removal or deicing operations carried on by others under the supervision or direction of the County.

The Contractor shall be responsible for project maintenance within the project limits until acceptance. This maintenance shall consist of continuous and effective work prosecuted day by day, with adequate equipment and forces to the end that the roadway is kept in satisfactory condition at all times

Should the Contractor begin work prior to the work zone being properly established as described herein, the County shall assume no responsibility for tort liability issues arising from the Contractor's premature start. All liability and consequence arising from a premature start is solely the Contractor's.

In the event that the manhole, inlet or other appurtenance is in the middle of a travel way and the placement of a traffic device would impede the flow of traffic, the manhole, inlet or other appurtenance will be ramped with fresh bituminous material (either cold or hot mix). The use of millings to perform this operation will not be allowed. Bituminous material for manhole, inlet and other ramping will not be measured. No separate payment will be made for this bituminous material.

If the Contractor at any time fails to comply with these provisions, the Engineer will immediately notify the Contractor of such noncompliance. If the Contractor fails to remedy unsatisfactory maintenance within one (1) calendar day, after receipt of such notice, the Engineer may proceed to maintain the project and the entire cost of this maintenance will be deducted from any monies due or that may become due the Contractor.

#### 159.03.01 Traffic Control Coordinator

THE FOLLOWING IS ADDED TO THE FIRST PARAGRAPH

The County shall be supplied with the Traffic Control Coordinator's contact telephone number. A pager number for this purpose will not suffice. If and when the number is called, the contractor or duly appointed agent must be available to answer and respond to the emergency call. The contractor's response time to emergencies that arise during this project shall be within one (1) hour.

THE FOLLOWING IS ADDED AT THE END OF THIS SUB-SECTION:

**Traffic Control Plan (TCP).** The Contractor shall provide to the Union County Engineer a traffic control plan which complies with MUTCD and which indicates the personnel, signs, traffic directors, traffic cones, drums, lights, equipment and all other incidentals necessary

for the safe maintenance and protection of traffic. Said traffic control plan shall be submitted to the Union County Engineer a minimum of two (2) weeks prior to the start of Construction. This traffic control plan shall clearly detail the means and methods to be employed to accommodate the shifting of traffic during the performance of specific tasks as depicted on the progress schedule. The plan shall also indicate the maintenance and protection of traffic measures to be taken at areas to be used for equipment and materials storage. No work shall commence without approval of the plan by the Union County Engineer. Detailed plans as above discussed must show the staging of lane closures, available lane widths and time estimates.

Before beginning construction, the Contractor shall be responsible for providing, placing and installing all signing, channelizing devices, etc., shown on the traffic control plan or as directed by the Engineer. Additionally, all parts of the work zone (i.e., Advance Warning Area, Transition Zones, Buffer Spaces (both lateral and transverse), Work Area and Termination Area, shall be established in accordance with the traffic control plan and maintained accordingly. The County Engineer shall review all installations prior to work to ensure conformance. The Contractor shall not be allowed to alter or modify any part of the traffic control plan without written consent from the County Engineer.

# 159.03.02 Traffic Control Devices

THE FOLLOWING IS ADDED:

All traffic control devices furnished by the Contractor shall be new, or in acceptable condition as defined by the American Traffic Safety Services Association (ATSSA), **Quality Standards For Work Zone Traffic Control Devices – 3<sup>rd</sup> Edition**. Traffic control devices damaged under this Contract as a result of carelessness or mishandling by the Contractor (i.e., running over cones or barrels with his equipment or splashing tar on traffic control devices, etc.) shall be replaced within one (1) calendar day. The County reserves the right to reject any traffic control device, which in their sole opinion does not satisfy the criteria of these Specifications, is damaged or otherwise incapable of providing the function for which it was intended. In this event, the Contractor shall replace the deficient traffic control devices and/or materials within one (1) calendar day. Upon completion of the Project, all traffic control devices and materials furnished by the Contractor shall be removed by the Contractor.

At any time during the course of the project, 75 percent of all traffic control devices shall be in acceptable condition, as outlined in the aforementioned pamphlet.

Devices not meeting these criteria shall not be used on the project and are not eligible for reimbursement. Any devices damaged during the course of the project, shall be replaced at the direction of the Engineer, without additional compensation. Therefore, the Contractor is **expected to maintain an adequate supply of the various types of traffic control devices used on this project.** 

The Contractor shall be responsible for erecting advance notice of construction signs on all roadways approaching the work site. Sign sizes and legends will be provided by the Engineer prior to the pre-construction meeting.

"CONSTRUCTION TO BEGIN ON OR ABOUT..." advance notice of construction signs shall be erected no less than five (5) business days prior to the start of work. One sign shall be placed on each approach roadway within 200 feet of the intersection or as directed by the Engineer.

All construction signs shall be fabricated from 3M orange fluorescent VIP diamond grade materials, electro-cuttable films, overlay film, etc.

Where partial closures are necessary, reduction in the number of lanes available for traffic or construction of existing widths of traveled way will not be permitted until after 9:00 a.m. and shall be removed prior to 4:00 p.m. unless otherwise directed by the Engineer. Work will not be conducted on Saturdays, Sundays, or legal holidays, unless otherwise directed by the Engineer. A list of holidays observed by Union County will be provided to the Contractor at the pre-construction meeting.

# 159.03.10 Nighttime Operations.

THIS SUB-SECTION IS ADDED:

Under no circumstances will nighttime operations be allowed.

#### 159.03.11 Detours.

THIS SUB-SECTION IS ADDED:

The Contractor shall be responsible for establishing (using appropriate signing that is installed in accordance with the requirements set forth in the current edition of the Manual on Uniform Traffic Control Devices (MUTCD) and maintaining the proposed detour routes, and work zones, as well as the work area(s) itself, insofar as it relates to maintenance and protection of traffic operations. Any detour route or road closure shall be approved by the County Engineer prior to implementation.

Notification must be made to residents and businesses within the limits of the closure five (5) business days prior to the closure. The Contractor shall notify residents and businesses of any closure by either written notice delivered to each property or post construction signs at the limits of the closure stating the date and length of time of the closure. Adequate directional and detour signs, acceptable to the County, shall be furnished and erected at the location where the county may direct. All work in connection with such detours shall be at no cost to the County.

It should be noted that at the conclusion of the workday, any detour routes will be discontinued and the area under construction reopened to traffic until the start of the following workday. Therefore, the Contractor shall ensure that all of his equipment and materials are removed from the roadway, the road clear of debris and any raised

manholes, inlets and other appurtenances have traffic control devices (i.e., drums) placed over them.

# 159.03.08 Traffic Direction

THIS SUB-SECTION IS CHANGED TO:

Traffic Directors will be utilized as directed by the Engineer. Traffic Director manpower not approved by the Engineer will not be reimbursed under this item and shall become the Contractor's sole responsibility.

**A. Flagger.** Provide a flagger that has received formal training in flagging operations and the proper use of the STOP/SLOW paddle. The flagger must meet MUTCD qualifications and, when requested, demonstrate competency to the RE. Immediately replace flaggers who fail to demonstrate competency with a competent flagger. Ensure that flaggers wear a 360 °high-visibility retroreflective orange safety garment meeting ANSI/ISEA Class 3, Level 2 standards. Ensure that the flagger is equipped with a STOP/SLOW paddle meeting MUTCD requirements and follows MUTCD flagging procedures.

Should the circumstances arise during any construction operations where the use of flaggers are not permitted by the Motor Vehicle & Traffic Laws of New Jersey, Title 39, specifically 39:4-57 and or 39:4-80 & 81, or any other section in Title 39, or in the opinion or the Engineer or the Town of Westfield Police Department, where the limitations of such flaggers in the roadway do not optimize the safety of pedestrians & the motoring public, Police Traffic Directors shall be utilized as specified in section 159.03.09.B. Under these circumstances, it shall be the Contractor's responsibility to coordinate & schedule all officers necessary for the appropriate construction phases, however, the County of Union will regulate the amount of & location of each director.

**B.** Police. Police will be off-duty local police. Police are provided by and paid for by the Town of Westfield. The use of police services does not relinquish or diminish the Contractor's responsibilities for work zone safety.

It shall be the Contractor's responsibility to coordinate with the Town of Westfield a minimum of 96 hours before beginning construction operations that require police services. Activities requiring police services include:

- 1. Traffic direction through signalized intersections, where the integrity of the existing traffic signal system is impacted or where an override of the signal is required.
- 2. Rolling slow-down or temporary closure of all lanes on state highways and interstates.

Emergency situations may prevent police from arriving at the scheduled date or time. Construction operations that, by law, require police services will not be permitted if police are unavailable. The County will not accept claims for interruptions or delays resulting from any failure of police to arrive as requested.

The Contractor may request police services to enhance the TCP. Submit a request for police services to Town of Westfield a minimum of 96 hours before beginning construction operations and the Town will determine the need for, and direct the use of, police for the following activities.

- 1. Night operations;
- 2. TCP setup or removal on high speed and high volume roads; and
- 3. Major traffic pattern changes.

The contractor must notify the Town of Westfield of cancellations 24 hours in advance. At least 24 hours before the scheduled start of work, notify the Town of Westfield of any work cancellation for which police services were requested.

# **159.04 MEASUREMENT AND PAYMENT**

THE ENTIRE SUB-SECTION IS CHANGED TO:

The item TRAFFIC DIRECTORS will be measured and payment made by the man-hour and is not to exceed 200 hours as set in the Bidding Sheets for the item TRAFFIC DIRECTOR, FLAGGER and is based on the anticipated number of Director hours to be used. Should these hours be exceeded as necessitated to ensure the safe and smooth flow of traffic, the Contractor shall produce records to indicate the overage and prepare a request for payment of the overage. The above requirements relating to proof of payment and hours worked shall also apply. The County will adjust the final cost of the Traffic Directors item based upon the actual cost of the total hours worked. The use of TRAFFIC DIRECTOR, FLAGGER will be as directed by Town of Westfield. Payment for TRAFFIC DIRECTOR, FLAGGER shall be from bid contingency funds.

The utilization of Police Officers to provide traffic safety services shall be at the direction of the Town of Westfield and shall be paid for by the Town of Westfield. The Contractor shall be responsible for paying the prevailing wage rate for the Traffic Directors where funds will be drawn from the bid contingency. The Contractor shall <u>not</u> be responsible for paying the prevailing wage rate for Police Traffic Directors.

Payment for the Traffic Directors by the Contractor shall be reimbursed under this contract, in accordance with the requirements stated herein and those of the respective Municipality. The Contractor shall be required to produce proof of <u>both</u> payment and hours worked for each traffic director at each post for each assignment. Should the Contractor fail to produce said proof, the County will withhold payment on this item until such time that adequate and satisfactory proof can be provided.

The Town of Westfield shall direct the Contractor as to the number of traffic directors required per roadway. Under the circumstances where Police Traffic Directors may be utilized, the Contractor shall notify the Westfield Police Department at least four (4) business days (96 hours) in advance of requiring the traffic directors. Should there be a difference between the Engineer's requirement, and that of the Police Department, the Contractor shall immediately notify the Engineer and request clarification.

If the Contractor schedules more traffic directors than that which is directed by the Town of Westfield, then, said additional directors will not be reimbursed, and such payments

will be the direct responsibility of the Contractor. In addition, if the Contractor cancels any work, without prior notice to the affected Municipal Police Department and the Engineer, then any costs incurred from the respective Police Departments shall become the Contractor's responsibility. Police traffic director manpower not approved by the Engineer will not be reimbursed and shall become the Contractor's sole responsibility. The Contractor shall be responsible for establishing any and all escrow accounts that may be required by the various municipal Police Departments. The Contractor shall confirm specific details of hiring Traffic Directors with each respective Police Department. There will be no additional compensation for minimum call out requirements.

Once the traffic directors are on the job, the County will direct the Contractor as to the dismissal time for such Traffic Directors.

Measurement and Payment will be as follows:

ItemPay UnitTraffic Control (Item 2)Lump Sum

Separate payment will not be made for relocating traffic control devices. Separate payment will not be made for posts or stands for construction signs. Separate payment will not be made for traffic control coordinator. Separate payment will not be made for relocating temporary crash cushions as required or as directed. Separate payment will not be made for moving the traffic control truck units during the various stages of construction. Separate payment will not be made for escape ramps provided at the edges of pavement lifts or at excavations. All costs thereof shall be included in the price bid for the traffic control items listed above. If the Contractor fails to deliver to the job site or provide the appropriate and adequate traffic control devices, payment is subject to being withheld.

# **DIVISION 200 – EARTHWORK**

# **SECTION 201 – CLEARING SITE**

#### 201.03 CONSTRUCTION

201.03.01 Clearing Site

# B. Clearing and Grubbing.

THE FOLLOWING IS ADDED TO SUB-SECTION B

Remove all shrubs, etc. and trim all tree and shrub branches that obstruct the view of the traffic signals and traffic signs within 250 feet of the intersection up to a height of 18' as shown on the plans and as directed by the Engineer and in accordance with Section 802 of the Standard Specifications, except that said removals will not be measured nor paid for as a separate item. Removal of shrubs, etc. and trimming shall be included in the lump sum price bid for the CLEARING SITE item.

# THE ENTIRE SUB-SECTION C IS CHANGED TO:

C. **Sign Relocation and Other Appurtenances.** Remove local street and road signs and reset at locations and in the manner acceptable to local authorities. Ensure that Tourist Oriented Directional Signs and logo signs remain visible to motorists during and after stages of construction. Remove from the immediate work site and safely store existing signs that are to be reset.

The removal or relocation of existing signs shall also include accessory panels, hardware, posts and supports identified on the plans and patching and restoration (to the satisfaction of the Engineer) of existing sidewalk, grassy areas, etc., where the existing signs were previously. Signs and accessory panels removed under this contract shall be delivered to the County's Division of Engineering between the hours of 7:30 am and 3:00 pm. Posts removed under this contract shall be disposed of by the Contractor.

Remove or modify the existing planters as identified on the plans. Remove all unnecessary materials as required for construction and modify the planter in a manner acceptable to the owner.

Reset newsstands, planters and other appurtenances disturbed during construction. Remove all unnecessary materials as required for construction or as directed by the Engineer including other work that may arise during the course of construction that is not specifically stated herein.

# G. Removing Electrical Material and Equipment.

THE SECOND PARAGRAPH OF SUB-SECTION G IS CHANGED TO:

The existing above ground electrical material and equipment designated for removal shall be salvaged in accordance to Subsection 701.03.01. Care shall be taken when removing existing signal equipment from the project area, as these salvaged materials will be returned to the respective Municipality for reuse or recycling. The Contractor shall make arrangements with the Municipality for delivery of salvaged traffic signal equipment to the Public Works yard, or other designated area. Should the Municipality refuse delivery of the salvaged materials, the Contractor shall be responsible for disposal of all materials at no additional cost.

# 201.03.09 Disposal of Removed Materials and Debris

THE FOLLOWING IS ADDED:

Disposal of asphalt and concrete will be made to a NJDEP approved recycling facility. The Contractor shall notify the Recycling Facility to provide the County with appropriate credit for recycling.

## 201.04 MEASUREMENT AND PAYMENT

THE FOLLOWING IS ADDED:

Clearing site, including delivery of salvaged items (as described in subsections 201.03 and above) will not be measured. Payment will be made on a lump sum basis and in accordance with this subsection, for the item CLEARING SITE in the Bidding Sheets for the item

Measurement and Payment will be as follows:

ItemPay UnitClearing Site (Item 1)Lump Sum

#### **SECTION 202 - EXCAVATION**

#### 202.01 DESCRIPTION

THE FOLLOWING IS ADDED:

This section shall also include the sawcutting and excavation of all curb, driveway, sidewalk and pavement areas that are determined unsuitable by the Engineer and/or require removal for constructing new curbs, sidewalk, driveways and pavement. During excavation, the Contractor may encounter combination concrete gutter/curb, underlying concrete road courses, steel reinforcement, etc. All work and materials necessary to excavate these areas, with the exception of the curb excavation itself (to be included under item Granite Curb), shall be included for measurement and payment under this item. Materials necessary for restoration of the excavated area will be paid for under their respective items within this contract.

## 202.03 CONSTRUCTION

# 202.03.03 Excavating Unclassified Material

# A. Excavating.

THE FOLLOWING IS ADDED TO SUBSECTION A:

This subsection shall include the excavation of curbs, driveways and sidewalk. The perimeter of areas to be excavated shall be sawcut. Sawcutting shall consist of making longitudinal and transverse cuts in sidewalk, driveways or curb, of whatever nature, as shown on the plans or as directed by the Engineer. Sawcuts shall be made with an approved power saw full depth in order to prevent damage to the existing sidewalk, driveways or curbs and to provide a neat edge for the adjacent proposed, sidewalk, driveways or curbs as shown on the plans or as directed by the Engineer.

# 202.03.07 Reuse or Disposal of Excess Material

THE FOLLOWING IS ADDED:

Disposal of asphalt and concrete will be made to a NJDEP approved recycling facility. The Contractor shall notify the Recycle Facility to provide the County with appropriate credit for recycling.

### 202.04 MEASUREMENT AND PAYMENT

THE FOLLOWING IS ADDED:

Measure and Payment for the excavation and removal of pavement, curb, driveway and sidewalk shall be made under the item EXCAVATION, UNCLASSIFIED.

Sawcut shall not be measured for payment but shall be included as part of the unit price bid for EXCAVATION, UNCLASSIFIED, as shown in the Bidding Sheets.

Measurement and Payment will be as follows:

ItemPay UnitExcavation, Test Pit (Item 50)Cubic YardExcavation, Unclassified (Item 51)Cubic Yard

# **DIVISION 300 – SUBBASE AND BASE COURSES**

#### SECTION 302 – AGGREGATE BASE COURSE

#### 302.01 DESCRIPTION

THE ENTIRE SECTION IS CHANGED TO:

This section describes the requirements for construction aggregate base course which will be used as base materials in the roadway as shown on the plans, in the construction details, or as directed by the Engineer.

Dense graded aggregate (DGA) base course will be used as shown on the construction details to reconstruct the road sub-base after excavation of the existing curb. The Engineer may also direct the Contractor to utilize DGA at other locations within this project such as to replace unsuitable backfill material in the CUG conduit trench.

## 302.02 MATERIALS

## 302.02.01 Materials

THE FOLLOWING IS ADDED:

Dense graded aggregate base course for this project may be produced from recycled concrete aggregate or reclaimed asphalt pavement (RAP) conforming to subsection 901.05.04.

## **302.03 CONSTRUCTION**

# 302.03.01 Aggregate Base Course

THE FOLLOWING SUBSECTION IS ADDED:

**F. Maintenance Under Traffic.** When it is provided on the plans that traffic is permitted to ride on the completed base course, the base course shall be maintained smooth and uniform until covered by the following stage of construction.

# **302.04 MEASUREMENT AND PAYMENT**

THE ENTIRE SUBSECTION IS CHANGED TO:

Separate payment will not be made for DGA. Payment for DGA shall be included in the item, HOT MIX ASPHALT PAVEMENT REPAIR, if and when required.

# **DIVISION 400 - PAVEMENTS**

# SECTION 401 - HOT MIX ASPHALT (HMA) COURSES

#### **401.03 CONSTRUCTION**

# **401.03.01 Preparing Existing Pavement**

THE FOLLOWING REPLACES THE FIRST PARAGRAPH OF SUBSECTION D:

**D. Repairing HMA Pavement.** This section shall refer to those areas of roadway disturbed due to excavation or construction related to proposed improvements such as a proposed public sidewalk curb ramps or driveway apron.

Sawcut existing HMA pavement to a maximum depth of 10 inches, or to the full depth of bound layers, whichever is less. Sawcut lines parallel and perpendicular to the roadway baseline and 3 inches away, at the closest point, from the damaged area to be repaired. For larger areas, the Contractor may use a milling machine for removal of HMA pavement.

#### THE THIRD PARAGRAPH IS CHANGED TO:

Apply polymerized joint adhesive or tack coat to the vertical surfaces of the openings. Backfill with HMA as specified for the roadway surface. HMA Pavement Repair shall include all courses where necessary including HMA surface course 9.5M64, HMA base course 19M64 and dense-graded aggregate (DGA) base course. Ensure that the temperature of the HMA when placed is at least 250 °F, and compact as specified in 401.03.03.F. Compact areas not accessible to rollers with a vibratory drum. Compact until the top of the patch is flush with the adjacent pavement surface.

#### **401.03.05 Core Samples**

THE ENTIRE SUBSECTION IS CHANGED TO:

Upon completion of an HMA lot, drill cores at random locations determined by the RE at least 12 hours after paving. Take cores in the presence of the RE.

Use drilling equipment with a water-cooled, diamond-tipped, masonry drill bit that shall produce 6-inch nominal diameter cores for the full depth of the pavement. Remove the core from the pavement without damaging it. After removing the core, remove all water from the hole. Apply an even coating of tack coat to sides of the hole. Place HMA in maximum lifts of 4 inches in the hole and compact each lift. Ensure that the final surface is 1/4 inch above the surrounding pavement surface.

For test strip lots and the first traveled way lot, deliver cores within 48 hours of completing the lot. Deliver all other acceptance cores within 7 days of completing the lot.

After each air void lot is placed, drill cores so that the full depth of the course is recovered for air void acceptance testing. If thickness acceptance testing is required as specified in 401.03.03.1, drill the surface course air void cores for the full depth of pavement. The Department will test the full-depth cores for surface course air voids, surface course thickness, and total thickness.

Mark the Department assigned core number on the side of the sample. Place cores and corresponding forms in a ventilated container capable of being locked and sealed by the RE. Ensure that the container provides protection to prevent damage during transit. Before sealing the container, the RE will record the seal number on the laboratory form. Transport the sealed boxes to the Department Laboratory.

The Department will not accept damaged cores for testing. If the Department rejects any core, drill a replacement core at the same offset and within 5 feet of the original station and deliver to the laboratory within 48 hours.

#### **401.04 MEASUREMENT AND PAYMENT**

THE ENTIRE SUBSECTION IS CHANGED TO:

Costs for tack coat and prime coat shall be included in the unit price for HOT MIX ASPHALT PAVEMENT REPAIR.

The unit price for HOT MIX ASPHALT PAVEMENT REPAIR shall include the cost for all courses, where necessary, including HMA surface course 9.5M64, HMA base course 19M64 and dense-graded aggregate (DGA) base course.

Separate payment will not be made for: MTV, test strips, quality control for compaction (including comparison cores and nuclear density testing), prime coat, tack coat and polymerized joint adhesive. All costs thereof shall be included in the prices bid for the item HOT MIX ASPHALT PAVEMENT REPAIR

Measurement and Payment will be as follows:

<i>Item</i>	Pay Unit
Hot Mix Asphalt (HMA) Pavement Repair (Item 39)	Tons
Hot Mix Asphalt 12.5 H64 Surface Course (Item 53)	Tons
Tack Coat (Item 54)	Gallons

# **DIVISION 600 - MISCELLANEOUS CONSTRUCTION**

## SECTION 606 - SIDEWALKS, DRIVEWAYS AND ISLANDS

#### 606.01 DESCRIPTION

THE FOLLOWING IS CHANGED TO:

This section describes the requirements for the construction of sidewalks, sidewalk curb ramps, and driveways. All ramps will be constructed as single-center type, unless otherwise specified by the Engineer.

The construction of sidewalks shall consists of the removal and disposal of any existing concrete or bituminous concrete walks and ramps; excavation to the proper depth all around; setting forms as required; placing a 4" stone subbase as required; pouring and finishing of concrete sidewalk and ramp, or placing and finishing hot mix asphalt as required at each location. After the stripping of forms, each site will be cleaned and restored to match all adjacent conditions, including topsoil and seeding as required.

All handicap accessible ramps shall be included in the unit price for concrete sidewalks and shall consist of providing a sidewalk ramp in compliance with the requirements of the Americans with Disabilities Act. Detectable warning devices will be applied to each ramp identified within the project limits. New concrete ramps will receive cast in concrete detectable warning devices while existing ramps will receive the retrofit detectable warning device application.

PRIOR TO BEGINNING ANY WORK ON PUBLIC SIDEWALK CURB RAMPS, THE CONTRACTOR SHALL FIELD VISIT AND VERIFY ALL LOCATIONS FOR EACH RAMP TO CONFIRM THE RAMP LOCATION AND AREAS OF SIDEWALK TO BE REPLACED WITH THE ENGINEER TO VERIFY THE LIMITS OF DISTURBANCE AND REPLACEMENT.

### 606.03 CONSTRUCTION

# **606.03.02 Concrete Sidewalks, Driveways and Islands** SUBSECTION A IS CHANGED TO:

A. **Underlayer Preparation.** Excavate as specified in 202.03.03. A layer of AASHTO Type 67 stone subbase shall be placed immediately below new concrete sidewalks and driveways at a thickness specified on the plans. This subbase shall be constructed in accordance with Section 301.

#### SUBSECTION E IS CHANGED TO:

**E. Expansion Joints.** Construct 1/2-inch wide expansion joints, placed at intervals of approximately 12 feet, with preformed joint filler. If the sidewalk, driveway, or island is constructed on a concrete surface, install expansion joints directly over

the expansion joints in the underlying concrete surface. Construct expansion joints around all appurtenances, such as manholes and utility poles, and between new concrete and any fixed structure, such as a curb, walls, buildings, or bridges. Ensure that the expansion joint material extends for the full depth.

Clean the top and ends of expansion joint material of all excess concrete and trim the expansion joint material slightly below the surface of the concrete.

#### THE FOLLOWING IS ADDED SUBSECTION F:

# F. Placing Concrete

New sidewalk shall meet existing sidewalk, at an existing joint.

#### THE FOLLOWING IS ADDED TO SUBSECTION G

# G. Finishing Concrete

Sidewalks shall be constructed in 4 ft. x 4 ft. squares using approved separators.

# 606.03.03 Detectable Warning Surfaces

THE FOLLOWING IS ADDED:

Detectable warning devices shall be installed in accordance with the <u>Americans with</u> <u>Disabilities Act Accessibility Guidelines (ADAAG)</u>, as approved by the FHWA Office of Management & Budget (OMB), on June 25, 2004, and as amended herein. Truncated Domes are the only detectable warning devices allowed by the ADAAG. Grooves & exposed aggregate will not be acceptable. Specifications in Section 1108 of ADAAG address the area that these warning devices are to cover at the specified locations.

#### 606.04 MEASUREMENT AND PAYMENT

THE ENTIRE SUBSECTION IS CHANGED TO:

Separate payment will not be made for clean stone subbase to be placed below new concrete sidewalks and driveways. The materials, preparation and compaction of the subbase shall be made part of the unit price for item CONCRETE SIDEWALK, 4" THICK.

Payment will not be made for areas disturbed by construction operations beyond the prescribed grading limits. All areas damaged by construction equipment or construction operations shall be repaired or replaced in kind at no cost to the County. This includes but is not limited to damaged sidewalk, driveway aprons, grass areas, curbs, landscaping, utility conduit and lines or personal property.

Measurement and Payment will be as follows:

ItemPay UnitConcrete Sidewalk, 4" Thick (Item 45)Square YardDetectable Warning Surface (Item 46)Square Yard

#### **SECTION 607 – CURBS**

#### 607.01 DESCRIPTION

THE FOLLOWING IS ADDED:

This section describes the requirements for the removal and disposal of any existing concrete, granite block, and/or bituminous concrete curb; excavation to the proper depth; setting forms as required; placing 4" stone base as required; drilling, grouting and installation of dowels as required; pouring and finishing concrete curb, as required at each location.

After the stripping of forms, each site will be cleaned and restored to match all adjacent conditions, including associated topsoil and seeding as required. All curbs shall be depressed at driveways and at handicap sidewalk ramps, in accordance with the respective construction details.

### **607.04 MEASUREMENT AND PAYMENT**

THE ENTIRE SUBSECTION IS CHANGED TO:

The quantity of curb for which payment will be made will be the length actually constructed, measured in linear feet along the face at the gutter line.

All materials and equipment necessary to complete curb installation will be included in the bid prices for these items.

Separate payment will not be made for the cost of expansion joint material. The cost for expansion joint material should be included in the cost of the curbs.

Measurement and Payment will be as follows:

ItemPay Unit10"x variable Height Concrete Vertical Curb (Item 42)Linear FootGranite Curb (Item 43)Linear FootReset Granite Curb (Item 44)Linear FootCurb and Gutter (Item 56)Linear Foot

# SECTION 610 - TRAFFIC STRIPES, TRAFFIC MARKINGS AND RUMBLE STRIPS

#### 610.03 CONSTRUCTION

# 610.03.02 Thermoplastic Traffic Markings

THE FOLLOWING IS ADDED TO SUBSECTION C:

# C. Applying Long-Life Traffic Markings

All traffic stripes, words, legends and markings shall conform to the current edition of the **Manual on Uniform Traffic Control Devices** for size, color, shape and placement.

All centerline markings shall be a four-inch wide double yellow line. Additionally, the Contractor performing this work shall provide a six-inch wide gap between the double yellow lines for the placement of plowable raised pavement markers, either installed under this or future contracts. In the event that a six-inch wide gap is not provided, the Contractor performing the work shall remove that length of road that is not in compliance and reapply the material to provide the required gap distance without additional compensation.

#### THE FOLLOWING IS ADDED TO SUBSECTION D:

# D. Defective Markings

At no additional compensation by the County, the Contractor shall remove all traffic paint where the striping or markings will not be directly under long-life material, replace long-life traffic stripes or traffic markings damaged due to any sawing or sealing of joints in the HMA overlay, and replace all existing pavement reflectors that have been marred by striping or marking material as a result of improperly located traffic stripes or traffic markings.

#### SUBSECTION E IS CHANGED TO:

E. Opening to Traffic. Complete each application of traffic markings and allow to thoroughly dry. All stray materials which result from the application of traffic lines and markings shall be cleaned up and disposed of prior to opening the road to traffic and to the satisfaction of the Engineer. The use of grinders or similar method will not be allowed on newly paved surfaces. Additionally, where applicable, excess glass beads that are on the roadway surface shall be cleaned up prior to opening the road to traffic. The beads must be swept or vacuumed up the use of blowers to clean the roadway surface of glass beads is not an acceptable method of removal.

# 610.03.08 Removal of Traffic Stripes and Markings

THE FOLLOWING IS ADDED:

Under this contract, there may be locations in which existing striping conflicts with the proposed permanent striping. In this case, the Contractor or Sub-Contractor shall remove the existing striping as directed by the Engineer. Removal of traffic stripes and traffic markings will be paid under Item REMOVAL OF TRAFFIC STRIPES AND MARKINGS.

#### 610.04 MEASUREMENT AND PAYMENT

THE ENTIRE SECTION IS CHANGED TO:

It shall be the responsibility of the Contractor performing this work to provide a breakdown of materials and footage applied at the end of each workday to the County. In the event of a discrepancy between the County and the Contractor's as-built quantity, both the County and the Contractor will re-measure all roads to resolve their differences. This will take place before final contract payment occurs.

The quantity shown in the Bidding Sheets represents the total 4-inch line equivalent for the Traffic Striping.

Traffic markings of the various types and materials for words, arrows or other pavement symbols will be measured by the unit.

Payment for traffic stripes will be made for the number of linear feet installed, accepted and placed in accordance with the requirements of these and the manufacturer's specifications at the price bid per linear foot under the item TRAFFIC STRIPES, LONG LIFE, THERMOPLASTIC.

Payment for traffic markings will be made by the unit of markings installed, accepted and placed in accordance with the requirements of these and the manufacturer's specifications at the price bid per unit under the item TRAFFIC MARKINGS, LONG LIFE, THERMOPLASTIC.

Payment for removal of traffic stripes and markings will be made for the actual linear foot of stripes removed at the price bid per linear foot for REMOVAL OF TRAFFIC STRIPES AND MARKINGS.

Measurement and Payment will be as follows:

Item	Pay Unit
Traffic Markings, Lines, Long-Life Thermoplastic (Item 38)	Linear Foot
Traffic Markings, Symbols, Long-Life Thermoplastic (Item 39)	Square Foot
Removal of Traffic Stripes and Markings (Item 40)	Linear Foot

# **SECTION 612 - SIGNS**

## 612.01 DESCRIPTION

THE FOLLOWING IS ADDED:

This Section describes the requirements for fabricating, finishing, assembling and erecting signs. Post and mounting hardware shall be included in the unit price bid for the items specified in the Section.

Pole mounted signs shall consist of fabricating and installing new traffic sign faces and mounting hardware to attach to a traffic signal pole

All signs shall be mounted on breakaway steel "U" post sign supports.

#### 612.03 CONSTRUCTION

THE FOLLOWING SECTIONS ARE ADDED:

## 612.03.04 Removal and Relocation of Existing Signs

The removal and relocation of existing signs, accessory panels and posts and restoration of the surrounding area is included in the price bid for CLEARING SITE. Signs scheduled for removal shall not be removed until the new sign and/or accessory panels are installed.

# 612.03.05 Overhead Street Signs (Mast Arm Sign)

This project specifies the use of Overhead Street Signs, Type SF and Type DF. Type DF signs are double-faced signs bearing a cross street name on both sides. Type SF signs are single-faced signs bearing a cross street name on the side facing traffic.

This item includes furnishing and installing the sign (i.e., sheeting and aluminum blank), hardware to mount the sign on the traffic signal arm, miscellaneous hardware, fittings, labor, equipment, etc., to complete this item.

Overhead street name signs shall be installed only after the end and mid-mount traffic signals are installed, to ensure proper clearance, spacing and visibility of both the traffic signals and overhead signs. Lateral spacing between the near edge of signs and traffic signals mounted on the mast arm shall be a minimum of 6-inches to avoid entangling the sign and signal.

Prior to installation, the Engineer shall inspect the sign faces and hardware to ensure conformance with the plans and specifications.

# **612.04 MEASUREMENT AND PAYMENT**

Measurement and Payment will be as follows:

Item	Pay Unit				
Mast Arm Sign, Type SF (Item 8)	Square Foot				
Mast Arm Sign, Type DF (Item 9)	Square Foot				
Post Mounted Sign (Item 37)	Square Foot				

# **DIVISION 700 - ELECTRICAL**

# **SECTION 701 – GENERAL ITEMS**

## 701.01 DESCRIPTION

THE ENTIRE SECTION IS CHANGED TO:

This section describes the requirements for constructing and installing various electrical items. Electrical items associated with this project include rigid metallic conduit, junction boxes, foundations, junction box frames and covers, meter cabinets, cable and wire.

# 701.03.02 Rigid Metallic Conduit (Earth)

SUBSECTION C IS CHANGED TO:

C. Backfilling. Ensure that conduit is centered in the trench and is held firmly in place while the trench is backfilled. Backfill with suitable excavated material that is free from rock larger than 2 inches in diameter in lifts not exceeding 6 inches thick, loose measurement. If the excavations do not provide sufficient material of the quality required for backfilling, the Engineer shall be notified and an alternate material may be substituted. This substitution shall only take place upon the approval of the Engineer. Material specifications may be required from the Contractor for submission and review prior to approval by the Engineer. Payment for alternate material shall be agreed upon prior to furnishing and placement of material. Compact the backfill using the directed method as specified in 203.03.02.C. Restore the disturbed areas to original conditions, the conditions specified in the Contract, or as directed by the RE.

# 701.03.03 Rigid Metallic Conduit (Roadway)

THE FOLLOWING IS ADDED:

Trenches for conduit constructed under roadways shall be filled with NJDOT Class B concrete up to the top of the trench less two inches for hot mix asphalt restoration, and shall completely encase the newly laid conduit runs. Any conduit constructed under roadways that are cut through a striped crosswalk and that will not be restored with permanent hot mix asphalt within 24 hours of filling the trench with concrete will be restored with temporary asphalt. This temporary restoration will be constructed in accordance with Section 401 and shall be considered as part of this item and shall be included in the unit price.

It shall be the responsibility of the Contractor to obtain all approvals and inspections necessary to fulfill the respective utility company's requirements for installing the service conduit for electrical power service to the new traffic signal installation.

**701.03.08 Junction Boxes** THE FOLLOWING IS ADDED:

Junction box covers shall be stamped with the logo "Traffic Signal" and be green if installed in grassy areas, gray if installed in concrete areas, or as directed by the Engineer. Stamping and colors shall be supplied by the manufacturer only. Stamping and spraying of covers on-site or in the Contractor's yard is not acceptable. At the request of the Engineer, the Contractor shall supply all necessary invoices as proof the covers were prepared by the manufacturer.

Holes needed to accept the various size and types of conduit that terminate at the boxes shall be made in accordance with the requirements found in the project detail sheets. Holes made in any other manner than those specified on the detail sheets are not acceptable. The use of hammers, chisels, cut-off saws, etc., to make holes in the junction boxes will not be allowed.

Boxes that are damaged or broken by the Contractor while making holes for conduits shall either be repaired to the satisfaction of the Engineer or replaced without additional compensation.

All conduits terminating at splice boxes shall be sealed to prevent water from entering the boxes or vice versa. Duct Seal or other suitable material for this purpose shall be used. Material must be UL listed and meet the requirements of the National Electric Code.

#### **701.03.12 Foundations**

THE FOLLOWING IS ADDED:

Prior to any concrete placement, the Contractor shall obtain approval of the excavation and formwork for the foundations. Foundations poured without prior approval will not be considered for payment. Additionally, foundations poured improperly (i.e., location, depth, etc.) as determined by the Engineer, shall be completely removed, re-excavated, re-formed and re-poured. This shall be done without additional compensation.

If foundations are not poured the same day they are excavated, they shall be inspected by the Engineer to determine if the condition of the excavation is suitable for pouring. Any standing water in the bottom of the foundation shall be removed to a depth of one inch. Quarry processed stone shall then be placed in the excavation, as directed by the Engineer. No additional compensation will be made for this work but it shall be included as part of the unit price bid for this item.

The Contractor shall ensure that the proper grades are established for the foundations. The Contractor shall verify all finished grades with the Engineer prior to pouring any foundations.

## 701.03.14 Meter Cabinets

THE FOLLOWING IS ADDED:

Cabinets that are scratched, nicked or otherwise damaged shall be repaired or replaced to the satisfaction of the Engineer, without additional compensation. Irregular patterns and/or circular scratches are not acceptable.

#### 701.03.15 Cable and Wire

THE FOLLOWING IS ADDED TO SUBSECTION C:

# C. Connections and Coordination with Utility Service

It shall be the responsibility of the Contractor to obtain the respective utility company's requirements for establishing the required connections for electrical power service to the new traffic signal installations.

#### 701.04 MEASUREMENT AND PAYMENT

THE ENTIRE SUBSECTION HAS BEEN CHANGED TO:

The quantity of conduit, wire and traffic signal cable for which payment will be made will be the actual length installed for each type, measured in linear feet, in accordance with the plans and specifications.

Backfilling, soiling and seeding (as required), and restorative work will be considered as part of the installation for these items and shall be included in the unit price bid for these items. No additional compensation will be made for this work.

Measurement and Payment will be as follows:

Item	Pay Unit
2" Rigid Metallic Conduit, Earth (Item 10)	Linear Foot
17" x 30" Junction Box (Item 18)	Unit
24" x 36" Junction Box (Item 19)	Unit
Foundation, Type SFT (Item 15)	Unit
Foundation, Type SFT –H (Item 16)	Unit
Foundation, Type P-MC (Item 17)	Unit
Meter Cabinet, Type T (Item 20)	Unit
Ground Wire, No. 8 AWG (Item 13)	Linear Foot
Service Wire, No. 6 AWG (Item 14)	Linear Foot
4" Rigid Non-Metalic Conduit, Earth (Item 11)	Linear Foot
4" Rigid Non-Metalic Conduit, Roadway (Item 12)	Linear Foot

#### **SECTION 702 - TRAFFIC SIGNALS**

#### 702.03 CONSTRUCTION

# 702.03.01 Controller

THE FOLLOWING IS ADDED:

Controller shall be equipped with a uninterruptible power source (UPS) unit in each controller cabinet installed. The UPS shall be capable of running the intersection at full operation for 6-8 hours at 600 watts and shall be compatible with all other equipment. The UPS unit shall be self mounted and the battery pack shall be self mounted on the sidewall of the controller cabinet skirt.

The Contractor shall submit to the Engineer for review and approval, catalog cuts and a fully wired cabinet depicting placement of a fully equipped controller cabinet with UPS equipment and battery pack before final approval is given to proceed.

The controller shall include a GPS based time clock, which can supply a momentary relay closure to the controller. The time switch shall have the capability of automatically setting the day-of-week and time-of-day using GPS technology. The time switch shall reset to GPS day and time at least once per day.

# 702.03.04 Traffic Signal Cable

TABLE 702.03.04-1 IS CHANGED TO:

Color code traffic signal circuits and wires as follows:

Table 702.03.04-1 Conductor Cable Assignements							
	Function (Face)	Color	Number				
Two-Conductor Cable	Pedestrian Push Button	Black	1				
Two-Conductor Cable	Neutral	White	2				
	Don't Walk	Black	1				
Fig. O In the Collins	Walk	White	2				
Five-Conductor Cable	Neutral	Red	3				
(Pedestrian Signal)	Spare	Green	4				
	Spare	Orange	5				
	Red	Black	1				
	Green	White	2				
Ten-Conductor Cable	Yellow	Red	3				
(Traffic Signal)	Neutral	Green	4				
(All Heads Wired	Spare	Orange	5				
Separately)	Red	Blue	6				
Separately)	Green	White-Black	7				
	Yellow	Red-Black	8				
	Neutral	Green-Black	9				
	Spare	Orange-Black	10				

#### THE FOLLOWING SUBSECTIONS ARE ADDED

# 702.03.13 Single Member Arm and Shaft Assembly

This project specifies Single Member Arm and Shaft Assemblies specific to Union County. Single member arm and shaft assemblies consist of an aluminum arm (size as indicated on the plans), shaft, transformer base (size and type as indicated on the detail sheets), traffic signals, light fixtures, required mounting hardware, safety chains and other miscellaneous hardware. They are mounted on foundations, type SFT and SFT-H.

Assemblies designated TBn-2 indicate there are two free swinging end signals; a TBn-1 designation indicates there is one free-swinging end signal and a TBn-3 indicates there are three free swinging end signals, where "n" represents the size of the transformer base for the pole.

Single member arm and shaft assemblies shall be stamped to ensure proper mating. The Contractor shall ensure that the correct arm assembly is mated to the shaft.

All poles, bases and hardware shall be powder-coated black. The pole manufacturer shall apply the powder coating during fabrication, either in-house or as a contracted service. The cost for powder coating the poles, bases and other hardware shall be part of the unit price bid for the respective items under this contract.

Aluminum poles, arms and transformer bases shall be cleaned prior to the powder coat process. Arms and poles shall be cleaned by the immersion process using both an alkaline and acid bath before any fabrication welding. To facilitate adhesion of the powder, the arms and poles shall have a minimum 80-grit rotary-sanded satin brush finish.

The applied finish shall be a thermosetting powder coat. The powder resin shall be type TGIC polyester or approved equal. If necessary, the aluminum parts shall be preheated to sufficient temperature prior to the coating process to insure all water vapor is removed and to aid the fusing of the powder to the aluminum.

The powder shall be applied by electrostatic spraying. After spraying, the parts shall be oven cured for a cycle of 5 to 15 minutes at a temperature between 375-400 degrees Fahrenheit.

The final coating film thickness shall be between 3 and 5 mils.

Before shipping, the manufacturer shall perform a thorough visual inspection to assure there are no finish flaws. Any touch-up or recoating necessary shall be performed prior to shipping. A spray can of matching touch-up paint shall be supplied for every unit furnished and installed. Touch-up paint shall be delivered to the Engineer at the same time the poles, transformer bases and other hardware is delivered. The paint shall not be used to touch up scratches, scuffs or other marks made during handling by the Contractor or others. If any poles, bases or hardware are damaged, the Contractor shall be responsible for correcting the damage to the satisfaction of the Engineer.

All traffic signal heads are to be fabricated from polycarbonate material and are to be black in color. Lenses are to be provided for all signal faces. In instances where a left or right turn arrow is shown as part of a four-section head, the signal section shall be comprised of dual row LED, with separate colors for green and yellow. In instances where left or right turn arrow is shown as part of a three section head (i.e. protected operation), the signal section shall be comprised of triple row LED.

Full tunnel visors are to be provided for all signal faces except as noted on the plans and shall be black in color. **All traffic signal indications including pedestrian indications shall be illuminated by LED.** Incandescent bulbs will not be allowed. Pedestrian signal housings shall be black in color.

Where specified in the contract drawings, traffic signal faces shall be equipped with cutoff louvers, positioned horizontally.

# **702.03.14 Traffic Signal Assembly, Type MM-1 (Midmount on Mast Arm)**

This project specifies the use of a Traffic Signal Assembly, Type MM-1 consist of furnishing and installing a Polycarbonate traffic signal head (size and type as indicated on the plans), mounting bracket, fittings, hardware, wiring the head from the terminal block of the signal head to the transformer base, making the proper electrical connections and miscellaneous work as required for a completely operational signal. It is attached as a mid-mount signal on the single member arm and shaft assemblies. All mounting brackets and hardware shall be finished to match the color of the single member arm and shaft assemblies upon which they will be mounted.

These items will be constructed in accordance with the plans, details and Section 702 of the standard specifications.

# 702.03.15 Pedestrian Signal Assembly, Type W-1 and W-2

This project specifies the use of Pedestrian Signal Assemblies. Pedestrian Signal Assembly, Type W-1 (Countdown) consists of furnishing and installing a pedestrian signal head (size and type as indicated on the plans) with pole clamp mounting, mounting hardware and signal cable from the terminal block of the signal to the base of the standard. Pedestrian Signal Assembly, Type W-2 (Countdown) consists of furnishing and installing two pedestrian signal heads (size and type as indicated on the plans) with pole clamp mountings, mounting hardware and signal cables from the terminal block of the signal to the base of the standard. The signal head shall be

fabricated from polycarbonate material. The pedestrian signal assembly shall be LED, and shall have count-down capabilities.

These items will be constructed in accordance with the plans, details and Section 702 of the standard specifications.

# 702.03.16 Push Button Assembly

This project specifies the use of Push Button Assemblies. Push Button Assemblies shall consist of furnishing and installing the push button, housing, cable from the push button to the base of the standard, and instruction sign (labeled as signs "C" and "D" on the plans) along with mounting hardware. All push buttons shall operate on logic ground.

Push buttons shall be pressure sensitive with no moving parts and be highly resistant to vandalism and the natural elements. The body material shall be aluminum, powder coated yellow. The button shall be aluminum, hard nickel plated. The body of the button shall be equipped with an LED that activates during non-walk phases and stays lit until the beginning of the upcoming walk phase. This latching LED model requires a transformer (to be supplied by manufacturer with each unit) to be mounted in the pedestrian signal head and additional wiring from the transformer back to the push button. The labor and materials required to complete this additional wiring shall be included in the price bid for each Push Button unit.

These items will be constructed in accordance with the plans, details and Section 702 of the standard specifications.

All mounting fittings shall be specifically designed to function with the traffic control device installed and shall provide the proper clearance to aid and adjust the device. Fittings and mounting hardware not shown in the plan shall conform to the recommendations of the manufacturer.

# 702.03.17 Pedestal Assembly

This project specifies the use of Pedestal Assemblies. Pedestal Assemblies consist of furnishing and installing a pedestal pole with base and slip-fitter cap, miscellaneous fittings and hardware, traffic or pedestrian signal head or both and traffic signal cable from the terminal block of each face to the base of the standard.

# PEDESTAL ASSEMBLIES (HEIGHT 8 FEET)

Type	No. of Std.	No. of Ped.	No. of Prog.	No. of Spider
	Faces	Faces	Faces	Assemblies
P-1	1	0	0	0
PW-1	0	1	0	0
PW-2	0	2	0	1

# 702.03.19 Video Detection System with Modem

One video detector assembly shall be installed opposite each intersection approach under this contract. This item shall consist of furnishing and installing the video detector assembly on a traffic signal mast arm, mounting hardware, the drilling of the traffic signal mast arm, installing the grommet, video pigtail cable with round locking-type military style connector from the video detector assembly to the base of the traffic signal assembly and be incorporated into a video detection system as described hereafter. All assemblies shall be enclosed in weather tight aluminum housing.

All mounting brackets and hardware shall be finished to match the color of the single member arm and shaft assemblies upon which they will be mounted.

#### 701.04 MEASUREMENT AND PAYMENT

THE ENTIRE SUBSECTION HAS BEEN CHANGED TO:

Measurement and Payment will be as follows:

Item Controller, 8 Phase w/Battery Backup (Item 20) Pedestrian Signal Assembly, Type W-1(Item 22)	<i>Pay Unit</i> Unit Unit
Pedestrian Signal Assembly, Type W-2(Item 23)	Unit
Single Member Arm and Shaft Assembly,	
(Items 26, 27, 28, 29, and 30)	Unit
Traffic Signal Assembly, Type MM-1 (Item 31)	Unit
Traffic Signal Cable, 2 Conductor (Item 32)	Linear Feet
Traffic Signal Cable, 5 Conductor (Item 33)	Linear Feet
Traffic Signal Cable, 7 Conductor (Item 34)	Linear Feet
Traffic Signal Cable, 10 Conductor (Item 35)	Linear Feet
Push Button Assembly (Item 25)	Unit
Video Detection System (Item 36) Unit	

The quantity of traffic signal assemblies and traffic signal standards for which payment will be made will be for the actual number constructed, measured in units in accordance with the plans, details and specifications.

The unit price for Video Detection shall include providing wiring connections to the controller cabinet, using cable supplied by the manufacture. No separate payment for this wire will be made. Payment for this item will be made on a unit basis per intersection furnished and installed at the unit price bid for the items VIDEO DETECTION SYSTEM in the bidding sheets.

## **DIVISION 800 – LANDSCAPING**

# **SECTION 802 – TRIMMING AND REMOVING TREES**

## **802.04 MEASUREMENT AND PAYMENT**

THE ENTIRE SUBSECTION IS CHANGED TO:

The trimming of trees and shrubs and removal of shrubs that obstruct the view of the traffic signals and traffic signs within 250 feet of the intersection up to a height of 18' shall be in accordance with Section 802. Separate measurement and payment will not be made under this subsection for the trimming of trees and shrubs and removing of shrubs. Payment for work performed in accordance with Section 802 shall be included in the lump sum price bid for the item, CLEARING SITE.

Measurement and Payment will be as follows:

Item Pay Unit
Tree Removal, Over 36" Diameter (Item 2) Unit

### **SECTION 804 - TOPSOILING**

#### **804.04 MEASUREMENT AND PAYMENT**

THE ENTIRE SECTION IS CHANGED TO:

Measurement and payment for topsoil shall be made under the item, TOPSOIL, 4" THICK. Topsoil required for grass restoration as a result of grass areas disturbed by construction operations such as foundations, conduit runs, junction boxes, curb, sidewalk or for demolished items shall not be included under this pay item. Payment for restoration in these areas shall be included as part of their respective construction items.

Measurement and Payment will be as follows:

ItemPay UnitTopsoil, 4" Thick (Item 47)Square Yard

## **SECTION 806 - FERTILIZING AND SEEDING**

# 806.04 MEASUREMENT AND PAYMENT

THE ENTIRE SECTION IS CHANGED TO:

Measurement and payment for fertilizing and seeding shall be made under the item, FERTILIZING AND SEEDING. Fertilizing and seeding required for grass restoration as a result of grass areas disturbed by construction operations such as foundations, conduit runs, junction boxes, curb, sidewalk or for demolished items shall not be

included under this pay item. Payment for restoration in these areas shall be included as part of their respective construction items.

Payment will not be made for areas of fertilizing and seeding disturbed by Construction Operations, beyond the prescribed grading limits in islands and medians, and between prescribed grading limits and the right-of-way line, except as follows:

- A 10-foot work strip from the toe of slope and a 15-foot strip from the top of slope or adjacent to drainage ditches constructed under this Contract.
- All areas within the right-of-way limits approved for storage of topsoil.
- All areas designated for preparation of existing soil as specified under Section 803.

Measurement and Payment will be as follows:

ItemPay UnitFertilizing and Seeding (Item 48)Square Yard

#### **SECTION 809 – MULCHING**

### 809.04 MEASUREMENT AND PAYMENT

THE ENTIRE SECTION IS CHANGED TO:

Measurement and payment for mulching shall be made under the item, MULCHING. Mulching required for grass restoration as a result of grass areas disturbed by construction operations such as foundations, conduit runs, junction boxes, curb, sidewalk or for demolished items shall not be included under this pay item. Payment for restoration in these areas shall be included as part of their respective construction items.

Payment will not be made for areas of mulching disturbed by Construction Operations, beyond the prescribed grading limits in islands and medians, and between prescribed grading limits and the right-of-way line, except as follows:

- A 10-foot work strip from the toe of slope and a 15-foot strip from the top of slope or adjacent to drainage ditches constructed under this Contract.
- All areas within the right-of-way limits approved for storage of topsoil.
- All areas designated for preparation of existing soil as specified under Section 803.

Measurement and Payment will be as follows:

ItemPay UnitMulching (Item 49)Square Yard

# **COUNTY OF UNION BOARD OF CHOSEN FREEHOLDERS**

# INTERSECTION IMPROVEMENTS, TOWN OF WESTFIELD

RAHWAY AVENUE AND LAMBERTS MILL ROAD (CR 606)

WEST BROAD STREET (CR 653) AND SCOTCH PLAINS AVENUE

COUNTY OF UNION, NEW JERSEY

**UNION COUNTY PROJECT NO. 2010-017** 

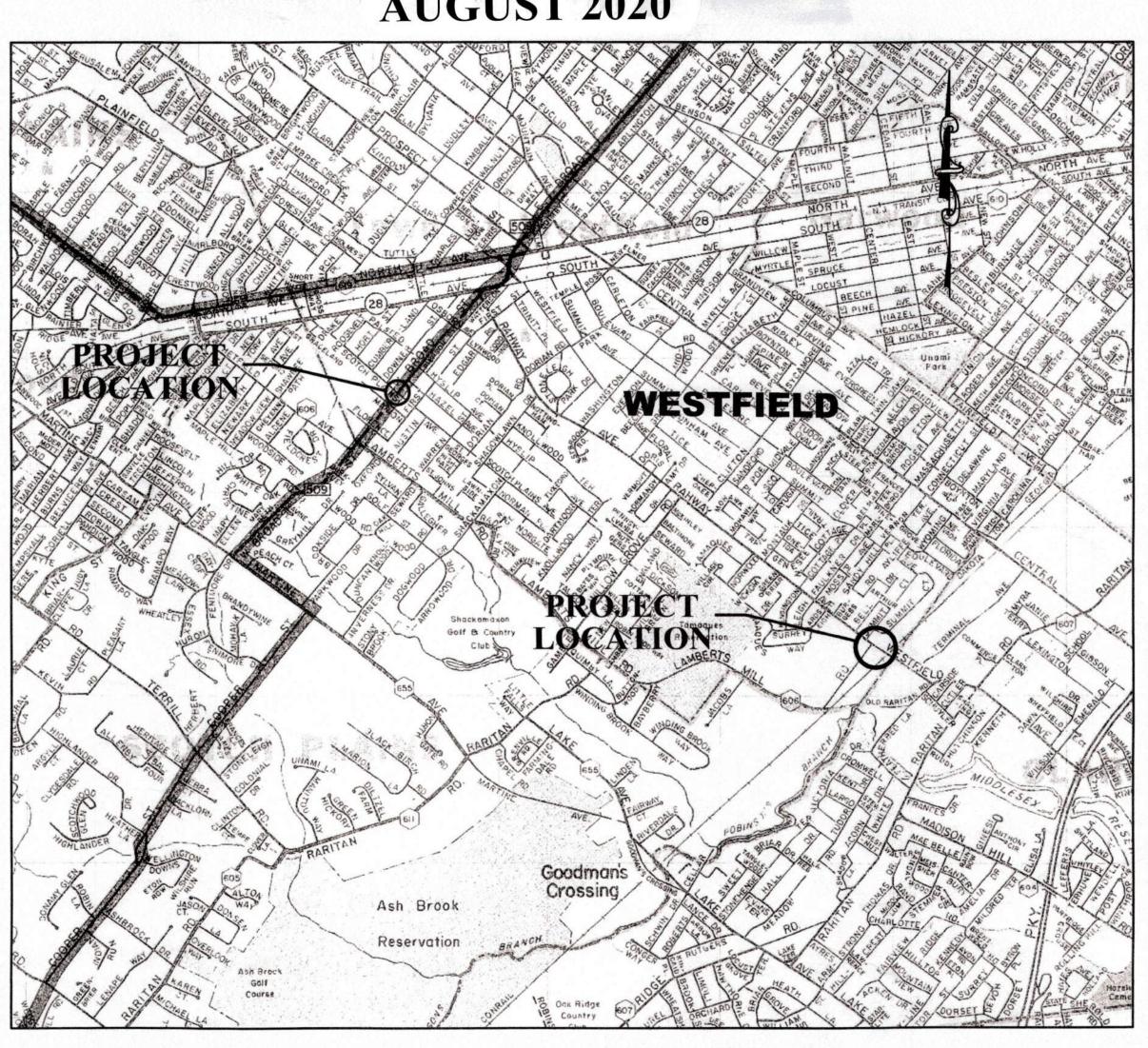
**AUGUST 2020** 

# PUBLIC UTILITIES

WATER	NEW JERSEY AMERICAN WATER
GAS	ELIZABETHTOWN GAS COMPANY
ELECTRIC	PUBLIC SERVICE ELECTRIC & GAS CO.
TELEPHONE	VERIZON COMMUNICATIONS - NJ
SANITARY	DEPARTMENT OF PUBLIC WORKS,
	TOWN OF WESTFIELD
CATV	COMCAST CABLEVISION OF NEW JERSEY
CONRAIL	NICK DELUCCA
	CONSTRUCTION ADMINISTRATION
	(856) 231-2450
	1000 HOWARD BOULEVARD,
	MOUNT LAUREL, NJ, 08054-2355.

# DESIGN TRAFFIC DATA

RAHWAY AVE. & LAMBERTS MILL ROAD (CR 6	06)
RAHWAY AVE. A.D.T. 2020	21,330
RAHWAY AVE. A.D.T. 2040	26,020
LAMBERTS MILL RD. (CR 606) A.D.T. 2020	15,090
LAMBERTS MILL RD. (CR 606) A.D.T. 2040	18,420
WEST DOOAD ST (OD SEZ) & COSTOU DI AINIS	- AVE.
WEST BROAD ST. (CR 653) & SCOTCH PLAINS	S AVE.:
WEST BROAD ST. (CR 653) A.D.T. 2020	4,920
WEST BROAD ST. (CR 653) A.D.T. 2040	6,010
SCOTCH PLAINS AVE. A.D.T. 2020	8,200
SCOTCH PLAINS AVE. A.D.T. 2040	10,010



# KEY MAP NOT TO SCALE

THE NJDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION

EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS IS FURNISHED BY THE UTILITY COMPANIES AND THE ACCURACY THEREOF IS NOT THE RESPONSIBILITY OF PENNONI ASSOCIATES INC. IT IS THE RESPONSIBILITY OF THE OWNER AND/OR CONTRACTOR TO CALL 1-800-272-1000 FOR FIELD LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

OF 2007 WITH AMENDMENTS THERETO TO GOVERN

# INDEX OF SHEETS

SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2	ESTIMATE OF QUANTITIES
3	LEGEND AND GENERAL NOTES
4-5	CONSTRUCTION PLANS
6-7	ELECTRICAL PLANS
8	TIMING PLAN
9-10	TRAFFIC SIGNING AND STRIPING PLANS
11-12	TRAFFIC SIGNAL PLANS
13	CURB RAMP DETAILS
14-37	CONSTRUCTION DETAILS

2016 ARE APPLICABLE TO THIS PROJECT EXCEPT FOR THOSE DETAILS CONTAINED HERE IN.

RECOMMENDED BY: \_

KRIS MCALOON, P.E.

TOWN OF WESTFIELD ENGINEER, UNION COUNTY

RECOMMENDED BY: SHELLEY BRINDLE

TOWN OF WESTFIELD MAYOR, UNION COUNTY

RECOMMENDED BY: \_

THOMAS O. MINEO, P.E. COUNTY ENGINEER, UNION COUNTY

APPROVED BY: Gelen To Comment

EDWARD T OATMAN

COUNTY MANAGER, UNION COUNTY

COVER SHEET

MUNICIPALITY: TOWN OF WESTFIELD

COUNTY: UNION

DRAWN BY: RME PENNONI ASSOC. INC. CONSULTING ENGINEERS AS NOTED CHECKED BY: SDS BETH-ANN M. GRASSO, P.E. 08/03/20 1 LAMBERTS MILL ROAD REVISIONS NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04312100

# ESTIMATION OF QUANTITIES

PAY				PLAN	IF AND			DIST	TRIBUTION:	PLAN SHE	ET QUANTI	TY	
ITEM	DESCRIPTION	UNIT	CONTRACT QUANTITY	SHEET	WHERE	AS-BUILT QUANTITY	CONSTRUC	CONSTRUCTION PLANS		ELECTRICAL PLANS		TRAFFIC SIGNING & STRIPING PLANS	
NO.				TOTALS	DIRECTED	30/111111	T0501	T0502	T2001	T2002	T1001	T1002	
1	CLEARING SITE	LUMP SUM											
3	TRAFFIC CONTROL  TREE REMOVAL, OVER 36" DIAMETER	LUMP SUM UNIT	1	1				1					
4	NO ITEM	ONT	'	<u>'</u>				<u>'</u>					
 5	NO ITEM												
6	NO ITEM												
7	CONSTRUCTION LAYOUT	LUMP SUM											
8	MAST ARM SIGNS, TYPE SF	SF	6	6					6				
9	MAST ARM SIGNS, TYPE DF	SF	51	51					18	33			
10	2" RIGID METALLIC CONDUIT, EARTH	LF	51	51					16	35			
11	4" RIGID NON-METALLIC CONDUIT, EARTH	LF	500	500					400	100			
	4" RIGID NON-METALLIC, ROADWAY	LF	360	360					120	160			
	GROUND WIRE, NO. 8 AWG	LF	840	840					530	310			
	SERVICE WIRE, NO. 6 AWG	LF	115	115					50	65			
	FOUNDATIONS, TYPE SET II	UNIT	5	5					2	3			
	FOUNDATIONS, TYPE D. MC	UNIT	3	3					2	1 1			
	FOUNDATIONS, TYPE P-MC	UNIT	2	9		<del>                                     </del>			1	1 1			
	17" X 30" JUNCTION BOXES  24" X 36" JUNCTION BOXES	UNIT	9	<del>У</del>		<del>                                     </del>			<u> </u>	4			
	CONTROLLER ASSEMBLIES, 8 PHASE W/ BATTERY BACKUP	UNIT	2	<u> </u>		+			<u> </u>	1		-	
	METER CABINETS, TYPE T	UNIT	2	2 2		+			1	1		1	
	PEDESTRIAN SIGNAL ASSEMBLIES, TYPE W-1	UNIT	2	2		+ -			<u> </u>	2			
	PEDESTRIAN SIGNAL ASSEMBLIES, TYPE W-2	UNIT	1	1		+				1			
	NO ITEM	JINI	·	·		†				<u> </u>		1	
	PEDESTRIAN PUSH BUTTON W/ R10-3e(MOD)	UNIT	2	2		†				2			
	SINGLE MEMBER ARM & SHAFT ASSEMBLY, UC-SMA15-TB2-1	UNIT	1	1					1				
27	SINGLE MEMBER ARM & SHAFT ASSEMBLY, UC-SMA15-TB2-2	UNIT	1	1					1				
28	SINGLE MEMBER ARM & SHAFT ASSEMBLY, UC-SMA20-TB2-2	UNIT	3	3						3			
29	SINGLE MEMBER ARM & SHAFT ASSEMBLY, UC-SMA25-TB2-1	UNIT	1	1					1				
30	SINGLE MEMBER ARM & SHAFT ASSEMBLY, UC-SMA25-TB2-2	UNIT	2	2					1	1			
31	TRAFFIC SIGNAL ASSEMBLIES, TYPE MM-1	UNIT	7	7					3	4			
32	TRAFFIC SIGNAL CABLE, 2 CONDUCTOR	LF	150	150						150			
33	TRAFFIC SIGNAL CABLE, 5 CONDUCTOR	LF	260	260						260			
34	TRAFFIC SIGNAL CABLE, 7 CONDUCTOR	LF	430	430					430				
35	TRAFFIC SIGNAL CABLE, 10 CONDUCTOR	LF	2715	2715					1165	1550			
36	VIDEO DETECTION SYSTEM	UNIT	2	2					1	1			
	POST MOUNTED SIGNS	SF	48	48							34	14	
	TRAFFIC MARKINGS, LINES, LONG LIFE THERMOPLASTIC	LF	5389	5389							2539	2850	
39	TRAFFIC MARKINGS, SYMBOLS, LONG LIFE THERMOPLASTIC	SF	172	172						-	172		
	REMOVAL OF TRAFFIC STRIPES AND MARKINGS	LF	1630	1630				7		-	1130	500	
	HOT MIX ASPHALT PAVEMENT REPAIR	TONS	3 36	3 		<del> </del>		3 36				<u> </u>	
	10" X VARIABLE HEIGHT VERTICAL CONCRETE CURB GRANITE CURB	LF LF	20	<u>36</u> 20		<del> </del>	20	30		-		-	
	RESET GRANITE CURB	LF	88	88			10	78					
	CONCRETE SIDEWALK, 4" THICK	SY	71	71		+	10	78		+			
	DETECTABLE WARNING SURFACES	SY	24	24		+		24				<del> </del>	
47	TOPSOILING, 4" THICK	SY	473	473		<del> </del>	426	47				<del> </del>	
	FERTILIZING AND SEEDING	SY	473	473		†	426	47					
	STRAW MULCHING	SY	473	473		†	426	47				1	
	EXCAVATION, TEST PIT	CY											
51	EXCAVATION, UNCLASSIFIED	CY	11	11			2	9					
52	NO ITEM											<u> </u>	
53	HOT MIX ASPHALT 12.5 H64 SURFACE COURSE	TONS	84	84			10	74					
54	TACK COAT	GAL	29	29			6	23					
	NO ITEM												
55	OUDD AND OUTTED	LF	68	68			68						
	CURB AND GUTTER		1					<del>'</del>					
56 57	RESET FENCE	LF	35	35			35						
56 57 58								2 455					

/Pennoni/

QUANTITIES PO

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# NOTES

- 1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND PRESERVE THE TRUE LOCATION AND EXTENT OF ALL PUBLIC AND PRIVATE UNDERGROUND AND SURFACE UTILITIES AND STRUCTURES WHETHER OR NOT SHOWN ON THIS PLAN. CONTRACTOR SHALL REPAIR OR REPLACE AT HIS EXPENSE ANY THAT HE DAMAGES. CONTRACTOR TO CALL NEW JERSEY ONE CALL AT 1-800-272-1000 FOR A MARKOUT 3 BUSINESS DAYS PRIOR TO EXCAVATION.
- 2. THE CONTRACTOR SHALL STAKEOUT THE LOCATIONS OF ALL FOUNDATIONS AND JUNCTION BOXES FOR THE APPROVAL OF THE COUNTY ENGINEER PRIOR TO THE EXCAVATION.
- 3. SIGNS, SIGNALS AND PAVEMENT MARKINGS SHALL CONFORM TO THE CURRENT "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS".
- 4. ALL CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM WITH NEW JERSEY DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2007", AS SUPPLEMENTED AND AMENDED.
- 5. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), LOCAL CODES AND REGULATIONS.
- 6. IF NECESSARY THE CONTRACTOR SHALL REMOVE AND TRIM AN 18 FOOT VERTICAL CLEARANCE OF TREES. ALL COST FOR THIS WORK SHALL BE INCLUDED UNDER THE ITEM "CLEARING SITE".
- 7. STRIPING SHALL INCLUDE 4" WIDE WHITE SHOULDER LINES AT 12' (UNLESS OTHERWISE NOTED, SEE STRIPING PLAN FOR DETAILS) FROM CENTERLINE OF ROADWAY. THE CONTRACTOR SHALL LEAVE THE APPROPRIATE GAP IN CENTERLINE AND SHOULDER STRIPING AT ALL SIDE STREETS.
- 8. EXISTING ASPHALT CONCRETE/PAVEMENT AND/OR DRIVEWAYS SHALL BE CUT AND REMOVED IN SUCH A MANNER SO AS NOT TO TEAR, BULGE OR DISPLACE ADJACENT PAVEMENT. EDGES SHALL BE CLEAN AND VERTICAL. ALL CUTS SHALL BE PARALLEL OR PERPENDICULAR TO THE DIRECTION OF TRAFFIC.
- 9. THE COST FOR THE REMOVING, RESETTING OR RECONSTRUCTION OF EXISTING MAILBOXES, SIGNS SHALL BE INCLUDED IN THE CLEARING SITE.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING UTILITY LOCATIONS IN THE FIELD FROM THE RESPECTIVE UTILITY COMPANIES AND/OR MUNICIPAL DEPARTMENTS OR UTILITY AUTHORITIES.
- 11. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING APPROPRIATE UTILITY COMPANIES AND/OR MUNICIPAL DEPARTMENTS OR UTILITY AUTHORITIES FOR THE RESETTING OF THE VALVE BOXES PRIOR TO THE FINAL PAVING. THERE WILL BE NO COST TO THE COUNTY FOR THE RESETTING OF VALVE BOXES.
- 12. ALL PRIVATE PROPERTY THAT MAY BE DISTURBED OR DAMAGED BY ANY CONSTRUCTION ACTIVITY SHALL BE RELOCATED, RESTORED, REPAIRED AND/OR REPLACED BY THE CONTRACTOR AT NO COST TO EITHER THE COUNTY OR THE OWNER OF THE PROPERTY. THERE WILL BE NO SEPARATE PAYMENT FOR THIS WORK OR MATERIALS, THE COST OF WHICH IS TO BE INCLUDED IN THE VARIOUS LINE ITEMS.
- 13. THE PRICE BID FOR THE ITEM ROADWAY EXCAVATION, UNCLASSIFIED SHALL INCLUDE ANY AND ALL COSTS ASSOCIATED WITH THE REMOVAL, TRANSPORTATION AND DISPOSAL OF ANY EXCESS MATERIAL OR CONSTRUCTION DEBRIS.
- 14. THE 2007 NJDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AS AMENDED, SHALL GOVERN THE DESIGN AND CONSTRUCTION OF THIS PROJECT.
- 15. THE NJDOT STANDARD ROADWAY CONSTRUCTION/TRAFIFIC CONTROL/BRIDGE CONSTRUCTION DETAILS BOOKLET DATED 2007 AND THE ELECTRICAL BUREAU STANDARD DETAILS (2016) AS AMENDED SHALL GOVERN THE CONSTRUCTION OF THIS PROJECT EXCEPT FOR THOSE DETAILS CONTAINED HEREIN.
- 16. CLEARING SITE ITEM INCLUDES BUT IS NOT LIMITED TO THE ITEMS LOCATED ON THE CONSTRUCTION PLAN.

# HIGH-VOLTAGE PROXIMITY ACT

THE CONTRACTOR IS NOTIFIED THAT ALL PROVISIONS OF THE HIGH-VOLTAGE PROXIMITY ACT, P.L. 1948, c. 249 AS AMENDED THROUGH MAY 20, 1987 SHALL BE STRICTLY ADHERED TO. THE CONTRACTOR SHALL ALSO ADHERE TO ALL PROVISIONS OF PART 1926.550, SUBPART N OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF DECEMBER, 1970. PARTICULAR ATTENTION IS DIRECTED TO THE PROVISIONS OF THE ABOVE ACT REQUIRED WARNING SIGNS, NOTIFICATION TO POWER COMPANY AND RESPONSIBILITY FOR SAFEGUARDS AND ALSO PROHIBITED ACTIVITY.

A COPY OF THE HIGH VOLTAGE PROXIMITY ACT IS AVAILABLE IN THE OFFICE OF THE COUNTY ENGINEER OR MAY BE OBTAINED FROM THE NEW JERSEY DEPARTMENT OF LABOR, DIVISION OF WORKPLACE STANDARDS, OFFICE OF SAFETY COMPLIANCE, CN386, TRENTON, N.J. 08625-0368.

NOTE:

BEFORE STARTING WORK, THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AND OTHER INTERESTED PARTIES OF THE SCHEDULE AND STARTING DATE. TRAFFIC CONTROL MUST BE MARKED BY THE CONTRACTOR, AND THE UTILITIES PROTECTED AS REQUIRED BY THE UTILITY COMPANIES.

# UTILITIES

PUBLIC SERVICE ELECTRIC AND GAS
VERIZON TELEPHONE COMPANY
ELIZABETHTOWN GAS COMPANY
N.J. AMERICAN WATER
TOWN OF WESTFIELD SEWER
TOWN OF WESTFIELD PUBLIC WORKS
COMCAST CABLE COMPANY
CONRAIL

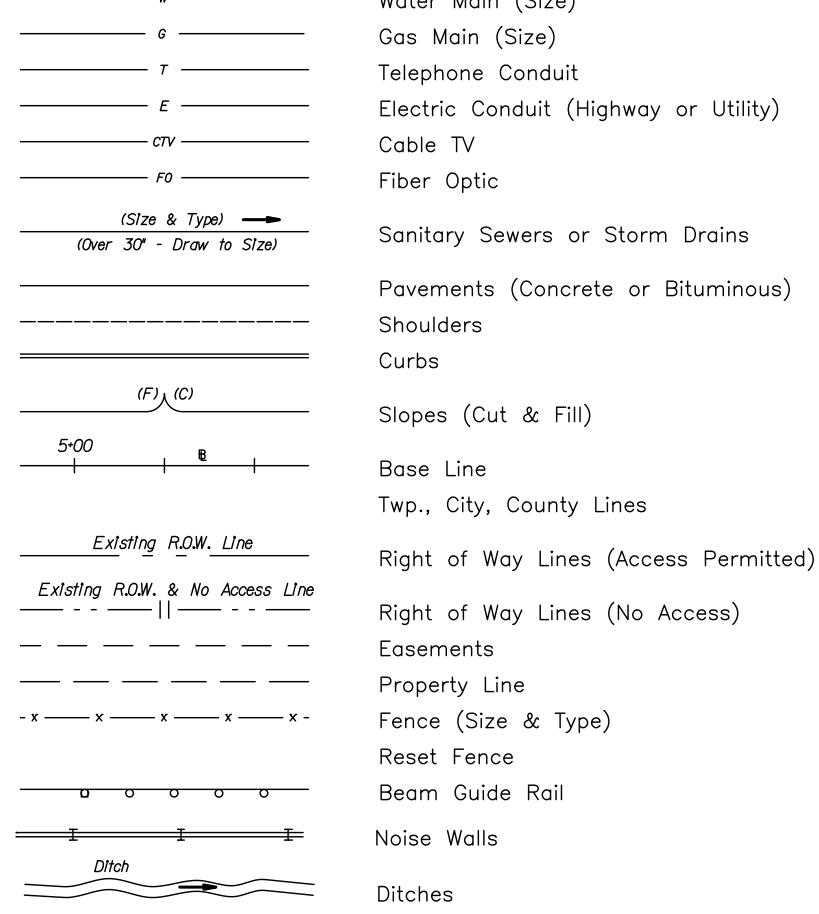
# UTILITY NOTE

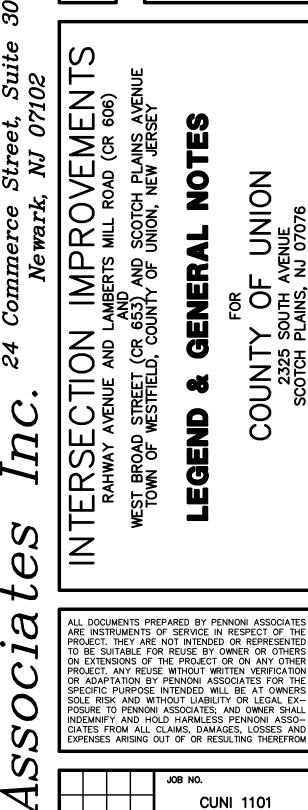
PRIOR TO CONSTRUCTION, CONTRACTOR SHALL OBTAIN A FIELD MARK—OUT OF SUBSURFACE UTILITIES.

CALL 1-800-272-1000

EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS IS FURNISHED BY THE UTILITY COMPANIES AND THE ACCURACY THEREOF IS NOT THE RESPONSIBILITY OF PENNONI ASSOCIATES INC. IT IS THE RESPONSIBILITY OF THE OWNER AND/OR CONTRACTOR TO CALL 1-800-272-1000 FOR FIELD LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

# SIGNAL LEGEND PROPOSED SIGNAL POLE VEHICULAR SIGNAL PEDESTRIAN SIGNAL PEDESTRIAN PUSH BUTTON AREA OF DETECTION TRAFFIC SIGN WITH POST OVERHEAD STREET NAME SIGN OVERHEAD SIGN Q UTILITY POLE CURB RAMP VIDEO DETECTOR **HYDRANT** LEGEND Water Main (Size) Gas Main (Size) Telephone Conduit Electric Conduit (Highway or Utility) Cable TV





/Pennoni

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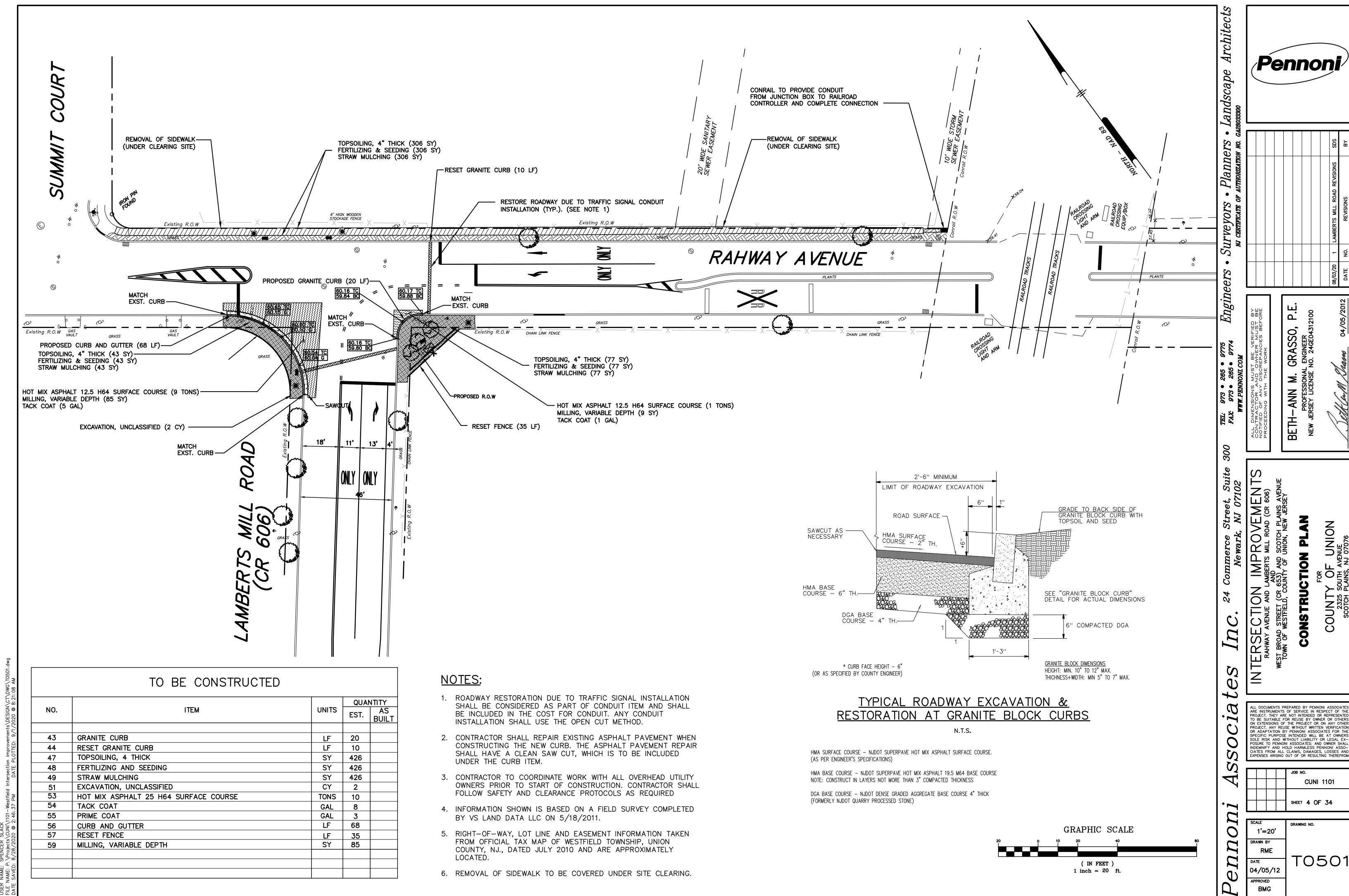
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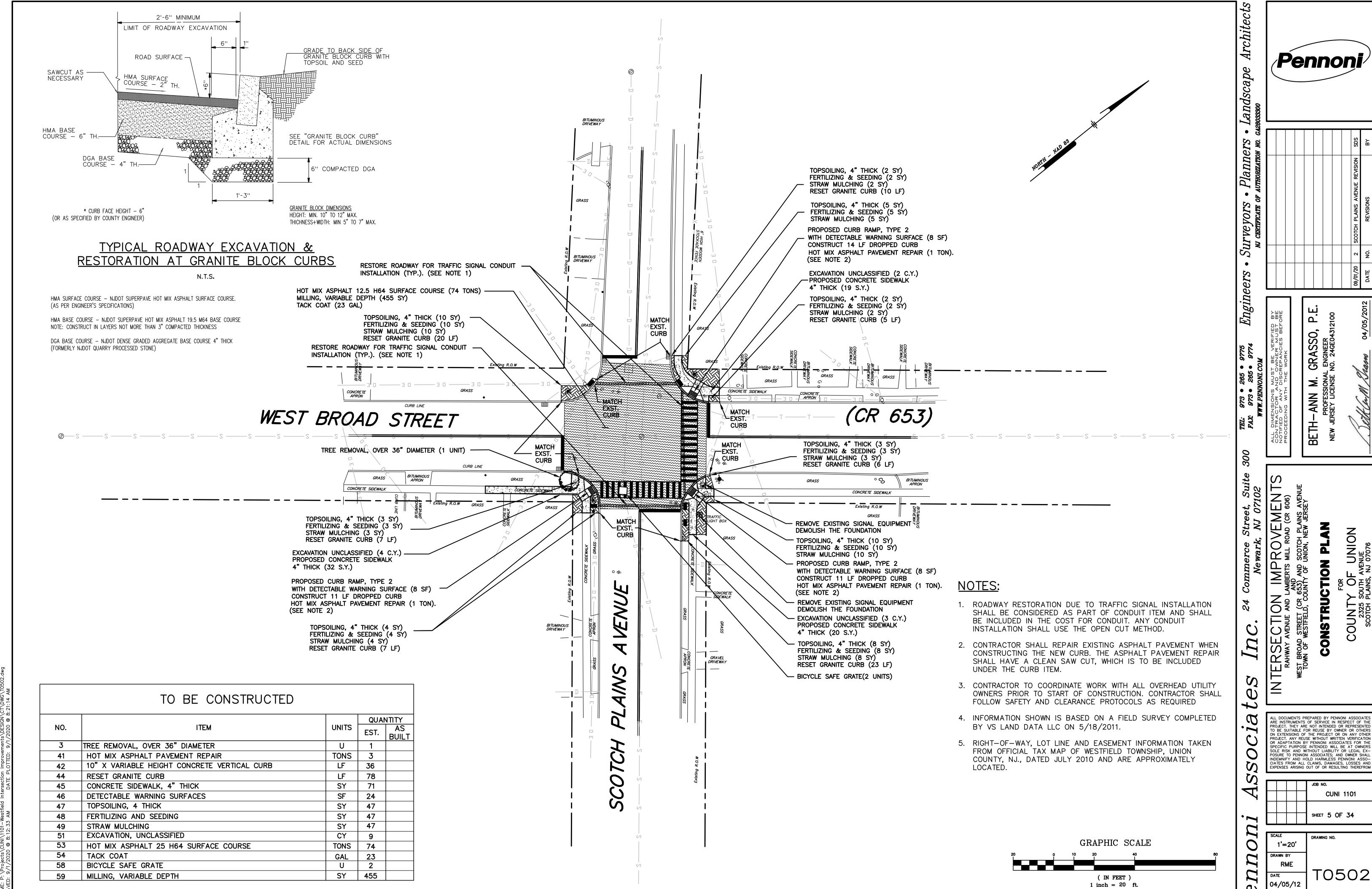
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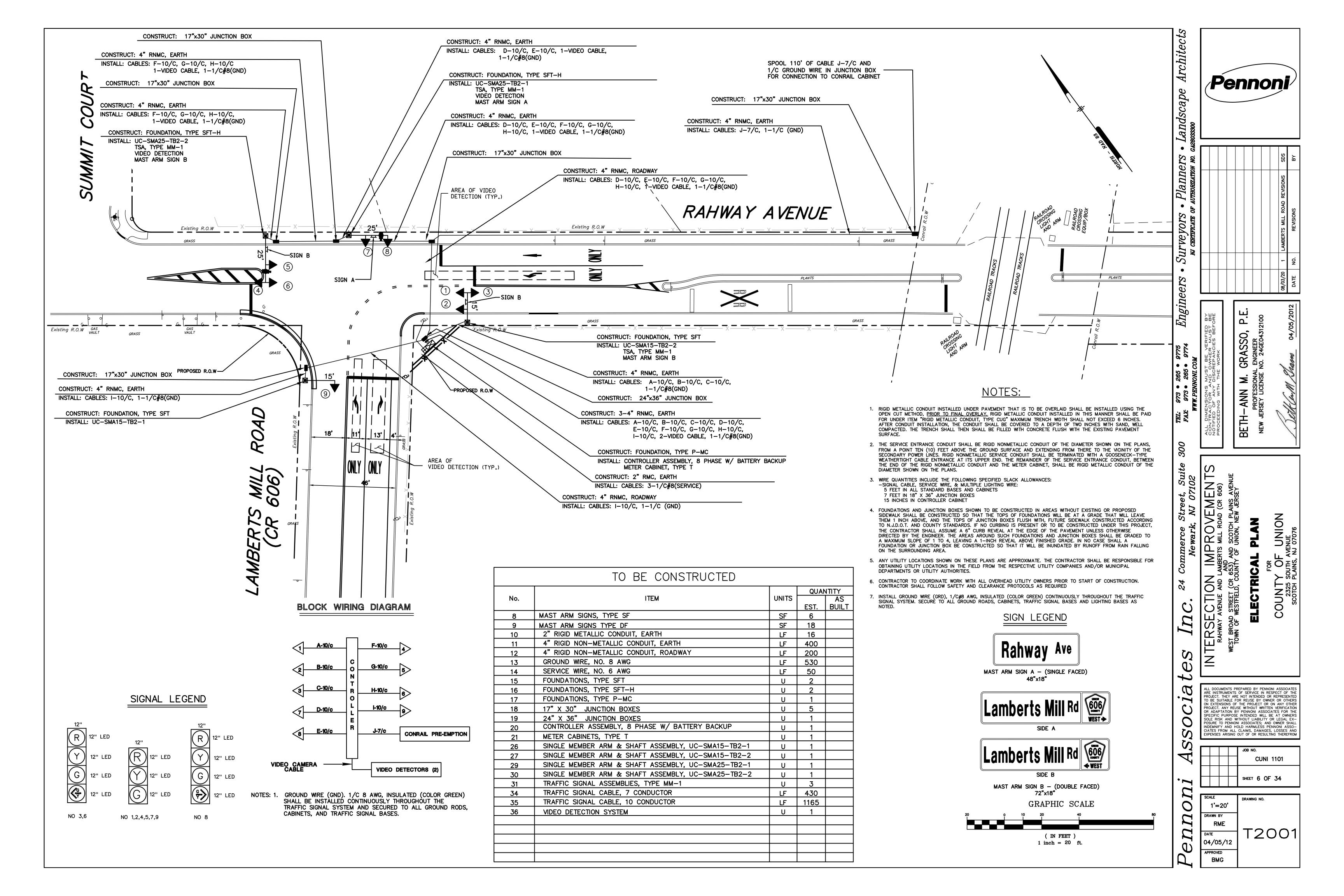
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APPROVED BMG

NAME: SPENCER SLACK NAME: P:\Projects\CUNI\1101—Westfield Intersection Improvements\DESIGN\CT\DWG`



# NOTES:

- RIGID METALLIC CONDUIT INSTALLED UNDER PAVEMENT THAT IS TO BE OVERLAID SHALL BE INSTALLED USING THE OPEN CUT METHOD, PRIOR TO FINAL OVERLAY. RIGID METALLIC CONDUIT INSTALLED IN THIS MANNER SHALL BE PAID FOR UNDER ITEM "RIGID METALLIC CONDUIT, TYPE CUG" MAXIMUM TRENCH WIDTH SHALL NOT EXCEED 6 INCHES. AFTER CONDUIT INSTALLATION, THE CONDUIT SHALL BE COVERED TO A DEPTH OF TWO INCHES WITH SAND, WELL COMPACTED. THE TRENCH SHALL THEN SHALL BE FILLED WITH CONCRETE FLUSH WITH THE EXISTING PAVEMENT
- THE SERVICE ENTRANCE CONDUIT SHALL BE RIGID NONMETALLIC CONDUIT OF THE DIAMETER SHOWN ON THE PLANS, FROM A POINT TEN (10) FEET ABOVE THE GROUND SURFACE AND EXTENDING FROM THERE TO THE VICINITY OF THE SECONDARY POWER LINES, RIGID NONMETALLIC SERVICE CONDUIT SHALL BE TERMINATED WITH A GOOSENECK-TYPE WEATHERTIGHT CABLE ENTRANCE AT ITS UPPER END. THE REMAINDER OF THE SERVICE ENTRANCE CONDUIT, BETWEEN THE END OF THE RIGID NONMETALLIC CONDUIT AND THE METER CABINET, SHALL BE RIGID METALLIC CONDUIT OF THE DIAMETER SHOWN ON THE PLANS.
- WIRE QUANTITIES INCLUDE THE FOLLOWING SPECIFIED SLACK ALLOWANCES: -SIGNAL CABLE, SERVICE WIRE, & MULTIPLE LIGHTING WIRE: 5 FEET IN ALL STANDARD BASES AND CABINETS 7 FEET IN 18" X 36" JUNCTION BOXES 15 INCHES IN CONTROLLER CABINET
- 4. FOUNDATIONS AND JUNCTION BOXES SHOWN TO BE CONSTRUCTED IN AREAS WITHOUT EXISTING OR PROPOSED SIDEWALK SHALL BE CONSTRUCTED SO THAT THE TOPS OF FOUNDATIONS WILL BE AT A GRADE THAT WILL LEAVE THEM 1 INCH ABOVE, AND THE TOPS OF JUNCTION BOXES FLUSH WITH, FUTURE SIDEWALK CONSTRUCTED ACCORDING TO N.J.D.O.T. AND COUNTY STANDARDS. IF NO CURBING IS PRESENT OR TO BE CONSTRUCTED UNDER THIS PROJECT, THE CONTRACTOR SHALL ASSUME A 6" CURB REVEAL AT THE EDGE OF THE PAVEMENT UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE AREAS AROUND SUCH FOUNDATIONS AND JUNCTION BOXES SHALL BE GRADED TO A MAXIMUM SLOPE OF 1 TO 4, LEAVING A 1-INCH REVEAL ABOVE FINISHED GRADE. IN NO CASE SHALL A FOUNDATION OR JUNCTION BOX BE CONSTRUCTED SO THAT IT WILL BE INUNDATED BY RUNOFF FROM RAIN FALLING ON THE SURROUNDING AREA.
- ANY UTILITY LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING UTILITY LOCATIONS IN THE FIELD FROM THE RESPECTIVE UTILITY COMPANIES AND/OR MUNICIPAL DEPARTMENTS OR UTILITY AUTHORITIES.
- CONTRACTOR TO COORDINATE WORK WITH ALL OVERHEAD UTILITY OWNERS PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL FOLLOW SAFETY AND CLEARANCE PROTOCOLS AS REQUIRED
- INSTALL GROUND WIRE (GRD), 1/C#8 AWG, INSULATED (COLOR GREEN) CONTINUOUSLY THROUGHOUT THE TRAFFIC SIGNAL SYSTEM. SECURÈ TO ALL GROUND ROADS, CABINETS, TRAFFIC SIGNAL BASES AND LIGHTING BASES AS

# SIGN LEGEND



MAST ARM SIGN A - (DOUBLE FACED) 60"x18"



SIDE B

MAST ARM SIGN B - (DOUBLE FACED) 72"x18"

MAST ARM SIGNS TYPE DF

GROUND WIRE, NO. 8 AWG

SERVICE WIRE, NO. 6 AWG

FOUNDATIONS, TYPE P-MC

METER CABINETS, TYPE T

VIDEO DETECTION SYSTEM

FOUNDATIONS, TYPE SFT-H

17" X 30" JUNCTION BOXES

FOUNDATIONS, TYPE SFT

2" RIGID METALLIC CONDUIT, EARTH

4" RIGID NON-METALIC CONDUIT, EARTH

4" RIGID NON-METALIC CONDUIT, ROADWAY

PEDESTRIAN SIGNAL ASSEMBLIES, TYPE W-1

PEDESTRIAN SIGNAL ASSEMBLIES, TYPE W-2

TRAFFIC SIGNAL ASSEMBLIES, TYPE MM-1

PUSH BUTTON ASSEMBLY W/R10-3e(MOD)

TRAFFIC SIGNAL CABLE, 2 CONDUCTOR

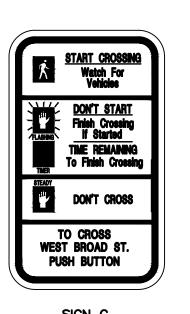
TRAFFIC SIGNAL CABLE, 5 CONDUCTOR

TRAFFIC SIGNAL CABLE, 10 CONDUCTOR

CONTROLLER ASSEMBLY, 8 PHASE W/ BATTERY BACKUP

SINGLE MEMBER ARM & SHAFT ASSEMBLY, UC-SMA20-TB2-2

SINGLE MEMBER ARM & SHAFT ASSEMBLY, UC-SMA25-TB2-2



SIGN C R10-3e(MOD) 9" x 15"

LF

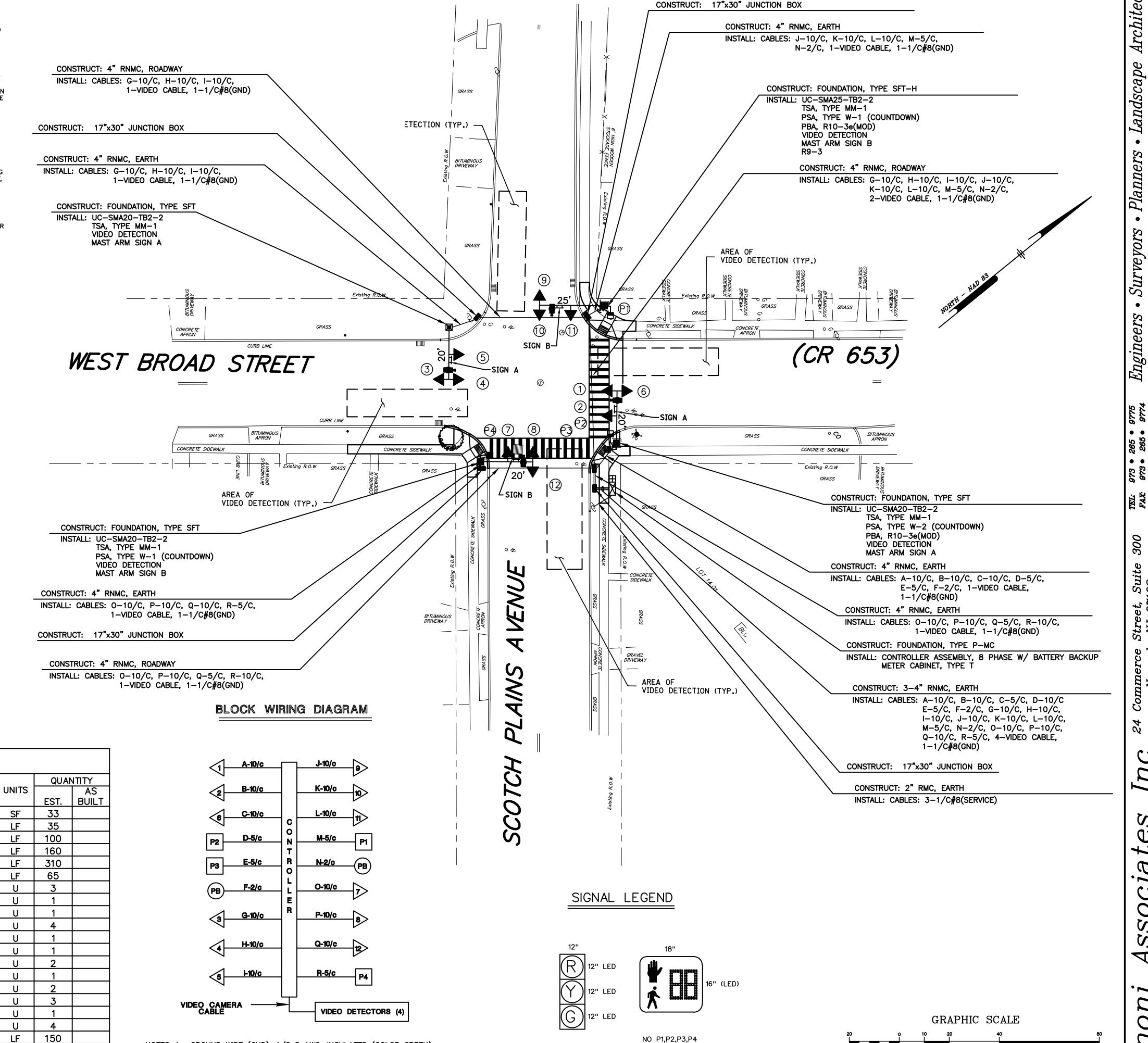
LF

260

1550

TO BE CONSTRUCTED

ITEM



GROUND WIRE (GND). 1/C 8 AWG, INSULATED (COLOR GREEN)

TRAFFIC SIGNAL SYSTEM AND SECURED TO ALL GROUND RODS,

SHALL BE INSTALLED CONTINUOUSLY THROUGHOUT THE

CABINETS, AND TRAFFIC SIGNAL BASES.

No.

13

14

15

16 17

20

25

30

35

NO P1,P2,P3,P4 NO 1,2,3,4 5,6,7,8, 9,10,11,12

( IN FEET )

1 inch = 20 ft.

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# RAHWAY AVENUE AND LAMBERTS MILL ROAD (CR 606)

		VARIAD		LE LENG				<del>- 11</del>			
	SIGNAL HEADS								SEC.)		
	PHASE	1,2,4	5	3,6	7	8					
		WITHOUT PEDESTRIAN ACTUATION									
A)	NB RAHWAY AVE. LEAD	R	G	←G/G	R	R/G→		5-29			
	CHANGE	R	G	←Y/G	R	R/Y→		3			
	CLEARANCE	R	G	G	R	R		2			
B)	RAHWAY AVE. ROW	G	G	G	R	R		33			
	CHANGE	Y	Υ	Y	R	R		3			
	CLEARANCE	R	R	R	R	R		2			
C)	LAMBERTS MILL ROAD ROW	R	R	R	G	G		5-13			
	CHANGE	R	R	R	Y	Y		3			
	CLEARANCE	R	R	R	R	R		2			
	EMERGENCY FLASH	Y	Y	Υ	R	R					
			RAILR	OAD PRE	E-EMP	TION					
D)	TRAIN CLEAR	R	G	←G/G	R	R		50			
· ·	CHANGE	R	Υ	←Y/Y	R	R		3			
	CLEARANCE	R	R	R	R	R		2			
E)	TRAIN HOLD	R	R	R	G	G		*			
	CHANGE	R	R	R	Y	Y		3			
	CLEARANCE	R	R	R	R	R		2			
	EMERGENCY FLASH	Y	Y	Y	R	R					

- THE MANUAL CONTROL IS TO REMAIN DISCONNECTED.
   THE MEMORY IS TO BE OFF.
   THE VEHICLE INTERVAL IS TO BE 2 SECONDS.

- 4. THE SIGNAL SHALL REST IN PHASE B.
- 5. PHASES A AND C MAY BE SKIPPED AND PHASE C MUST FOLLOW PHASE B.
- \* FOR DURATION OF PRE-EMPTION

# RAILROAD PRE-EMPTION NOTES:

- CONTROLLER TO BE EQUIPPED WITH RAILROAD PRE-EMPTION EQUIPMENT AND CONNECTED TO THE CONRAIL EQUIPMENT FOR THE RAHWAY AVENUE CROSSING
- THE SIGNAL, WHEN RAILROAD PRE-EMPTION ACTIVATED, SHALL TERMINATE ALL GREEN INDICATIONS IMMEDIATELY, FOLLOWED BY THE COMPLETE YELLOW AND RED CLEARANCE INTERVALS ACCORDINGLY, FOLLOWED BY THE GREEN INTERVAL FOR THE RAILROAD PREEMPTION PHASE.
- THE RAILROAD PRE-EMPTION SHALL ACTIVATE 20 SECONDS PRIOR TO THE ACTIVATION OF THE RAILROAD INDICATIONS AT THE CROSSING
- IF THE SIGNALS ARE IN EITHER YELLOW OR RED CLEARANCE, THE CLEARANCE TIMES SHALL BE COMPLETED BEFORE THE GREEN INTERVAL OF THE PRE-EMPTION PHASE OCCURS.
- IF THE SIGNAL IS IN PHASE A "GREEN" WHEN RAILROAD PRE-EMPTION ACTIVATES, THE RAHWAY AVENUE INDICATIONS SHALL REMAIN "GREEN" FOR THROUGH THE TRAIN CLEARANCE PHASE.
- UPON COMPLETION OF RAILROAD PRE-EMPTION PHASE D, IN RETURNING TO NORMAL OPERATION PHASE A SHALL FOLLOW.

# WEST BROAD STREET (CR 653) AND SCOTCH PLAINS

		VARIAB	LE CYC	LE LENC	STH					
		SIGNAL HEADS							TIME (SEC.)	
	PHASE	1-4	5-8	P1,P2	P3,P4					
			WITHOUT PEDESTRIAN ACTUATION							
A)	WEST BROAD ST. ROW	G	R	DW	W				13	
	PEDESTRIAN CLEARANCE	G	R	DW	FDW				16	
	CHANGE	Υ	R	DW	DW				3	
	CLEARANCE								2	
B)	SCOTCH PLAINS AVE. ROW	R	G	DW	DW				7-21	
	CHANGE	R	Υ	DW	DW				3	
	CLEARANCE	R	R	DW	DW				2	
	EMERGENCY FLASH	Y	R	DARK	DARK				_	
			WITH	PEDESTI	RIAN AC	TUATIO	V (SCO	TCH PLA	INS AVE	:)
D)	WEST BROAD ST. ROW	G	R	DW	W				13	
	PEDESTRIAN CLEARANCE	G	R	DW	FDW				16	
	CHANGE	Y	R	DW	DW				3	
	CLEARANCE	R	R	DW	DW				2	
E)	SCOTCH PLAINS AVE. ROW	R	G	w	DW				7–12	
<u> </u>	PEDESTRIAN CLEARANCE	R	G	FDW	DW				9	
	CHANGE	R	Υ	DW	DW				3	
	CLEARANCE	R	R	DW	DW				2	
	EMERGENCY FLASH	Y	Y	DARK	DARK				_	

- 1. THE MANUAL CONTROL IS TO REMAIN DISCONNECTED.
  2. THE MEMORY IS TO BE OFF.
- 3. THE VEHICLE INTERVAL IS TO BE 2 SECONDS.
  4. THE SIGNAL SHALL REST IN PHASE A.
- 5. PHASES B MAY BE SKIPPED.

*Pennoni* 

NTERSECTION IM RAHWAY AVENUE AND LAMBER AND WEST BROAD STREET (CR 653) AND TOWN OF WESTFIELD, COUNTY ( SIGN

COUNT 2325 SCOTCH

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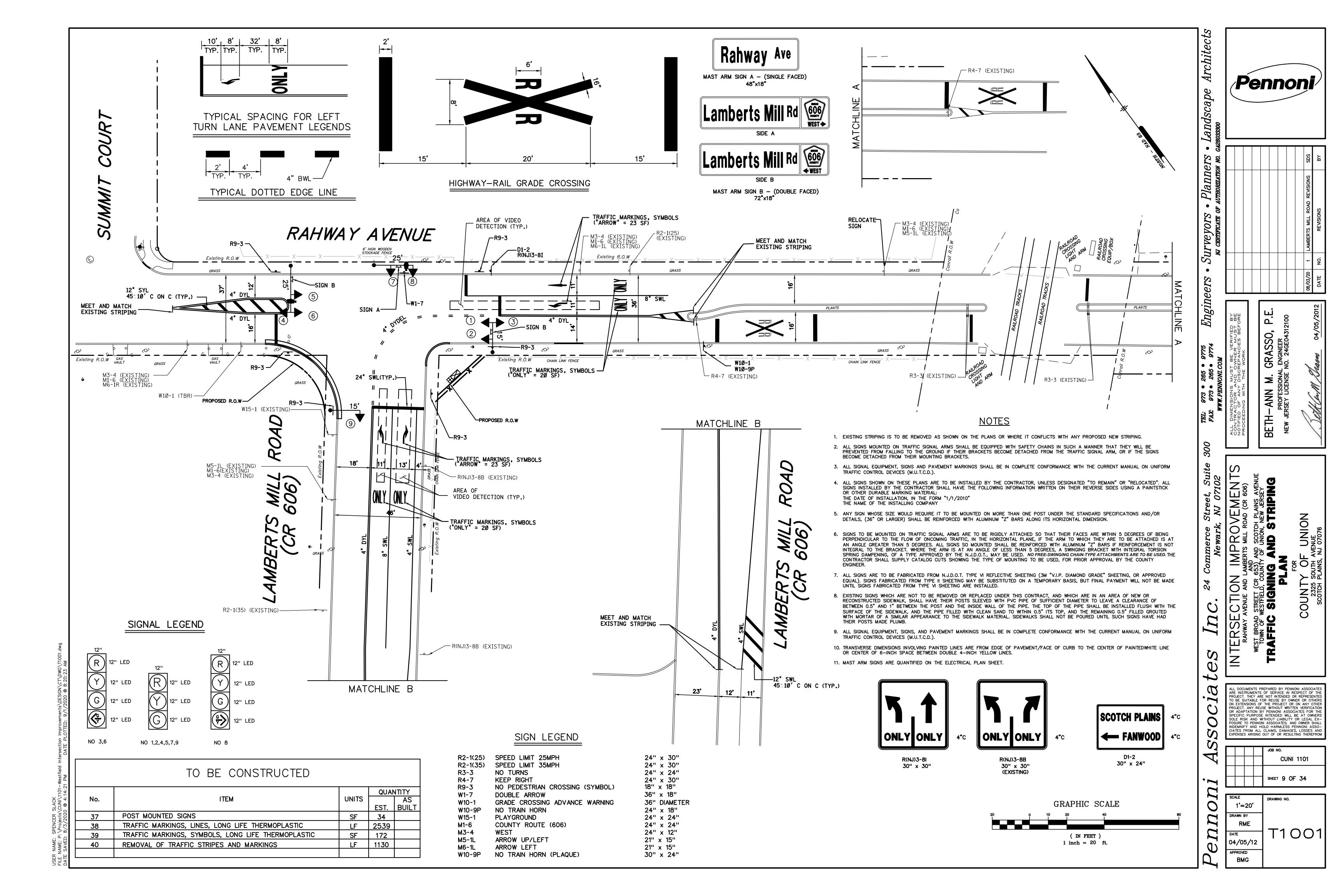
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**CUNI 1101** SHEET 8 OF 34 DRAWING NO.

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( IN FEET )

1 inch = 20 ft.



# <u>NOTES</u>

- 1. EXISTING STRIPING IS TO BE REMOVED AS SHOWN ON THE PLANS OR WHERE IT CONFLICTS WITH ANY PROPOSED NEW STRIPING.
- 2. ALL SIGNS MOUNTED ON TRAFFIC SIGNAL ARMS SHALL BE EQUIPPED WITH SAFETY CHAINS IN SUCH A MANNER THAT THEY WILL BE PREVENTED FROM FALLING TO THE GROUND IF THEIR BRACKETS BECOME DETACHED FROM THE TRAFFIC SIGNAL ARM, OR IF THE SIGNS BECOME DETACHED FROM THEIR MOUNTING BRACKETS.
- 3. ALL SIGNAL EQUIPMENT, SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLETE CONFORMANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.).
- 4. ALL SIGNS SHOWN ON THESE PLANS ARE TO BE INSTALLED BY THE CONTRACTOR, UNLESS DESIGNATED "TO REMAIN" OR "RELOCATED". ALL SIGNS INSTALLED BY THE CONTRACTOR SHALL HAVE THE FOLLOWING INFORMATION WRITTEN ON THEIR REVERSE SIDES USING A PAINTSTICK OR OTHER DURABLE MARKING MATERIAL: THE DATE OF INSTALLATION, IN THE FORM "1/1/2010" THE NAME OF THE INSTALLING COMPANY
- 5. ANY SIGN WHOSE SIZE WOULD REQUIRE IT TO BE MOUNTED ON MORE THAN ONE POST UNDER THE STANDARD SPECIFICATIONS AND/OR DETAILS, (36" OR LARGER) SHALL BE REINFORCED WITH ALUMINUM "Z" BARS ALONG ITS HORIZONTAL DIMENSION.
- 6. SIGNS TO BE MOUNTED ON TRAFFIC SIGNAL ARMS ARE TO BE RIGIDLY ATTACHED SO THAT THEIR FACES ARE WITHIN 5 DEGREES OF BEING PERPENDICULAR TO THE FLOW OF ONCOMING TRAFFIC, IN THE HORIZONTAL PLANE, IF THE ARM TO WHICH THEY ARE TO BE ATTACHED IS AT AN ANGLE GREATER THAN 5 DEGREES. ALL SIGNS SO MOUNTED SHALL BE REINFORCED WITH ALUMINUM "Z" BARS IF REINFORCEMENT IS NOT INTEGRAL TO THE BRACKET. WHERE THE ARM IS AT AN ANGLE OF LESS THAN 5 DEGREES, A SWINGING BRACKET WITH INTEGRAL TORSION SPRING DAMPENING, OF A TYPE APPROVED BY THE N.J.D.O.T., MAY BE USED. NO FREE-SWINGING CHAIN-TYPE ATTACHMENTS ARE TO BE USED. THE CONTRACTOR SHALL SUPPLY CATALOG CUTS SHOWING THE TYPE OF MOUNTING TO BE USED, FOR PRIOR APPROVAL BY THE COUNTY ENGINEER.
- 7. ALL SIGNS ARE TO BE FABRICATED FROM N.J.D.O.T. TYPE VI REFLECTIVE SHEETING (3M "V.I.P. DIAMOND GRADE" SHEETING, OR APPROVED EQUAL). SIGNS FABRICATED FROM TYPE II SHEETING MAY BE SUBSTITUTED ON A TEMPORARY BASIS, BUT FINAL PAYMENT WILL NOT BE MADE UNTIL SIGNS FABRICATED FROM TYPE VI SHEETING ARE INSTALLED.
- EXISTING SIGNS WHICH ARE NOT TO BE REMOVED OR REPLACED UNDER THIS CONTRACT, AND WHICH ARE IN AN AREA OF NEW OR RECONSTRUCTED SIDEWALK, SHALL HAVE THEIR POSTS SLEEVED WITH PVC PIPE OF SUFFICIENT DIAMETER TO LEAVE A CLEARANCE OF BETWEEN 0.5" AND 1" BETWEEN THE POST AND THE INSIDE WALL OF THE PIPE. THE TOP OF THE PIPE SHALL BE INSTALLED FLUSH WITH THE SURFACE OF THE SIDEWALK, AND THE PIPE FILLED WITH CLEAN SAND TO WITHIN 0.5" ITS TOP, AND THE REMAINING 0.5" FILLED GROUTED WITH MORTAR OF A SIMILAR APPEARANCE TO THE SIDEWALK MATERIAL. SIDEWALKS SHALL NOT BE POURED UNTIL SUCH SIGNS HAVE HAD THEIR POSTS MADE PLUMB.
- 9. ALL SIGNAL EQUIPMENT, SIGNS, AND PAVEMENT MARKINGS SHALL BE IN COMPLETE CONFORMANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.).
- 10. TRANSVERSE DIMENSIONS INVOLVING PAINTED LINES ARE FROM EDGE OF PAVEMENT/FACE OF CURB TO THE CENTER OF PAINTEDWHITE LINE OR CENTER OF 6-INCH SPACE BETWEEN DOUBLE 4-INCH YELLÓW LINES.
- 11. MAST ARM SIGNS ARE QUANTIFIED ON THE ELECTRICAL PLAN SHEET

# SIGN LEGEND

R2-1	SPEED LIMIT	24" x 30"
R5-2	NO TRUCKS (SYMBOL)	24" x 24"
R5-2A	NO TRUCKS	24" x 24"
R7-1	NO PARKING	12" x 18"
R7-11	NO PARKING HERE TO CORNER	12" x 18"
R9-3	NO PEDESTRIAN CROSSING (SYMBOL)	18" x 18"

# Scotch Plains Ave

MAST ARM SIGN A - (SINGLE FACED) 60"x18"





MAST ARM SIGN B - (DOUBLE FACED) 72"x18"

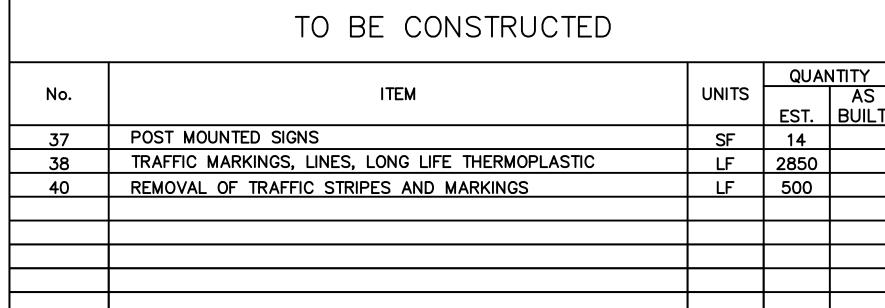


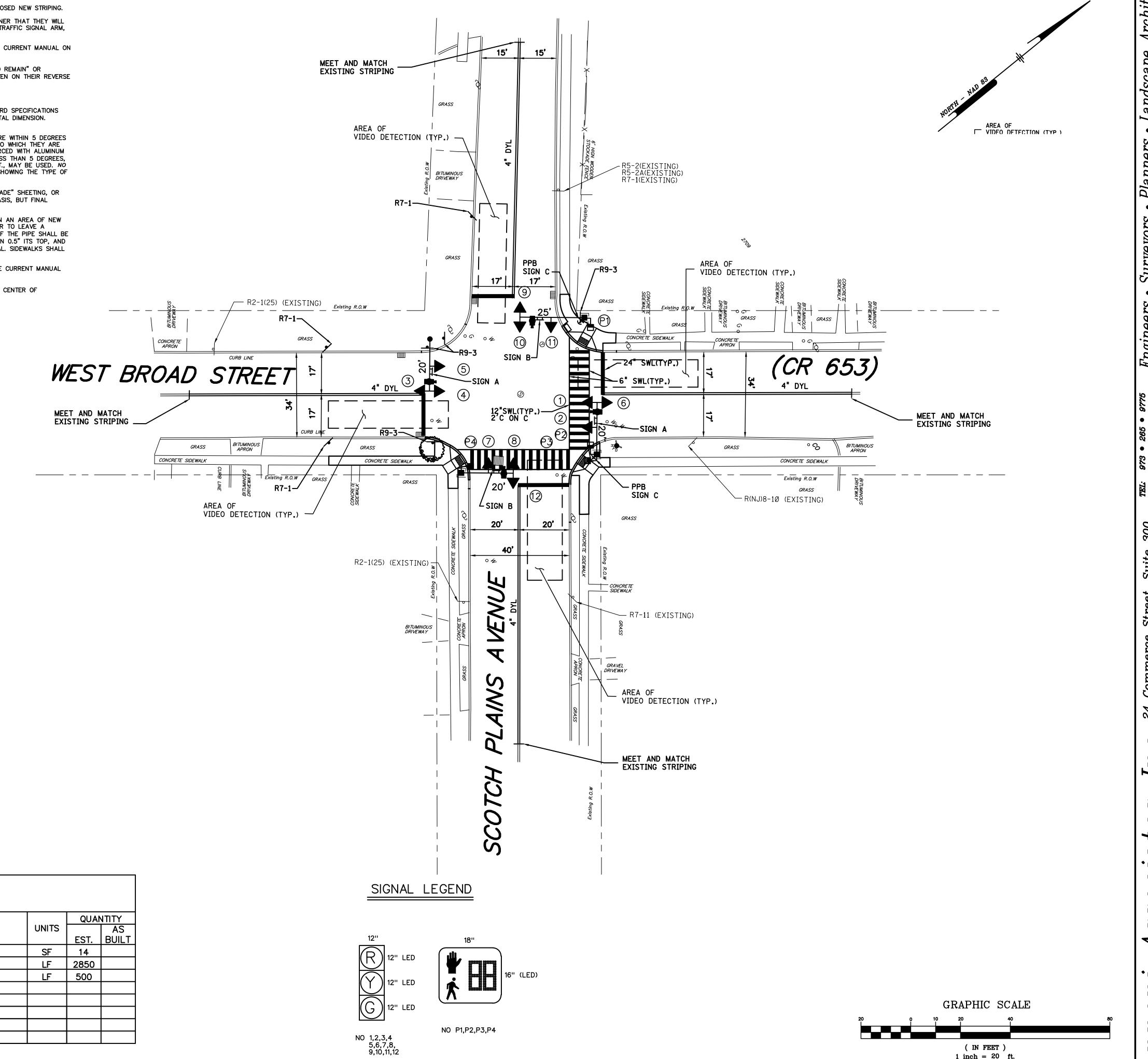


SIGN C

R10-3e(MOD) 9" x 15"

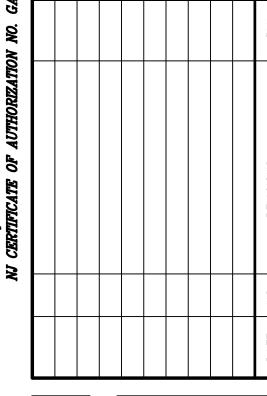
R(NJ)8-10 12" x 18"





**Pennoni** 





UNION

COUNT 2325 2325

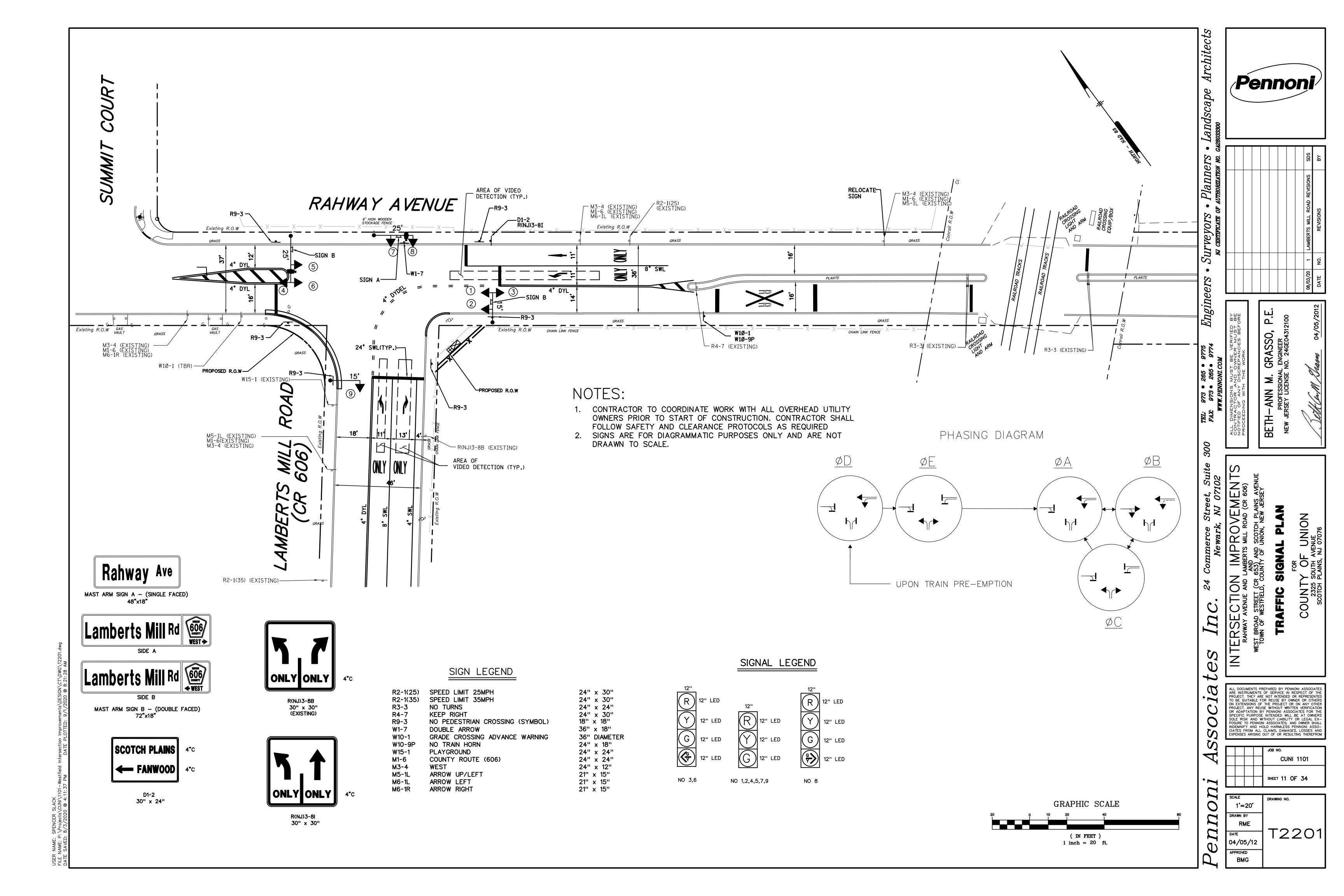
ALL DOCUMENTS PREPARED BY PENNONI ASSOCIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY PENNONI ASSOCIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO PENNONI ASSOCIATES; AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS PENNONI ASSOCIATES FROM ALL CLAIMS. DAMAGES, LOSSES AND CIATES FROM ALL CLAIMS, DAMAGES, LOSSES AN EXPENSES ARISING OUT OF OR RESULTING THEREFRO

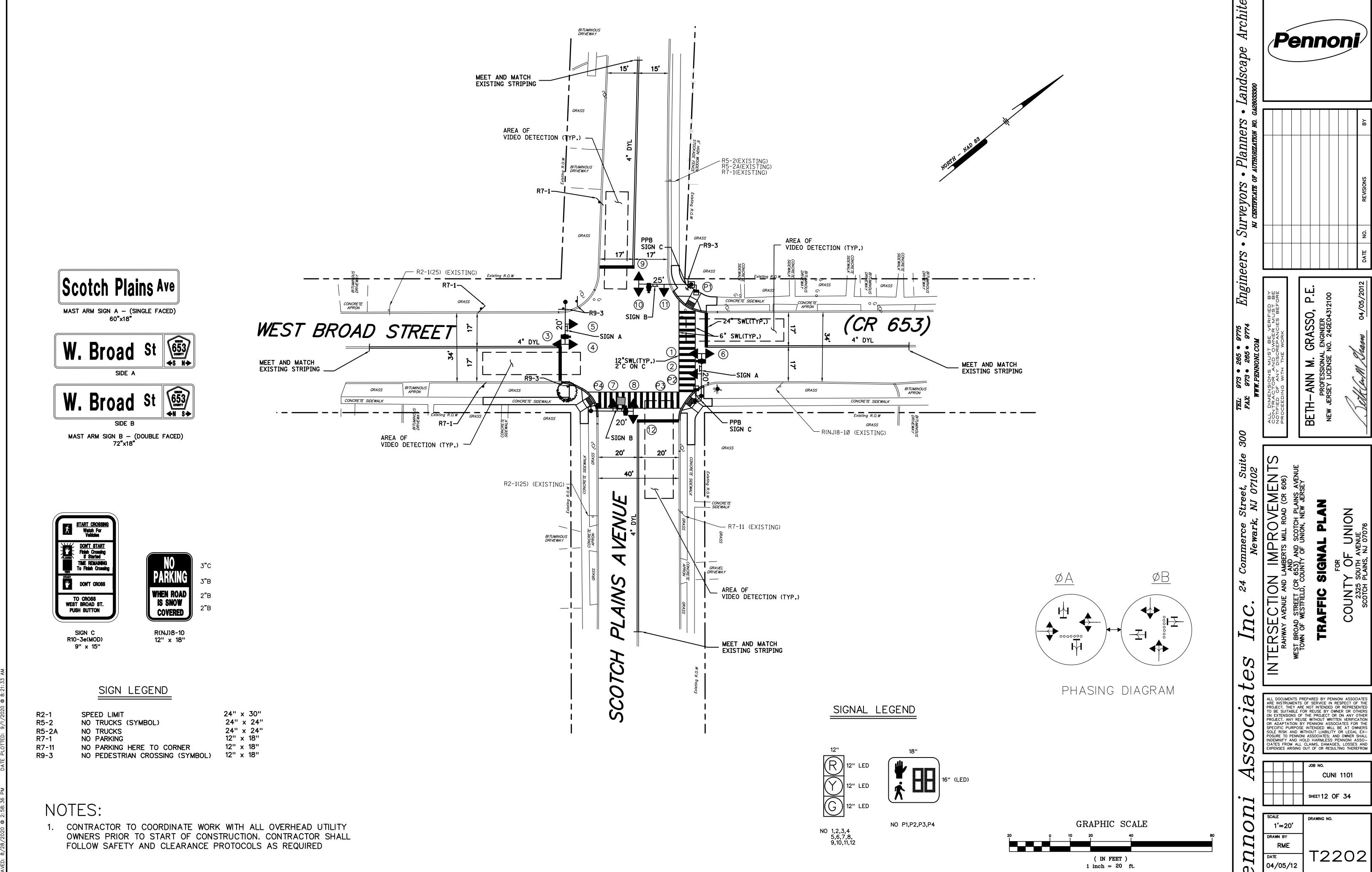
**CUNI 1101** SHEET 10 OF 34

[1002 04/05/12 BMG

( IN FEET )

1 inch = 20 ft.





UNION

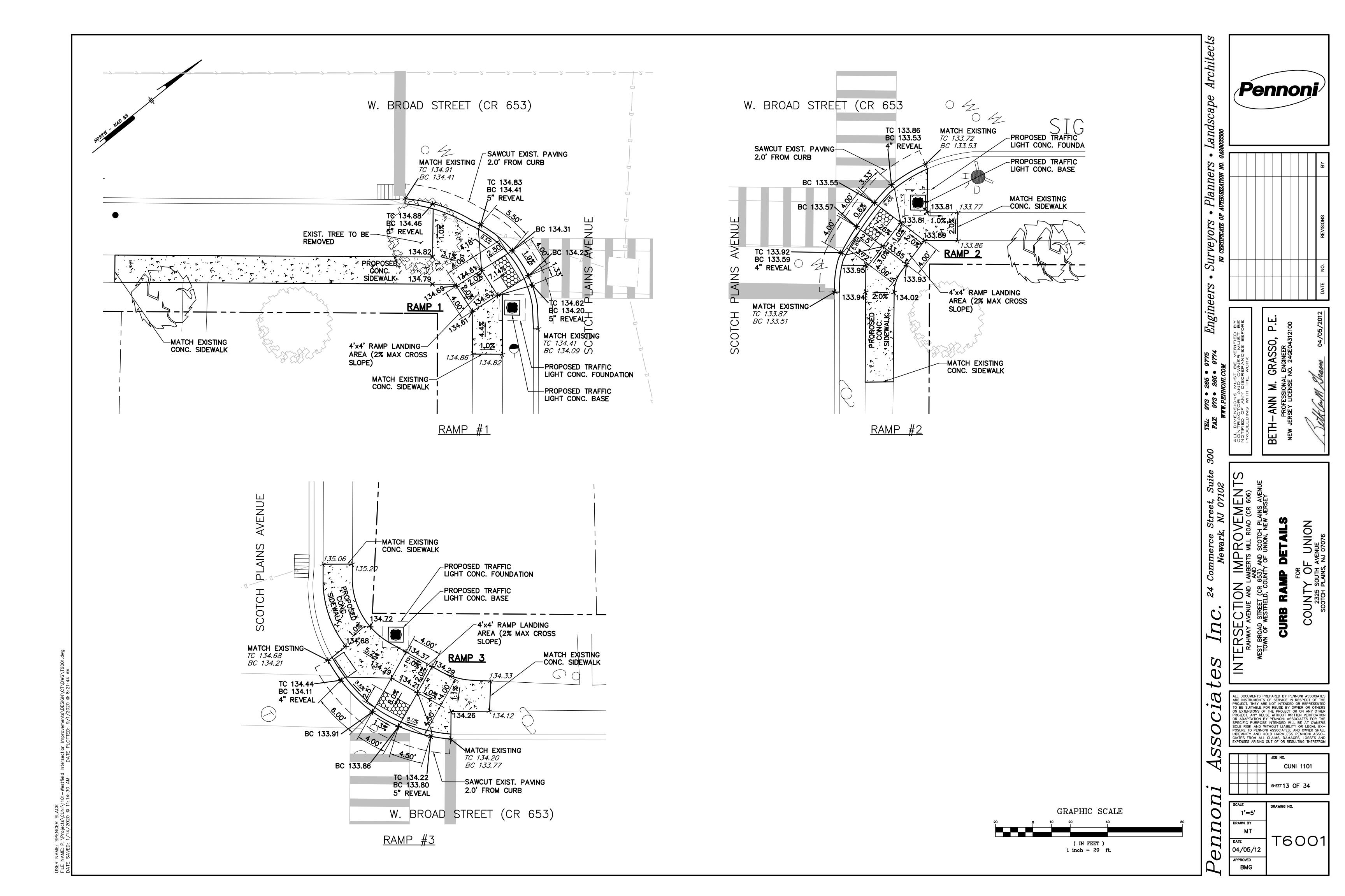
COUNTY 2325 SOURCE BLA

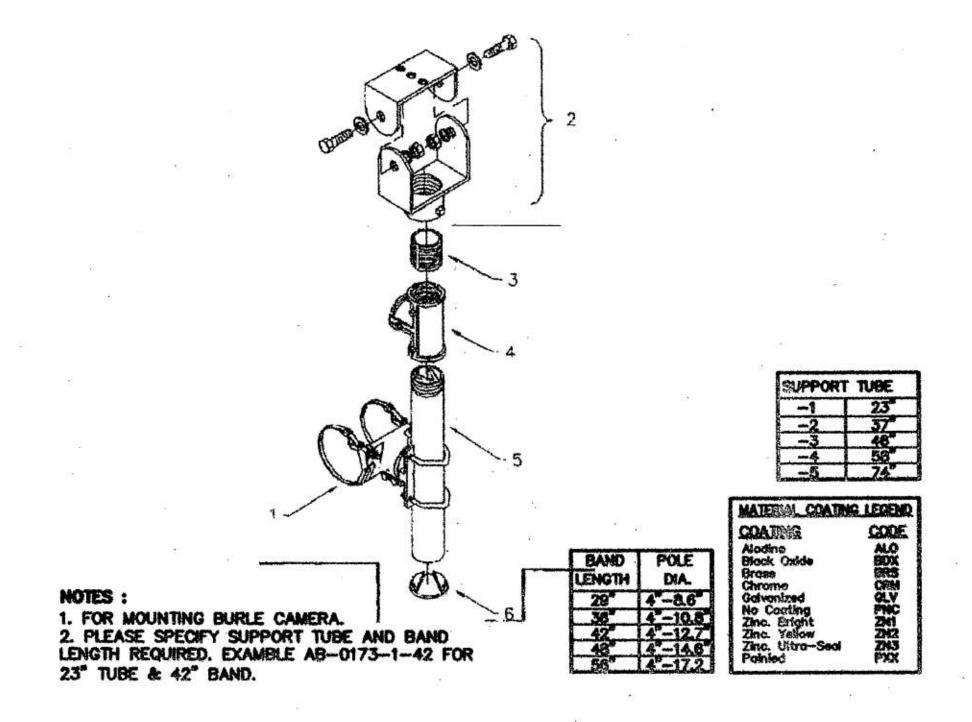
**CUNI 1101** 

SHEET 12 OF 34

DRAWING NO.

BMG





ITEM	PELCO PART NO.	DESCRIPTION	COAT	QTY.
AB -0173-L-L		VIDEO DETECTION CAMERA BRACKET, EXTENDED MAST ARM, 2-PIECE TILT & PAN W/ BAND MOUNT ASTRO-BRAC		1
1	AB-3004-L	ASTRO - BRAC CLAMP KIT, BAND MOUNT	ALO	1
2	SH-05/5	CAMERA MOUNT BRACKET, 2-PIECE	ALO	1
3	SE-0509-2.125	ALL THREAD NIPPLE, ALUM. , 1 1/2"-11 1/2" NPS x 2-1/8"	ALO	1
4	SE- 0458	SERRATED TEE, ALUM, 1 1/2"	PNC	1
5	AS-2003-L	GUSSET TUBE, ALUM. W/VINYL INSERT, 1 1/2" x LENGTH	ALO	1
6	A8-0260	TUBE CAP	PXX	1

# CAMERA EXTENSION ARM DETAIL

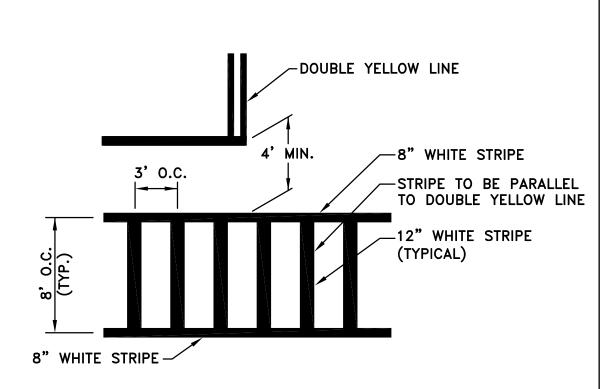
N.T.S.

INTERSECTION IMPROVEMENTS
TOWN OF WESTFIELD

UNION COUNTY, NJ

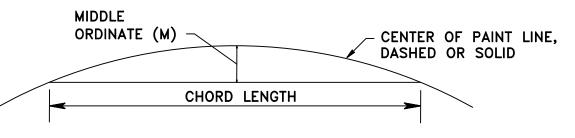
CONSTRUCTION DETAIL

SHEET NO. 14 of 37



#### PROPOSED CROSSWALK DETAIL

N.T.S.



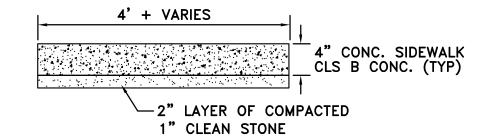
- 1. USE 200 FOOT TAPE.
- 2. ESTABLISH 200 FOOT CHORD.
- 3. MEASURE MIDDLE ORDINATE PERPENDICULAR TO CHORD 100 FOOT FROM EITHER END.
- 4. DETERMINE SPACING FROM TABLE 1.
- WHEN DIFFICULT TO DETERMINE MIDDLE ORDINATE, 80 FOOT OR 40 FOOT SPACING WILL BE AS DIRECTED BY THE DEPARTMENT.

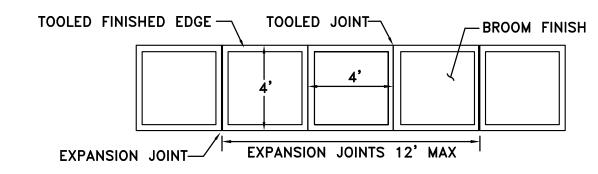
#### TABLE 1

CHORD LENGTH	MIDDLE ORDINATE	RADIUS	REFLECTOR SPACING
200'-0"	M ≥ 2'-7"	R <_1910'	40'-0"
200'-0"	M < 2'-7"	R > 1910'	80'-0"

- < LESS THAN
- < EQUAL TO OR LESS THAN</pre>
- > GREATER THAN
- > EQUAL TO OR GREATER THAN

METHOD FOR DETERMINING RPM SPACING ON HORIZONTAL CURVES





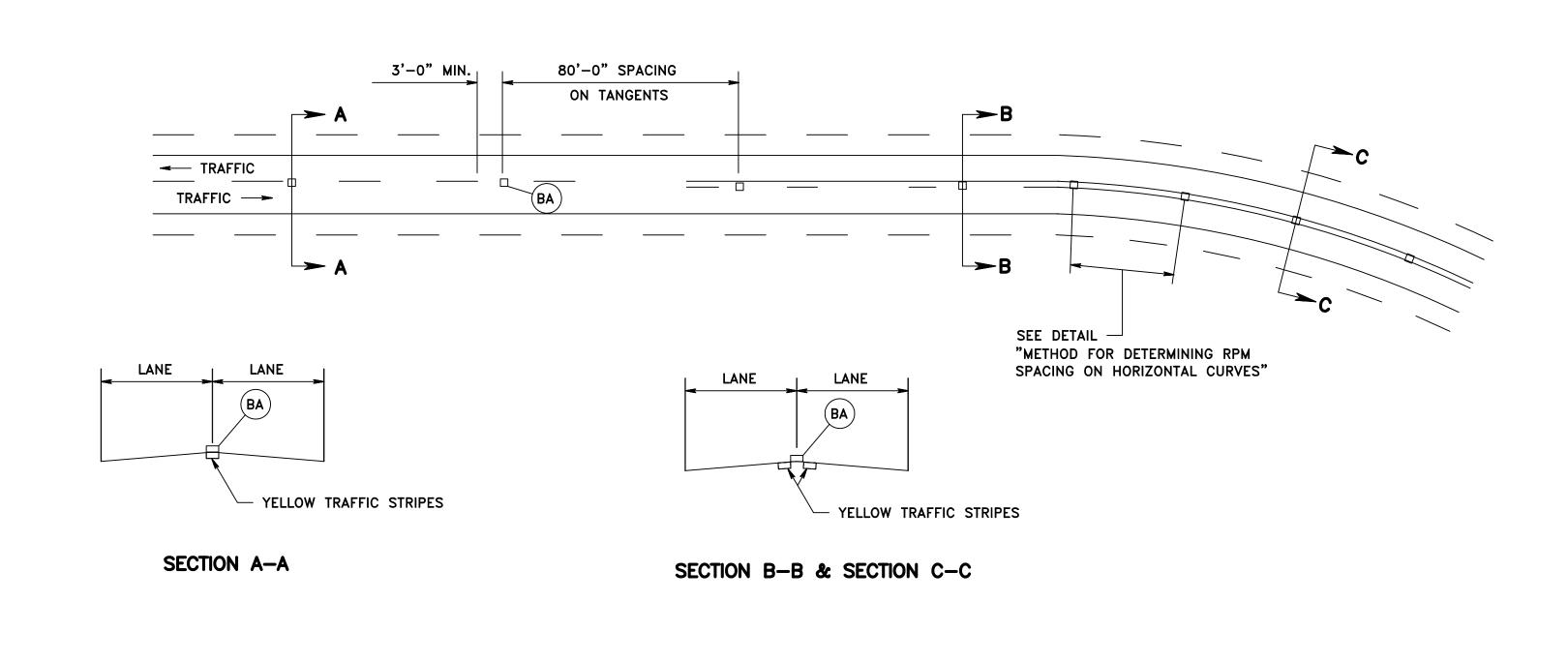
## PROPOSED CONCRETE SIDEWALK DETAIL

N.T.S.

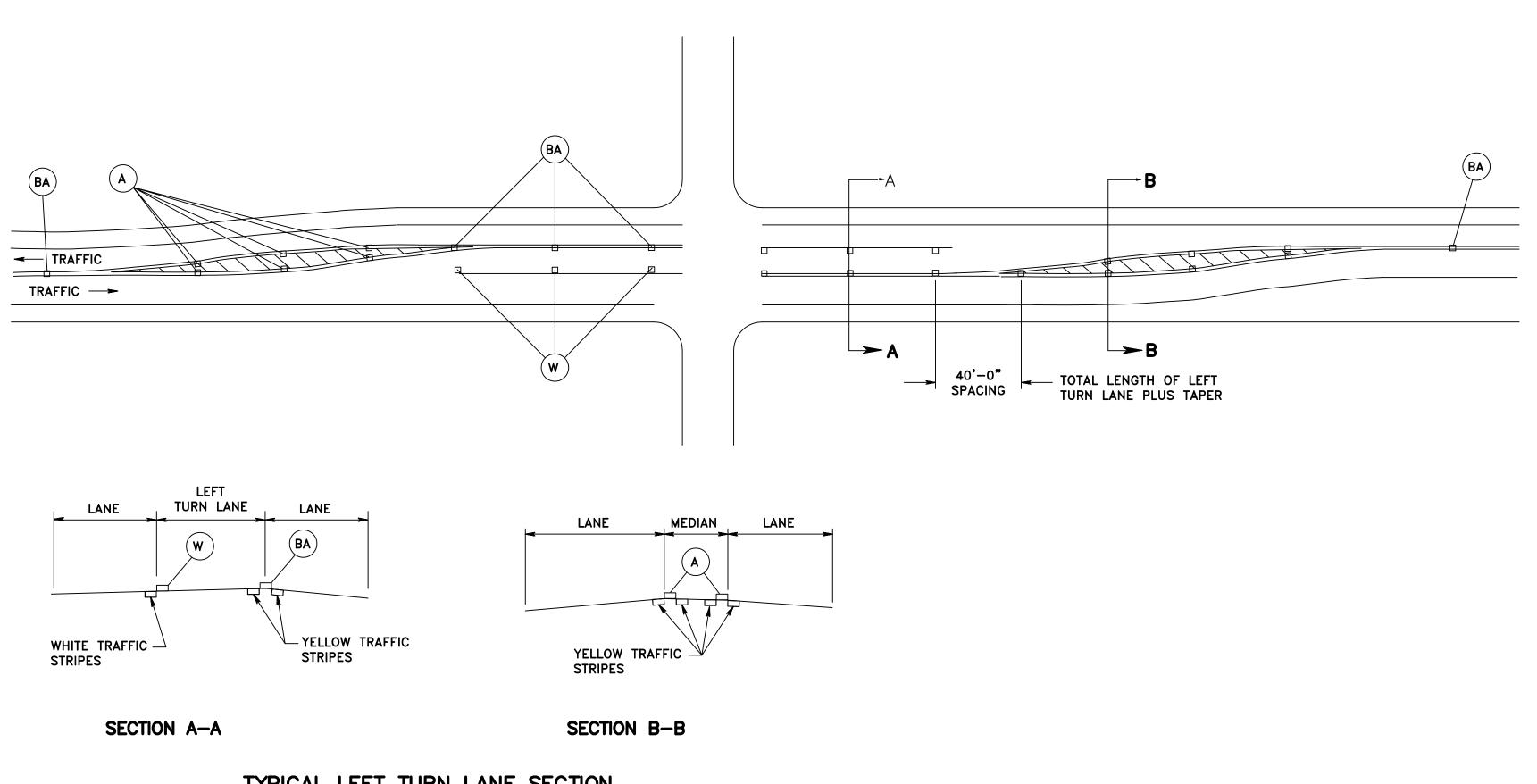
- NOTE:
  1) ALL SIDEWALK MUST BE SPRAYED WITH WHITE PIGMENTED CURING COMPOUND AFTER BROOM FINISH
- 2) CONCRETE TO BE POURED OVER 2" LAYER OF 1" COMPACTED CLEAN STONE.
  3) CONCRETE TO BE CLASS B 4000 LB MIX.

# **LEGEND**

- TWO-WAY MONO-DIRECTIONAL WHITE LENS, RPM
- TWO-WAY MONO-DIRECTIONAL AMBER LENS, RPM
- TWO-WAY BI-DIRECTIONAL AMBER LENS, RPM



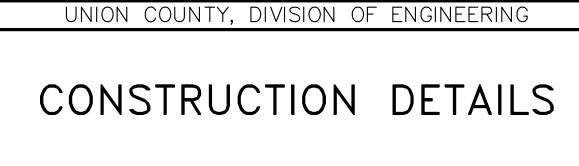
# TYPICAL TWO LANE SECTION



# TYPICAL LEFT TURN LANE SECTION

# RAISED PAVEMENT MARKER. (RPM) LOCATION

N.T.S.

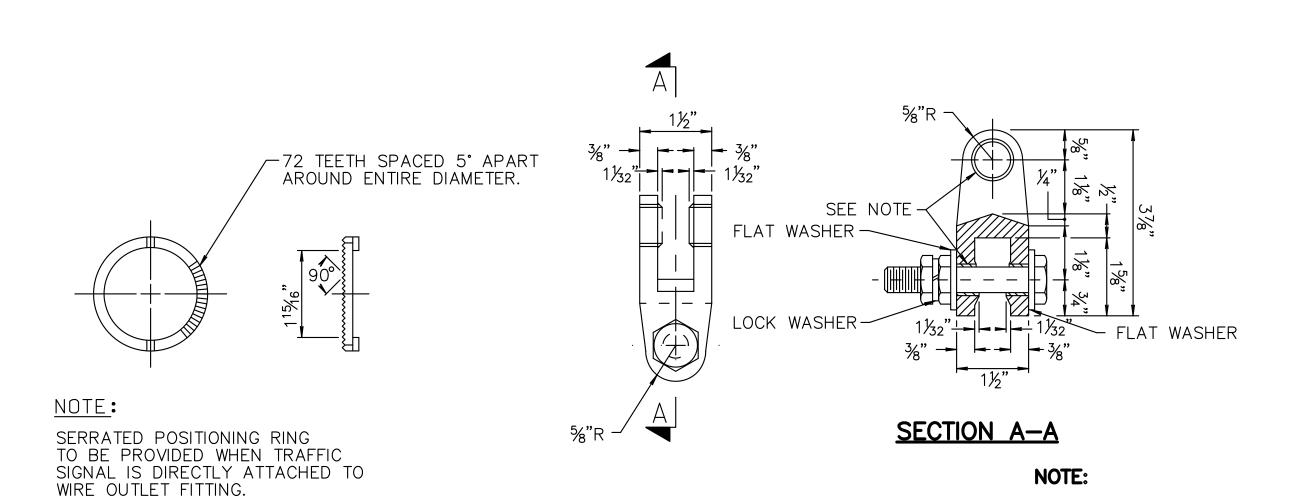


BY C'K'D

SHEET NO. 15 of 37

COUNTY OF UNION
2325 SOUTH AVENUE
SCOTCH PLAINS, NJ 07076

REVISION



# DETAIL OF HEAD POSITIONING RING

MATERIAL: DELRIN

# **UNIVERSAL JOINT**

MATERIAL - BRONZE, 85-5-5-5

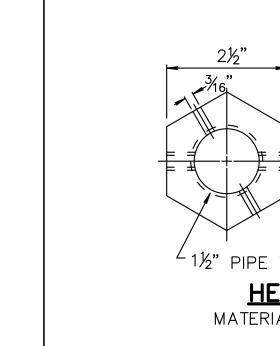
DRILL CASTING FOR C304 STN. STL.  $\frac{1}{16}$ " THK. WALL BUSHINGS, FURNISH & PRESS FIT INTO CASTING.

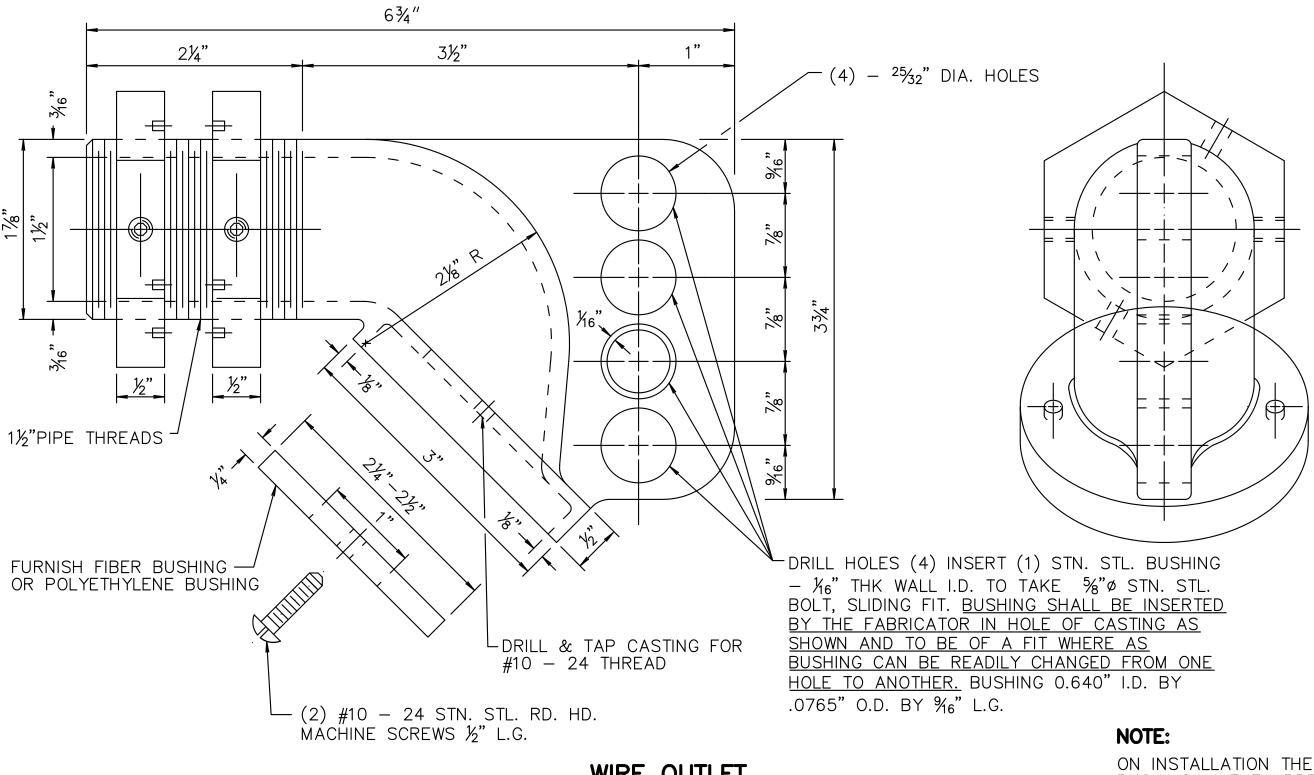
> FURNISH WITH EACH UNIVERSAL JOINT: (1) %" - 11 NC X 3" L.G. STN. STL. HEX BOLT

(2) 5/8" - 11 NC STN. STL. HEX NUTS (2) %" ø STN. STL. FLAT WASHER

(1) 5%" Ø STN. STL. LOCK WASHER

-1½" PIPE THREADS HEX LOCK NUT MATERIAL: BRONZE, 85-5-5-5





HEX LOCK NUTS - BRONZE FURNISH (2) WITH EACH OUTLET NUTS TO BE PROVIDED WITH 32" DP X 36" WIDE SLOT FOR

SOC. HD. SET SCR, ONE EACH SIDE.

SERRATED RING; DRILL & TAP 4" - 20 FOR (2) STN. STL.

### WIRE OUTLET

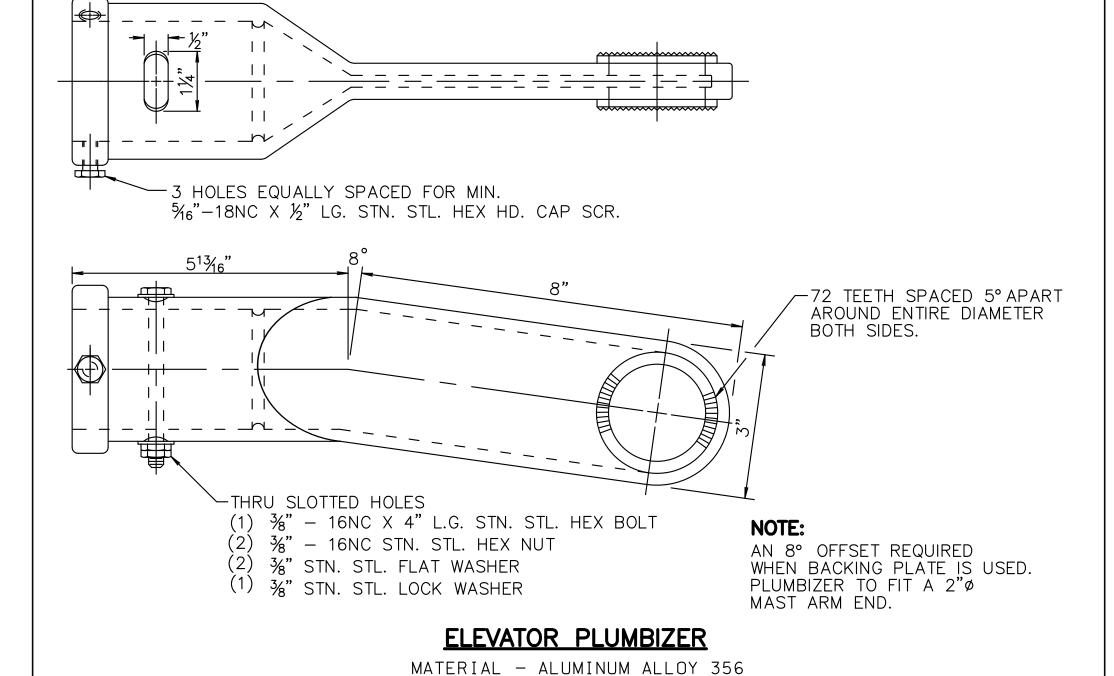
MATERIAL: BRONZE, 85-5-5-5

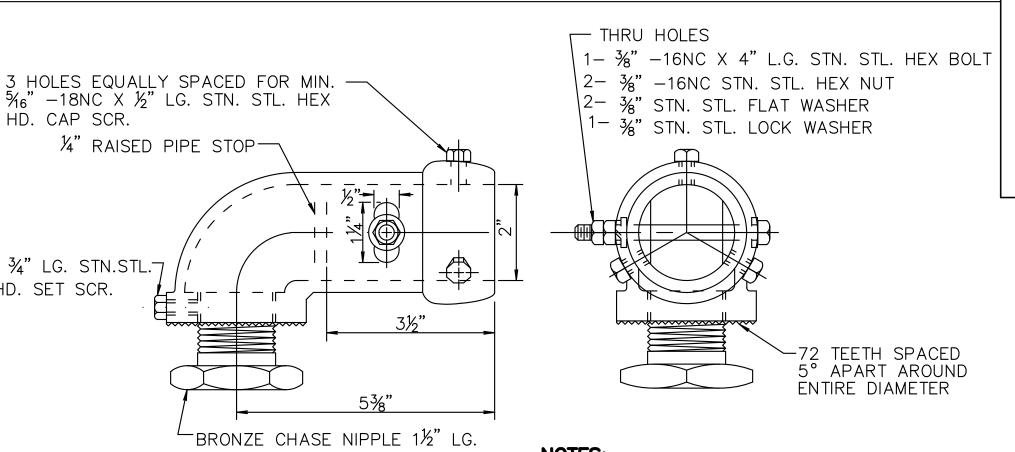
ON INSTALLATION THE CONTRACTOR SHALL PLACE THE BUSHING IN THE APPROPRIATE MOUNTING HOLE AS REQUIRED TO OBTAIN VERTICAL POSITIONING AND MAX— IMUM VISIBILITY OF THE SIGNAL ASSEMBLY TO THE APPROACH ROADWAY AND AS DIRECTED BY THE ENGINEER.

HD. CAP SCR.

¼"-20NC X ¾" LG. STN.STL.¬

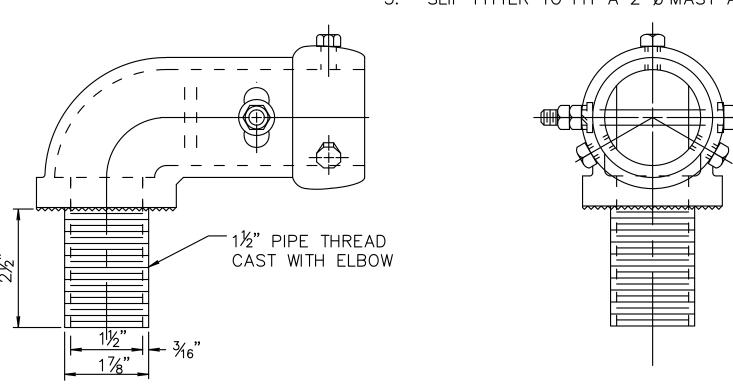
CUP PT. HEX HD. SET SCR.





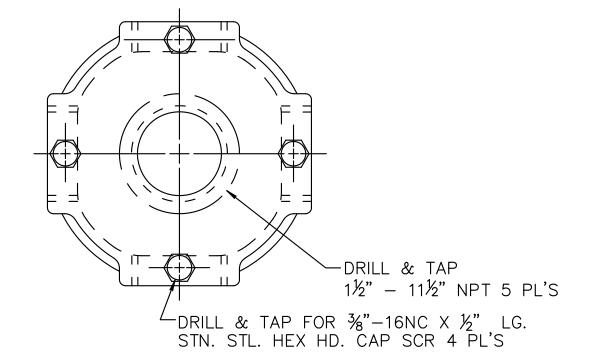
#### **NOTES:** MAST ARM SLIP FITTER

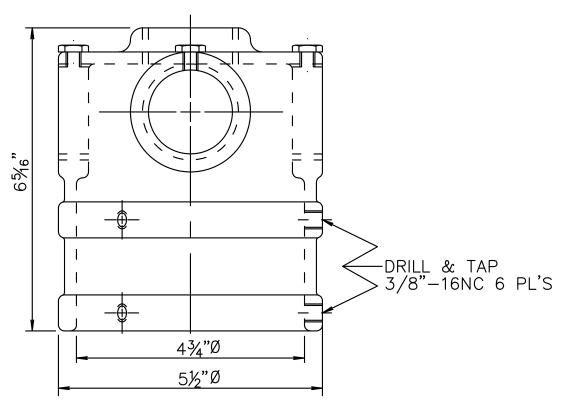
- THE SLIP FITTER SHALL BE UTILIZED MATERIAL - BRONZE, 85-5-5-5 IN MOUNTING OPTICALLY PROGRAMMED TRAFFIC SIGNALS
  - 2. WHEN USED FOR MOUNTING SIGNALS BACK TO BACK DRILL THRU NIPPLE AND USE A 1" LG. CAP SCREW.
  - 3. SLIP FITTER TO FIT A 2" Ø MAST ARM END.



# ALTERNATE MAST ARM SLIP FITTER

SAME AS ABOVE EXCEPT WHERE NOTED



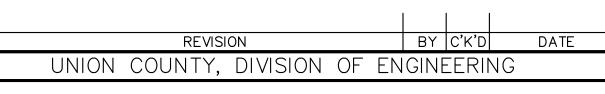


### POST TOP ADAPTER

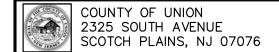
MATERIAL-ALUMINUM ALLOY 356 (FOR OPTICALLY PROGRAMMED INDICATIONS ONLY)

#### **NOTES:**

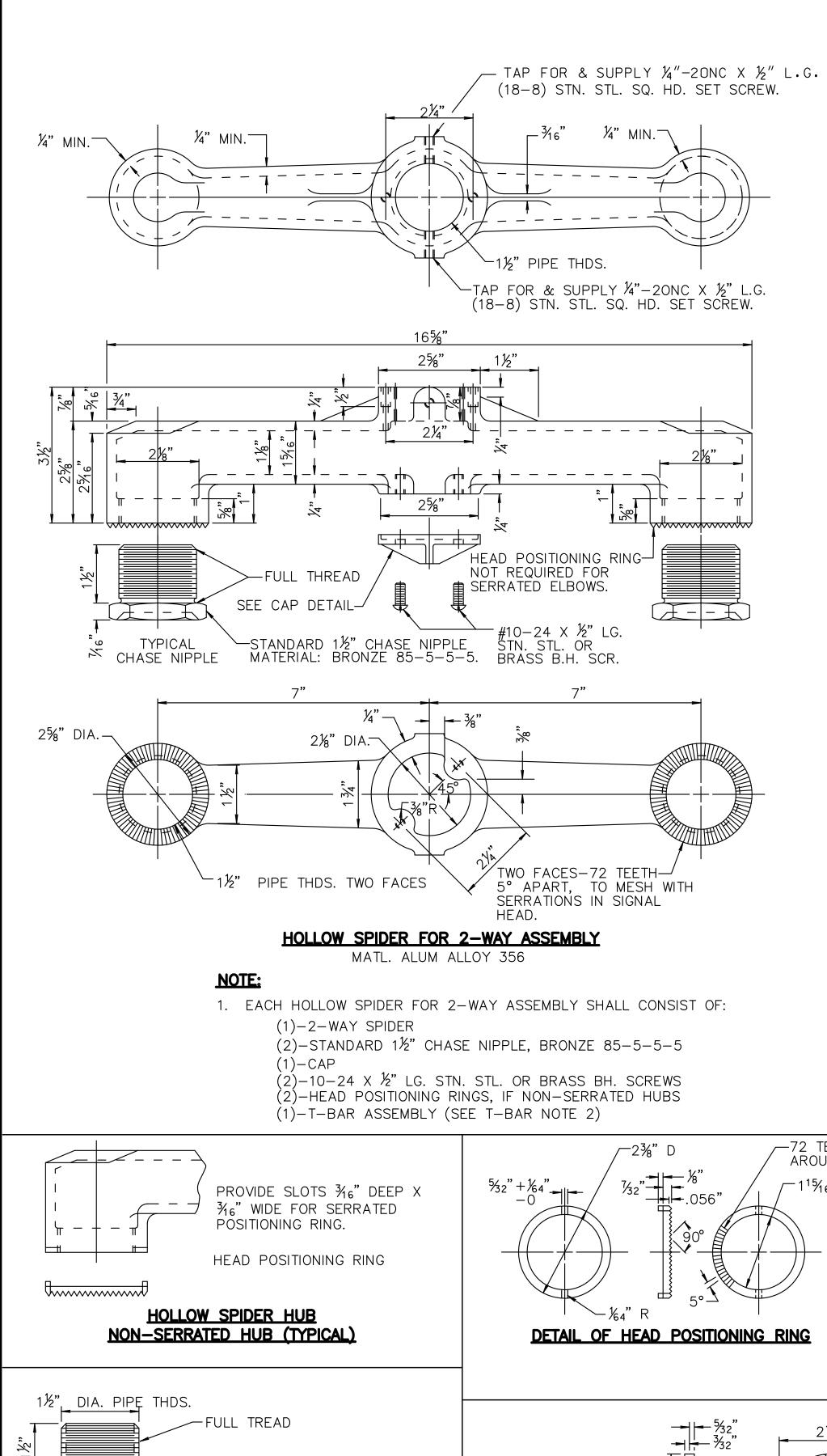
- 1. ALL TOLERANCES OF CASTINGS SHALL BE  $\pm \frac{1}{32}$ "
- 2. ALL STAINLESS STEEL BOLTS ON THIS SHEET PER ASTM A193, GRADE B8.



ELECTRICAL DETAILS SIGNAL ASSEMBLY DETAILS



SHEET NO. 16 of 37

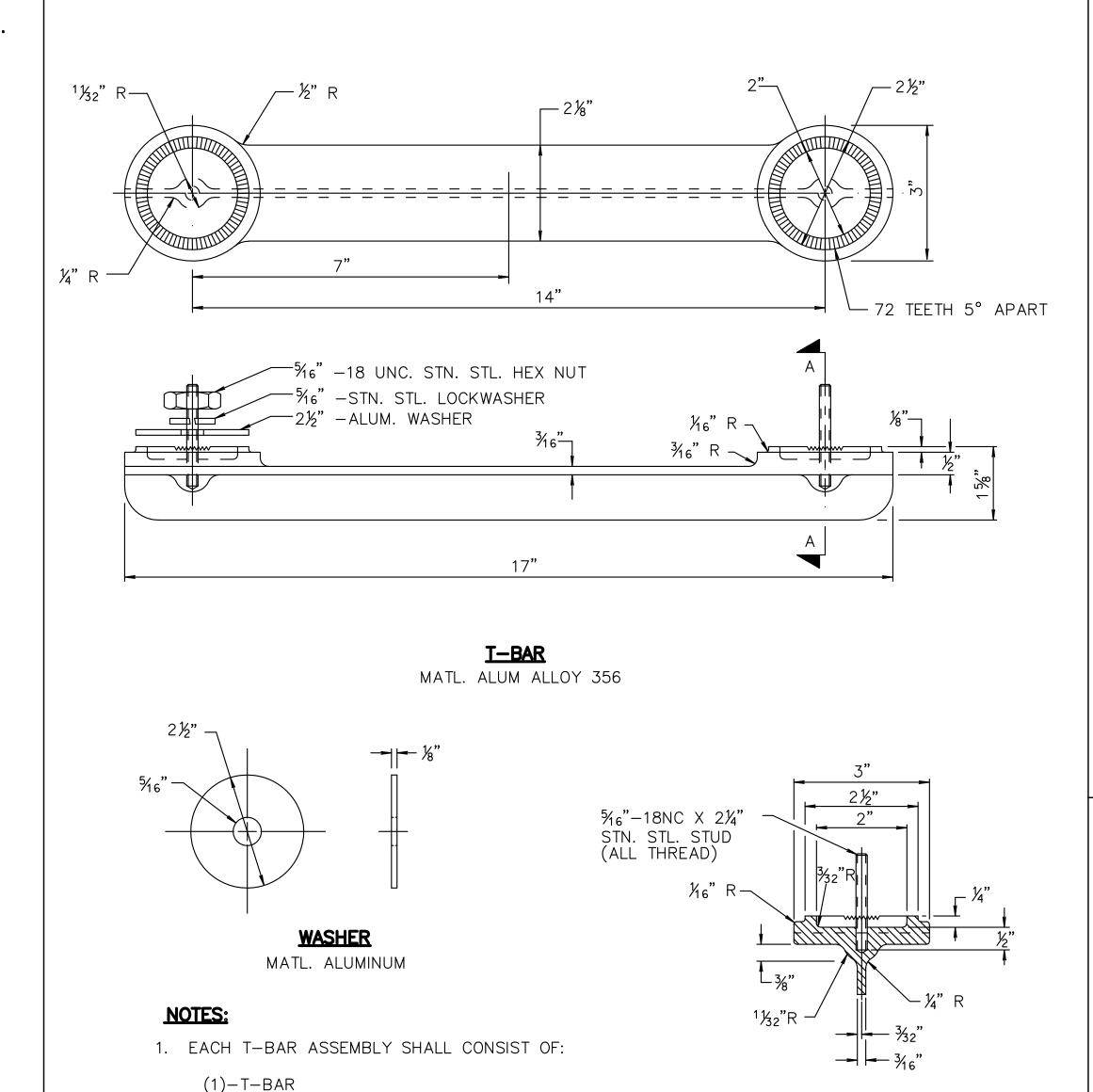


STANDARD 1½" CHASE NIPPLE

MTL. BRZ. 85-5-5-5

NIPPLE TO BE USED WITH HINGE STRAP OR PEDESTRIAN CLAMP AS REQUIRED.

NIPPLE, ELBOW AND/OR CHASE

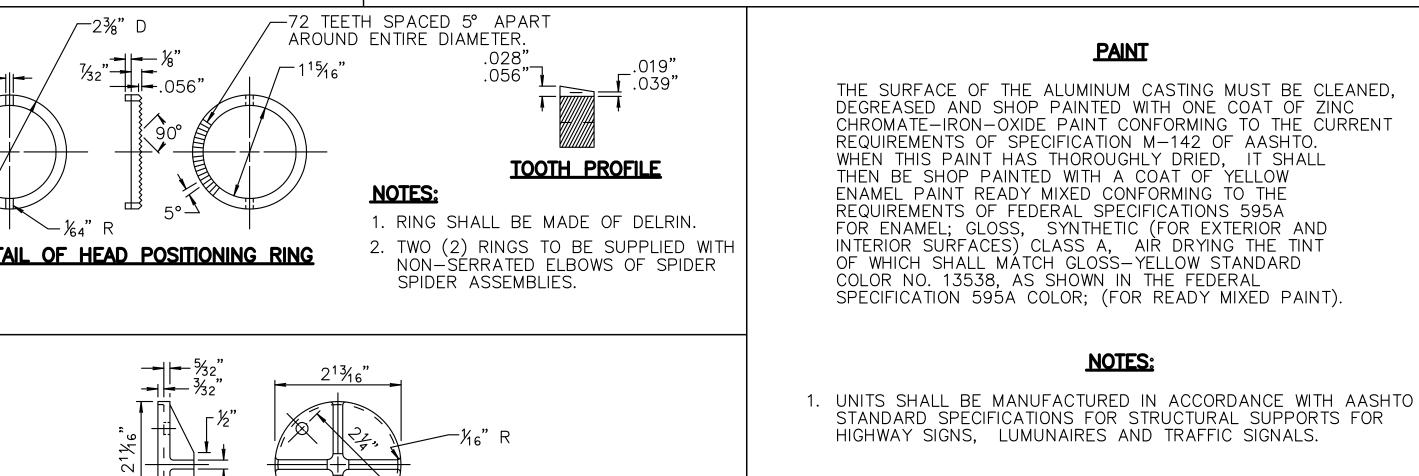


SECTION A-A

2. ALL TOLERANCES OF CASTINGS SHALL BE  $\pm \frac{1}{32}$ ".

3. ALL STAINLESS STEEL BOLTS ON THIS SHEET PER

ASTM A193 GRADE B8.

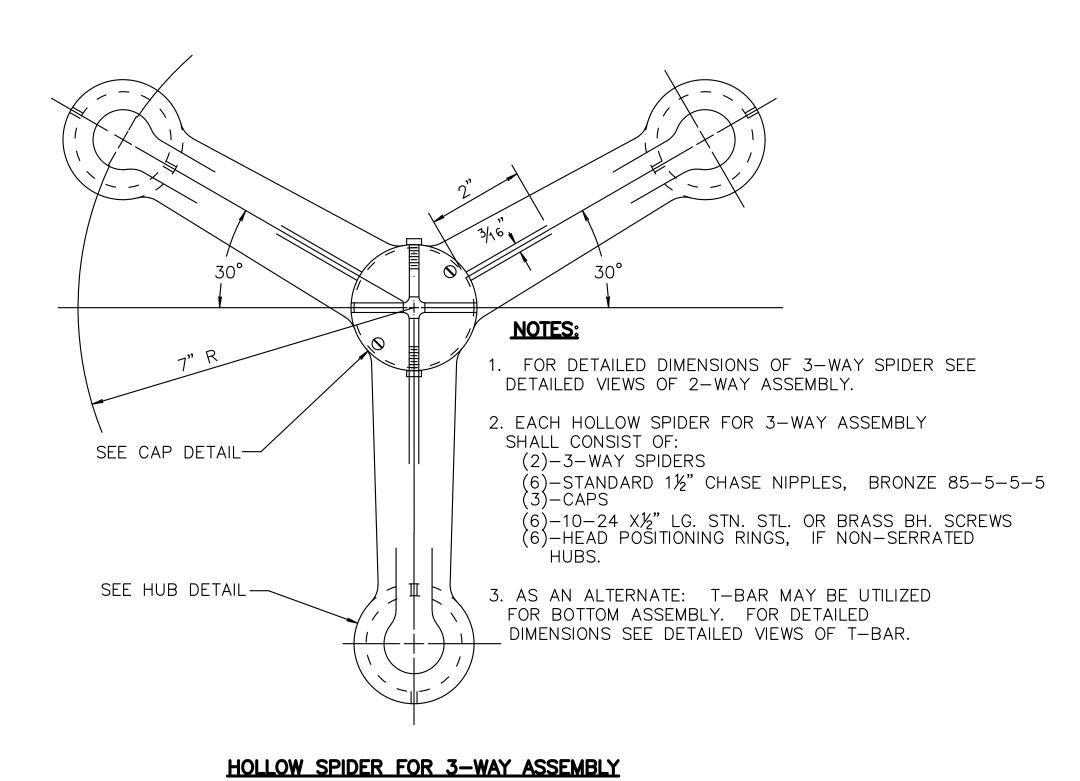


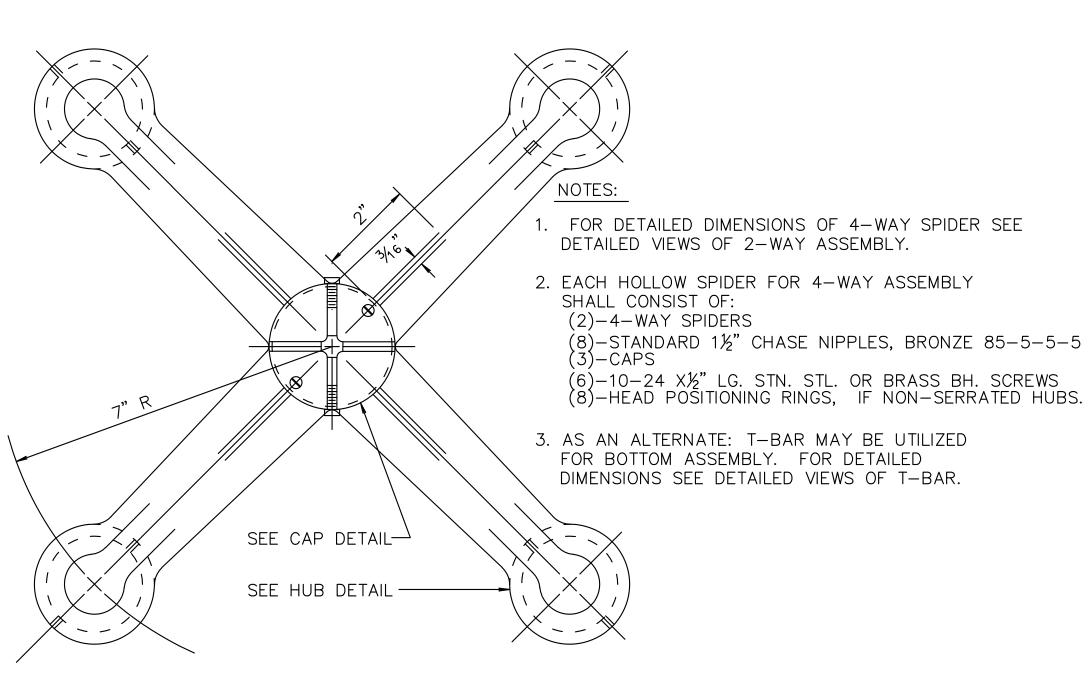
MAT. ALUM. ALLOY 356

(2)-WASHERS

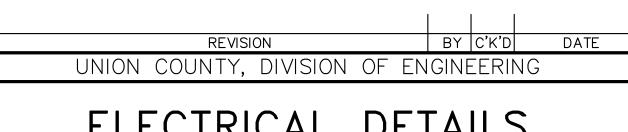
(2)-%6 DIA. STN. STL. LOCKWASHERS (2)-%6 -18NC STN. STL. HEX NUTS

2. FOR USE WITH 2-WAY HOLLOW SPIDER ASSEMBLIES WHERE SIGNAL FACES ARE SAME SIZE AND CONFIGURATION.



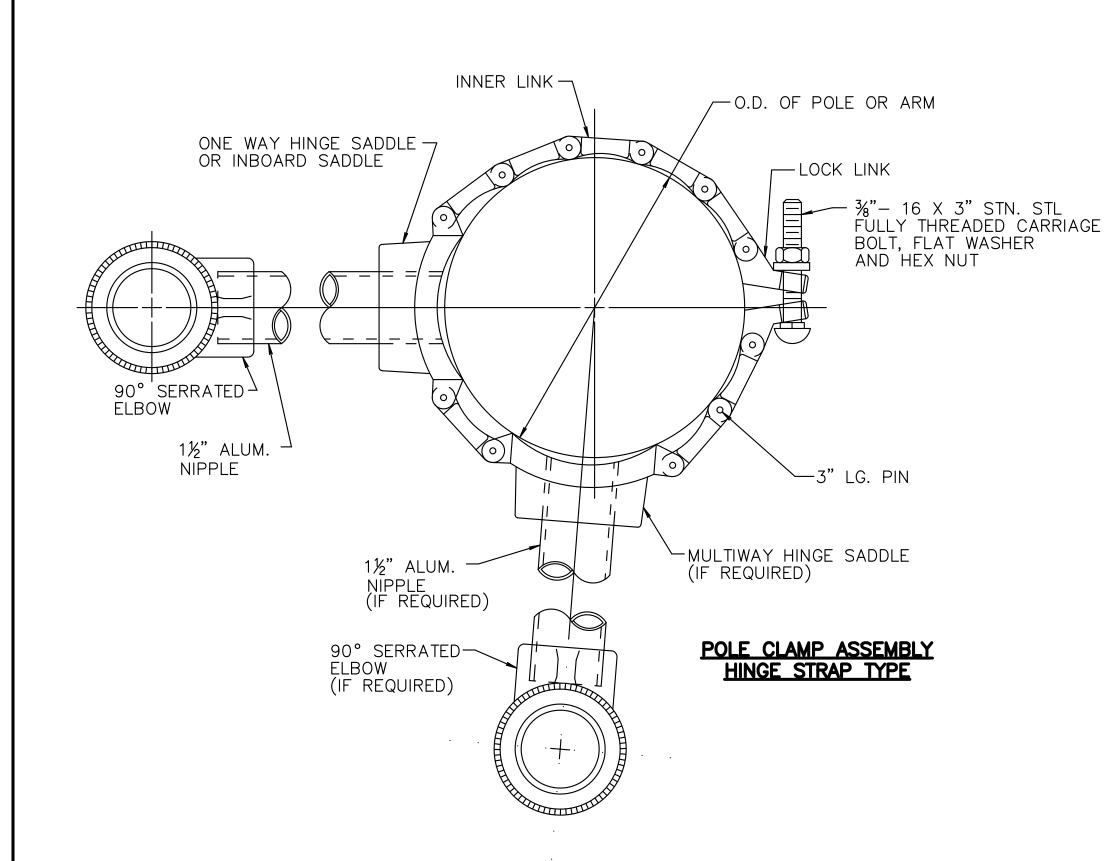


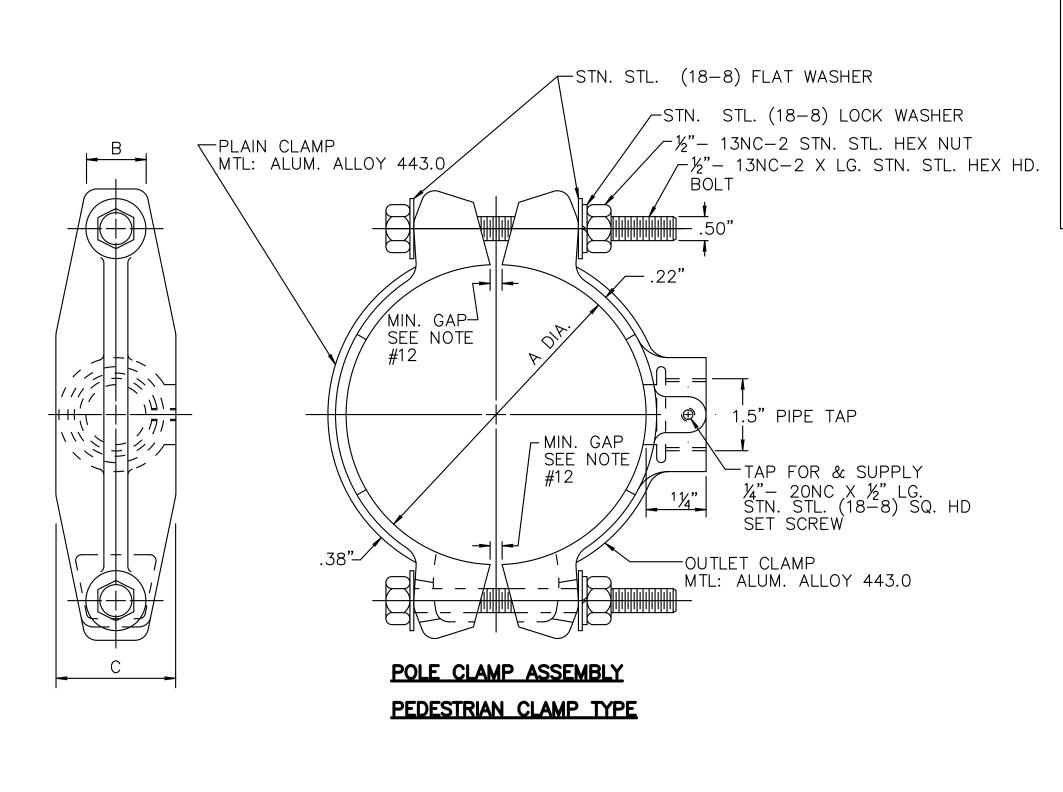


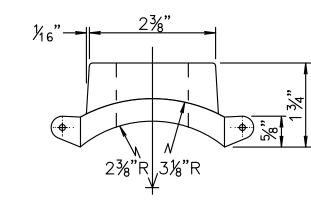


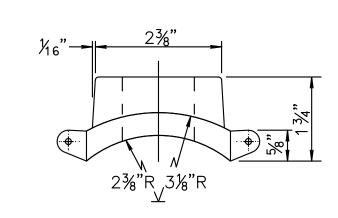
ELECTRICAL DETAILS
SIGNAL ASSEMBLY DETAILS

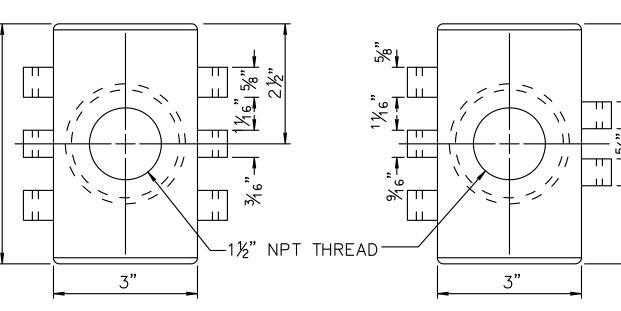
COUNTY OF UNION
2325 SOUTH AVENUE
SCOTCH PLAINS, NJ 07076
SHEET NO. 17 of 37

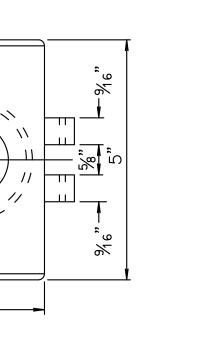


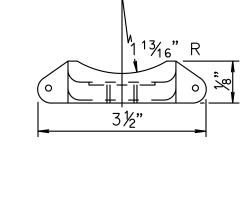


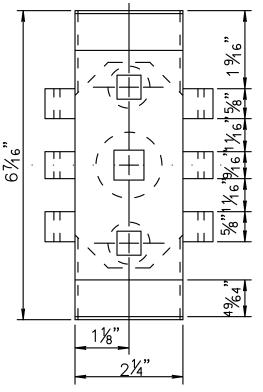












INBOARD SADDLE MTL: ALUM. CASTING

#### ONE-WAY HINGE SADDLE

MTL: ALUM. CASTING

MTL: ALUM. CASTING

MULTI-WAY HINGE SADDLE

HINICE	CTDAD	LICT	OF	MATERIALS
IIIIVGL	SIIVAI	LIJI	Oi	MAILMALS

	DESCRIPTION	MATERIAL	NO. REQ'D
	HINGE SADDLE	B26-82 CAST ALUM.	2
	INNER LINK	B26-82 CAST ALUM.	23*(32)
	LOCK LINK	B26-82 CAST ALUM.	4
	STD.1½" NIPPLE	ALUM. ALLOY	2
7	90° SERRATED ELBOW	ALUM. ALLOY 443.0	2
	3" ALUMINUM PIN	ALUM. ALLOY 443.0	30*(38)
	BOLT %" - 16 X 3"	STN. STL.	4
	FLAT WASHER	STN. STL.	4
	LOCK WASHER	STN. STL.	4
	NUT, HEX $\frac{3}{16}$ " - 16	STN. STL.	4
	MULTI-WAY HINGE SADDLE	CAST ALUM.	AS REQ'D
	INBOARD SADDLE	CAST ALUM.	AS REQ'D
	1½" CHASE NIPPLE	BRZ. 85-5-5-5	2

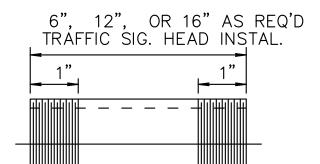
\*( ) NUMBER REQUIRED WHEN INSTALLED ON "K" POLE

PEDESTRIAN CLAMP LIST OF MATERIALS									
DESCRIPTION	MATERIAL	NO. REQ'I							
PLAIN CLAMP	ALUM. ALLOY 443.0	2							
OUTLET CLAMP	ALUM. ALLOY 443.0	2							
BOLT, HEX HD. ½"- 13NC-2 X LG	STN. STL.	4							
LOCK WASHER 1/2"	STN. STL.	4							
FLAT WASHER ½"	STN. STL.	8							
HEX NUT ½"- 13NC-2	STN. STL.	4							
SET SCREW, SQ. HD. 1/4"-20 X1/2" LG	STN. STL.	2							
1½" CHASE NIPPLE	BRZ. 85-5-5-5	2							
90° SERRATED ELBOW	ALUM. ALLOY 443.0	2							
STD. 1½" NIPPLE X LG.	ALUM. 6061-T6	2							

#### NOTE:

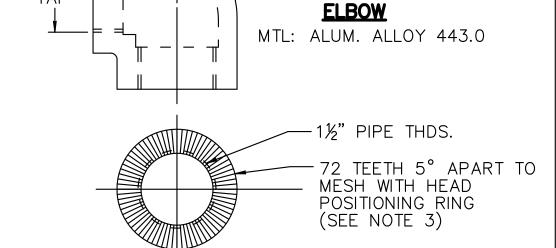
HARDWARE SHALL BE TIGHTENED AS PER TORQUE RATING AS RECOMMENDED BY THE MANUFACTURER.

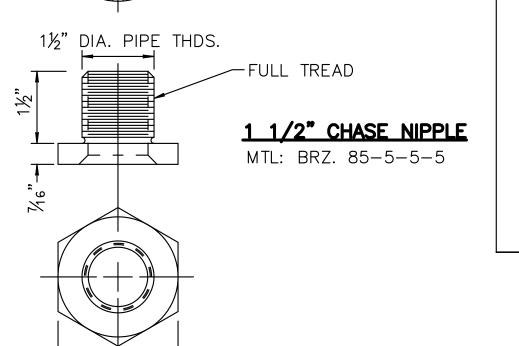
	PEDESTRIAN	CLAMP DIMENSION	IS
А	В	С	BOLT LGTH.
6"-8"	1.25"	2.5"	6.0"
8"-10"	1.25"	2.5"	7.5"
10"-12"	1.50"	2.875"	9.0"



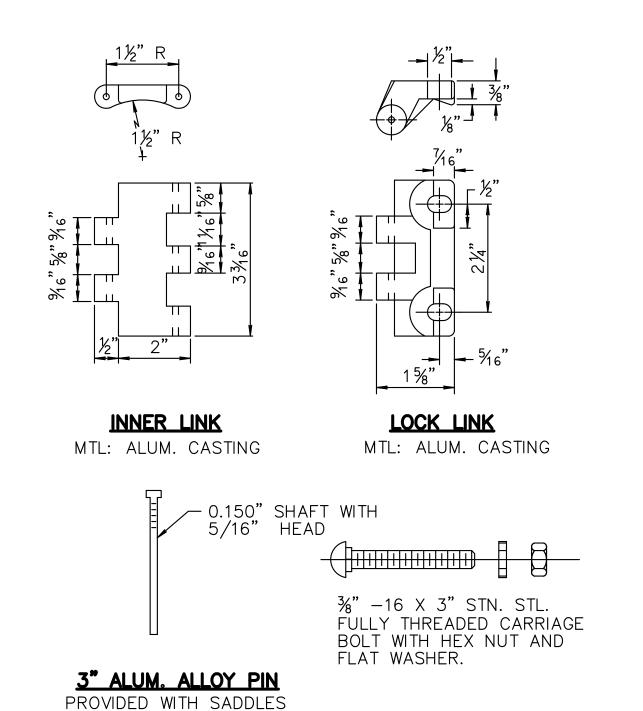
1½" PIPE

STD. 1 1/2" NIPPLE MTL: ALUM ALLOY 6061-T6 ASTM B-241





NIPPLE, ELBOW AND/OR CHASE NIPPLE TO BE USED WITH HINGE STRAP OR PEDESTRIAN CLAMP AS REQUIRED.



AND LINKS

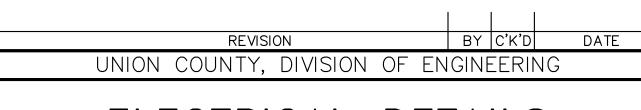
ALL HINGE STRAPS INNER LINK AND LOCK LINK PARTS SHALL BE TUMBLED FOR 18 HOURS MINIMUM USING 3/4" CERAMIC MEDIA TO PROVIDE A UNIFORM AND SMOOTH SURFACE.

#### NOTES:

1. PEDESTRIAN CLAMP TYPE CAST ALUMINUM, CLAMP SHOWN MUST MEET THE FOLLOWING TESTS: 6" DIA. CLAMP TEST.

COMPLETE CLAMP SHALL BE SET ON 6" DIA. POLE. COMPLETE CLAMP WITH 6.5" DIA. SET SHALL BE SET ON 8" DIA. POLE. COMPLETE CLAMP AFTER BEING SET FROM 8" DIA. POLE SHALL BE RESET ON 6" DIA. POLE. CLAMPS SHALL NOT SHOW ANY FRACTURES AFTER THE SETTING AND RESETTING PROCEDURE. THIS TEST TO BE CONDUCTED IN THE PRESENCE OF A REPRESENTATIVE OF THE NEW JERSEY DEPARTMENT OF TRANSPORTATION. MANUFACTURER SHALL ALSO SUBMIT DRAWING OF CLAMP TO BE FURNISHED FOR APPROVAL OF THE NEW JERSEY DEPARTMENT OF TRANSPORTATION.

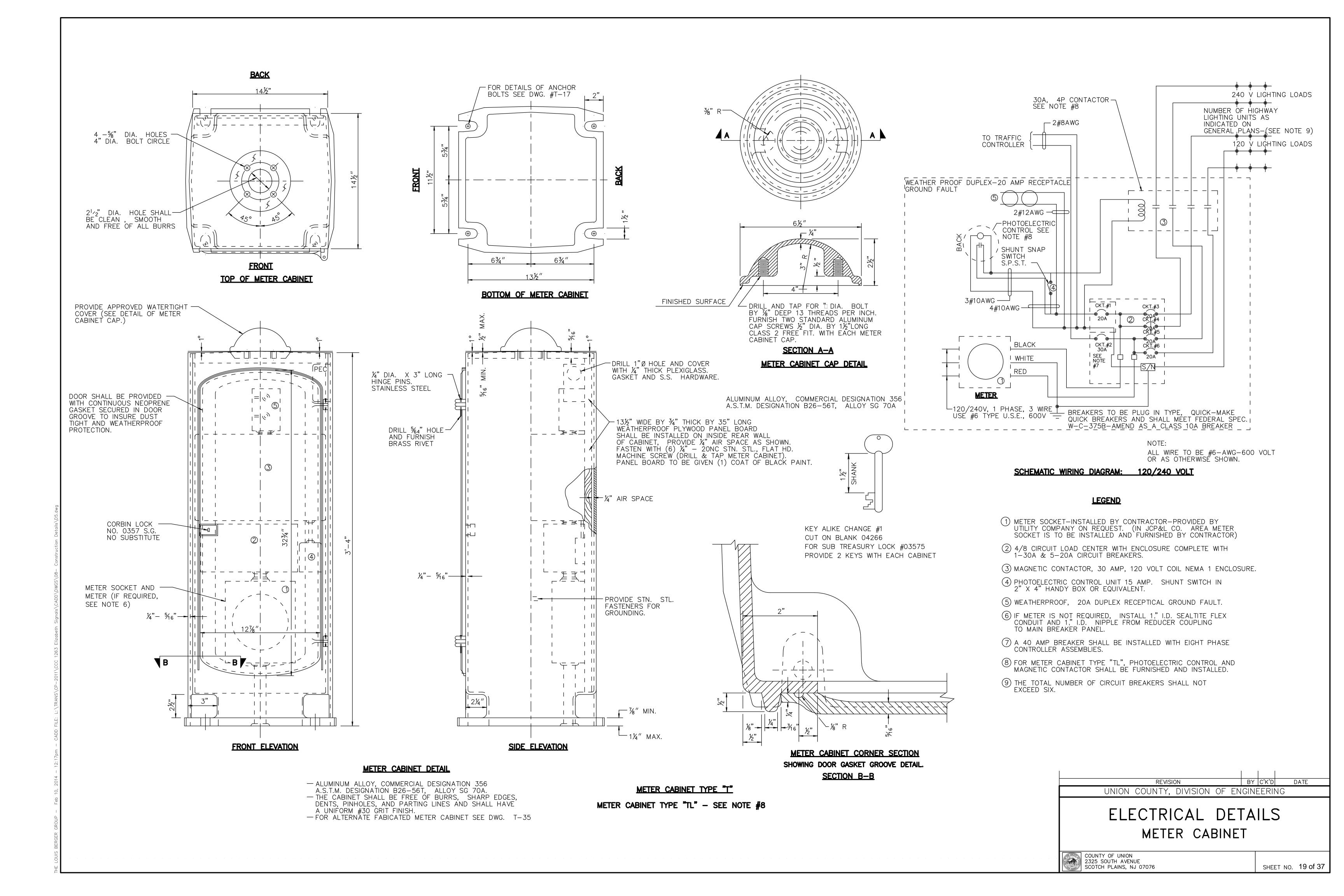
- 2. CAST ALUM. CLAMPS OF LARGER DIA. WILL BE TESTED IN A SIMILAR MANNER.
- 3. PROVIDE SLOTS OR SERRATIONS IN FACE OF ELBOW OR SLOTS & SERRATED POSITIONING RING. SLOTS TO BE 32" DP X 36" W. SERRATIONS TO MATCH HOUSING AND ALLOW 5° ADJUSTMENT.
- 4. UNITS SHALL BE MANUFACTURED IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS.
- 5. INSTALL 1¼" I.D. RUBBER GROMMET IN TRAFFIC SIGNAL STANDARD.
- 6. ALL STN. STL. BOLTS PER ASTM A193 GRADE B8 OR ASTM F593 ALLOY 304.
- 7. ALL ALUM. SAND CASTINGS SHALL BE ASTM B26 ALLOY.
- 8. ALL ALUM. NIPPLES SHALL BE 6061-T6, ASTM B-241 ALLOY; MIL. SPEC. QQA 200/80F.
- 9. HINGE STRAP IS ADAPTABLE TO ANY POLE DIA. BY ADDING OR REMOVING INNER LINKS.
- 10. HINGE STRAP CAN BE INSTALLED ON ROUND, SQUARE, OCTAGONAL OR ANY SHAPE POLE DESIRED.
- 11.ALL TOLERANCES OF CASTINGS SHALL BE  $\pm \frac{1}{32}$ .
- 12.WHEN PEDESTRIAN CLAMP IS INSTALLED ON A 6" DIA. POLE, CLAMP SHALL BE DESIGNED TO PROVIDE A MINIMUM GAP OF  $\frac{1}{4}$ ".

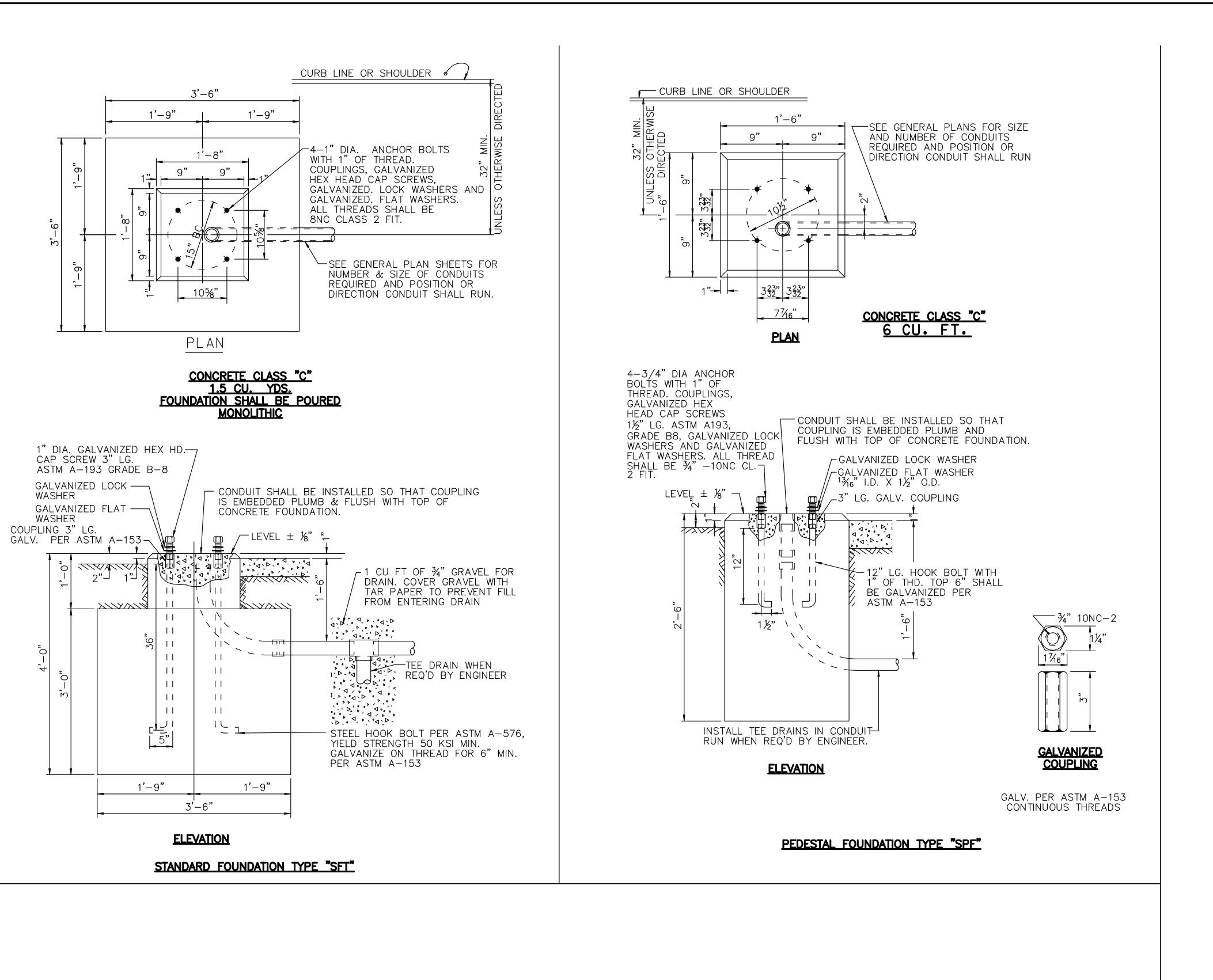


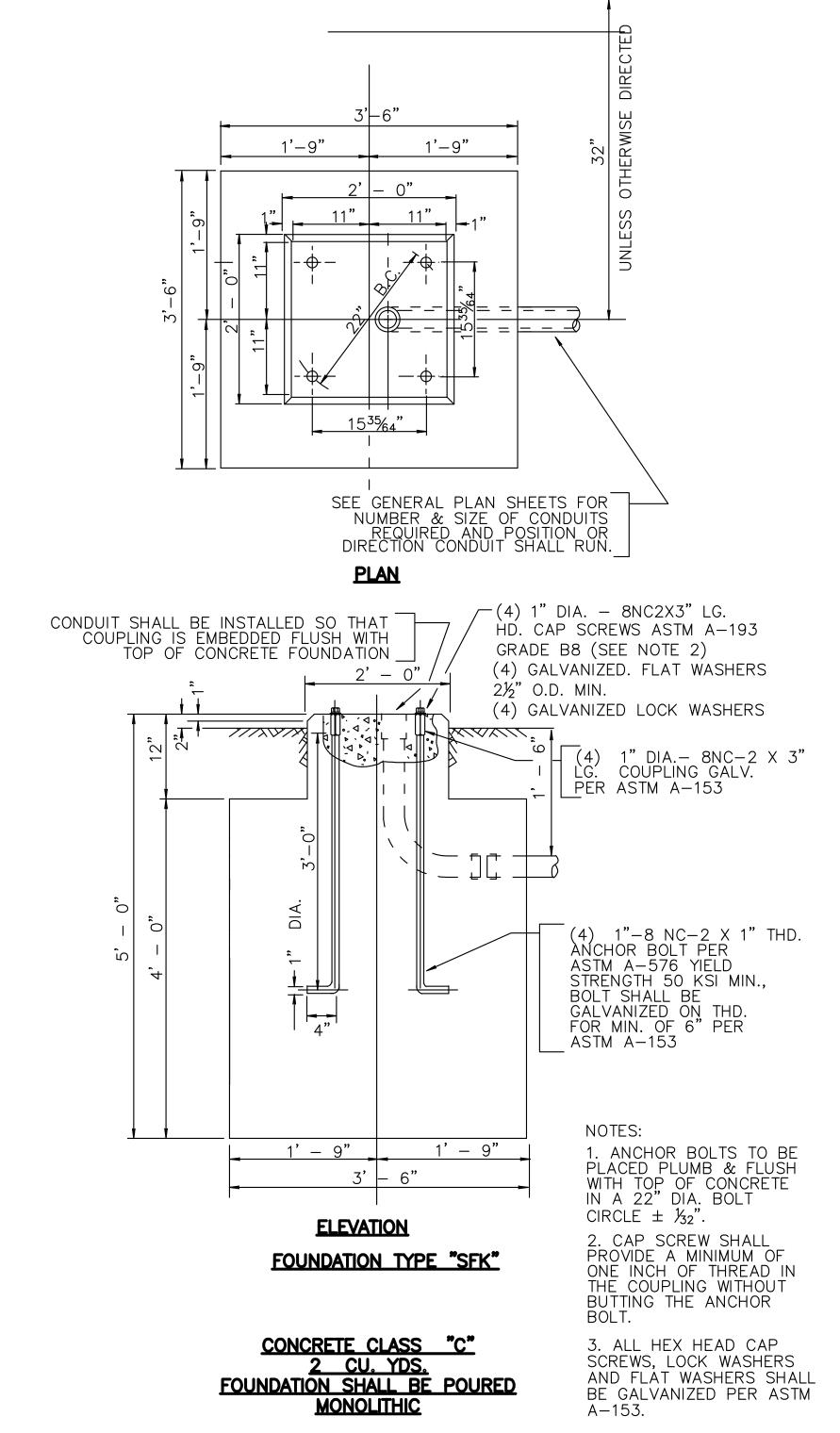
ELECTRICAL DETAILS SIGNAL ASSEMBLY DETAILS

COUNTY OF UNION 2325 SOUTH AVENU 2325 SOUTH AVENUE SCOTCH PLAINS, NJ 07076

SHEET NO. 18 of 37







CURB LINE —,

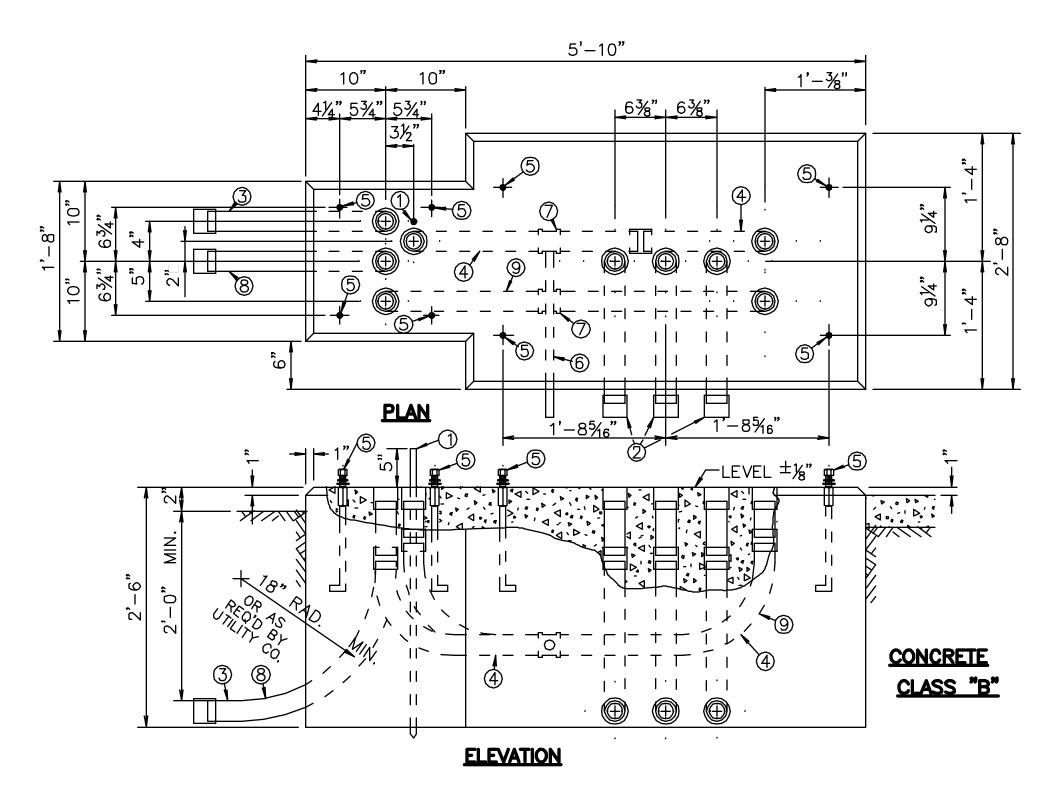
#### NOTES:

- 1. ALL CONDUIT SHALL BE INSTALLED SO THAT COUPLINGS ARE EMBEDDED PLUMB AND FLUSH WITH TOP OF CONCRETE FOUNDATION.
- 2. J-BOLT MUST BE INSERTED  $1\frac{1}{2}$ "  $\pm$   $\frac{1}{16}$ " INTO 3" COUPLING.

REVISION BY C'K'D DATE
UNION COUNTY, DIVISION OF ENGINEERING

ELECTRICAL DETAILS
TYPICAL FOUNDATION DETAILS

COUNTY OF UNION 2325 SOUTH AVENUE SCOTCH PLAINS, NJ 07076 SHEET NO. 20 of 37



# FOUNDATION TYPE "P-MC"

① %" X 12' LG. GROUND ROD.
② 3" DIA. RIGID METALLIC CONDUIT. (ALL SHALL EXTEND TO JUNCTION BOX)

3 RIGID METALLIC CONDUIT (SERVICE CONDUIT). SEE GENERAL

PLAN FOR DIRECTION AND SIZE

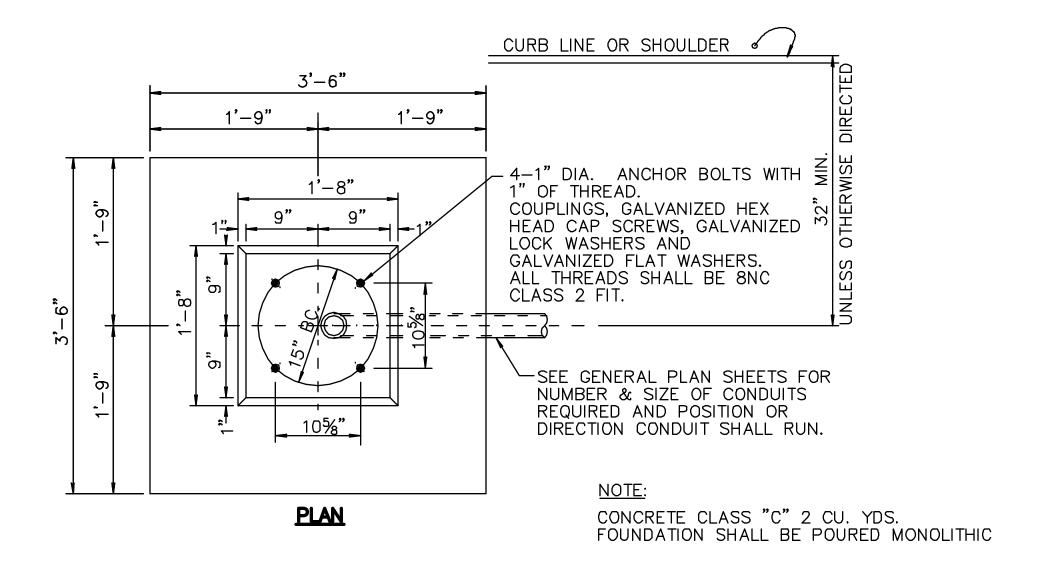
4 2" DIA. RIGID METALLIC CONDUIT (SERVICE CONDUIT)

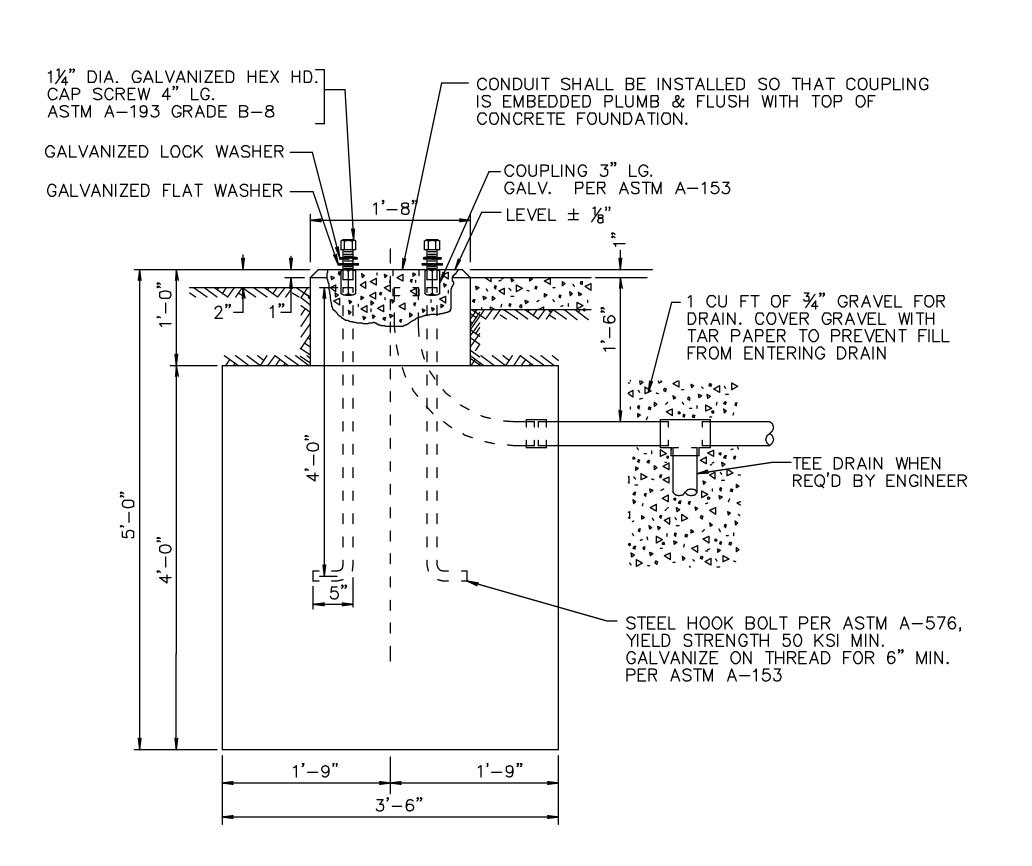
5 34" DIA. ANCHOR BOLTS (SEE "SPF" FOUNDATION FOR DETAILS)
6 DRAIN 1" DIA. RIGID METALLIC CONDUIT (PITCH TO JUNCTION BOX).

② 2" X 2" X 1" GALV. TEE FITTING.

8 RIGID METALLIC CONDUIT (INTERCONNECT CONDUIT). SEE GENERAL PLAN FOR DIRECTION AND SIZE IF NOT SPECIFIED 2" DIA. RMC SHALL BE INSTALLED.
9 2" DIA. RIGID METALLIC CONDUIT (INTERCONNECT CONDUIT)

- 1. ALL CONDUIT SHALL BE INSTALLED SO THAT COUPLINGS ARE EMBEDDED PLUMB AND FLUSH WITH TOP OF CONCRETE FOUNDATION.
- 2. J-BOLT MUST BE INSERTED  $1\frac{1}{2}$ "  $\pm \frac{1}{16}$ " INTO 3" COUPLING
- 3. ALL FOUNDATIONS SHALL BE POURED MONOLITHIC

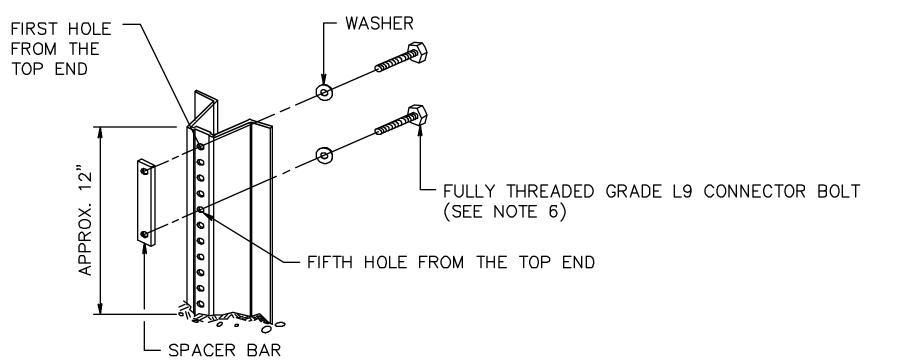


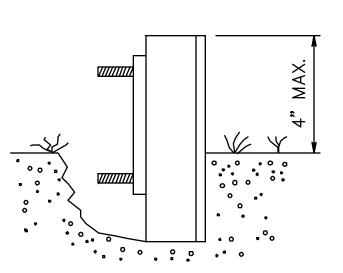


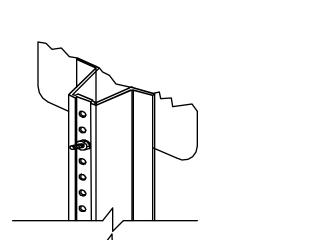
**ELEVATION** STANDARD FOUNDATION TYPE SFT-H

BY C'K'D DATE REVISION UNION COUNTY, DIVISION OF ENGINEERING

ELECTRICAL DETAILS TYPICAL FOUNDATION DETAILS



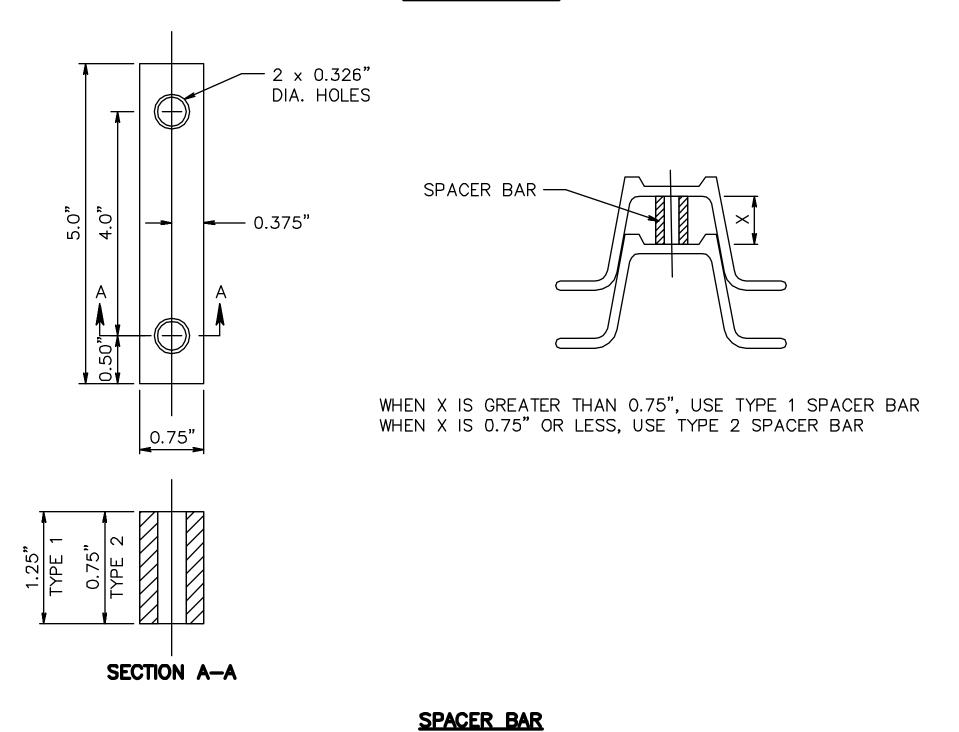




#### NOTES:

- 1. DRIVE ANCHOR POST ASSEMBLY TO WITHIN APPROXIMATELY 12 INCHES ABOVE GROUND LEVEL. PLACE BOLT AND WASHER IN FIRST AND FIFTH HOLES FROM THE TOP END, AND SECURE BOLTS ONTO SPACER.
- 2. DRIVE ANCHOR POST ASSEMBLY TO WITHIN A MAXIMUM OF 4 INCHES ABOVE GROUND LEVEL.
- 3. DIG OUT AROUND BACK OF ANCHOR POST ASSEMBLY TO ALLOW ROOM FOR TOP POST TO BE ATTACHED.
- 4. NEST TOP POST ASSEMBLY ONTO PROTRUDING ANCHOR POST ASSEMBLY BOLTS, THROUGH THE FIRST AND FIFTH HOLES FROM THE BOTTOM OF THE TOP POST.
- 5. PLACE AND TIGHTEN A SELF-LOCKING FLANGE NUT ON EACH BOLT. WHEN INSTALLATION IS COMPLETE, TOP OF GROUND POST SHALL NOT EXCEED 4 INCHES ABOVE GROUND LEVEL.
- 6. SIZE OF CONNECTOR BOLT FOR TYPE 1,  $\%_6$ " x 1½" SIZE OF CONNECTOR BOLT FOR TYPE 2,  $\%_6$ " x 2"
- 7. THE CONNECTOR BOLTS SHALL BE FULLY THREADED. EACH CONNECTOR BOLT AND NUT SHALL BE CLEARLY STAMPED WITH MANUFACTURER'S IDENTIFYING MARK.

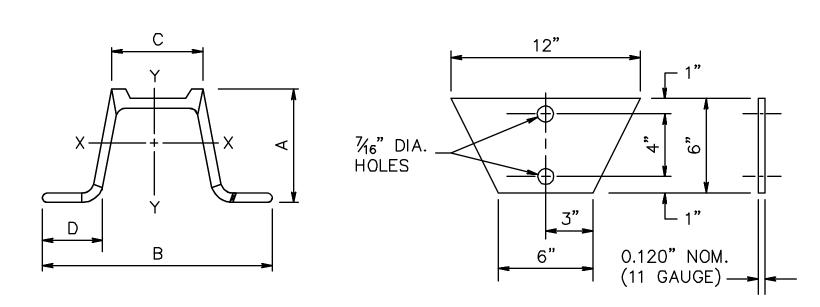
# ANCHOR POST ASSEMBLY SIGN SUPPORTS

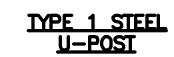


WEIGHT *		DIMENSI	(NI) SNC		AREA	X-X AXIS **		Y-Y AXIS	
LBS. / FT.	"A"	"B"	"C"	"D"	IN. 2	I(IN. 4)	S(IN. <sup>3</sup> )	I(IN. <sup>4</sup> )	S(IN. 3
2.50	1.516	3.062	1.278	0.669	0.760	0.228	0.313	0.539	0.352
4.00	1.968	3.500	1.336	0.834	1.187	0.611	0.707	1.161	0.664

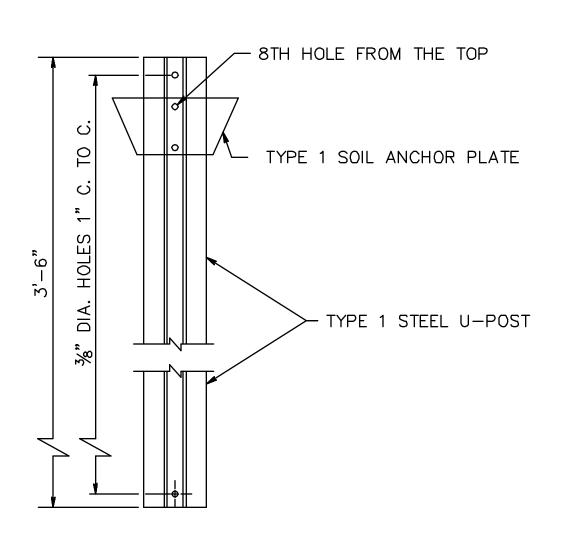
TYPE 1 STEEL U-POST PROPERTIES \* ± 5%

\*\* GOVERNING SECTION





TYPE 1 SOIL ANCHOR PLATE





# STEEL POSTS. POST CLIPS. SPACING. <u>ETC.</u> AND TWO PIECE STEEL U-POSTS.

#### NOTES:

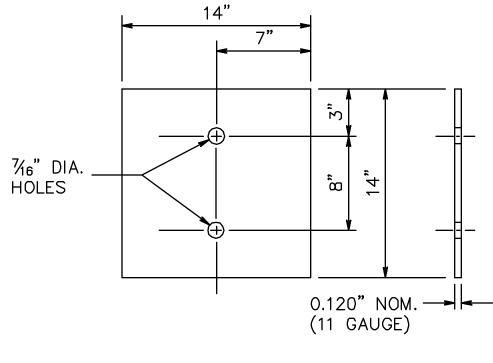
- 1. ANCHOR POST AND TOP POST SHALL BE OF EQUAL WEIGHT/FEET.
- 2. SOIL ANCHOR PLATE SHALL BE ATTACHED TO ALL ANCHOR POSTS.
- 3. THE MATERIAL FOR THE SOIL ANCHOR PLATES SHALL BE CARBON SHEET STEEL.
- 4. THE STEEL "U" POST SHALL BE GRADE 60.

WEIGHT *		DIMENSI	(NI) SNC		AREA	X-X AXIS **		Y-Y AXIS	
LBS. / FT.	"A"	"B"	"C"	"D"	IN. 2	I(IN. <sup>4</sup> )	S(IN. <sup>3</sup> )	I(IN. <sup>4</sup> )	S(IN. 3
2.50	1.549	3.125	1.250	0.625	0.748	0.233	0.289	0.551	0.353
4.00	1.845	3.500	1.625	0.718	1.190	0.500	0.560	1.190	0.690

\* ± 5%

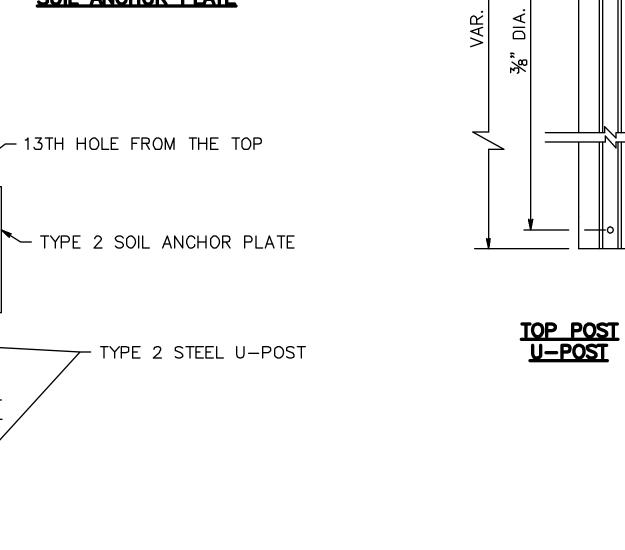
TYPE 2 STEEL U-POST PROPERTIES

\*\* GOVERNING SECTION



TYPE 2 STEEL U-POST





TYPE 2
ANCHOR POST
ASSEMBLY

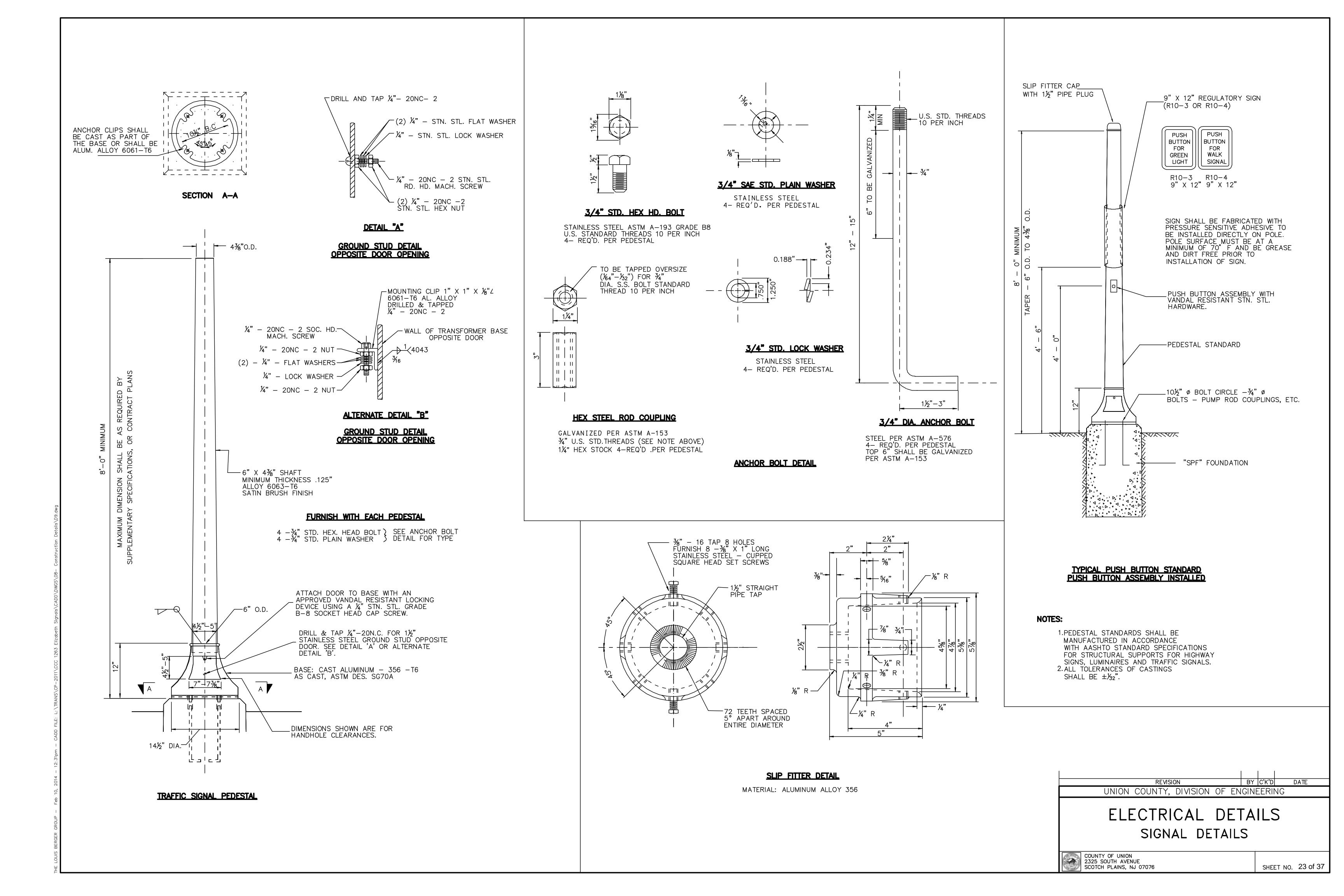
BY C'K'D REVISION UNION COUNTY, DIVISION OF ENGINEERING

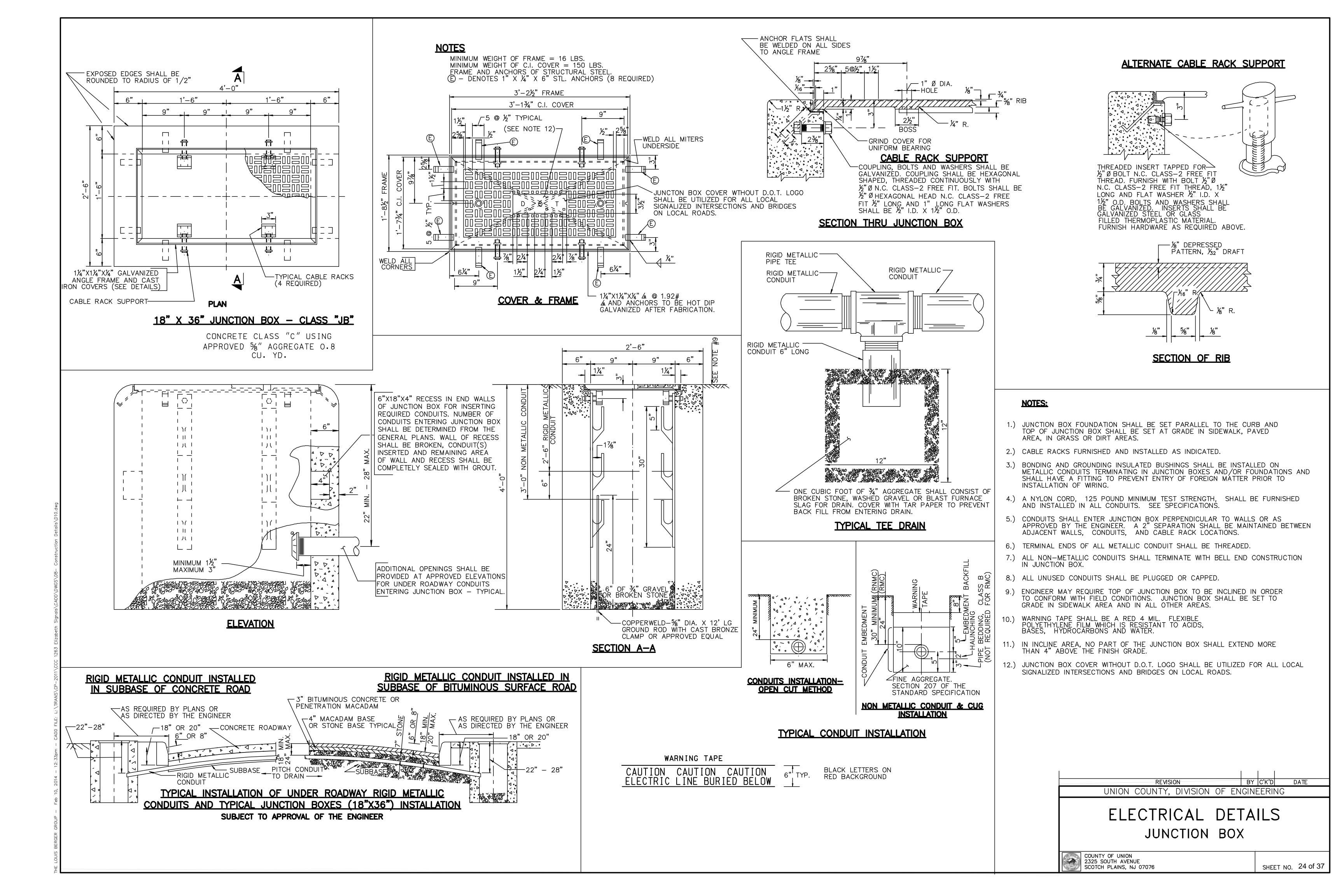
CONSTRUCTION DETAILS POST DETAILS

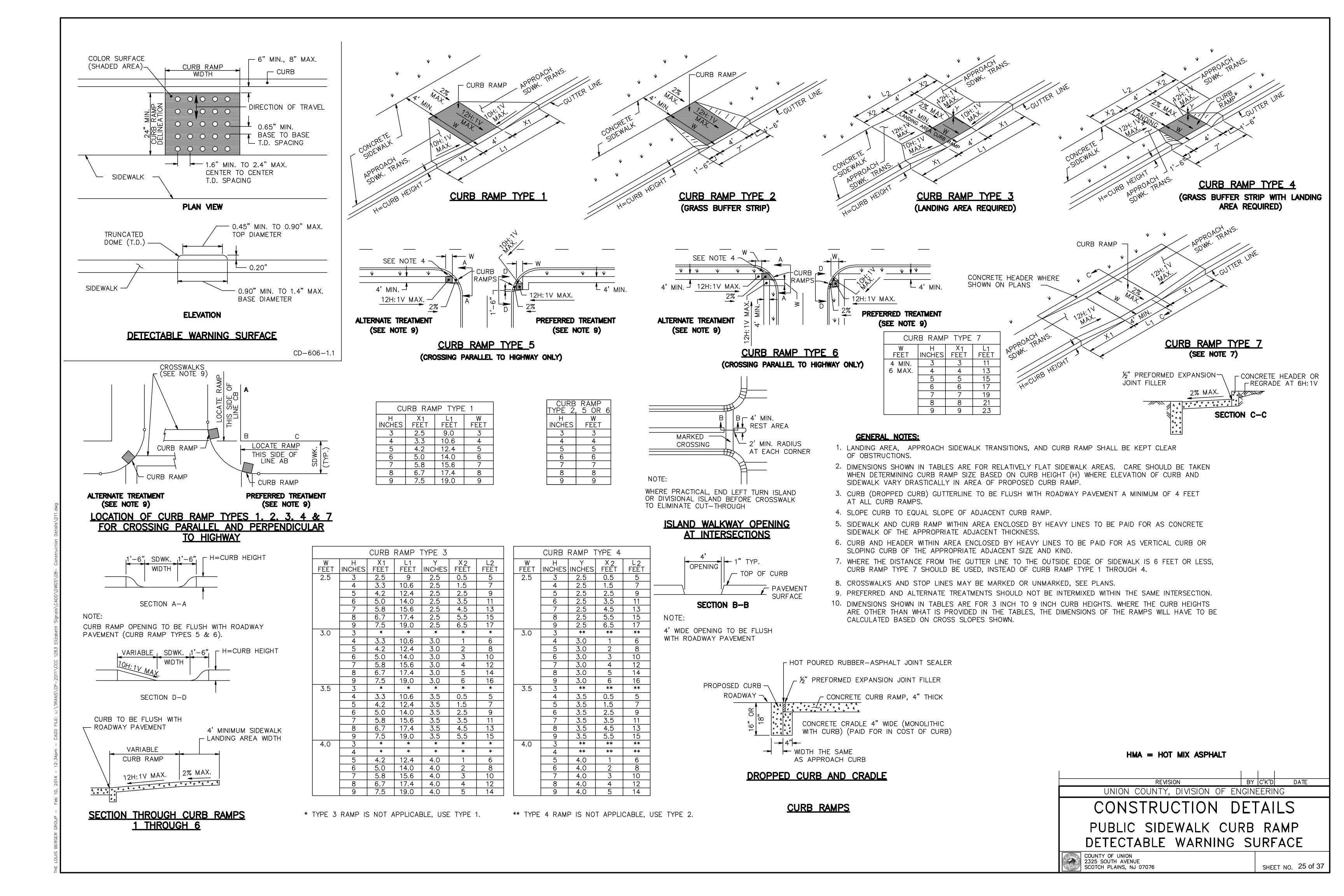


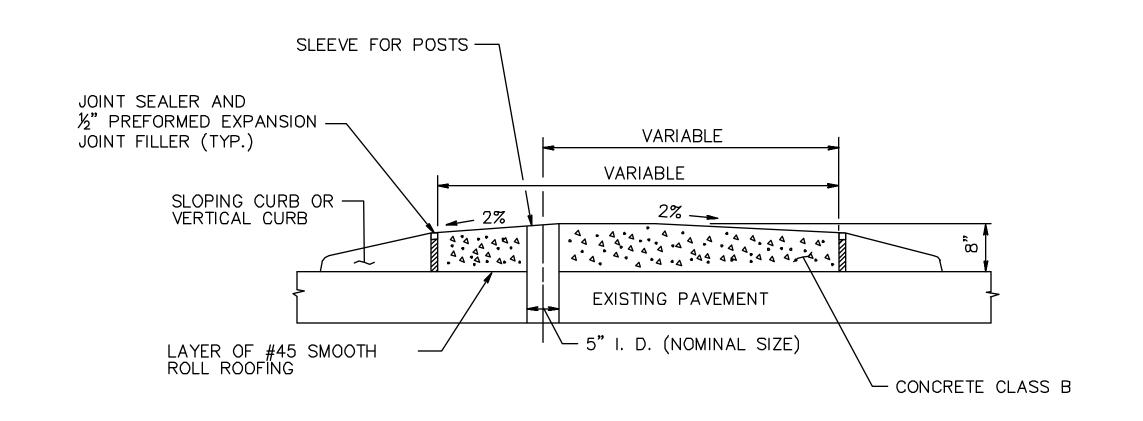
COUNTY OF UNION
2325 SOUTH AVENUE
SCOTCH PLAINS, NJ 07076

SHEET NO. 22 of 37

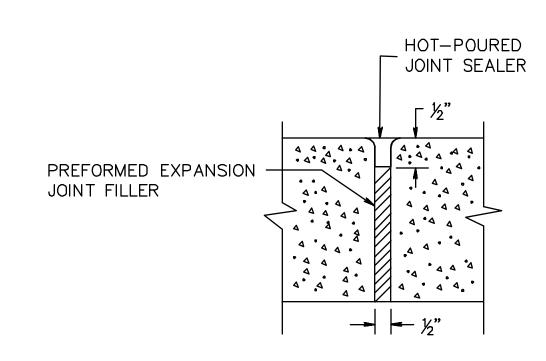




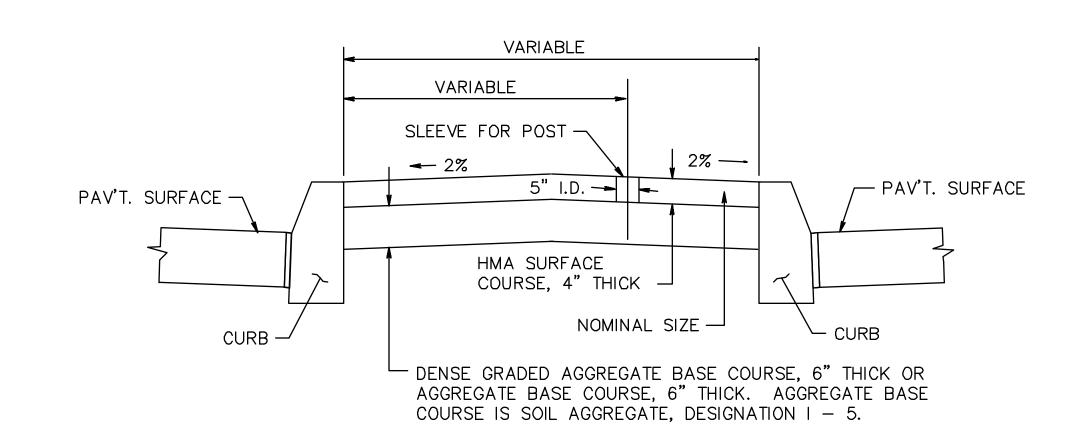




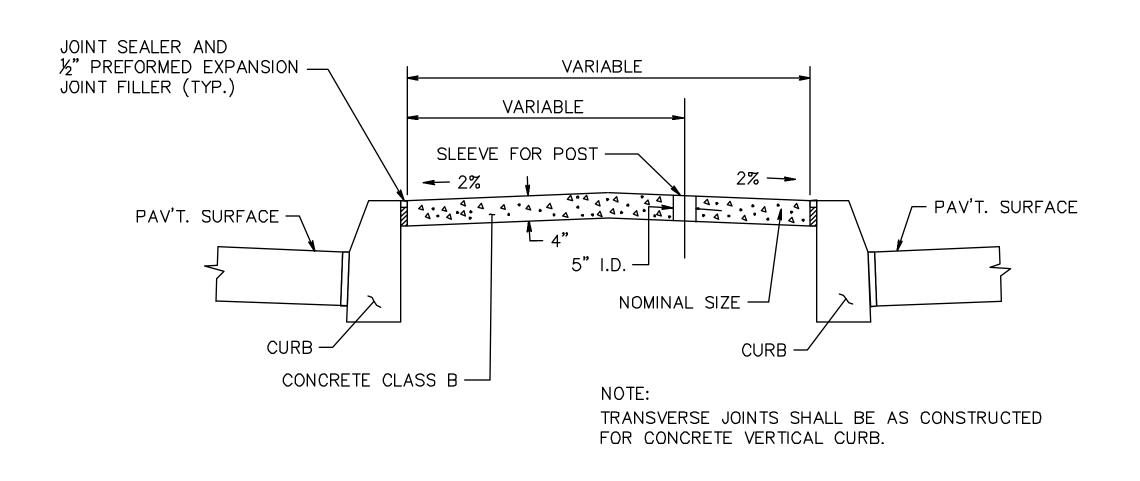
# CONCRETE ISLAND ON EXISTING PAVEMENT



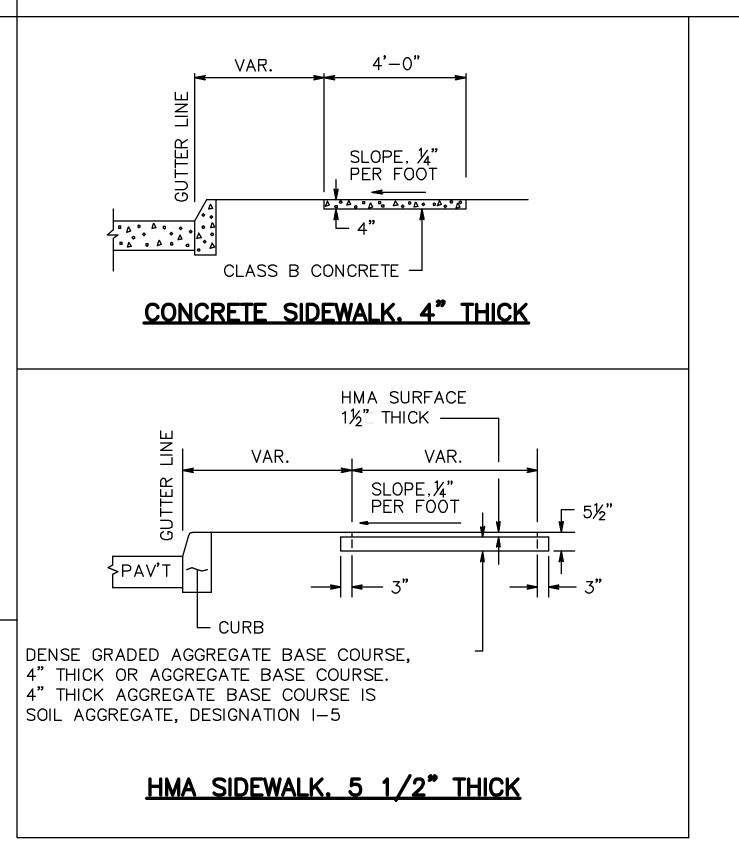
# LONGITUDINAL & TRANSVERSE JOINT TREATMENT FOR CONCRETE ISLAND



# HMA ISLAND. 10" THICK

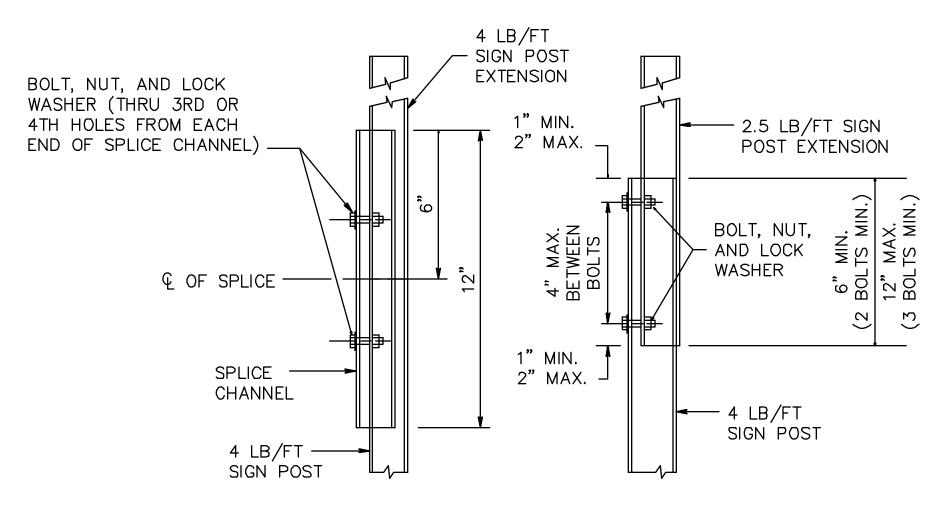


CONCRETE ISLAND. 4" THICK



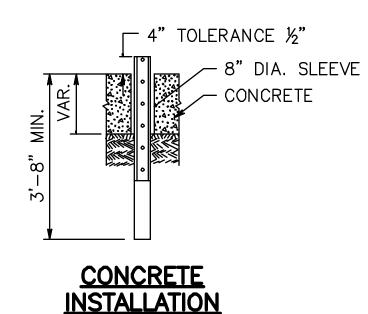
REVISION BY C'K'D DATE
UNION COUNTY, DIVISION OF ENGINEERING

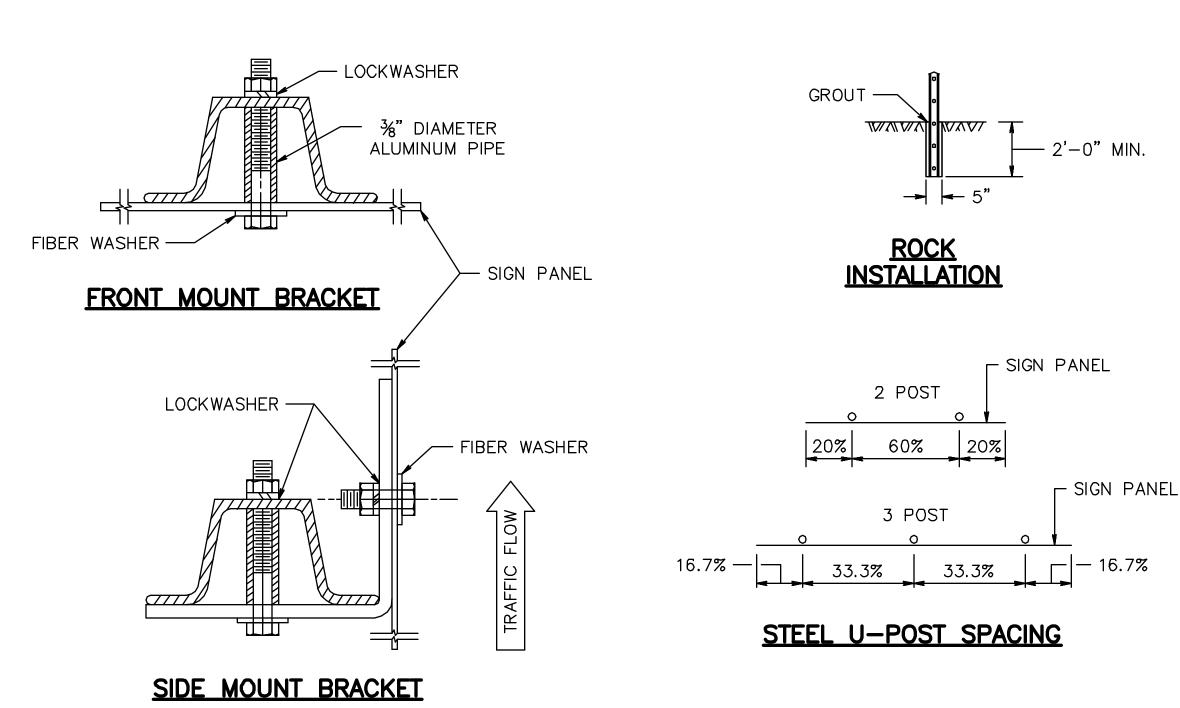
CONSTRUCTION DETAILS ISLANDS AND SIDEWALKS

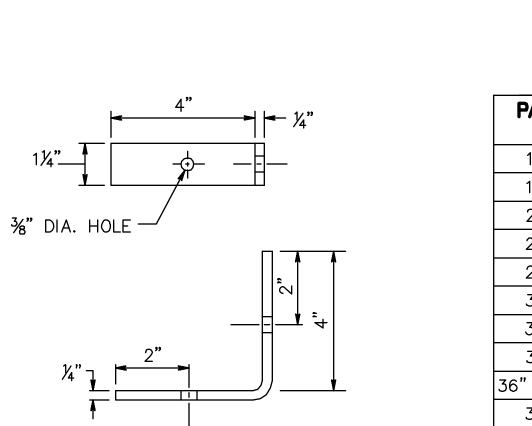


SIGN POST EXTENSION

SPLICE DETAILS



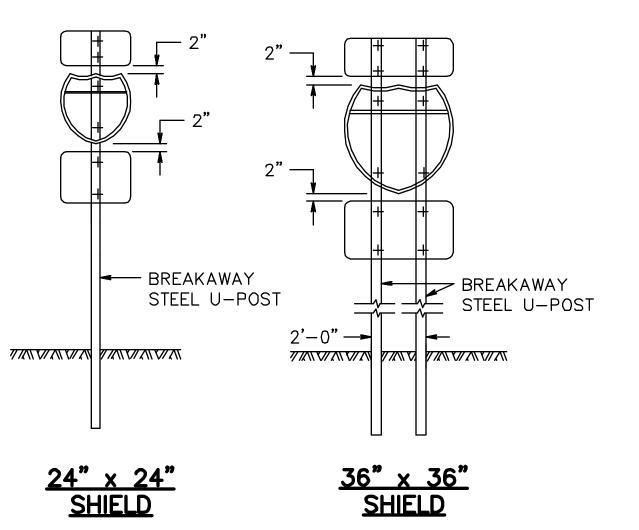


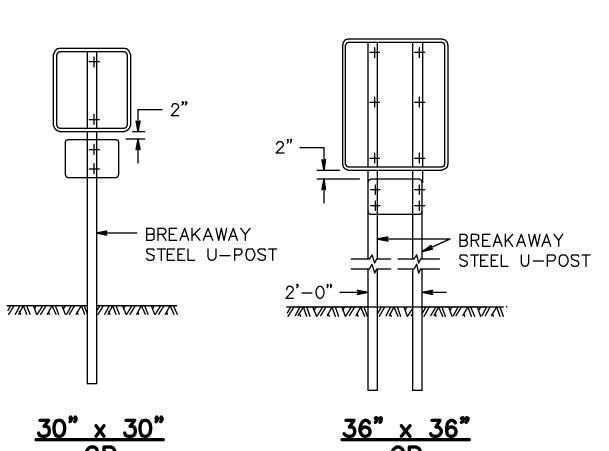


PANEL SIZE (W x H)	00	POST SIZE (LB/ FT)
18" x 18"	1	2.5
18" × 24"	1	2.5
24" x 24"	1	2.5
24" × 30"	1	2.5
24" × 36"	1	2.5
30" × 24"	1	2.5
30" x 30"	1	2.5
36" × 12"	2	2.5
36" × 36" × 36"	2	2.5
30" × 36"	1	4.0

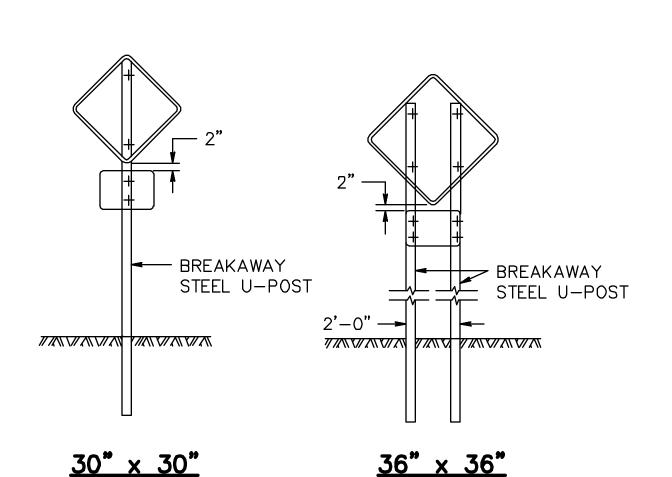
PANEL SIZE (W x H)	# OF POSTS	POST SIZE (LB/ FT)		# OF POSTS	POST SIZ
18" x 18"	1	2.5	36" x 36"	2	2.5
18" × 24"	1	2.5	36" × 48"	2	2.5
24" x 24"	1	2.5	45" x 36"	2	2.5
24" × 30"	1	2.5	48" x 24"	2	2.5
24" x 36"	1	2.5	48" x 36"	2	2.5
30" × 24"	1	2.5	48" x 48"	2	4.0
30" x 30"	1	2.5	48" x 64" x 64"	2	2.5
36" × 12"	2	2.5	60" x 36"	2	4.0
" × 36" × 36"	2	2.5	48" x 60"	2	4.0
30" x 36"	1	4.0	60" x 30"	2	4.0

U-POST SELECTION TABLE **DETAIL OF BRACKET** FOR SIDE MOUNTED SIGNS **BREAKAWAY SIGN SUPPORT** 

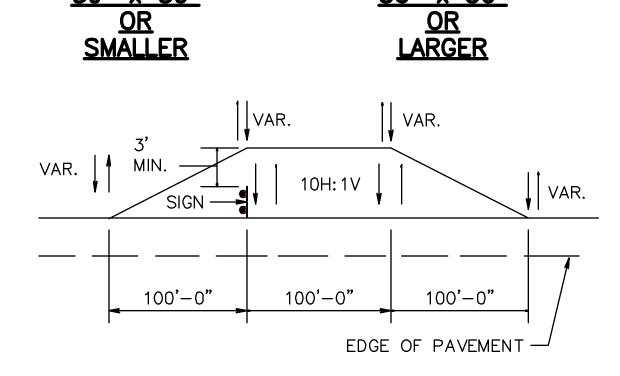




**LARGER** 



**SMALLER** 



STEEL U-POST GRADING DETAIL

#### **GENERAL NOTES:**

- 1. ALL POSTS SHALL BE OF ADEQUATE LENGTH TO MEET THE REQUIREMENTS FOR ERECTION AS STATED IN THE CURRENT "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AND AS INDICATED BELOW.
- 2. ALL SMALL SIGN SUPPORTS SHALL BE OF THE BREAKAWAY TYPE WITH EXCEPTION OF THOSE INSTALLED BEHIND GUIDE RAIL OR OTHER ROADSIDE BARRIER.
- 3. ALL STEEL POSTS AND BRACKETS SHALL BE CUT, BENT, AND HOLES PUNCHED AND DRILLED BEFORE GALVANIZING. GALVINIZING SHALL BE IN CONFORMANCE WITH ASTM A123.
- ALL STEEL U-POST SIGN SUPPORTS MUST BE INSTALLED FACING THE PREDOMINANT TRAFFIC FLOW. A MOUNTING BRACKET SHOULD BE USED ON SIDE MOUNTED SIGNS SUCH AS "ONE WAY" SIGNS INSTALLED IN MEDIANS.
- 5. SIGN PANEL SIZES SHALL DETERMINE POST TYPE AND NUMBER AS SHOWN ON THIS DETAIL.
- 6. BOLTS SHALL NOT PROTRUDE MORE THAN 34" BEYOND THE NUT WHEN TIGHT, BUT SHALL ENGAGE ALL THREADS IN THE NUT.
- 7. WHEN SIGNS ARE INSTALLED ON SLOPES 10H:1V OR FLATTER, THE MINIMUM VERTICAL CLEARANCE REQUIREMENTS FOR SIGNS ARE:

FOR SINGLE POST INSTALLATIONS — THE MINIMUM DISTANCE BETWEEN THE EDGE OF THE PAVEMENT AND THE BOTTOM OF ANY PANEL MUST BE 7 FEET, AND THE MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO THE TOP OF ANY SIGN PANEL MUST BE 9 FEET.

FOR MULTI-POST INSTALLATIONS - THE MINIMUM DISTANCE BETWEEN THE EDGE OF PAVEMENT AND THE BOTTOM OF A MAJOR SIGN PANEL MUST BE 7 FEET.

SECONDARY SIGN PANELS (LAND SERVICE HIGHWAYS) - THE MINIMUM DISTANCE BETWEEN THE EDGE OF PAVEMENT AND THE BOTTOM OF A SECONDARY SIGN PANEL IS 6 FEET.

SECONDARY SIGN PANELS (INTERSTATE AND FREEWAYS) - THE BOTTOM OF THE MAJOR SIGN SHALL BE A MINIMUM OF 8 FEET AND THE SECONDARY SIGN PANEL A MINIMUM OF 5 FEET ABOVE THE EDGE OF PAVEMENT.

WHERE GRADING OF 10H: 1V OR FLATTER CANNOT BE OBTAINED, OR WHERE CURB OR BERM IS GREATER THAN 4 INCHES, THE MINIMUM VERTICAL CLEARANCE WILL BE MEASURED FROM THE GROUND LINE TO THE BOTTOM OF THE SIGN.

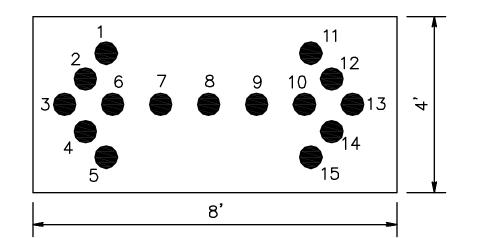
- 8. PERMANENT SIGN SUPPORTS SHOULD NOT BE INSTALLED ON SLOPES GREATER THAN 10H:1V, EXCEPT WHERE GRADING OF 10H:1V CANNOT BE OBTAINED OR THE SIGN SUPPORTS WILL BE BEHIND A TRAFFIC BARRIER. THE SLOPE SHALL EXTEND A MINIMUM OF 3 FEET BEYOND THE OUTSIDE EDGE OF SIGN (SEE GRADING DETAIL FOR SLOPE TREATMENT).
- 9. EXTRUDED ALUMINUM SIGN PANELS ARE NOT PERMITTED FOR USE WITH STEEL U-POST
- 10. STEEL U-POST SIGN SUPPORTS SHALL NOT BE PLACED IN FRONT OF GUIDE RAIL AND THE POSTS MUST NOT STRADDLE GUIDE RAIL.
- 11. TO EXTEND THE HEIGHT OF A SIGN POST, A MAXIMUM OF ONE SPLICE MAY BE MADE AND MUST BE A MINIMUM OF 9 FEET FROM THE GROUNDLINE TO CENTER LINE OF SPLICE.

BY C'K'D REVISION UNION COUNTY, DIVISION OF ENGINEERING

CONSTRUCTION DETAILS SIGNING AND SIGN POSTS

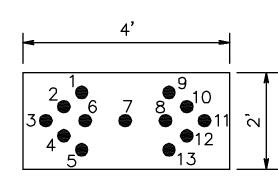
COUNTY OF UNION
2325 SOUTH AVENUE
SCOTCH PLAINS, NJ 07076

SHEET NO. 27 of 37



4' x 8' BOARD

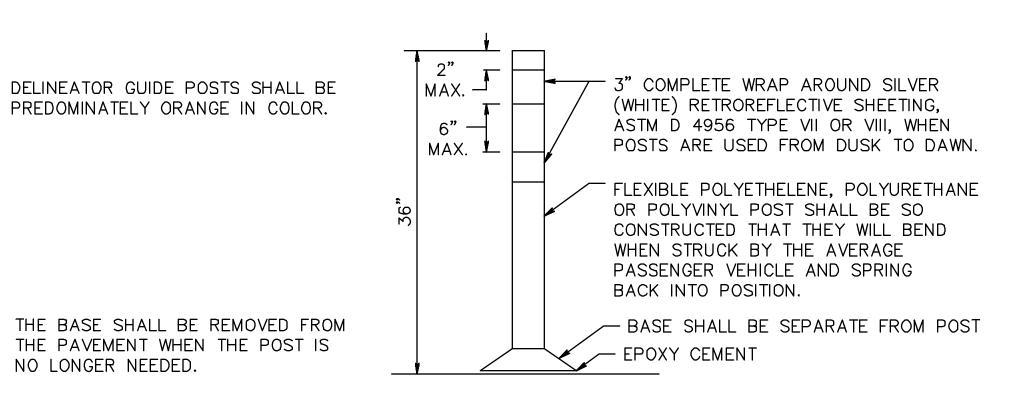
FLASHING MESSAGES TO LIGHT AS FOLLOWS RIGHT ARROW 3, 6, 7, 8, 9, 11, 12, 13, 14 & 15 LEFT ARROW 1, 2, 3, 4, 5, 7, 8, 9, 10 & 13 DOUBLE ARROW 1, 2, 3, 4, 5, 7, 8, 9, 11, 12, 13, 14 & 15 CAUTION MODE 1, 5, 11 & 15



2' x 4' BOARD

RIGHT ARROW 3, 6, 7, 9, 10, 11, 12 & 13 LEFT ARROW 1, 2, 3, 4, 5, 7, 8 & 11 DOUBLE ARROW 1, 2, 3, 4, 5, 7, 9, 10, 11, 12 & 13 CAUTION MODE 1, 5, 9 & 13

#### **ILLUMINATED FLASHING ARROWS**



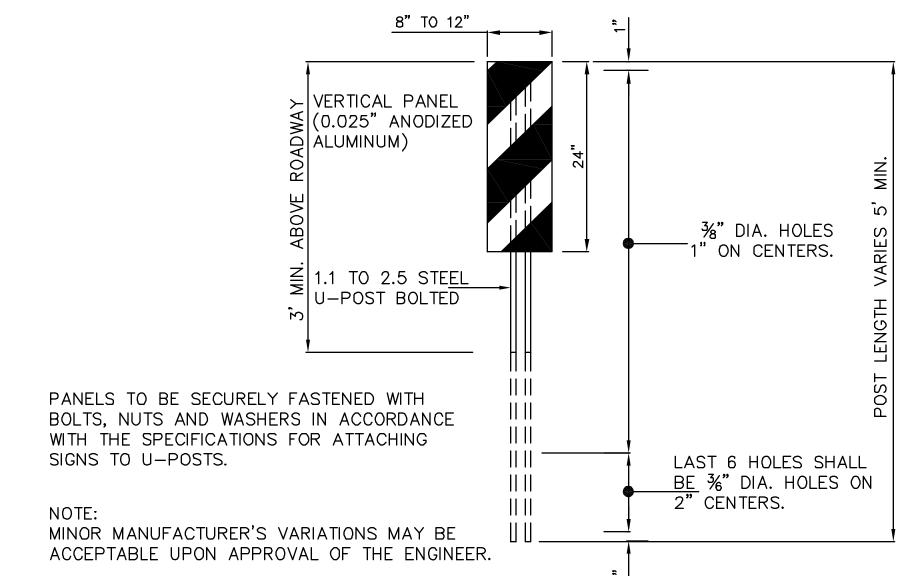
NOTE:

MINOR MANUFACTURER'S VARIATIONS MAY BE ACCEPTABLE UPON APPROVAL OF THE R.E..

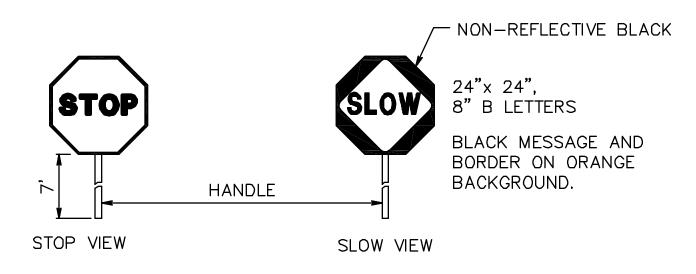
## **DELINEATOR GUIDE POSTS**

VERTICAL PANELS

ALTERNATE ORANGE AND SILVER (WHITE) STRIPES SHALL BE RETROREFLECTIVE SHEETING. ASTM D 4956 TYPE III, 6" WIDE SLOPING DOWNWARD AT AN ANGLE OF 45° IN THE DIRECTION TRAFFIC IS TO PASS.



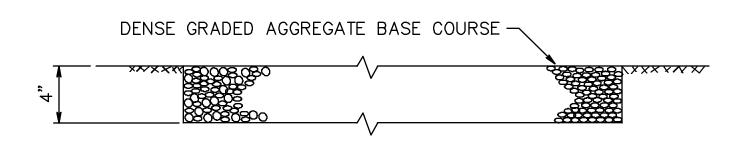
R 1 - 124"x 24", 8" C LETTERS WHITE MESSAGE AND BORDER ON RED BACKGROUND.



NOTE:

SIGN FACES SHALL BE RETROREFLECTIVE SHEETING, ASTM D 4956 TYPE III.

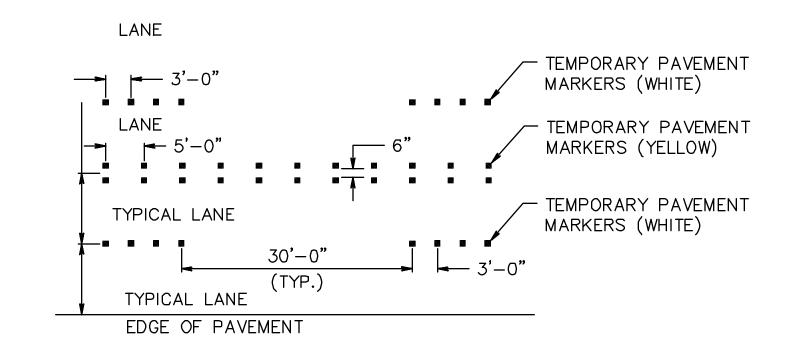
#### STOP/ SLOW PADDLE



NOTE:

ALL EXCAVATION OR EMBANKMENT REQUIRED TO CONSTRUCT TEMPORARY SIDEWALK SHALL BE INCLUDED IN UNIT PRICE BID FOR PAY ITEM, SIDEWALK.

#### TEMPORARY SIDEWALK



NOTES:

- 1. WHEN TEMPORARY PAVEMENT MARKERS ARE TO SIMULATE LANE LINES ON SHARP CURVES OR IN TRANSITIONS TO EITHER REDUCE THE NUMBER OF LANES OR TO SHIFT TRAFFIC LATERALLY, THE TEMPORARY PAVEMENT MARKERS SHALL BE SPACED 5 FEET APART CONTINUOUSLY THROUGH THE CURVE OR TRANSITION AREA.
- 2. TEMPORARY PAVEMENT MARKERS SHOULD NOT BE USED TO DELINEATE RIGHT EDGE LINES.

# TEMPORARY PAVEMENT MARKERS

BY C'K'D REVISION UNION COUNTY, DIVISION OF ENGINEERING

CONSTRUCTION DETAILS TRAFFIC CONTROL DEVICES

COUNTY OF UNION
2325 SOUTH AVENUE
SCOTCH PLAINS, NJ 07076

SHEET NO. 28 of 37

DETOUR

**END** 

M4 - 8a [24" x 18"] (3 S.F.) M4 - 11 (S) [48" x 36"] (12 S.F.)

**SPEED** 

 $R2 - 1 [36" \times 48"]$ 

(12 S.F.)

R2 - 1 (S) [48" x 60"] (20 S.F.)

(L OR R)

 $W1 - 4a [48" \times 48"]$ 

(16 S.F.)

W13 - 1 [18" x 18"] (2.3 S.F.) W13 - 1 (S) [24" x 24"] (4 S.F.)

W20 - 7a [48" x 48"] (16 S.F.)

SHOULDER

WORK



W8 - 1 (S) [48" x 48"] (16 S.F.)

END ROAD WORK

 $G20 - 1 [60" \times 24"]$ 

(10 S.F.)

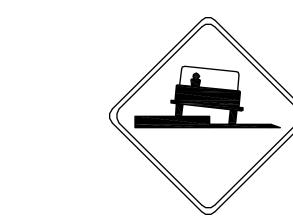
LIMIT

(L OR R)
W1- 6 [48" x 24"]
(8 S.F.)

W1 - 6 (S) [60" x 30"] (12.5 S.F.) ROAD
WORK

MPH

W20 - 1A [48" × 48"] (16 S.F.) W21 - 5 (S) [48" × 48"] (16 S.F.)



W8 - 11a [48" x 48"] (16 S.F.)

DETOUR

 $M4 - 9L (LEFT) [30" \times 24"]$ 

M4 – 9R (RIGHŤ) [30"  $\times$  24 $^{"}$ ]

(5 S.F.)

M4 - 9 (L or R) (S) [48" x 36"] (12 S.F.)

DETOUR

M4 - 9LX (LEFT) [30" x 24"] M4 - 9RX (RIGHT) [30" x 24"]

(5 S.F.)

 $M4 - 9 (L \text{ or } R) XS [48" \times 36"]$  (12 S.F.)

G20 - 2A [48" x 24"] (8 S.F.)

NOT

DO NOT PASS

R4 - 1 [24" x 30"]

(5 \$.F.)

ROAD

CLOSED

 $R11 - 2 [48" \times 30"]$ 

(10 S.F.)

**ROAD** 

**NARROWS** 

W5 - 1 (S) [48" x 48"] (16 S.F.)

(L OR R)

W4 - 2 [48" x 48"]

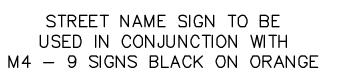
(16 S.F.)



(2.5 S.F.)

W20 - 2 [48" x 48"]
(16 S.F.)

(SIZE WILL VARY WITH LENGTH OF STREET NAME)



KEEP

RIGHT

 $M4 - 9N [30" \times 12" MIN.]$ 



W8 - 15F [48" x 48"] (16 S.F.)



W8 - 15P [36" x 30"]

(7.5 S.F.)

ROAD
CLOSED

W20 - 3 [48" × 48"] (16 S.F.)



[24" x 24"] (4 S.F.) [30" x 30"] (S) (6.3 S.F.)

KEEP

LEFT

 $[24" \times 24"]$ 

(4 S.F.)

 $[30" \times 30"]$  (S)

(6.3 S.F.)



W8 - 15 [48" x 48"] (16 S.F.)

W6 - 3 [48" x 48"] (16 S.F.)



W20 - 4 [48" x 48"] (16 S.F.)



W99 - 2 [48" x 48"] (16 S.F.)

DETOUR

M4 - 9X [30" x 24"] (5 S.F.)

M4 - 9X (S) [48" x 36"] (12 S.F.) ROAD CLOSED
\_\_MILES AHEAD
LOCAL TRAFFIC ONLY

R11 - 3 [60" x 30"] (12.5 S.F.)

> BE PREPARED TO STOP

W20 - 7b [48" x 48"] (16 S.F.)



(L OR R) (CENTER) W20 - 5 [48" x 48"] (16 S.F.) NOTE:

THE BORDER, THE WORDS "GIVE US A", "SLOW DOWN!", AND THE BRAKE PEDAL ARE BLACK; LEAVING THE WORD "BRAKE" ORANGE.

DETOUR

M4 - 10L (LEFT) [48" x 18"] M4 - 10R (RIGHT) [48" x 18"] (6 S.F.) TO THRU TRAFFIC

R11 - 4 [60" x 30"] (12.5 S.F.) **GENERAL NOTES:** 

DIMENSIONS, COLORS AND DETAILS OF VARIOUS SIZE SIGNS, AND ACCESSORY PANELS TO FOLLOW STANDARDS IN THE CURRENT "STANDARD HIGHWAY SIGN PUBLICATION" AND THE CURRENT "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS".

2. (S) REPRESENTS A SPECIAL SIZE SIGN.

LETTERS AND NUMERALS SHALL CONFORM TO THE CURRENT MANUAL, "STANDARD ALPHABETS FOR HIGHWAY SIGNS" U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.

4. THE CONTRACTOR SHALL OBTAIN THE APPROVAL OF THE ENGINEER FOR THE DISTANCE TO BE USED ON THE ADVANCE WARNING SIGNS, AND FOR THE SPEED LIMIT TO BE USED ON THE R2-1 SIGN.

DISTANCE LEGEND: SIGN NUMBER FOLLOWED BY A LETTER & DISTANCE, ARE THE SIGN PLACEMENTS FOR USE WITH TCD-3 THROUGH TCD-21 AND PROJECT SPECIFIC PLANS. ALL DISTANCES ARE FROM THE TRANSITION OR POINT OF RESTRICTION.

LETTER DISTANCE

A 1500'
B 1000'
C 500'
D \_\_\_MILE
E \_\_\_MILES AHEAD
F AHEAD

BACKING MATERIAL

ALUMINUM SHALL BE FLAT SHEET OF ALLOY AND TEMPER 5052-H38 OR 6061-T6:

A. 0.10" THICK FOR ALL CONSTRUCTION SIGNS EXCEPT SIGNS SHOWN MOUNTED ON BREAKAWAY BARRICADES.

B. 0.024" THICK FOR ALL CONSTRUCTION SIGNS SHOWN MOUNTED ON BREAKAWAY BARRICADES.

TEMPORARY SIGN SUPPORTS

1. STEEL POSTS SHALL BE IN ACCORDANCE WITH THE STANDARD DETAIL FOR U-POST SIGN SUPPORT.

TEMPORARY SIGN SUPPORTS NOT MEETING THIS CRITERIA SHALL BE SHIELDED BY A LONGITUDINAL BARRIER OR CRASH CUSHIONS.

. WOOD POST TO BE USED ONLY ON TEMPORARY SIGN SUPPORT.

SIGN FACES

1. SIGN FACES SHALL BE ASTM D 4956 TYPE VII OR VIII FLUORESCENT ORANGE SHEETING.

**FASTENING** 

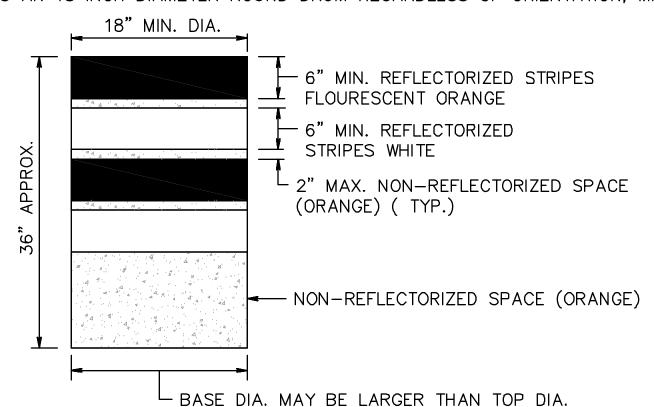
ALL SIGNS SHALL BE SECURELY FASTENED TO THEIR SUPPORTS WITH BOLTS, NUTS AND WASHERS IN ACCORDANCE WITH THE SPECIFICATIONS.

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UNION COUNTY, DIVISION OF ENGINEERING

CONSTRUCTION DETAILS
TRAFFIC CONTROL DEVICES

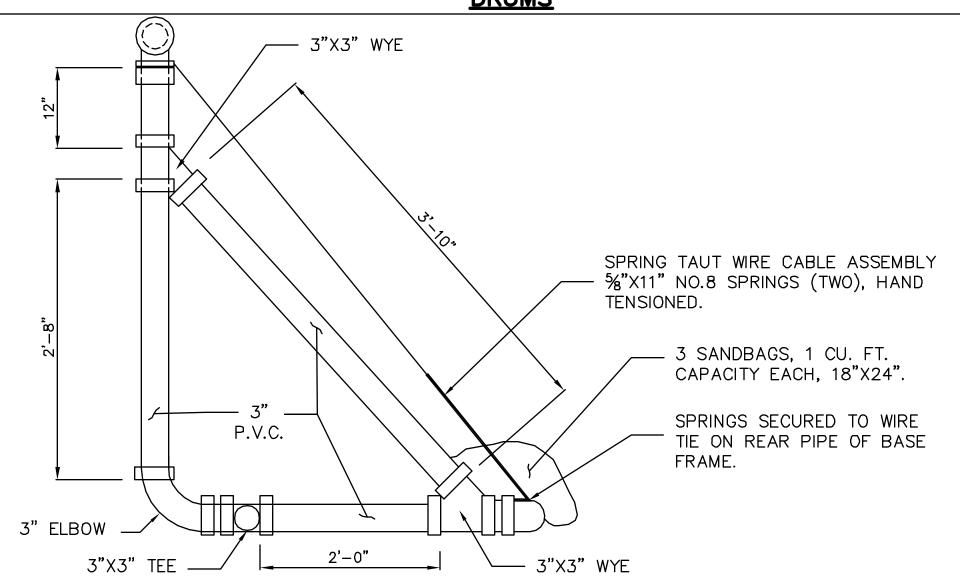
DRUMS SHALL BE MADE OF ORANGE PLASTIC WITH A MINIMUM OF FOUR ALTERNATE FLUORESCENT ORANGE AND WHITE RETROREFLECTIVE STRIPES. IF THERE ARE NON-REFLECTORIZED SPACES BETWEEN THE STRIPES, THEY SHALL BE NO MORE THAN 2" WIDE. RETROREFLECTIVE SHEETING FOR STRIPES SHALL CONFORM WITH ASTM D 4956 TYPE VII OR VIII WITH S2 REQUIREMENTS. THE TOP OF THE DRUM SHALL NOT BE OPEN. DRUMS SHALL BE CONSTRUCTED TO INHIBIT ROLLING IF KNOCKED OVER.

THE REFLECTORIZED AREA OF DRUMS SHALL BE ROUND EXCEPT THAT OTHER SHAPES, WHICH PROVIDE THE SAME VISIBILITY AS AN 18 INCH DIAMETER ROUND DRUM REGARDLESS OF ORIENTATION, MAY BE USED.

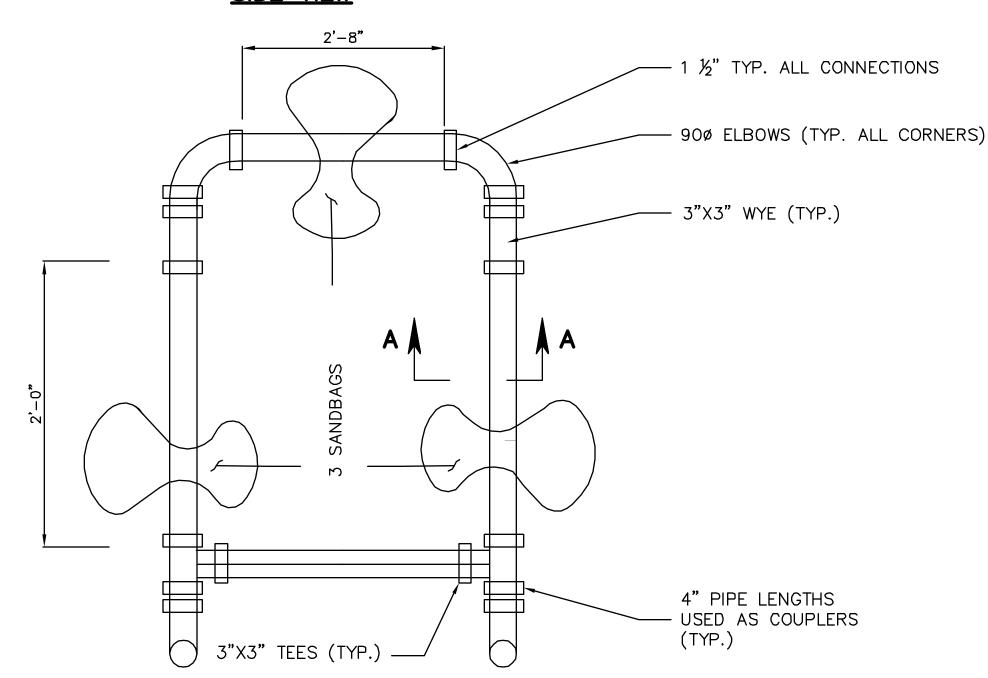


WHEN BALLAST IS REQUIRED BY THE R.E., SAND SHALL BE USED. THE MAXIMUM WEIGHT OF THE BALLAST SHALL BE 50 LBS. AND BE LOCATED APPROXIMATELY AT GROUND LEVEL. ALTERNATE TYPES OF BALLAST SHALL BE APPROVED BY THE R.E..

# **DRUMS**



# SIDE VIEW



# TOP VIEW OF BASE

TYPE III. PVC

PIPE SHALL BE WHITE PVC SCHEDULE 40 ASTM D 1785 OR PVC, SDR-26 ASTM D 2241. FITTINGS SHALL BE WHITE PVC OR ABS OF MATCHING WALL THICKNESS AND INSIDE DIAMETER AND MEETING THE MATERIALS, REQUIREMENTS AND TESTING SECTIONS OF ASTM D 2466 FOR PVC AND ASTM D 2468 FOR ABS. ALL JOINTS SHALL BE SLIP FIT AND NOT THREADED OR CEMENTED. PVC FITTINGS MEETING ASTM D 2665 WILL ALSO BE ACCEPTABLE. PVC OR ABS MATERIAL SHALL BE ULTRAVIOLET LIGHT STABILIZED.

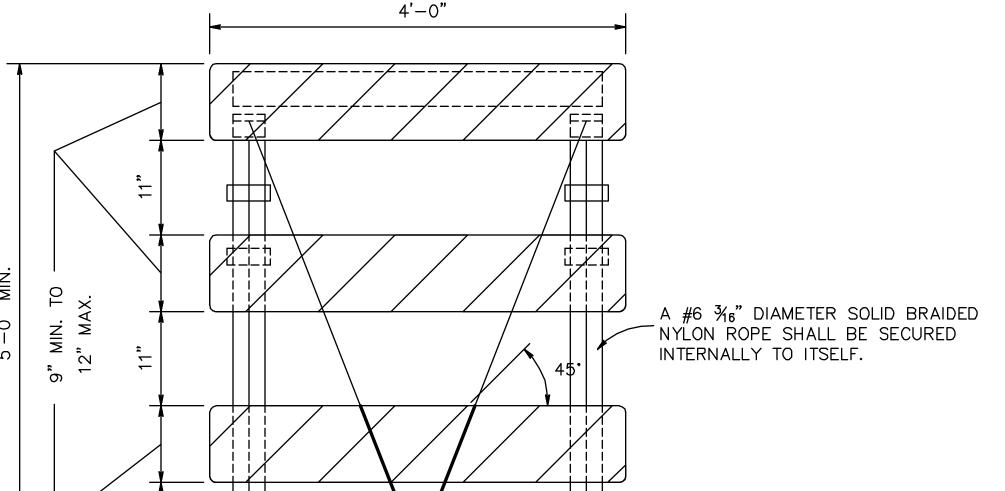
#### — 3" TO 4" SPACE FOR HANDLING. NOTES: –6"SILVER (WHITE) RETROREFLECTIVE TRAFFIC CONES SHALL BE SHEETING, ASTM D-4956 TYPE III PREDOMINATELY ORANGE IN COLOR. —— 2" SPACE BASES MAY BE OF BREAKAWAY BALLASTED TYPE. — 4" SILVER (WHITE) RETROREFLECTIVE MINOR MANUFACTURER'S VARIATIONS SHEETING, ASTM D-4956 TYPE III MAY BE ACCEPTABLE UPON APPROVAL OF THE ENGINEER. — PLASTIC OR RUBBER, MIN. WEIGHT 7 LBS.

► 1¾" MIN. O.D.

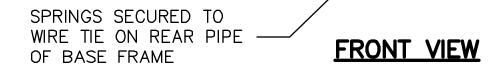
\<del>-----</del> 7½" MIN. O.D.

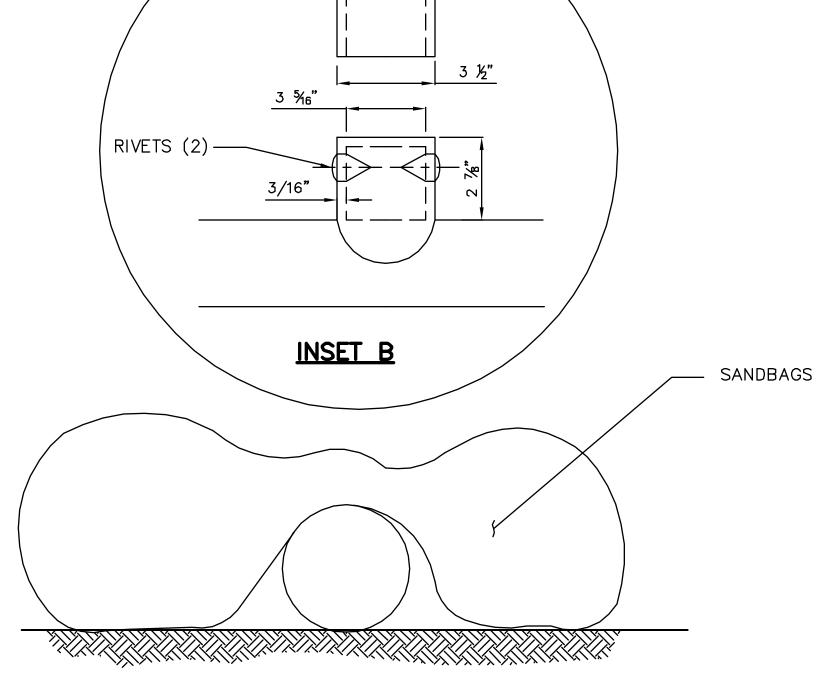
BASE

# TRAFFIC CONES



14" MIN.



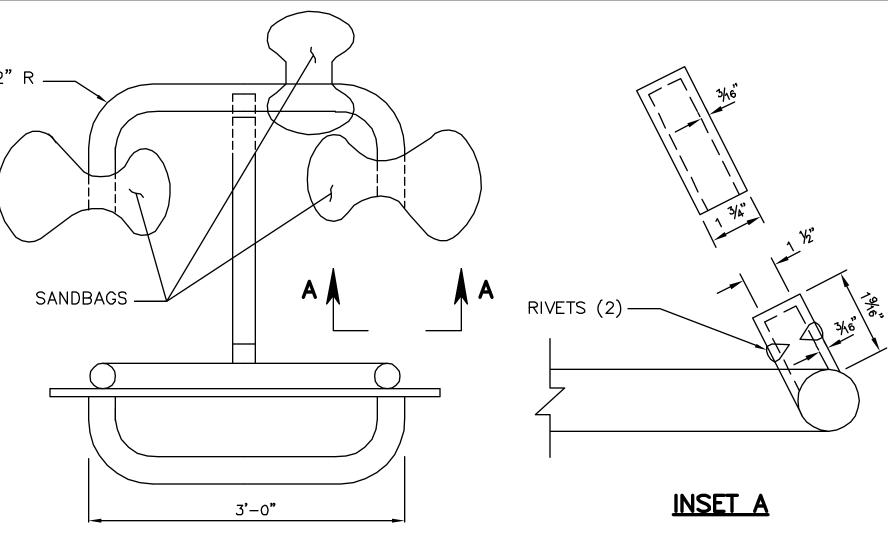


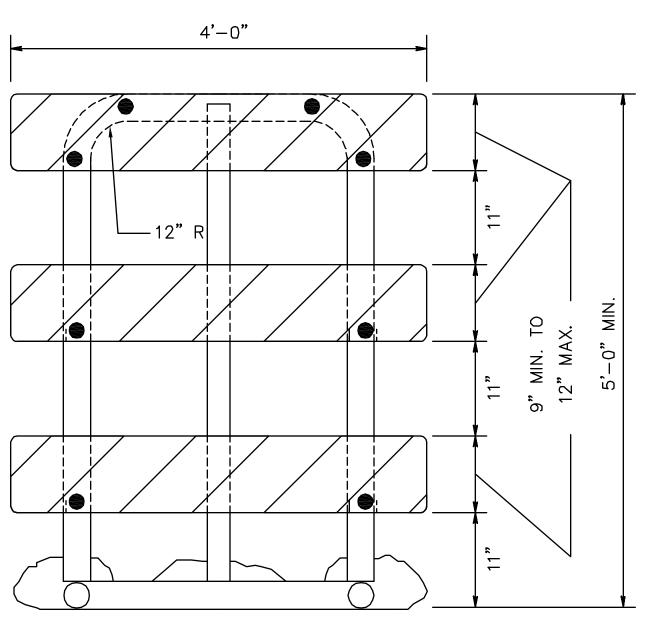
SECTION A-A

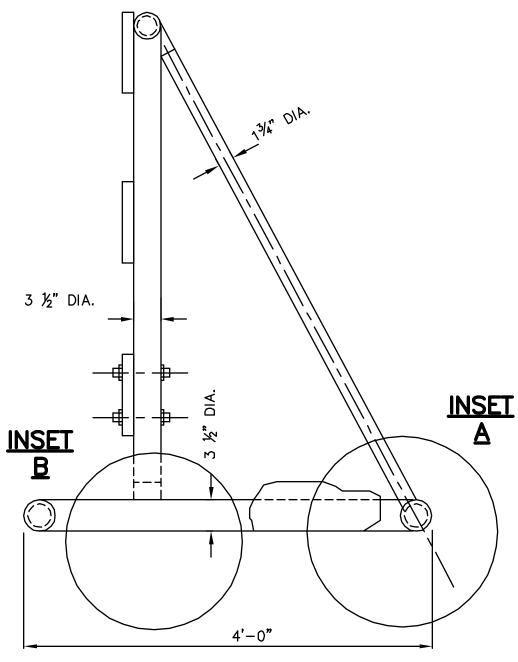
#### NOTES:

- THE 9" MIN. x 48", OR 12" MAX. x 48" BARRICADE RAILS SHALL BE FABRICATED FROM 0.125" MAX. PLASTIC SHEETING AND SHALL BE ATTACHED, 4 PER RAIL, WITH 1 INCH NO. 14 PAN HEAD METAL SCREWS OR PLASTIC RIVETS. ALL CORNERS SHALL BE ROUNDED.
- 2. ORANGE AND SILVER (WHITE) STRIPES SHALL BE RETROREFLECTIVE SHEETING, ASTM D 4956 TYPE III, AS SHOWN FOR CONSTRUCTION SIGNS. ALTERNATE ORANGE AND SILVER (WHITE) STRIPES 6" WIDE SLOPING DOWNWARD AT AN ANGLE OF 45 DEGREES IN THE DIRECTION TRAFFIC IS TO PASS.
- 3. IF NECESSARY, THE SANDBAGS SHALL BE FABRICATED AND PLACED ACCORDING TO THE MANUFACTURE'S RECOMMENDATION.
- 4. THE FRAMING FOR BARRICADE PANELS SHALL BE NCHRP-350 CRASHED TESTED AND FHWA APPROVED.

### BREAKAWAY BARRICADES







THE BASE AND UPRIGHT SHALL BE 3 1/2" DIA. ROTATIONALLY MOLDED POLYETHYLENE PLASTIC CONFORMING TO ASTM D 1248-II A3-A4. THE BRACE SHALL BE 1 34" DIA. EXTRUDED POLYETHYLENE PLASTIC CONFORMING TO ASTM D 1248-III A4. POLYETHYLENE PLASTIC SHALL BE WHITE AND SHALL BE ULTRAVIOLET LIGHT STABILIZED ASTM D746.

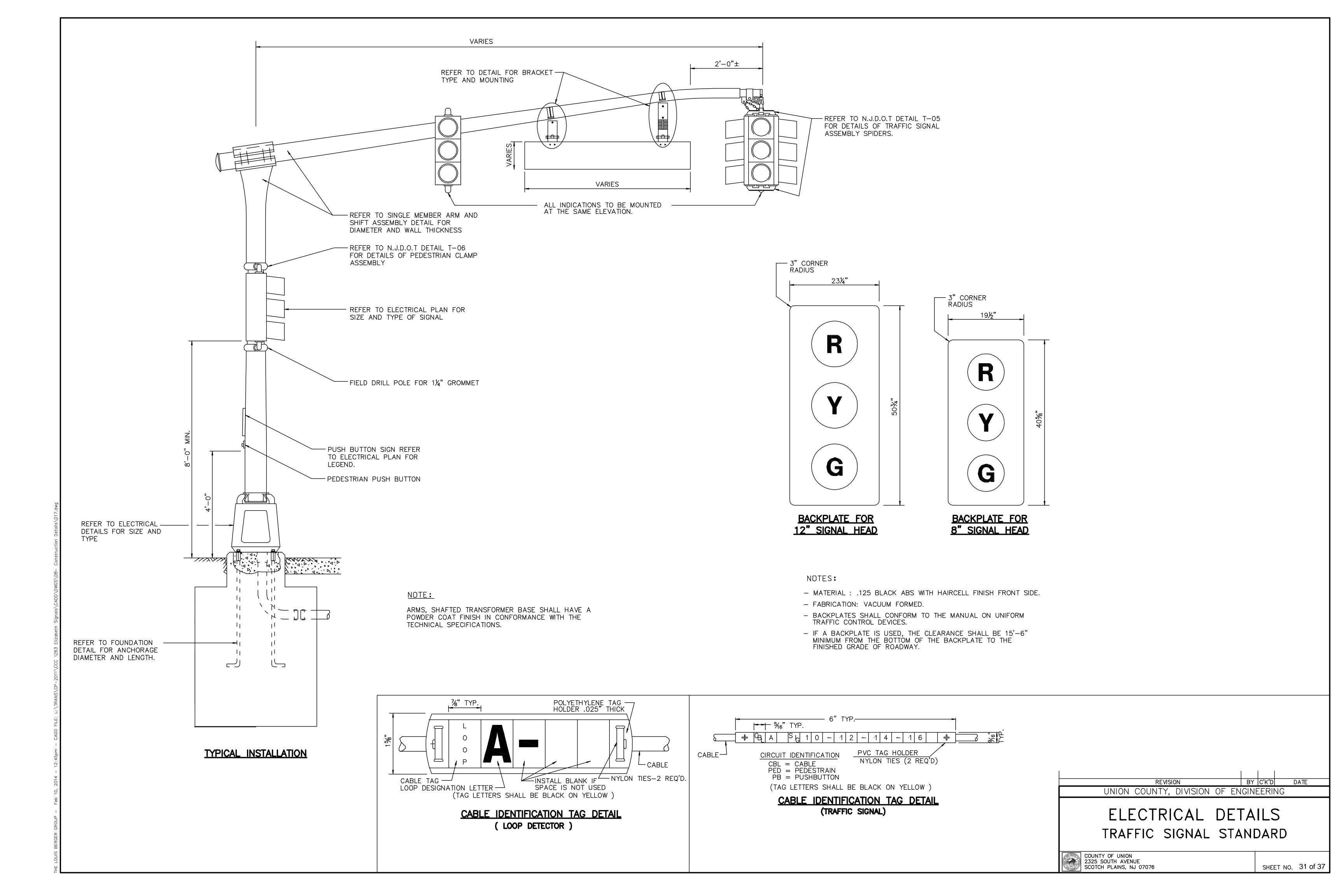
# TYPE III. PE

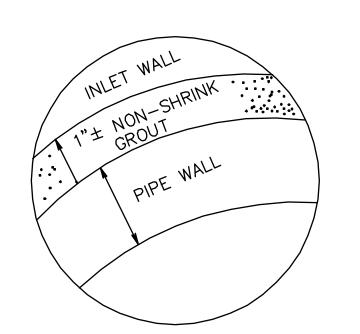
BY C'K'D REVISION UNION COUNTY, DIVISION OF ENGINEERING

CONSTRUCTION DETAILS TRAFFIC CONTROL DEVICES

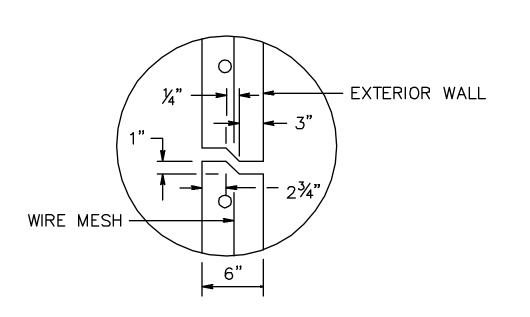
COUNTY OF UNION 2325 SOUTH AVENUE SCOTCH PLAINS, NJ 07076

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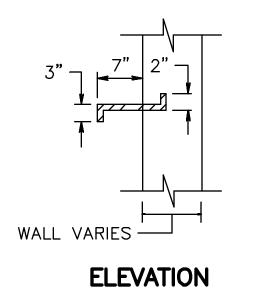


CONNECTION OF PIPE AND **INLET FOR PRECAST INLET** 



RISER JOINT DETAIL FOR PRECAST INLETS

NOTE: JOINT TO BE GROUTED WITH MORTAR BY CONTRACTOR

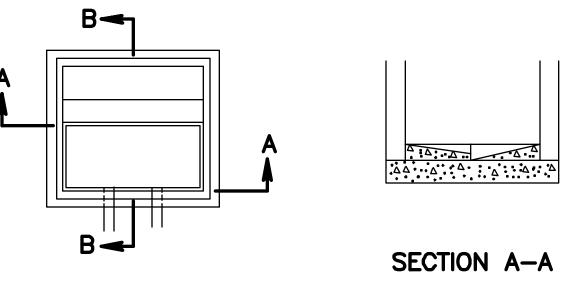


─ WALL VARIES

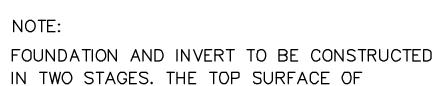
**PLAN** 

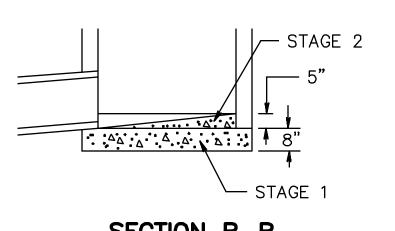
LADDER RUNGS FACING TRAFFIC 12" C TO C

LADDER RUNG DETAIL

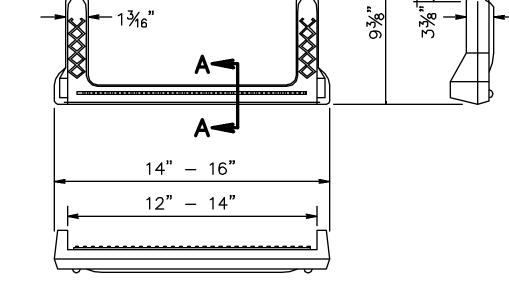


STAGE 1 TO BE LEFT ROUGH.



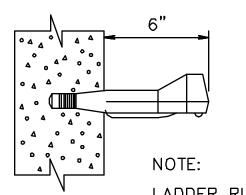


SECTION B-B



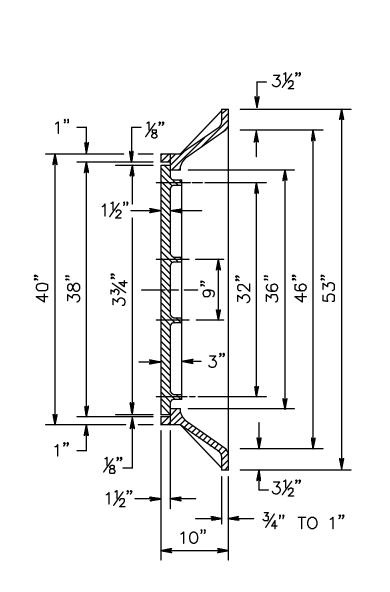


SECTION A-A

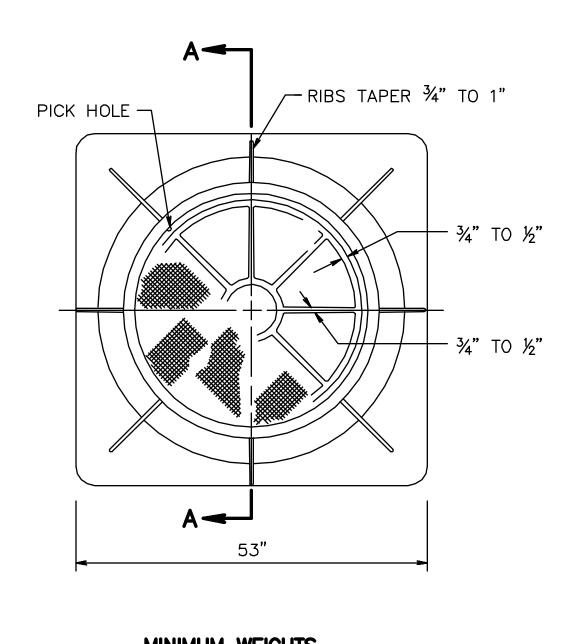


LADDER RUNGS FACING TRAFFIC 12" C TO C

#### COPOLYMER POLYPROPYLENE PLASTIC LADDER RUNG DETAIL OF INVERT FOR INLET WITHOUT CONTINUOUS PIPE



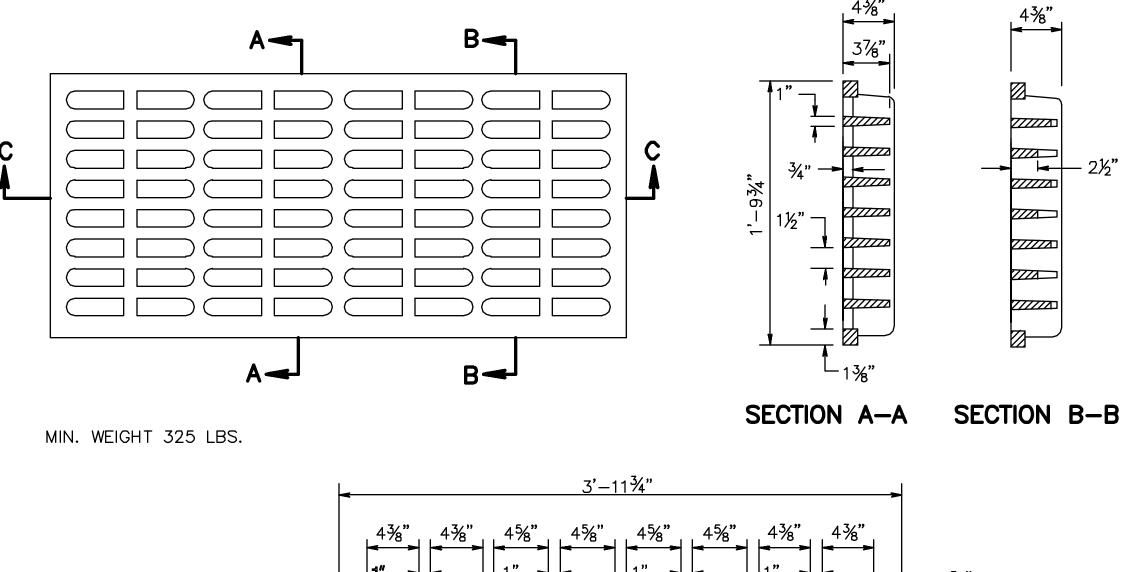
NOTE:

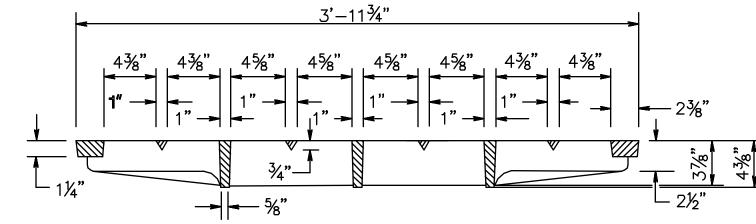


NOTE: SEE GENERAL NOTE 10.

MINIMUM WEIGHTS WEIGHT OF FRAME = 630# WEIGHT OF COVER = 400#

NEW MANHOLE CASTING, SQUARE FRAME, CIRCULAR COVER





NOTE: SEE GENERAL NOTE 10.

> **BICYCLE SAFE GRATE** (CAST IRON)

SECTION C-C

#### **GENERAL NOTES**

- 1. INLETS MAY BE CONSTRUCTED OF BRICK, CONCRETE, CONCRETE BLOCK OR PRECAST CONCRETE. WALLS SHALL BE 8 INCHES THICK IF BRICK AND 6 INCHES THICK IF CONCRETE, CONCRETE BLOCK OR PRECAST CONCRETE. INLET FOUNDATIONS AND INVERTS SHALL BE CLASS B CONCRETE.
- 2. CORBELLING OF INLET WALLS WILL BE PERMITTED AT THE RATE OF ½ INCH PER 8 INCHES OF HEIGHT; MAXIMUM CORBEL 6 INCHES PER WALL.
- 3. EXCEPT FOR INLETS TYPE A AND C, FOUNDATIONS AND INVERTS SHALL BE CONSTRUCTED IN TWO STAGES, AND THE BOTTOM OF THE FOOTINGS SHALL BE 8 INCHES BELOW THE OUTER WALL OF THE LOWEST PIPE IN THE INLET.
- 4. WHEN THE DEPTH OF AN INLET THAT IS NOT PRECAST EXCEEDS 10 FEET AS MEASURED FROM TOP OF GRATE TO INVERT, WALLS BELOW A DEPTH OF 8 FEET SHALL BE 12 INCHES THICK AND THE DEPTH OF FOUNDATION INCREASED TO 12 INCHES. WHEN ROCK IS ENCOUNTERED, THE DEPTH OF THE FOUNDATION SHALL NOT BE INCREASED.
- 5. INLET FOUNDATIONS WHICH ARE PRECAST SHALL BE PLACED ON A 6 INCH THICK BED OF COMPACTED COARSE AGGREGATE #57. THE COARSE AGGREGATE SHALL EXTEND 6 INCHES BEYOND THE HORIZONTAL LIMITS OF THE INLET FOUNDATION.
- 6. CASTINGS FOR PRECAST INLETS SHALL BE ADJUSTED TO GRADE WITH COURSES OF BRICK, AS REQUIRED, 12 INCHES MAXIMUM.
- WHEN THE DEPTH OF A PRECAST INLET EXCEEDS 10 FEET AS MEASURED FROM TOP OF GRATE TO INVERT, THE FOUNDATION SHALL BE INCREASED TO 12 INCHES. WHEN ROCK IS ENCOUNTERED, THE DEPTH OF THE FOUNDATION SHALL NOT BE INCREASED.
- 8. MINIMUM WALL REINFORCEMENT FOR PRECAST INLETS TYPES A, B, C, E, D-1, D-2 AND B MODIFIED:

DEPTH BELOW	HORIZONTAL	VERTICAL	WALL
TOP OF GRATE	REINF.	REINF.	THK.
0' TO 10'-0"	#13 @ 10" C.C.	#13 @ 18" C.C.	6"
10'-1" TO 15'-0"	#13 @ 8" C.C.	#13 @ 18" C.C.	6"
15'-1" TO 20'-0"	#13 <b>@</b> 6" C.C.	#13 @ 18" C.C.	6 <b>"</b>
REINFORCING SHOWN	FOR PRECAST INLETS	S IS THE MINIMUM	
REQUIRED. ADDITIONA	AL REINFORCING FOR	HANDLING IS THE	
RESPONSIBILITY OF 1	THE CONTRACTOR.		

#### **ALTERNATE REINFORCEMENT**

DEPTH BELOW TOP OF GRATE 0' TO 10'-0"

WWF  $3 \times 6$  W6 WIRES SPACED AT 3" TO RUN HORIZONTAL IN ALL CASES.

10'-1" TO 15'-0" WWF 3 x 6 W6 ADD #10 REINFORCEMENT STEEL @ 18" HORIZONTAL.

15'1" TO 20'0" WWF 3 x 6 W6 ADD #10 REINFORCEMENT STEEL @ 9" HORIZONTAL OR ADD #13

REINFORCEMENT STEEL AT 15" HORIZONTAL. 9. ALL INLETS AND MANHOLES SHALL BE CONSTRUCTED IN

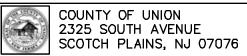
- ACCORDANCE WITH THE CURRENT NJDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ITS AMENDMENTS.
- 10. DIMENSIONS, WEIGHTS AND OTHER CRITERIA SHOWN ON THESE DETAILS ARE FOR CLASS 30B CAST IRON ONLY.

NOTE:

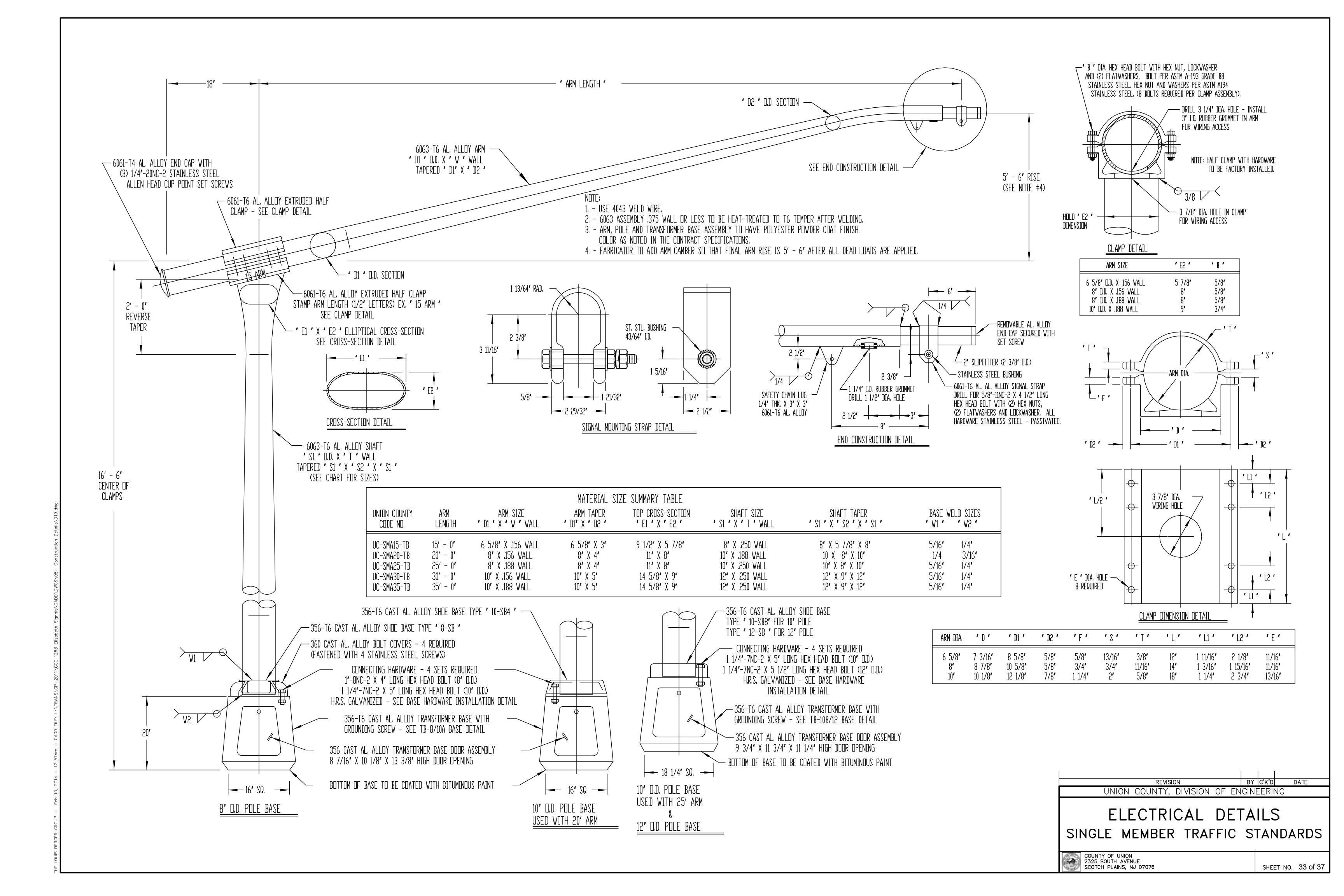
REINFORCEMENT STEEL IS IN METRIC UNITS.

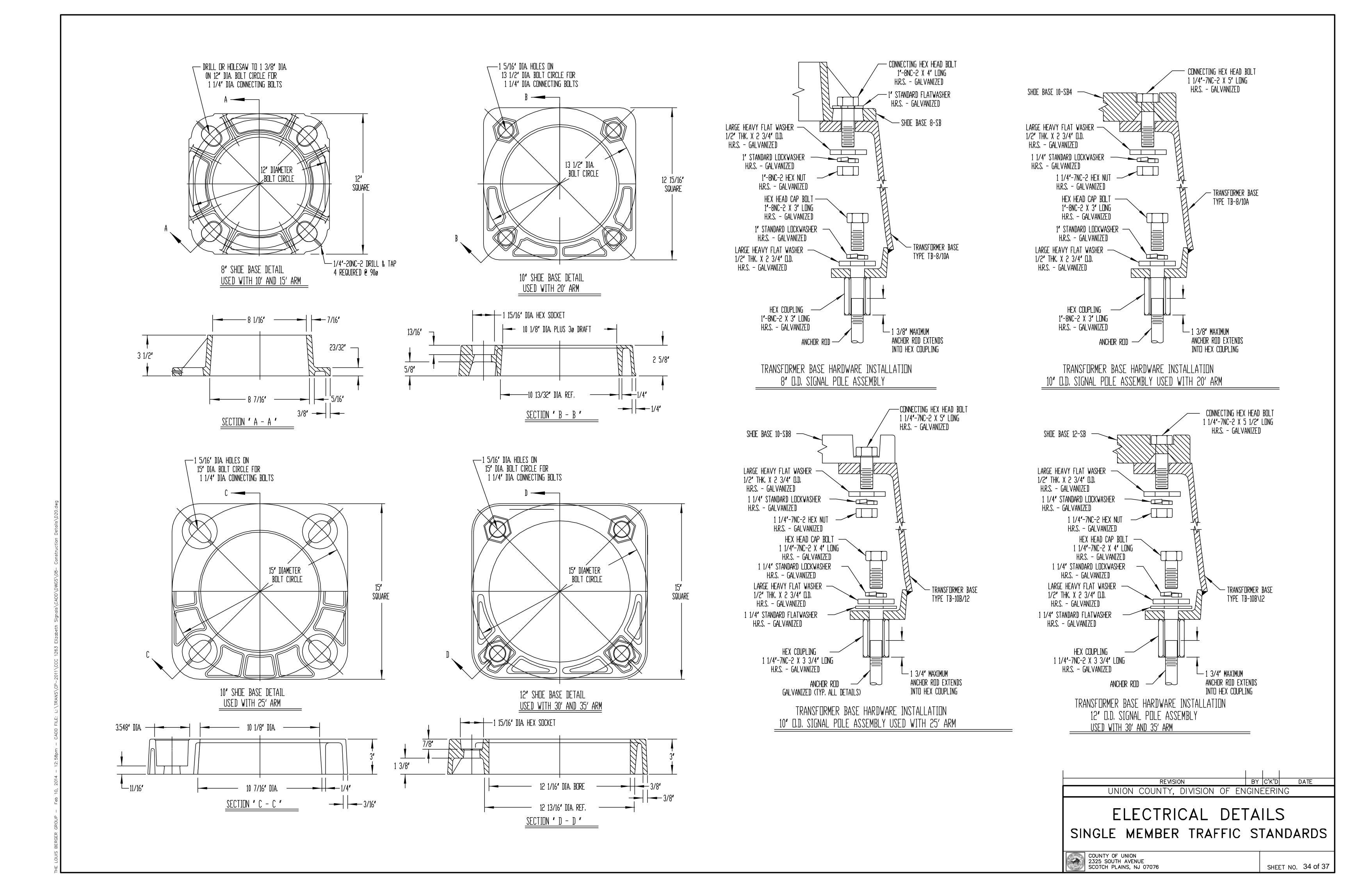
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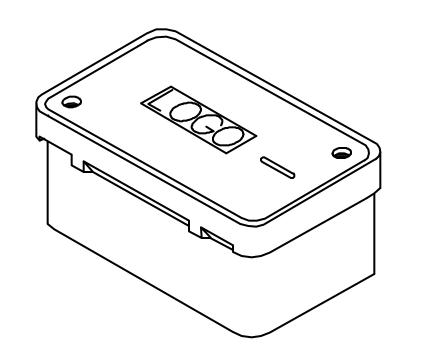
CONSTRUCTION DETAILS INLET GENERAL DETAILS

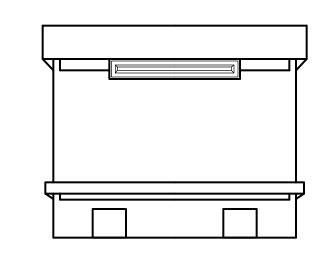


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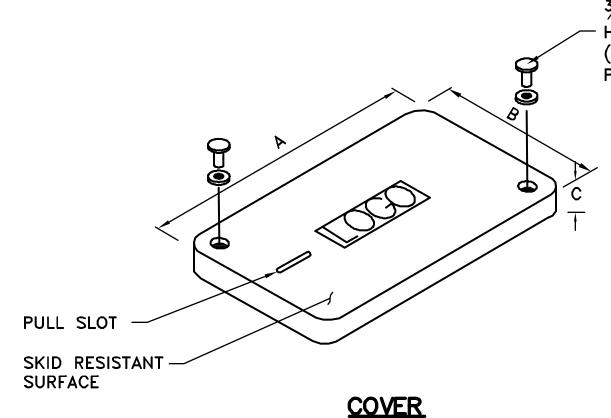


I BOX & EXTENSION SIDE VIEW

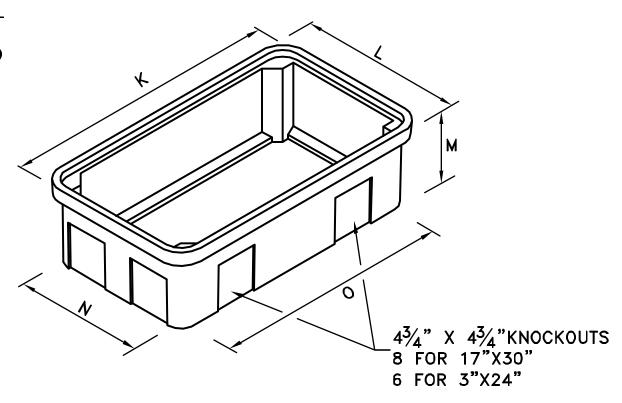
(NO BASE)

# PG STYLE SPLICE BOX

(NO BASE)

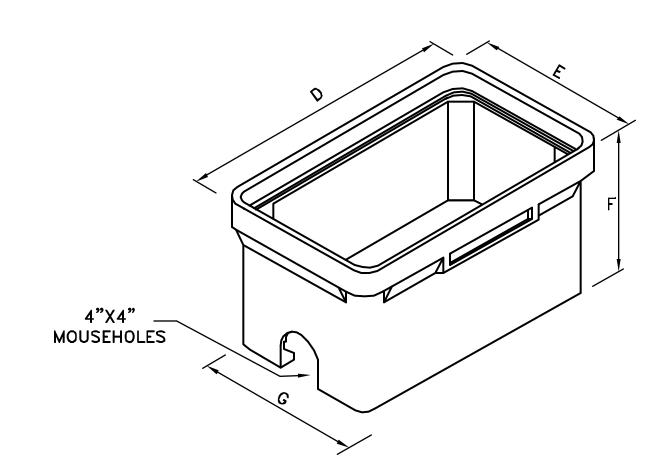


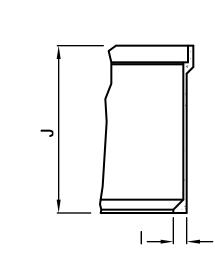
3/8" - 16NC STAINLESS STEEL
- HEX BOLTS W/WASHER (2)
(TAMPER RESISTANT STANDARD
PENTA-HEAD)

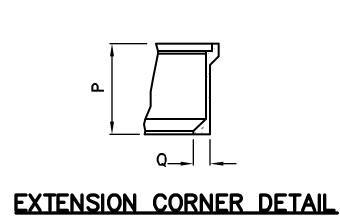


### **EXTENSION**

NOTE: EXTENSION FOR USE UNDER BOX ONLY.







## SPLICE BOX CORNER DETAIL

# SPLICE BOX DIMENSIONS

LOGO FOR COVER SHALL BE "TRAFFIC SIGNAL" REFER TO THE PLANS AND SPECIFICATIONS FOR REQUIRED COVER COLORS.

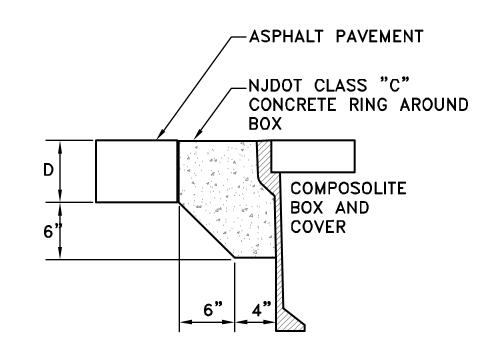
# BOXES (STACKABLE)

<u>DIMENSION (IN INCHES)</u>											
SIZE	Α	В	С	D	E	F	G	Н	1	J	
13"X24"	23 1/4"	13 3/4"	2	25	15 ½"	18	11 3/4"	21 1/4"	1 1/4"	16	
17"X30"	30 ½"	17 ½"	2	32 ¼"	19 1/4"	24	15 ½"	28 ½"	1 1/4"	22	
24"X36"	35 <b>%</b> "	24	3	37 <b>%</b> "	26	24	22 1/4"	33 <b>%</b> "	2	21	
	EXTENSI	ONS									

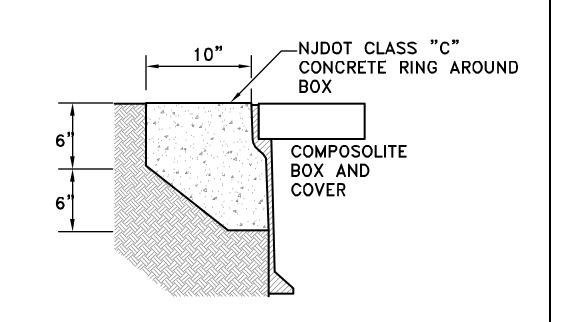
# <u>DIMENSION (IN INCHES)</u>

SIZE	K	L	М	N	0	Р	
13"X24"	23 ¾"	14 1/4"	8 3/4"	11 ¾"	21 ¼"	8	
17"X30"	30 <b>%</b> "	17 %"	8 3/4"	15 <b>¾"</b>	28 <b>¾</b> "	8	
24"X36"	37 <b>½</b> "	25 ½"	8 ¾"	21 ¾"	33 ½"	8	

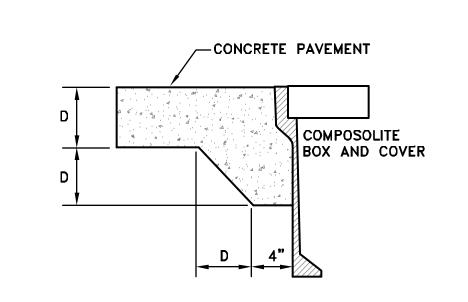
# PANEL VAULT & BOX INSTALLATION PROCEDURE



#### IN ASPHALT PAVEMENTS



#### IN COMPACTED EARTH



# IN CONCRETE PAVEMENTS

ALL BOXES SHALL BE SET FLUSH WITH SIDEWALK OR GRASS

#### NOTES:

- 1. CONCRETE ENCASEMENT TO BE NJDOT CLASS "C" OR BETTER.
- 2. CONCRETE ENCASEMENT RING DIMENSION, D, TO BE EQUAL TO DESIGN PAVEMENT DEPTH.
- 3. PAVEMENT AND SUBGRADE TO BE AS SHOWN ON THE ENGINEERING PLANS.
- 4. QUAZNE DOES NOT RECOMMEND THE USE OF CONCRETE OR POLYMER CONCRETE BOXES IN HIGH
- VOLUME TRAFFIC APPLICATIONS.

  5. ¾" GRAVEL OR OTHER SUITABLE MATERIAL TO BE PLACED AT THE BOTTOM OF BOX.
- 6. ALL COVERS SHALL BE HEAVY DUTY (15 KIPS
- OVER A 10 IN. SQ. MIN. TEST LOAD).

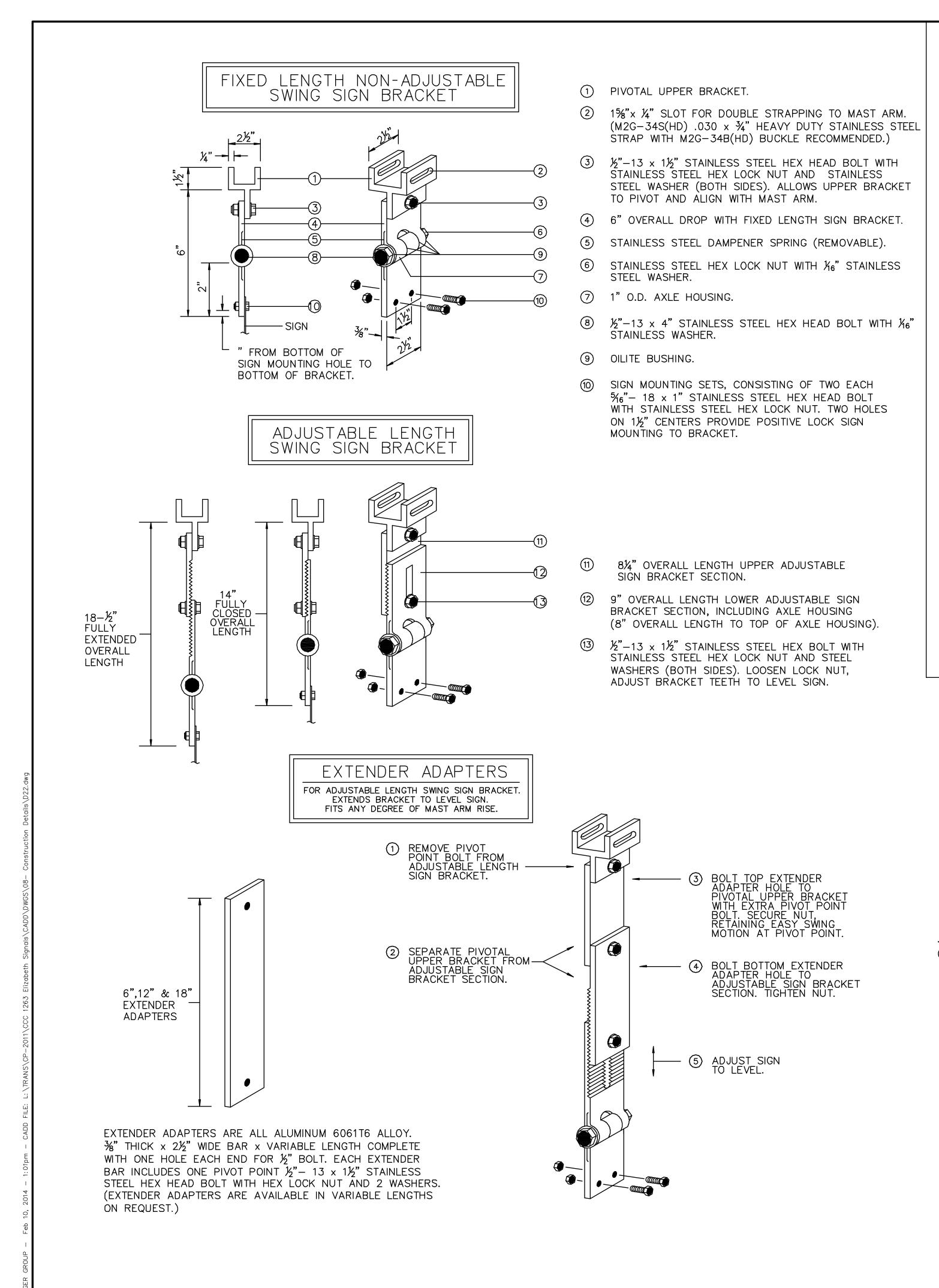
  7. HOLES MADE IN THE SPLICE BOX OR EXTENSION WALLS TO ACCOMODATE THE VARIOUS SIZE CONDUITS SHALL BE MADE USING A 68 KNOCKOUT
- PUNCH DRIVER OR MASONRY HOLE SAW.
  CABLE RACKS AND HOOKS SHALL BE PROVIDED
  FOR 17"X30" AND 24"X36" SPLICE BOXES (4
  REQUIRED).

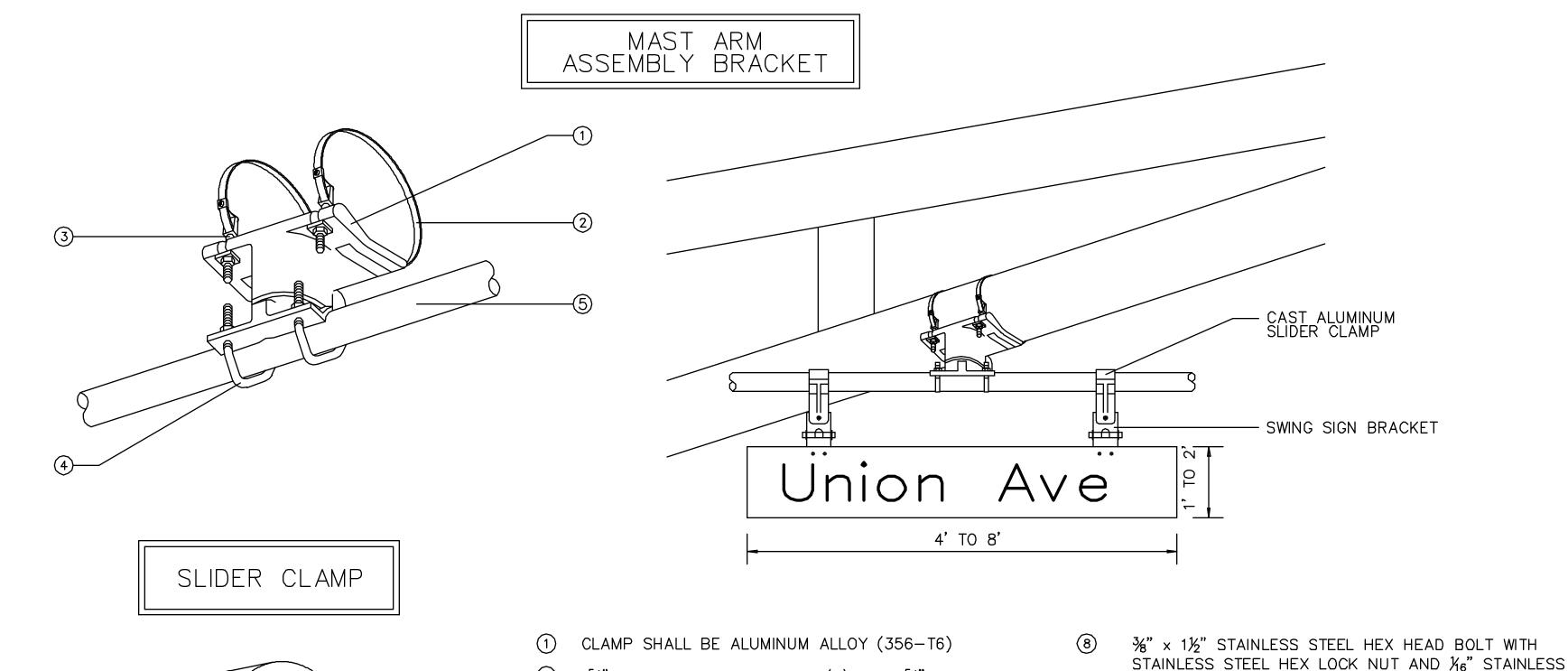
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ELECTRICAL DETAILS
SPLICE BOX



SHEET NO. 35 of 37





%" STAINLESS STEEL STRAP (2) WITH %"

1/4" CLEARANCE TO THE MAST ARM CLAMP.

SPLIT LOCKWASHER & 5/6"- 18 HEX NUT.

%" SQUARE HEAD SET SCREW

⑦ 5/6" x 1½" HEX BOLT WITH LOCKWASHER

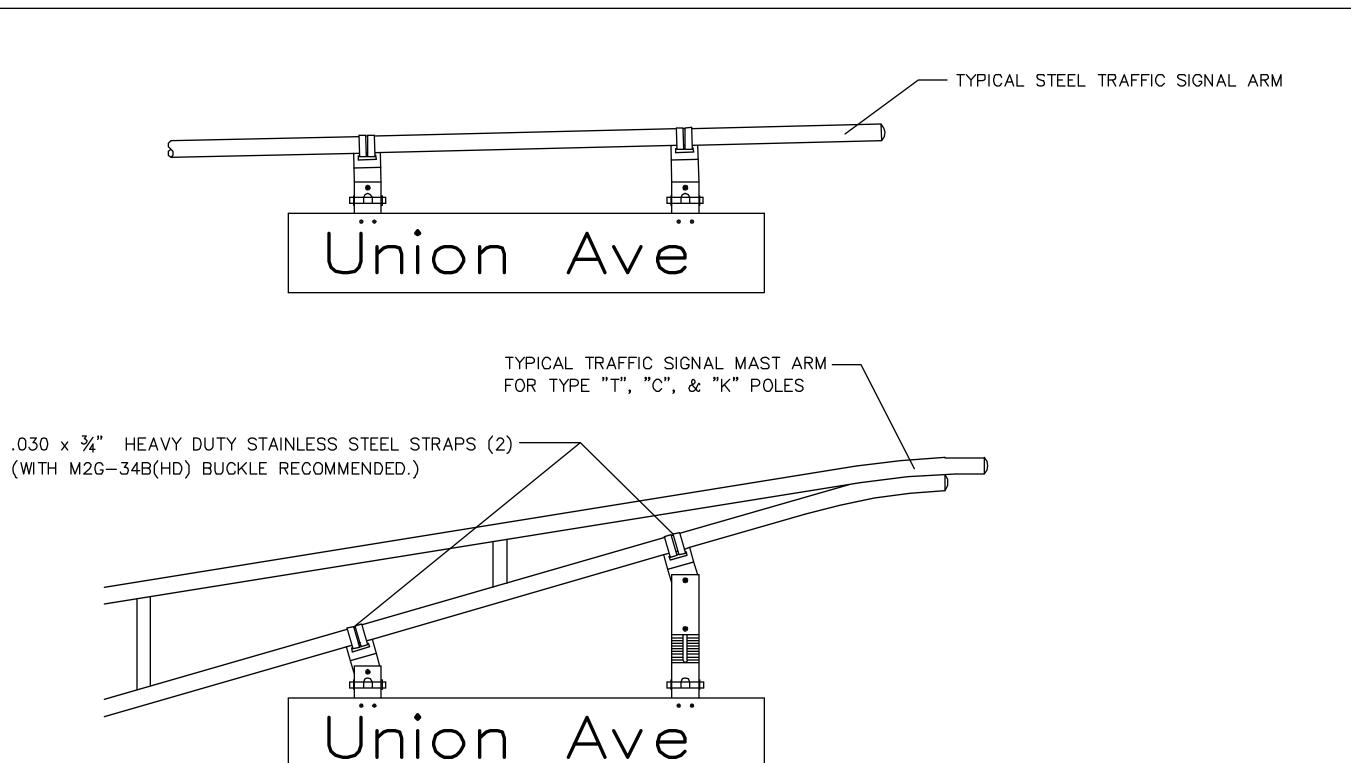
 $\frac{1}{6}$ " - 18 × 1 $\frac{3}{4}$ " × 2 $\frac{1}{6}$ " ×  $\frac{1}{6}$ " U-BOLT WITH  $\frac{1}{6}$ "

STAINLESS STEEL CLAMP SCREW WITH BEARING WASHER,  $\frac{7}{6}$ " FLATWASHER &  $\frac{7}{6}$ " - 14 HEX NUT. CLAMP SCREW

SHALL BE INSTALLED WITH MAINTAINING A MINIMUM OF

BANDCLAMP.

5 1½" ALUMINUM TUBE



revision by C'k'd date
UNION COUNTY, DIVISION OF ENGINEERING

STEEL WASHER (BOTH SIDES). A BRONZE REDUCER

BUSHING (½" TO ¾") SHALL BE USED INSIDE THE SLIDER CLAMP.

CAST ALUMINUM SLIDER CLAMP

INSTALLATION OF SLIDER:

DRILL %" HOLE THRU ONE WALL OF PIPE.

LOCKWASHER INTO SLIDER THRU HOLE IN

PIPE. ATTACH 3/8" SQUARE HEAD SET SCREW.

TIGHTEN \$46 x 11/2 HEX BOLT WITH

NOTE:

ELECTRICALS DETAILS
OVERHEAD MAST ARM ADJUSTABLE
SWING SIGN BRACKETS

COUNTY OF UNION
2325 SOUTH AVENUE
SCOTCH PLAINS, NJ 07076

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