



# COUNTY OF UNION

## DEPARTMENT OF ENGINEERING, PUBLIC WORKS & FACILITIES MANAGEMENT

Joseph J. Policay, Jr., CPWM, Acting Director

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*County Counsel*

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*Clerk of the Board*

RICARDO S. MATIAS  
PE, CME, CFM  
*County Engineer*  
*Director, Division of Engineering*

**DATE:** October 18, 2024

**FROM:** Ricardo S. Matias, PE, CME, CFM  
County Engineer

**TO:** All Potential Bidders

**RE:** CLARIFICATION 1  
Replacement of Lower Road Minor Bridge (Li-63),  
City of Linden, County of Union, New Jersey  
BA# 01-2024; Union County Engineering Project #2017-026

Please see the below comments and responses received for the above referenced project.

**Comment 1.** Please clarify the pay limits for Excavation, Unclassified and Excavation, Regulated Material.

**Response 1.** All excavation shall be measured and paid for under the item "Excavation, Regulated Material", per Note #19 on Drawing No. B-1. The excavation limits shall extend to the bottom of the proposed 2'-0" thick coarse aggregate layer and shall extend 12" past the face of the culvert and wingwalls, matching the backfill limits indicated on Sections A, B and C on Drawing No. B-4. See the notes on these sections that state the following: "I-9 SOIL AGGREGATE FILL AT INSIDE/OUTSIDE FACE LIMIT = 12" WIDE." The "Excavation, Unclassified" item will only be used on an if and where directed basis, as indicated on the Distribution of Quantities table on Drawing No. Q-1.

**Comment 2.** Will the inside of the culvert be backfilled with I-9 or native material?

**Response 2.** The inside of the culvert shall be backfilled with native material, except for at the locations requiring riprap as indicated on the Construction and Soil Erosion and Sediment Control Plan and Grading Plan.

### DIVISION OF ENGINEERING

2325 South Avenue

Scotch Plains, NJ 07076

(908)789-3675

fax(908)789-3674

www.ucnj.org

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**PE, CME, CFM**  
*County Engineer*  
*Director, Division of Engineering*

**Comment 3.** Please provide a specification for soil support fabric.

**Response 3.** The "Soil Support Fabric" item will be used on an if and where directed basis. Refer to Section 301 – Subbase for information on preparing subgrade using the geotextile soil support fabric, where directed by the Engineer. The soil support fabric, if and where ordered, shall conform to Subsection 919.01 of the 2019 NJDOT Standard Specifications for Road and Bridge Construction.

### DIVISION OF ENGINEERING

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**SPECIFICATIONS  
FOR  
Lower Road Minor Bridge (Li-63) Replacement  
City of Linden, County of Union, New Jersey  
BA# 01-2024; Union County Engineering Project #2017-026**

**SEPTEMBER 2024**

**UNION COUNTY  
BOARD OF COUNTY COMMISSIONERS**

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**DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND  
FACILITIES MANAGEMENT**  
Joseph J. Policay, Jr., CPWM  
Acting Director, Department of Engineering, Public Works and  
Facilities Management

**COUNTY ENGINEER  
DIVISION OF ENGINEERING**  
Ricardo Matias, PE, CME, CFM

**Prepared by:**  
CME Associates  
Consulting & Municipal Engineers  
3141 Bordentown Avenue  
Parlin, NJ 08859  
732-727-8000

**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 31, 2024 at 10:30 a.m., prevailing time, in the 3<sup>rd</sup> Floor Conference Room, U.C. Administration Building, 10 Elizabethtown Plaza, Elizabeth, New Jersey for:

**Lower Road Minor Bridge (Li-63) Replacement  
City of Linden, County of Union, New Jersey  
BA# 01-2024; Union County Engineering Project #2017-026**

Bid Packages may be obtained at no charge by registering and downloading at <http://ucnj.org/bid-specs>. 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.

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. If hand delivered, please note that parking and security access at the County Complex may cause delays and bidders should take them into consideration in order to submit a timely bid. **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.

**MICHELLE HAGOPIAN, ASSISTANT DIRECTOR OF PURCHASING**

***Union County Board of County  
Commissioners***

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NB-1

**Lower Road Minor Bridge (Li-63) Replacement, City of Linden, County of Union, New Jersey  
BA# 01-2024; Union County Engineering Project #2017-026**

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**UNION COUNTY BOARD OF COUNTY COMMISSIONERS  
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 County Commissioners  
UC Administration Building, 6<sup>th</sup> 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](mailto:ucbids@ucnj.org)

**ADDRESS BIDS AND SUBMIT 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](mailto:ucbids@ucnj.org)

**TITLE OF PROJECT: Lower Road Minor Bridge (Li-63) Replacement  
City of Linden, County of Union, New Jersey  
BA# 01-2024; Union County Engineering Project #2017-026**

**BIDDER:** Bidder shall be a single overall contract bidder

**ENGINEER:** **CME Associates, Consulting and Municipal Engineers  
3141 Bordentown Avenue, Parlin, New Jersey 08859**

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

**COUNTY ENGINEER:**

Ricardo S. Matias, PE, CME, CFM  
Union County

## 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 Contractor's risk. Such payment will only be in

the amount agreed to by the parties, in writing in the 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.**

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 [ucbids@ucnj.org](mailto:ucbids@ucnj.org) 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](mailto: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.

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 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 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 prior 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 County Commissioners, 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 County Commissioners, 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, defend, 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.

## **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 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**

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 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 County Commissioners on May 8, 2014. The resolution is furnished in Section 56 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 statutes 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.

B. To offer substitute goods as an equal to those specified herein, it is necessary that:

1. 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;
2. 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

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 contract 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**

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.

### 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. 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.

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.

#### **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.

#### **43. AFFIRMATIVE ACTION REQUIREMENTS**

(REVISED 01/2022)

##### **EXHIBIT B**

##### **MANDATORY EQUAL EMPLOYMENT OPPORTUNITY LANGUAGE**

**N.J.S.A. 10:5-31 et seq. (P.L.1975, c.127)**

**N.J.A.C. 17:27-1.1 et seq.**

##### **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, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the 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. 17:27-7.2; provided, however, that the Dept. of LWD, Construction EEO Monitoring Program, may, in its discretion, exempt a contractor or subcontractor from compliance with the good faith procedures prescribed by the following provisions, A, B, and C, as long as the Dept. of LWD, Construction EEO Monitoring Program is satisfied that the contractor or subcontractor is employing workers provided by a union which provides evidence, in accordance with standards prescribed by the Dept. of LWD, Construction EEO Monitoring Program, 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. 17:27-7.2. The contractor or subcontractor agrees that a good faith effort shall include compliance with the following procedures:

(A) 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. seq., 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:

- (1) To notify the public agency compliance officer, the Dept. of LWD, Construction EEO Monitoring Program, 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 nondiscrimination 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 contractor 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 Dept. of LWD, Construction EEO Monitoring Program. 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 Dept. of LWD, Construction EEO Monitoring Program, 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 Dept. of LWD, Construction EEO Monitoring Program.

(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 Dept. of LWD, Construction EEO Monitoring Program and submitted promptly to the Dept. of LWD, Construction EEO Monitoring Program 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 Dept. of LWD, Construction EEO Monitoring Program an initial project workforce report (Form AA-201) electronically provided to the public agency by the Dept. of LWD, Construction EEO Monitoring Program, 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 Dept. of LWD, Construction EEO Monitoring Program, 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 Dept. of LWD, Construction EEO Monitoring Program as may be requested by

the Dept. of LWD, Construction EEO Monitoring Program 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 Dept. of LWD, Construction EEO Monitoring Program for conducting a compliance investigation pursuant to N.J.A.C. 17:27-1.1 et seq.

#### **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. NON-INVOLVEMENT ACTIVITIES IN RUSSIA OR BELARUS**

Pursuant to N.J.S.A. 52:32-60.1 et seq., Pursuant to N.J.S.A. 52:32-60.1, et seq. (L. 2022, c. 3) any person or entity (hereinafter “Vendor”) that seeks to enter into or renew a contract with a State agency for the provision of goods or services, or the purchase of bonds or other obligations, must complete the certification below indicating whether or not the Vendor is identified on the Office of Foreign Assets Control (OFAC) Specially Designated Nationals and Blocked Persons list, available here:

<https://sanctionssearch.ofac.treas.gov/>. If the Department of the Treasury finds that a Vendor has made a certification in violation of the law, it shall take any action as may be appropriate and provided by law, rule or contract, including but not limited to, imposing sanctions, seeking compliance, recovering damages, declaring the party in default and seeking debarment or suspension of the party.

#### **46. 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.

#### **47. 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 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.

#### **48. 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;

3. 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.

#### **49. 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.

#### **50. 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.

## **51. 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.

Proof of registration 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 must be provided prior to the award of a contract. 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.

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.

## **52. 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.

## **53. 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.

## **54. 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.

## **55. 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.

## **56. 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.), 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).

#### **57. RESOLUTION NO. 2014-408**

**WHEREAS**, the County of Union recognizes there is a need to ensure that all work on significant public construction and maintenance contracts is performed by responsible, qualified firms that maintain the capacity, expertise, personnel, and other qualifications and resources necessary to successfully perform public contracts in a timely, reliable, and cost-effective manner; and

**WHEREAS**, in order to effectuate the purpose of selecting responsible contractors for significant public contracts and to protect Union County's capital investments in such contracts prospective contractors and subcontractors should be required to meet pre-established, clearly-defined, minimum standards relating to contractor responsibility, including retirements and criteria concerning qualifications, competency) expertise, adequacy of resources, including equipment, financial and personnel, and satisfactory records regarding past project performance, safety, legal compliance and business integrity; and

**WHEREAS**, the County has a compelling interest in assuring that its Public Works Projects meet the highest standard of safety and quality; and

**WHEREAS**, due to the critical impact that skilled construction craft labor has on public works projects, and due to the limited availability of skilled construction craft labor and imminent craft labor skill shortages, it is necessary to require contractors and subcontractors to participate in established, formal apprenticeship

training programs for the purpose of both promoting successful project delivery and ensuring future workforce development; and

**WHEREAS**, an apprenticeship program is a structured system of training designed to prepare individuals for occupations and lifelong careers in skilled trades and crafts by providing a wage-paying job that incorporates extensive workplace and classroom training under the supervision of experienced workers, in preparation for highly skilled occupations; and

**WHEREAS**, apprenticeship programs are a critical component in public safety, by ensuring that workers on public projects are properly trained, able, competent and capable craftsmen, and provide assurance of compliance with the County's bid specifications and achieve high quality standards; and

**WHEREAS**, for an apprenticeship program to be fully effective, the public and private sectors must recognize its value and commit to supporting its mission; and

**WHEREAS**, Union County has long recognized the value of apprenticeship programs through its support of the Union County Vocational-Technical Schools, which offer training programs to help ensure that Union County will continue to produce a skilled and educated work force in the trade specialties, and thus, strengthen Union County's economy by fostering the development of highly paid trade and craft careers; and

**WHEREAS**, the use of apprenticeship programs or apprenticeship trained employees on Union County Public Works Projects will serve the dual goal of providing the County with assurance that its public works projects are completed with a well-trained workforce, in a highly skilled and timely fashion, while creating opportunities for careers in the skilled trades and craft industry for County residents; and

**WHEREAS**, the County of Union also recognizes that it is beneficial to their employees to utilize fair business, employment, and training practices that have a positive impact on local communities affected by such contracts:

**NOW, THEREFORE, BE IT RESOLVED by** the Board of Chosen Freeholders of the County of Union as follows:

1. The County of Union shall require compliance with the provisions of this Resolution by business entities seeking to provide services to the County of Union as specified herein. The requirements of this Resolution

are intended to supplement, not replace, existing contractor qualifications and performance standards or criteria currently required by law, public policy or contracting documents, including but not limited to Union County's DPMC classification and Project Labor Agreement policies

2. All contractors and subcontractors that perform significant work on any public facility or public works project, including construction, alteration, renovation, repair, service, or maintenance work, shall meet the requirements of this Resolution. For purposes of this Resolution, the term "significant work" shall be defined as any work or activity covered under the New Jersey Prevailing Wage Act, N.J.S.A. 34:11-56.25 et seq.

3. All firms engaged in contracts covered by this Resolution shall be qualified responsible contractors or subcontractors that have sufficient capabilities in all respects to successfully perform contracts on which they are engaged, including the necessary experience, equipment, technical skills and qualifications and organizational, financial and personnel resources. Firms bidding on public contracts shall also be required to have a satisfactory past performance record and a satisfactory record of legal compliance, integrity and business ethics. Compliance with these standards shall be established by compliance with the requirements set forth in paragraph 8 of this Resolution.

4. As a condition of performing work on public works contracts over the public works threshold, the general contractor shall provide certification that he and each subcontractor working on the project shall have at least one (1) employee who has successfully completed the OSHA 10-hour construction safety and health course. As a condition of performing work on public works contracts of \$500,000.00 or more total cost of project, the general contractor shall provide certification that each subcontractor working on the project shall have at least one (1) employee who has successfully completed the OSHA 30-hour construction safety and health course.

5. All contractors and subcontractors that perform significant work on any public facility or public works project shall be required to affirmatively provide evidence of and confirm compliance with proof of participation in an Apprenticeship Program currently registered and approved by the United States Department of Labor ("USDOL"), the New Jersey Department of Labor ("NJDOL") or any state having equal to or higher requirements as either the USDOL or NJDOL apprenticeship programs. Additionally, Apprenticeship Programs shall meet the criteria set forth in Section 8(i) of this Resolution.

6. As a condition of performing work on public works contracts subject to this Resolution, a general contractor seeking award of a contract shall submit a Contractor Responsibility Certification at the time it submits its bid for contract.

7. The Contractor Responsibility Certification shall be completed on a form provided by the Union County Purchasing Department and shall reference the project for which a bid is being submitted by name and contract or project number.

8. In the Contractor Responsibility Certification, general contractors and subcontractors shall certify the following facts regarding their past performance and work history and its current qualifications and performance capabilities:

a. The firm has all valid, effective licenses, registrations or certificates required by federal, state, county, or local law, including, but not limited to, licenses, registrations, certificates required to: (1) do business in the designated locale; and (2) perform the contract work it seeks to perform. These shall include, but not be limited to, licenses, registrations or certificates for any type of trade work or specialty work, which the firm proposes to self-perform.

b. The firm meets the bonding requirements for the contract, as required by applicable law or contract specifications and any insurance requirements, as required by applicable law or contract specifications, including general liability insurance, workers compensation insurance and unemployment requirements.

c. The firm has not been debarred by any federal, state or local government agency or authority in the past three (3) years.

d. The firm has not defaulted on any project in the past three (3) years.

e. The firm has not had any type of business, contracting or trade license, registration, or other certification suspended or revoked in the past three (3) years.

f. The firm has not been cited and found guilty for a willful violation of federal or state safety laws in the past three (3) years.

g. The firm and/or its owners have not been convicted of any crime relating to the contracting business by a final decision of a court or government agency in the past three (3) years.

h. The firm will pay all craft employees that it employs on the project the current wage rates and benefits as required under applicable Federal or State prevailing wage laws.

i. The firm participates in an Apprenticeship Program that is currently registered with the USDOL, the NJDOL or any state having equal to or higher requirements as either the USDOL or NJDOL apprenticeship programs, for each craft or trade in which it apprentices. The firm shall provide proof of meeting this qualification standard by submitting appropriate documentation as an attachment to this Certification. The firm shall continue to participate in applicable apprenticeship programs for the full duration of the contract work. The apprenticeship program in which the firm participates shall have graduated at least one (1) enrollee in each of the past three (3) years.

9. The County of Union may conduct any additional inquiries to verify that the prospective awardee and its subcontractors have the technical qualifications and performance capabilities necessary to successfully perform the contract and that the firms have a sufficient record of legal compliance and business integrity to justify the award of a public contract. In conducting such inquiries, the County of Union may seek relevant information from the firm, its prior clients or customers, its subcontractors or any other relevant source.

10. If any provision of this Resolution shall be held to be invalid or unenforceable by a court of competent jurisdiction, any such holding shall not invalidate any other provisions of this Resolution and all remaining provisions shall remain in full force and effect.

**NOW, THEREFORE, BE IT RESOLVED** by the Board of Chosen Freeholders of the County of Union that it hereby establishes and adopts the Responsible Contractor Policy, and it hereby authorizes the County Manager to sign any and all documents necessary to make said Policy effective immediately.

## **58. FEDERAL TERMS**

TERMS AND CONDITIONS APPLICABLE TO ALL CONTRACTS/PURCHASES FUNDED, IN WHOLE OR IN PART, BY FEDERAL FUNDS.

The provisions set forth below apply to all contracts funded, in whole or in part, by Federal funds

as required by 2 CFR 200.317.

#### 1. CONTRACTING WITH SMALL AND MINORITY BUSINESSES, WOMEN'S BUSINESS ENTERPRISES, AND LABOR SURPLUS AREA FIRMS

Pursuant to 2 CFR 200.321, the State must take all necessary affirmative steps to assure that minority businesses, women's business enterprises, and labor surplus area firms are used when possible. Accordingly, if subawards are to be made the Contractor shall:

- (1) Include qualified small and minority businesses and women's business enterprises on solicitation lists;
- (2) Assure that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources;
- (3) Divide total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises;
- (4) Establish delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women's business enterprises; and,
- (5) Use the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce.

#### 2. DOMESTIC PREFERENCE FOR PROCUREMENTS

Pursuant to 2 CFR 200.322, where appropriate, the State has a preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States (including but not limited to iron, aluminum, steel, cement, and other manufactured products). If subawards are to be made the Contractor shall include a preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States (including but not limited to iron, aluminum, steel, cement, and other manufactured products). For purposes of this section:

- (1) "Produced in the United States" means, for iron and steel products, that all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States.
- (2) "Manufactured products" means items and construction materials composed in whole or in part of nonferrous metals such as aluminum; plastics and polymer-based products such as polyvinyl chloride pipe; aggregates such as concrete; glass, including optical fiber; and lumber.

#### 3. PROCUREMENT OF RECOVERED MATERIALS

Where applicable, in the performance of contract, pursuant to 2 CFR 200.323, the contractor must comply with section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act. The requirements of Section 6002 include procuring only items designated in guidelines of the Environmental Protection Agency (EPA) at 40 CFR Part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition, where the purchase price of the item exceeds \$ 10,000 or the value of the quantity acquired during the preceding fiscal year exceeded \$10,000; procuring solid waste management services in a manner that maximizes energy and resource recovery; and establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines.

To the extent that the scope of work or specifications in the contract requires the contractor



to provide recovered materials the scope of work or specifications are modified to require that as follows.

- i. In the performance of this contract, the Contractor shall make maximum use of products containing recovered materials that are EPA-designated items unless the product cannot be acquired—
  1. Competitively within a timeframe providing for compliance with the contract performance schedule;
  2. Meeting contract performance requirements; or
  3. At a reasonable price.
- ii. Information about this requirement, along with the list of EPA- designated items, is available at EPA's Comprehensive Procurement Guidelines web site, <https://www.epa.gov/smm/comprehensive-procurement-guideline-cpg-program>.
- iii. The Contractor also agrees to comply with all other applicable requirements of Section 6002 of the Solid Waste Disposal Act."

#### 4. EQUAL EMPLOYMENT OPPORTUNITY

Except as otherwise provided under 41 CFR Part 60, all contracts that meet the definition of "federally assisted construction contract" in 41 CFR Part 60-1.3 must include the equal opportunity clause provided under 41 CFR 60-1.4(b), in accordance with Executive Order 11246, "Equal Employment Opportunity" (30 FR 12319, 12935, 3 CFR Part, 1964-1965 Comp., p. 339), as amended by Executive Order 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," and implementing regulations at 41 CFR part 60, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor." See, 2 CFR Part 200, Appendix II, para. C.

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

- (1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. Such action shall include, but not be limited to the following:  
Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
- (2) The contractor 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 race, color, religion, sex, sexual orientation, gender identity, or national origin.
- (3) The contractor will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the contractor's legal duty to furnish information.
- (4) The contractor will send to each labor union or representative of workers with which

he/she has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

- (5) The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
- (6) The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his/her books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
- (7) In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
- (8) The contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (8) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance:

Provided, however, that in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

The applicant further agrees that it will be bound by the above equal opportunity clause with respect to its own employment practices when it participates in federally assisted construction work: Provided, That if the applicant so participating is a State or local government, the above equal opportunity clause is not applicable to any agency, instrumentality or subdivision of such government which does not participate in work on or under the contract.

The applicant agrees that it will assist and cooperate actively with the administering agency and the Secretary of Labor in obtaining the compliance of contractors and subcontractors with the equal opportunity clause and the rules, regulations, and relevant orders of the Secretary of Labor, that it will furnish the administering agency and the Secretary of Labor such information as they may require for the supervision of such compliance, and that it will otherwise assist the administering agency in the discharge of the agency's primary responsibility for securing compliance.

The applicant further agrees that it will refrain from entering into any contract or contract modification subject to Executive Order 11246 of September 24, 1965, with a contractor debarred from, or who has not demonstrated eligibility for, Government contracts and federally assisted construction contracts pursuant to the Executive Order and will carry out such sanctions and penalties for violation of the equal opportunity clause as may be imposed upon contractors and subcontractors by the administering

agency or the Secretary of Labor pursuant to Part II, Subpart D of the Executive Order. In addition, the applicant agrees that if it fails or refuses to comply with these undertakings, the administering agency may take any or all of the following actions: Cancel, terminate, or suspend in whole or in part this grant (contract, loan, insurance, guarantee); refrain from extending any further assistance to the applicant under the program with respect to which the failure or refund occurred until satisfactory assurance of future compliance has been received from such applicant; and refer the case to the Department of Justice for appropriate legal proceedings.

#### 5. DAVIS-BACON ACT, 40 U.S.C. 3141-3148, AS AMENDED

When required by Federal program legislation, all prime construction contracts in excess of \$2,000 shall be done in compliance with the Davis-Bacon Act (40 U.S.C. 3141- 3144, and 3146-3148) and the requirements of 29 C.F.R. pt. 5 as may be applicable. The contractor shall comply with 40 U.S.C. 3141-3144, and 3146-3148 and the requirements of 29 C.F.R. pt. 5 as applicable. Contractors are required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor. Additionally, contractors are required to pay wages not less than once a week. The non-Federal entity must place a copy of the current prevailing wage determination issued by the Department of Labor in each solicitation. The decision to award a contract or subcontract must be conditioned upon the acceptance of the wage determination. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency.

#### 6. COPELAND ANTI-KICKBACK ACT

Where applicable, the Contractor must comply with Copeland "Anti-Kickback" Act (40 U.S.C. 3145), as supplemented by Department of Labor regulations (29 CFR Part 3, "Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States").

- a. Contractor. The Contractor shall comply with 18 U.S.C. § 874, 40 U.S.C. § 3145, and the requirements of 29 C.F.R. pt. 3 as may be applicable, which are incorporated by reference into the OGS centralized contract.
- b. Subcontracts. The Contractor or subcontractor shall insert in any subcontracts the clause above and such other clauses as FEMA may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all of these contract clauses.
- c. Breach. A breach of the clauses above may be grounds for termination of the OGS centralized contract, and for debarment as a Contractor and subcontractor as provided in 29 C.F.R. § 5.12.

#### 7. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT, 40 U.S.C. 3701-3708

Where applicable, all contracts awarded by the non-Federal entity in excess of \$ 100,000 that involve the employment of mechanics or laborers must comply with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5).

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

half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

- (2) Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (b)(1) of this section the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (b)(1) of this section, in the sum of \$27 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (b)(1) of this section.
- (3) Withholding for unpaid wages and liquidated damages. The unauthorized user shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (b)(2) of this section.
- (4) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (b)(1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (b)(1) through (4) of this section.

## 8. RIGHTS TO INVENTIONS MADE UNDER A CONTRACT OR AGREEMENT

If the Federal award meets the definition of "funding agreement" under 37 CFR § 401.2 (a) and the recipient or subrecipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that "funding agreement," the recipient or subrecipient must comply with the requirements of 37 CFR Part 401, "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by the awarding agency.

## 9. CLEAN AIR ACT, 42 U.S.C. 7401-7671Q, AND THE FEDERAL WATER POLLUTION CONTROL ACT, 33 U.S.C. 1251-1387, AS AMENDED

Where applicable, Contracts and subgrants of amounts in excess of \$150,000, must comply with the following:

### Clean Air Act

1. The contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act, as amended, 42 U.S.C. § 7401 et seq.
2. The contractor agrees to report each violation to the Division of Purchase and Property and understands and agrees that the Division of Purchase and Property will, in turn, report each violation as required to assure notification to the Federal Emergency

Management Agency, and the appropriate Environmental Protection Agency Regional Office.

3. The contractor agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with Federal assistance provided by FEMA.

#### Federal Water Pollution Control Act

1. The contractor agrees to comply with all applicable standards, orders, or regulations issued pursuant to the Federal Water Pollution Control Act, as amended, 33 U.S.C. 1251 et seq.
2. The contractor agrees to report each violation to the Division of Purchase and Property and understands and agrees that the Division of Purchase and Property will, in turn, report each violation as required to assure notification to the Federal Emergency Management Agency, and the appropriate Environmental Protection Agency Regional Office.
3. The contractor agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with Federal assistance provided by FEMA.

#### 10. DEBARMENT AND SUSPENSION (EXECUTIVE ORDERS 12549 AND 12689)

- (1) This contract is a covered transaction for purposes of 2 C.F.R. pt. 180 and 2 C.F.R. pt. 3000. As such, the contractor is required to verify that none of the contractor's principals (defined at 2 C.F.R. § 180.995) or its affiliates (defined at 2 C.F.R. § 180.905) are excluded (defined at 2 C.F.R. § 180.940) or disqualified (defined at 2 C.F.R. § 180.935).
- (2) The contractor must comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, and must include a requirement to comply with these regulations in any lower tier covered transaction it enters into.
- (3) This certification is a material representation of fact relied upon by the State or authorized user. If it is later determined that the contractor did not comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, in addition to remedies available to the State or authorized user, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment.
- (4) The bidder or proposer agrees to comply with the requirements of 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C while this offer is valid and throughout the period of any contract that may arise from this offer. The bidder or proposer further agrees to include a provision requiring such compliance in its lower tier covered transactions.

#### 11. BYRD ANTI-LOBBYING AMENDMENT, 31 U.S.C. 1352

Contractors that apply or bid for an award exceeding \$100,000 must file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier must also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the non-Federal award. Such disclosures are forwarded from tier to tier up to the recipient who in turn will forward the certification(s) to the awarding agency.

## 12. PROHIBITION ON CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT

(a) Recipients and subrecipients are prohibited from obligating or expending loan or grant funds to:

- (1) Procure or obtain;
- (2) Extend or renew a contract to procure or obtain; or
- (3) Enter into a contract (or extend or renew a contract) to procure or obtain equipment, services, or systems that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. As described in Public Law 115–232, section 889, covered telecommunications equipment is telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities).
  - (i) For the purpose of public safety, security of government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities).
  - (ii) Telecommunications or video surveillance services provided by such entities or using such equipment.
  - (iii) Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of the National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

## 13. CONTRACTS FOR MORE THAN THE SIMPLIFIED ACQUISITION THRESHOLD

Contracts for more than the simplified acquisition threshold, which is the inflation adjusted amount determined by the Civilian Agency Acquisition Council and the Defense Acquisition Regulations Council (Councils) as authorized by 41 U.S.C. 1908, must address administrative, contractual, or legal remedies in instances where contractors violate or breach contract terms, and provide for such sanctions and penalties as appropriate.

## 14. TERMINATION FOR CONVENIENCE PROVISION

All contracts in excess of \$10,000 must address termination for cause and for convenience by the non-Federal entity including the manner by which it will be effected and the basis for settlement.

## 15. BONDING REQUIREMENTS

For construction or facility improvement contracts or subcontracts exceeding the Simplified Acquisition Threshold, the Federal awarding agency or pass-through entity may accept the bonding policy and requirements of the non-Federal entity provided that the Federal awarding agency or pass-through entity has made a determination that the Federal interest is adequately protected. If such a determination has not been made, the minimum requirements must be as follows:

(a) A bid guarantee from each bidder equivalent to five percent of the bid price. The “bid guarantee” must consist of a firm commitment such as a bid bond, certified check, or other negotiable instrument accompanying a bid as assurance that the bidder will, upon

acceptance of the bid, execute such contractual documents as may be required within the time specified.

(b) A performance bond on the part of the contractor for 100 percent of the contract price. A "performance bond" is one executed in connection with a contract to secure fulfillment of all the contractor's requirements under such contract.

(c) A payment bond on the part of the contractor for 100 percent of the contract price. A "payment bond" is one executed in connection with a contract to assure payment as required by law of all persons supplying labor and material in the execution of the work provided for in the contract.

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)**

**EACH BIDDER SHOULD COMPLETE THIS FORM AND INITIAL EACH ENTRY.**

**DATE COMPLETED:** \_\_\_\_\_

**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**).

\_\_\_\_\_ Security 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

\_\_\_\_\_ Consent of Surety form signed by a Surety Company if the total amount of your Bid is over \$36,000.00.

If your bid is accepted, the Surety Company that provided the Consent shall be required to furnish a Performance, Labor and Materials Bond in the amount of 100% of the award of the contract.

The County of Union has provided its Consent of Surety form for your use. The use of this form by your Surety Company will expedite the bid review process and eliminate the possibility of having your bid rejected. If, however, you should need to use another form, please use language similar to that used on the Union County form and avoid making any additions or deletions to the Union County form language. In lieu of the Consent of Surety you may submit a Certified Check in the full amount of the bid.

\_\_\_\_\_ STATEMENT OF BIDDER OWNERSHIP. Pursuant to N.J.S.A. 52:25-24.2, which includes **BOTH** of the following documents:

- Bidder Signature Page
- Bidder Disclosure Statement (**Fill out 2 pages completely**)

\_\_\_\_\_ SUBCONTRACTOR IDENTIFICATION. Pursuant to N.J.S.A. 40A:11-16, which includes **BOTH** of the following documents:

- Subcontractor Identification Statement: List of Subcontractors (**only for certain types of work**)
- Subcontractor Identification Certification

\_\_\_\_\_ Acknowledgement of Addendum form: (**This form is to be used only when an addendum has been added to the specifications**).

\_\_\_\_\_ A copy of the State of New Jersey Department of the Treasury, Division of Revenue, **Business Registration Certificate ("BRC")** may be included with the bids to expedite the contract process because the bidder is required to provide the County of Union with its proof of business registration and that 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, **Business Registration Certificate ("BRC")** 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.



Bidders name: \_\_\_\_\_

- \_\_\_\_\_ Affirmative Action Requirement
- \_\_\_\_\_ Experience Statement
- \_\_\_\_\_ Certificate of Bidder showing ability to perform Contract
- \_\_\_\_\_ 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)**
- \_\_\_\_\_ Federal Attachments **(If applicable)**
- \_\_\_\_\_ NJDPMC Certificate / Notice of Classification **(If applicable)**
- \_\_\_\_\_ Americans with Disabilities Act
- \_\_\_\_\_ Statement of Bidder's Qualifications
- \_\_\_\_\_ Contractor Performance Record
- \_\_\_\_\_ Affidavit Regarding List of Debarred, Suspended or Disqualified Bidders
- \_\_\_\_\_ Prior Negative Experience Questionnaire
- \_\_\_\_\_ Contractor's Certification of Compliance – New Jersey Prevailing Wage Act
- \_\_\_\_\_ Uncompleted Contracts Affidavit **(For Bidder, if applicable) MUST ALSO PROVIDE DPMC FORM 701**
- \_\_\_\_\_ Certificate of Insurance Statement
- \_\_\_\_\_ Collection of Use Tax on Sales to Local Government Statement
- \_\_\_\_\_ Time of Completion
- \_\_\_\_\_ Disclosure of Investment Activities in Iran
- Disclosure of Non-Involvement in Activities in Russia or Belarus
- \_\_\_\_\_ Federal Non-Debarment Certification
- \_\_\_\_\_ BYRD Anti-Lobbying Amendment Certification
- \_\_\_\_\_ Certification regarding Lobbying
- \_\_\_\_\_ Disclosure of Lobbying Activities (LLL Form)

**I HAVE TAKEN THE FOLLOWING ACTIONS:**

- \_\_\_\_\_ Visited 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.
- \_\_\_\_\_ Reviewed Bond Requirements
- \_\_\_\_\_ Provided Proof of Compliance with New Jersey Prevailing Wage Act
- \_\_\_\_\_ Reviewed Form of Owner/Contractor Agreement and General Conditions to the Contract

Bidders name: \_\_\_\_\_

**NOTE: QUESTIONS PERTAINING TO THIS BID ARE TO BE DIRECTED TO THE DIVISION OF PURCHASING AT [ucbids@ucnj.org](mailto:ucbids@ucnj.org).**

### **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

**Lower Road Minor Bridge (Li-63) Replacement  
City of Linden, County of Union, New Jersey  
BA# 01-2024; Union County Engineering Project #2017-026**

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	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT PRICE	AMOUNT
1	Mobilization	LS	1	\$	\$
2	Silt fence	LF	1032	\$	\$
3	Haybale	UNIT	4	\$	\$
4	Inlet filter, Type 1	UNIT	4	\$	\$
5	Sediment control bag	UNIT	4	\$	\$
6	Breakaway barricade	UNIT	53	\$	\$
7	Drum	UNIT	50	\$	\$
8	Traffic cone	UNIT	50	\$	\$
9	Construction sign	SF	390	\$	\$
10	Flashing Arrow Board	UNIT	2	\$	\$
11	Portable variable message sign	UNIT	2	\$	\$
12	Traffic Control Truck with Mounted Crash Cushion	UNIT	2	\$	\$

Bidders name: \_\_\_\_\_

ITEM	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT PRICE	AMOUNT
13	Temporary Traffic Stripes, 4"	LF	1000	\$	\$
14	Temporary Traffic Markings	SF	100	\$	\$
15	Municipal Police Allowance	ALL	1	\$10,000.00	\$10,000.00
16	Fuel price adjustment	DOLLAR	1	\$5,000.00	\$5,000.00
17	Asphalt price adjustment	DOLLAR	1	\$10,000.00	\$10,000.00
18	Clearing Site	LS	1	\$	\$
19	Excavation, test pit	CY	134	\$	\$
20	Excavation, unclassified	CY	50	\$	\$
21	Excavation, regulated material	CY	1091	\$	\$
22	Removal of Pavement, Up to 12" Deep	SY	97	\$	\$
23	Disposal of regulated material	TON	1740	\$	\$
24	I-9 Soil aggregate	CY	66	\$	\$
25	NO ITEM	-	-	-	-
26	Coarse Aggregate, Size No. 57	CY	148	\$	\$
27	2" to 2-1/2" clean stone subbase 6" thick including excavation, unclassified	CY	225	\$	\$
28	Soil support fabric	SY	667	\$	\$
29	Dense graded aggregate base course, 4" thick	CY	206	\$	\$
30	Dense graded aggregate, backfill	CY	217	\$	\$
31	Tack coat	GAL	667	\$	\$

ITEM	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT PRICE	AMOUNT
32	Prime coat	GAL	929	\$	\$
33	Polymerized joint adhesive	LF	3361	\$	\$
34	HMA milling, 3" or less	SY	2595	\$	\$
35	Hot Mix Asphalt 9.5M64 surface and leveler course	TON	643	\$	\$
36	Hot Mix Asphalt 19M64 base course	TON	655	\$	\$
37	Reinforcement steel, galvanized	LB	28710	\$	\$
38	Concrete Wing Wall	CY	5	\$	\$
39	Precast Concrete Culvert	LF	72	\$	\$
40	Epoxy Waterproofing	SY	77	\$	\$
41	Concrete Bridge Deck, HPC	CY	11	\$	\$
42	Concrete Bridge Approach	CY	138	\$	\$
43	Chain-Link Fence, Galvanized Steel, Bridge, 6'-0" High	LF	52	\$	\$
44	Bronze Bridge Plaque	UNIT	2	\$	\$
45	Reset Existing Casting	UNIT	2	\$	\$
46	14"x23" ERCP storm sewer, Class IV	LF	79	\$	\$
47	18" RCP storm sewer, Class V	LF	116	\$	\$
48	24" RCP storm sewer, Class V	LF	225	\$	\$
49	19"x30" ERCP storm sewer, Class IV	LF	102	\$	\$
50	Concrete Headwall	CY	2	\$	\$
51	Inlet, type B, 6" head	UNIT	1	\$	\$
52	Inlet, type B, 8" head	UNIT	3	\$	\$

Bidders name: \_\_\_\_\_

ITEM	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT PRICE	AMOUNT
53	Manhole, 4' Square, Storm Sewer with Conversion Manhole Frame and Cover	UNIT	1	\$	\$
54	Reconstruct manhole	UNIT	1	\$	\$
55	Riprap stone slope protection, 18" thick (D50=9")	SY	17	\$	\$
56	Riprap stone channel protection, 18" thick (D50=9")	SY	8	\$	\$
57	Riprap stone channel protection, 36" thick (D50=9")	SY	6	\$	\$
58	Hot mix asphalt driveway, 6" thick, commercial	SY	124	\$	\$
59	Grade, compact and top dress with NJDOT No. 57 type stone, up to 4" thick	SY	1144	\$	\$
60	10" x 20" concrete vertical curb	LF	137	\$	\$
61	Traffic stripes, long life, "thermoplastic", 4" wide, with glass beads	LF	5932	\$	\$
62	Temporary trench repair	SY	349	\$	\$
63	Roadway trench repair	SY	10	\$	\$
64	Bypass Pumping	LS	1	\$	\$

**TOTAL BASE BID AMOUNT:**

Written

\$  
Figures

**BID CONTINGENCY: (To be used if and when directed by the County)**

ONE HUNDRED TEN THOUSAND DOLLARS AND NO CENTS  
Written

\$110,000.00  
Figures

**TOTAL BASE BID ITEMS PLUS BID CONTINGENCY AMOUNT:**

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.

Bidders name: \_\_\_\_\_

**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, in consideration of the sum of One Dollar (\$1.00), lawful money of the United States of America, to it in hand paid, receipt whereof is hereby acknowledged, and in consideration, hereby certifies and agrees that if the contract for which the attached proposal is made be awarded to \_\_\_\_\_ (hereinafter called Contractor) for the performance of certain work and labor or the supplying of certain materials, or both, as more particularly set forth in said proposal and described for purposes of this instrument as a proposal for \_\_\_\_\_ to the COUNTY OF UNION and if Contractor shall enter into the contract, Surety will become bound as surety for its faithful performance, labor and material payment and will provide the Contractor with a performance, labor and material payment bond in the full amount of the contract price.

**NOTE:**  
Expiration date  
Needed if Annual  
Surety

\_\_\_\_\_  
**NAME OF INSURANCE COMPANY**  
  
**ADDRESS:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
**ORIGINAL SIGNATURE**  
**ATTORNEY-IN-FACT FOR INSURANCE CO.**

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

Bidders name: \_\_\_\_\_

**BIDDER SIGNATURE PAGE**

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

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

\_\_\_\_\_  
**NAME OF BIDDER**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
**ADDRESS OF BIDDER**

\_\_\_\_\_  
**ORIGINAL SIGNATURE  
CORPORATE SECRETARY**

\_\_\_\_\_  
**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 of Organization:** \_\_\_\_\_

**Organization Address:** \_\_\_\_\_

**Part I Check the box that represents the type of business organization:**

- ☐ Sole Proprietorship (skip Parts II and III, execute certification in Part IV)
- ☐ Non-Profit Corporation (skip Parts II and III, execute certification in Part IV)
- ☐ For-Profit Corporation (any type)    ☐ Limited Liability Company (LLC)
- ☐ Partnership    ☐ Limited Partnership    ☐ Limited Liability Partnership (LLP)
- ☐ Other (be specific): \_\_\_\_\_

**Part II**

- ☐ 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):

Name of Individual or Business Entity	Address

**Part III 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.**

Stockholder/Partner/Member and Corresponding Entity Listed in Part II	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:	

**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: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_ Subcontract Amount: \$ \_\_\_\_\_

Specific Scope of Work Subcontracted: \_\_\_\_\_

License No. \_\_\_\_\_

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

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_ Subcontract Amount: \$ \_\_\_\_\_

Specific Scope of Work Subcontracted: \_\_\_\_\_

License No. \_\_\_\_\_

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

Address: \_\_\_\_\_

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)

**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**

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

\_\_\_\_\_  
**NAME OF BIDDER**

\_\_\_\_\_  
**ADDRESS**

**By:** \_\_\_\_\_  
**ORIGINAL SIGNATURE ONLY**

\_\_\_\_\_  
**PRINT NAME AND TITLE**

Bidders name: \_\_\_\_\_

**ACKNOWLEDGMENT OF ADDENDUM**

**COUNTY OF UNION**

\_\_\_\_\_  
**(Name of Construction /Public Works Project)**

\_\_\_\_\_  
**(Project or Bid Number)**

Pursuant to N.J.S.A. 40A:11-23.1a., the undersigned bidder, hereby acknowledges receipt of the following notices, revisions, or addenda to the bid advertisement, specifications or bid documents. By indicating date of receipt, bidder acknowledges the submitted bid takes into account the provisions of the notice, revision or addendum. Note that the County of Union’s record of notice to bidders shall take precedence and that failure to include provisions of changes in a bid proposal may be subject for rejection of the bid.

Local Unit Reference Number or Title of Addendum/Revision	How Received (mail, fax, pick- up, etc.)	Date Received

**ACKNOWLEDGMENT BY BIDDER:**

**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 business registration shall be

- ☐ A copy of a Business Registration Certificate issued by the Department of the Treasury, Division of Revenue;
- or
- ☐ A copy of the web version provided by the NJ Division of Revenue, or

Register online at [www.nj.gov/treasury/revenue/taxreg.htm](http://www.nj.gov/treasury/revenue/taxreg.htm). Click the "online" link and then select "Register for Tax and Employer Purposes or call the Division at 609-292-1730.

**Note: A NJ 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 registered 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.

Bidders name: \_\_\_\_\_

## **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.

Proof of registration 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 must be provided prior to the award of a contract. 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.

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.

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

TAXPAYER NAME: TAX REGISTRATION TEST ACCOUNT  
TRADE NAME: CLIENT REGISTRATION  
TAXPAYER IDENTIFICATION: 970-097-382/500  
SEQUENCE NUMBER: 0107330  
ADDRESS: 847 ROEBLING AVE, TRENTON, NJ 08611  
ISSUANCE DATE: 07/14/04  
EFFECTIVE DATE: 01/01/01

FORM-BRC(06-01)

STATE OF NEW JERSEY  
BUSINESS REGISTRATION CERTIFICATE

Taxpayer Name: TAX REG TEST ACCOUNT  
Trade Name:  
Address: 847 ROEBLING AVE, TRENTON, NJ 08611  
Certificate Number: 1093907  
Date of Issuance: October 14, 2004

For Office Use Only:  
20041014112813533

ATTACH BRC HERE

Bidders name: \_\_\_\_\_

**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 does not submit the initial project manning report (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 WILL declare the contractor non-responsive and award the contract to the next lowest responsible bidder.

\_\_\_\_\_  
**NAME OF BIDDER**

\_\_\_\_\_  
**ORIGINAL SIGNATURE**

\_\_\_\_\_  
**PRINT OR TYPE NAME AND TITLE**

\_\_\_\_\_  
**DATE THIS FORM IS COMPLETED**



Bidders 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

\_\_\_\_\_  
Date

\_\_\_\_\_  
NAME OF BIDDER

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
ADDRESS

By: \_\_\_\_\_  
ORIGINAL SIGNATURE ONLY

\_\_\_\_\_  
\_\_\_\_\_  
PRINT NAME AND TITLE

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

Bidders name: \_\_\_\_\_

**CERTIFICATE OF BIDDER SHOWING ABILITY TO PERFORM CONTRACT**

STATE OF NEW JERSEY / \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) Specify, if Other SS:

I, \_\_\_\_\_, of the (City, Town, Borough, etc.) of \_\_\_\_\_  
\_\_\_\_\_ State of \_\_\_\_\_, of full age, being duly sworn according to law on my oath depose and say 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 N.J.S.A. 40A:11-20, certifies that it owns, leases or controls all the necessary equipment  
required by the Plans, Specifications and Advertisements under this Bids are asked for.

If the Bidder is not the actual owner or lessee of any such equipment, then the Bidder shall attach to this Certificate  
information identifying the source from which the equipment will be obtained, and such information shall be accompanied  
by a certificate from the owner or person in control of the equipment definitively granting to the Bidder the control of the  
equipment required during such time as may be necessary for the completion of that portion of the contract.

\_\_\_\_\_  
(Also type or print name of affiant under signature)

By: \_\_\_\_\_

Bidders name: \_\_\_\_\_

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

STATE OF \_\_\_\_\_ )  
 ) SS: \_\_\_\_\_  
COUNTY OF \_\_\_\_\_ )

I \_\_\_\_\_, of the City of \_\_\_\_\_, in the County of \_\_\_\_\_, and the State of \_\_\_\_\_, of full age, being duly sworn according to law, on my oath depose and say that: I am \_\_\_\_\_ of the firm of \_\_\_\_\_, the bidder making the proposal for the above named project, and that I executed the said proposal for the above named project, and that I executed the said proposal with full authority to do so; that said bidder has not, directly or indirectly, entered into any agreement, participation in any collusion, or otherwise taken any action in restraint of free, competitive bidding in connection with the above named project; and that all statements contained in said proposal and in this Affidavit are true and correct, and made with full knowledge that the COUNTY OF UNION, NEW JERSEY relies upon the truth of the statements contained in said proposal and in the statements contained in the affidavit in awarding the contract for the said project.

I further warrant that no person or selling agency has been employed or retained to solicit or secure such contract upon an agreement or understanding for a commission, percentage, brokerage or contingent fee, except bona fide employees or bonafide established commercial or selling agencies maintained by \_\_\_\_\_ (N.J.S.A. 52:34-15).

\_\_\_\_\_  
**NAME OF BIDDER**

\_\_\_\_\_  
**ORIGINAL SIGNATURE ONLY**

**NOTE: The person who signed the bidder signature page for the bidder should sign this form also.**

Subscribed and sworn to before me

this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
(Seal) Notary Public of New Jersey/\_\_\_\_\_  
Specify Other State

My Commission 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](mailto:contreg@dol.state.nj.us)

**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 U.S.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. This statement must be notarized. Questions may be answered on separate attached sheets. The Bidder may submit any additional information it desires.

1. \_\_\_\_\_  
(Name of Bidder)
2. \_\_\_\_\_  
(Permanent Main Office Address)
3. \_\_\_\_\_  
(When Organized)
4. \_\_\_\_\_  
(If a Corporation, where incorporated)
5. Number of years your organization has been engaged in construction or contracting business under present firm or trade name? \_\_\_\_\_
6. How many years of experience in construction work has your organization had (a) as a general contractor? And/or (b) As a subcontractor? \_\_\_\_\_
7. Contracts on hand: (Attach a list or table showing gross amounts of each Contract and the appropriate dates of completion) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
8. General character of work performed by you. \_\_\_\_\_  
\_\_\_\_\_
9. Have you ever failed to complete any work awarded to you? \_\_\_\_\_  
\_\_\_\_\_
10. Have you ever defaulted on a Contract? \_\_\_\_\_ If so, complete details, including where and why?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**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, Address, Phone, Representative) \_\_\_\_\_
17. Will you, upon request, fill out a detailed financial statement? \_\_\_\_\_

Bidders name: \_\_\_\_\_

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 number and e-mail address (if applicable).

Phone \_\_\_\_\_

Fax \_\_\_\_\_

E-mail \_\_\_\_\_

Mobile \_\_\_\_\_

Dated at \_\_\_\_\_ this \_\_\_\_\_ day of \_\_, 20\_\_.

\_\_\_\_\_  
BIDDER (Signature)

\_\_\_\_\_  
BIDDER (Print Name)

Subscribed and sworn to before me

this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
(Seal) Notary Public of New Jersey/\_\_\_\_\_  
Specify Other State

My Commission Expires \_\_\_\_\_, 20\_\_.

**NOTE: FAILURE TO COMPLETE AND SUBMIT THIS DOCUMENT WITH  
YOUR PROPOSAL MAY RESULT IN A REJECTION OF YOUR BID.**



Bidders 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

\* 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.

**NOTE:            FAILURE TO COMPLETE AND SUBMIT THIS DOCUMENT WITH YOUR PROPOSAL  
MAY RESULT IN A REJECTION OF YOUR BID.**

Bidders 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)

Subscribed and sworn to before me

this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
(Seal) Notary Public of New Jersey/\_\_\_\_\_  
Specify Other State

My Commission Expires \_\_\_\_\_, 20\_\_.

Bidders name: \_\_\_\_\_

**AFFIDAVIT REGARDING LIST OF DEBARRED,  
SUSPENDED OR DISQUALIFIED BIDDERS**

STATE OF NEW JERSEY / \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) Specify, if Other ) SS:

I, \_\_\_\_\_, of the (City, Town, Borough, etc.) of \_\_\_\_\_  
\_\_\_\_\_ State of \_\_\_\_\_, of full age, being duly sworn according to law on my oath depose and say that:

I am \_\_\_\_\_ of the firm of \_\_\_\_\_, the Bidder making  
the Proposal for the above named Project. I have executed the said Proposal with full authority to do so. Said Bidder is  
not at the time of the making this bid included on the New Jersey State Treasurer's or the Federal Government's List of  
Debarred, Suspended or Disqualified Bidders as a result of action taken by any State or Federal Agency.

\_\_\_\_\_  
Name of Contractor

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

Subscribed and sworn to before me

this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
(Seal) Notary Public of New Jersey/ \_\_\_\_\_  
Specify Other State

My Commission Expires \_\_\_\_\_, 20\_\_.

**NOTE: FAILURE TO COMPLETE AND SUBMIT THIS DOCUMENT WITH YOUR  
PROPOSAL MAY RESULT IN A REJECTION OF YOUR BID.**

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

1. Within the past ten (10) years, have you been found, through either court adjudication, arbitration, mediation, or other contractually stipulated alternate dispute resolution mechanism, to have: failed to provide or perform goods or services; or failed to complete a contract in a timely manner; or otherwise performed unsatisfactorily under a prior contract with a public entity?

\_\_\_\_\_ yes                      \_\_\_\_\_ no    If yes, please provide full, detailed explanation.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. Within the past ten (10) years, have you defaulted on a contract, thereby requiring a public entity to utilize the services of another contractor to provide the goods or perform the services or to correct or complete the contract?

\_\_\_\_\_ yes                      \_\_\_\_\_ no    If yes, please provide full, detailed explanation.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. Within the past ten (10) years, have you defaulted on a contract, thereby requiring a public entity to look to your surety for completion of the contract or tender of the costs of completion?

\_\_\_\_\_ yes                      \_\_\_\_\_ no    If yes, please provide full, detailed explanation.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. Within the past ten (10) years, have you been debarred or suspended from contracting with any of the agencies or department of the executive branch of the State of New Jersey at the time of the contract award, where the action was based on failure to perform a contract for goods or services with a public entity?

\_\_\_\_\_ yes                      \_\_\_\_\_ no    If yes, please provide full, detailed explanation.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Bidders name: \_\_\_\_\_

**PRIOR NEGATIVE EXPERIENCE CERTIFICATION**

I hereby certify that the above statements are true and accurate as of this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
Name of Contractor

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

Subscribed and sworn to before me

this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
(Seal) Notary Public of New Jersey/ \_\_\_\_\_  
Specify Other State

My Commission Expires \_\_\_\_\_, 20\_\_.

**NOTE: FAILURE TO COMPLETE AND SUBMIT THIS DOCUMENT WITH YOUR PROPOSAL MAY RESULT IN A REJECTION OF YOUR BID.**

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

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

<b>TO:</b>	County of Union	<b>CONTRACT:</b>	
	Division of Engineering		
	2325 South Avenue		
	Scotch Plains, New Jersey 07076		

**PROJECT:** \_\_\_\_\_

In accordance with the requirements of the New Jersey Prevailing Wage Act, N.J.S.A. 34:11-56 et al \*, the undersigned contractor on the public work being performed for:

**COUNTY OF UNION**

hereby certifies that he/she has complied with the contract requirements regarding the payment of the minimum prevailing wages established under "The New Jersey Prevailing Wage Act" N.J.S.A. 34:11-56 et al.

<b>CONTRACTOR:</b>	_____
<b>ADDRESS:</b>	_____
	_____
<b>BY:</b>	_____
	<b>ORIGINAL SIGNATURE ONLY</b>

**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 \_\_\_\_\_ day of \_\_\_\_\_, 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.

Bidders 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 UNCOMPLETED CONTRACTS \$ \_\_\_\_\_

**BIDDER:**

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Print Name)

Subscribed and sworn to before me

this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
(Seal) Notary Public of New Jersey/ \_\_\_\_\_  
Specify Other State

My Commission Expires \_\_\_\_\_, 20\_\_.

**NOTE:** FAILURE TO COMPLETE AND SUBMIT THIS DOCUMENT WITH YOUR PROPOSAL MAY RESULT IN A REJECTION OF YOUR BID.

Bidders name: \_\_\_\_\_

**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 prior to the issuance of the Notice to Proceed.

\_\_\_\_\_  
BIDDER (Signature)

\_\_\_\_\_  
BIDDER (Print Name)

**NOTE:      FAILURE TO COMPLETE AND SUBMIT THIS DOCUMENT WITH YOUR  
PROPOSAL MAY RESULT IN A REJECTION OF YOUR BID.**



Bidders 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)

\_\_\_\_\_  
BIDDER (Print Name)

**NOTE: FAILURE TO COMPLETE AND SUBMIT THIS DOCUMENT WITH YOUR PROPOSAL MAY RESULT IN A REJECTION OF YOUR BID.**

Bidders name: \_\_\_\_\_

**TIME OF COMPLETION**

The undersigned proposed that if awarded the Contract, the scope of work will be started within ten (10) calendar days and will be substantially completed within \_\_\_\_\_**240**\_\_\_\_\_ **calendar days** from the date of the notice to proceed.

I, \_\_\_\_\_ of \_\_\_\_\_  
NAME (Print or type) COMPANY

Agree to complete work in the time frame specified \_\_\_\_\_  
SIGNATURE

**SITE VISIT – GENERAL CONTRACTOR**

I, \_\_\_\_\_ of \_\_\_\_\_  
NAME (Print or type) COMPANY

Visited the site of the work on \_\_\_\_\_  
SIGNATURE

Bidders name: \_\_\_\_\_

COUNTY OF UNION NEW JERSEY  
Division of Purchasing  
DISCLOSURE OF INVESTMENT ACTIVITIES IN IRAN FORM

Solicitation Number: \_\_\_\_\_ Vendor/Bidder: \_\_\_\_\_

**PART 1**

CERTIFICATION

VENDOR/BIDDER MUST COMPLETE PART 1 BY CHECKING ONE OF THE BOXES

**FAILURE TO CHECK ONE OF THE BOXES WILL RENDER THE PROPOSAL NON-RESPONSIVE**

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

**CHECK THE APPROPRIATE BOX**

☐ A. I certify, pursuant to Public Law 2012, c.25, that neither the Vendor/Bidder listed above nor any of its parents, subsidiaries, or affiliates is listed on the N.J. Department of Treasury's list of entities determined to be engaged in prohibited activities in Iran pursuant to P.L. 2012, c. 25 ("Chapter 25 List"). Disregard Part 2 and complete and sign the Certification below.

**OR**

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

**PART 2**

PLEASE PROVIDE ADDITIONAL INFORMATION RELATED TO INVESTMENT ACTIVITIES IN IRAN

If you checked Box "B" above, provide a detailed, accurate and precise description of the activities of the Vendor/Bidder, or one of its parents, subsidiaries or affiliates, engaged in investment activities in Iran by completing the information below.

ENTITY NAME: \_\_\_\_\_  
RELATIONSHIP TO VENDOR/BIDDER: \_\_\_\_\_  
DESCRIPTION OF ACTIVITIES: \_\_\_\_\_  
DURATION OF ENGAGEMENT: \_\_\_\_\_  
ANTICIPATED CESSATION DATE: \_\_\_\_\_  
VENDOR/BIDDER CONTACT NAME: \_\_\_\_\_  
VENDOR/BIDDER CONTACT PHONE#: \_\_\_\_\_  
*Attach Additional Sheets If Necessary*

**CERTIFICATION**

I, the undersigned, certify that I am authorized to execute this certification on behalf of the Vendor/Bidder, that the foregoing information and any attachments hereto, to the best of my knowledge are true and complete. I acknowledge that the County of Union, New Jersey is relying on the information contained herein, and that the Vendor/Bidder is under a continuing obligation from the date of this certification through the completion of any contract(s) with the 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. If I do so, I will be subject to criminal prosecution under the law, and it will constitute a material breach of my agreement(s) with the County of Union, permitting the County of Union to declare any contract(s) resulting from this certification void and unenforceable.

Signature \_\_\_\_\_

Date \_\_\_\_\_

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



Bidders name: \_\_\_\_\_

### CERTIFICATION OF NON-INVOLVEMENT IN PROHIBITED ACTIVITIES IN RUSSIA OR BELARUS

Pursuant to N.J.S.A. 52:32-60.1, et seq. ([L. 2022, c. 3](#)) any person or entity (hereinafter "Vendor"<sup>i</sup>) that seeks to enter into or renew a contract with a State agency for the provision of goods or services, or the purchase of bonds or other obligations, must complete the certification below indicating whether or not the Vendor is identified on the Office of Foreign Assets Control (OFAC) Specially Designated Nationals and Blocked Persons list, available here: <https://sanctionssearch.ofac.treas.gov/>. If the Department of the Treasury finds that a Vendor has made a certification in violation of the law, it shall take any action as may be appropriate and provided by law, rule or contract, including but not limited to, imposing sanctions, seeking compliance, recovering damages, declaring the party in default and seeking debarment or suspension of the party.

I, the undersigned, certify that I have read the definition of "Vendor" below, and have reviewed the Office of Foreign Assets Control (OFAC) Specially Designated Nationals and Blocked Persons list, and having done so certify:

*(Check the Appropriate Box)*

☐ A. That the Vendor is not identified on the [OFAC Specially Designated Nationals and Blocked Persons list on account of activity related to Russia and/or Belarus](#).

**OR**

☐ B. That I am unable to certify as to "A" above, because the Vendor is identified on the [OFAC Specially Designated Nationals and Blocked Persons list on account of activity related to Russia and/or Belarus](#).

**OR**

☐ C. That I am unable to certify as to "A" above, because the Vendor is identified on the [OFAC Specially Designated Nationals and Blocked Persons list](#). However, the Vendor is engaged in activity related to Russia and/or Belarus consistent with federal law, regulation, license or exemption. A detailed description of how the Vendor's activity related to Russia and/or Belarus is consistent with federal law is set forth below.

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*(Attach Additional Sheets If Necessary.)*

Signature of Vendor's Authorized Representative	Date
Print Name and Title of Vendor's Authorized Representative	Vendor's FEIN
Vendor's Name	Vendor's Phone Number
Vendor's Address (Street Address)	Vendor's Fax Number
Vendor's Address (City/State/Zip Code)	Vendor's Email Address

<sup>i</sup> Vendor means: (1) A natural person, corporation, company, limited partnership, limited liability partnership, limited liability company, business association, sole proprietorship, joint venture, partnership, society, trust, or any other nongovernmental entity, organization, or group; (2) Any governmental entity or instrumentality of a government, including a multilateral development institution, as defined in Section 1701(c)(3) of the International Financial Institutions Act, 22 U.S.C. 262r(c)(3); or (3) Any parent, successor, subunit, direct or indirect subsidiary, or any entity under common ownership or control with, any entity described in paragraph (1) or (2).

<b>STANDARD BID DOCUMENT REFERENCE</b>	
Name of Form:	<b>FEDERAL NON-DEBARMENT CERTIFICATION</b>
Statutory Reference:	N.J.S.A. 52:32-44.1 (P.L. 2019, c.406)
Description:	Meets statutory criteria for certification of non-debarment by a federal government agency.

### **Summary of the Certification Requirements under N.J.S.A. 52:32-44.1**

Pursuant to state law any natural person, company, firm, association, corporation, or other entity prohibited, or “debarred,” from contracting with the federal government agencies, shall also be prohibited from contracting for public work in the state of New Jersey. This prohibition also extends to any affiliate organization(s) held by or subject to the control of an entity of that prohibited person or entity.

Prior to awarding a contract for public work a local units must obtain written certification from the contracting person or entity through the form below, attesting to their non-debarment from contracting with federal government agencies. Contracting units are reminded that they must fill-in the boilerplate information in the certification sections of Parts II through IV regarding their name and type of contracting unit before using the form.

**CERTIFICATION OF NON-DEBARMENT**  
**FOR FEDERAL GOVERNMENT CONTRACTS**

N.J.S.A. 52:32-44.1 (P.L. 2019, c.406)

**This certification shall be completed, certified to, and submitted to the contracting unit prior to contract award, except for emergency contracts where submission is required prior to payment.**

<b>PART I: VENDOR INFORMATION</b>	
Individual or Organization Name	
Physical Address of Individual or Organization	
Unique Entity ID (if applicable)	
CAGE/NCAGE Code (if applicable)	
<b>Check the box that represents the type of business organization:</b>	

- ☐ Sole Proprietorship (skip Parts III and IV)   
 ☐ Non-Profit Corporation (skip Parts III and IV)  
☐ For-Profit Corporation (any type)   
 ☐ Limited Liability Company (LLC)   
 ☐ Partnership  
☐ Limited Partnership   
 ☐ Limited Liability Partnership (LLP)  
☐ Other (be specific): \_\_\_\_\_

<b>PART II – CERTIFICATION OF NON-DEBARMENT: Individual or Organization</b>			
I hereby certify that the <b>individual or organization listed above in Part I</b> is not debarred by the federal government from contracting with a federal agency. I further acknowledge: that I am authorized to execute this certification on behalf of the above-named organization; 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 date of contract award by the 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 County of Union, permitting the County of Union to declare any contract(s) resulting from this certification void and unenforceable.			
Full Name (Print):		Title:	
Signature:		Date:	

**PART III – CERTIFICATION OF NON-DEBARMENT: Individual or Entity Owning Greater than 50 Percent of Organization****Section A (Check the Box that applies)**

<input type="checkbox"/>	Below is the name and address of the stockholder in the corporation who owns more than 50 percent of its voting stock, or of the partner in the partnership who owns more than 50 percent interest therein, or of the member of the limited liability company owning more than 50 percent interest therein, as the case may be.
<b>Name of Individual or Organization</b>	
<b>Physical Address</b>	
<b>OR</b>	
<input type="checkbox"/>	No one stockholder in the corporation owns more than 50 percent of its voting stock, or no partner in the partnership owns more than 50 percent interest therein, or no member in the limited liability company owns more than 50 percent interest therein, as the case may be.
<b>Section B (Skip if no Business entity is listed in Section A above)</b>	
<input type="checkbox"/>	Below is the name and address of the stockholder in the corporation who owns more than 50 percent of the voting stock of the organization's parent entity, or of the partner in the partnership who owns more than 50 percent interest in the organization's parent entity, or of the member of the limited liability company owning more than 50 percent interest in organization's parent entity, as the case may be.
<b>Stockholder/Partner/Member Owning Greater Than 50 Percent of Parent Entity</b>	
<b>Physical Address</b>	
<b>OR</b>	
<input type="checkbox"/>	No one stockholder in the parent entity corporation owns more than 50 percent of its voting stock, no partner in the parent entity partnership owns more than 50 percent interest therein, or no member in the parent entity limited liability company owns more than 50 percent interest therein, as the case may be.

**Section C – Part III Certification****Section C – Part III Certification**

I hereby certify that no individual or organization that is debarred by the federal government from contracting with a federal agency owns greater than 50 percent of the **Organization listed above in Part I** or, if applicable, owns greater than 50 percent of a parent entity of **<name of organization>**

\_\_\_\_\_. I further acknowledge: that I am authorized to execute this certification on behalf of the above-named organization; 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 date of contract award by the 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 County of Union, permitting the County of Union to declare any contract(s) resulting from this certification void and unenforceable.

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

**Part IV – CERTIFICATION OF NON-DEBARMENT: Contractor – Controlled Entities****Section A**

Below is the name and address of the corporation(s) in which the **Organization listed in Part I** owns more than 50 percent of voting stock, or of the partnership(s) in which the **Organization listed in Part I** owns more than 50 percent interest therein, or of the limited liability company or companies in which the **Organization listed above in Part I** owns more than 50 percent interest therein, as the case may be.

**Name of Business Entity****Physical Address**

\*\*Add additional sheets if necessary\*\*

**OR**

The **Organization listed above in Part I** does not own greater than 50 percent of the voting stock in any corporation and does not own greater than 50 percent interest in any partnership or any limited liability company.



Bidders name: \_\_\_\_\_

<input type="checkbox"/>			
<b>Section B (skip if no business entities are listed in Section A of Part IV)</b>			
<input type="checkbox"/>	Below are the names and addresses of any entities in which an entity listed in Part III A owns greater than 50 percent of the voting stock (corporation) or owns greater than 50 percent interest (partnership or limited liability company).		
<b>Name of Business Entity Controlled by Entity Listed in Section A of Part IV</b>		<b>Physical Address</b>	
**Add additional Sheets if necessary**			
<b>OR</b>			
<input type="checkbox"/>	No entity listed in Part III A owns greater than 50 percent of the voting stock in any corporation or owns greater than 50 percent interest in any partnership or limited liability company.		
<b>Section C – Part IV Certification</b>			
<p>I hereby certify that the <b>Organization listed above in Part I</b> does not own greater than 50 percent of any entity that that is debarred by the federal government from contracting with a federal agency and, if applicable, does not own greater than 50 percent of any entity that in turns owns greater than 50 percent of any entity debarred by the federal government from contracting with a federal agency. I further acknowledge: that I am authorized to execute this certification on behalf of the above-named organization; 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 date of contract award by the 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 County of Union, permitting the County of Union to declare any contract(s) resulting from this certification void and unenforceable.</p>			
Full Name (Print):		Title:	
Signature:		Date:	

Bidders name: \_\_\_\_\_

**BYRD ANTI-LOBBYING AMENDMENT CERTIFICATION**  
(To be submitted with each bid, proposal or offer exceeding \$100,000)

The undersigned, [Company] \_\_\_\_\_ certifies, to the best of his or her knowledge, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form - LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31, U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The Contractor, [Company] \_\_\_\_\_, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. § 3801 et seq., apply to this certification and disclosure, if any.

\_\_\_\_\_  
Signature of Contractor's Authorized Representative

\_\_\_\_\_  
Name and Title of Contractor's Authorized Representative

\_\_\_\_\_  
Date

Bidders name: \_\_\_\_\_

## CERTIFICATION REGARDING LOBBYING

The undersigned certifies, to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities," in accordance with its instructions.

(3) The undersigned shall require that the language of this certification be included in the award documents of all sub-awards at all tiers (including subcontracts, sub-grants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, United States Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

Organization: \_\_\_\_\_

Street address: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_

\_\_\_\_\_  
CERTIFIED BY: (type or print)

TITLE: \_\_\_\_\_

\_\_\_\_\_  
(signature)

\_\_\_\_\_  
(date)

Bidders name: \_\_\_\_\_

DISCLOSURE OF LOBBYING ACTIVITIES (LLL Form)

Complete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352 0348-0046

☐

N/A – My agency does not engage in any lobbying activities

<b>1. Type of Federal Action:</b>  <input type="checkbox"/> a. contract <input type="checkbox"/> b. grant <input type="checkbox"/> c. cooperative agreement <input type="checkbox"/> d. loan <input type="checkbox"/> e. loan guarantee <input type="checkbox"/> f. loan insurance		<b>2. Status of Federal Action:</b>  <input type="checkbox"/> a. bid/offer/application <input type="checkbox"/> b. Initial award <input type="checkbox"/> c. Post-award		<b>3. Report Type:</b>  <input type="checkbox"/> a. initial filing <input type="checkbox"/> b. material change  <b>For Material Change Only:</b> year _____ quarter _____ date of last report _____	
<b>4. Name and Address of Reporting Entity:</b> <input type="checkbox"/> Prime <input type="checkbox"/> Subawardee Tier _____, if known:  Congressional District, if known:			<b>5. If Reporting Entity in NO.4 is a Subawardee, enter Name and Address of Prim:</b>  Congressional District, if known:		
<b>6. Federal Department/Agency:</b>			<b>7. Federal Program Name/Description:</b>  CDFA NUMBER, if applicable _____		
<b>8. Federal Action Number, if known:</b>			<b>9. Award Amount, if known:</b>  \$		
<b>10. a. Name and address of Lobbying Registrant</b> (if individual, last name, first name, MI):			<b>b. Individuals Performing Services</b> (including address if different from No. 10a) (las name, first name, MI):		
<b>11.</b> Information request through this form is authorized by title 31 U.S.C. Section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when this transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.			<b>Signature:</b> _____ <b>Print Name:</b> _____ <b>Title:</b> _____ <b>Telephone NO.:</b> _____ <b>Date:</b> _____		

Federal Use Only:	Authorized for Local Reproduction Standard Form LLL (Rev. 7-97)
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**INSTRUCTIONS FOR COMPLETION OF SF-LLL, DISCLOSURE OF LOBBYING ACTIVITIES**

This disclosure form shall be completed by the reporting entity, whether subawardee or prime Federal recipient, at the initiation or receipt of a covered Federal action, or a material change to a previous filing, pursuant to title 31 U.S.C. section 1352. The filing of a form is required for each payment or agreement to make payment to any lobbying entity for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress with a covered Federal action. Complete all items that apply for both the initial filing and material change report. Refer to the implementing guidance published by the Office of Management and Budget for additional information.

1. Identify the type of covered Federal action for which lobbying activity is and/or has been secured to influence the outcome of a Federal action.
2. Identify the status of the covered Federal action.
3. Identify the appropriate classification of this report. If this is a follow-up report caused by a material change to the information previously reported, enter the year and quarter in which the change occurred. Enter the date of the last previously submitted report by this reporting entity for this covered Federal action.
4. Enter the full name, address, city, state and zip code of the reporting entity include Congressional District, if known. Check the appropriate classification of the reporting entity that designates if it is or expects to be a prime or subaward recipient. Identify the tier of the subawardee, e.g., the first subawardee of the prime is the 1<sup>st</sup> tier. Subawards include but are not limited to subcontracts, subgrants and contract awards under grants.
5. If the organization filing the report in item 4 checks "Subawardee," then enter the full name, address, city, state and zip code of the prime Federal recipient. Include Congressional District, if known.
6. Enter the name of the Federal agency making the award or loan commitment. Include at least one organizational level below agency name, if known. For example, Department of Transportation, United States Coast Guard.
7. Enter the Federal program name or description for the covered Federal action (item 1). If known, enter the full Catalog of Federal Domestic Assistance (CFDA) number for grants, cooperative agreements, loans and loan commitments.
8. Enter the most appropriate Federal identifying number available for the Federal action identified in item 1 (e.g., Request for Proposal (RFP) number, Invitation for Bid (IFB) number, grant announcement number, the contract, grant, or loan award number, the application/proposal control number assigned by the Federal agency.) Include prefixes, e.g. "RFP-DE-90-001."
9. For a covered Federal action where there has been an award or loan commitment by the Federal agency, enter the Federal amount of the award/loan commitment for the prime entity identified in item 4 or 5.
10. A) Enter the full name, address, city, state and zip code of the lobbying registrant under the Lobbying Disclosure Act of 1995 engaged by the reporting entity identified in item 4 to influence the covered Federal action.  
B) Enter the full names of the individual(s) performing services, and include full address if different from 10(a). Enter last name, first name and middle initial (MI).
11. The certifying official shall sign and date the form; print his/her name, title, and telephone number.

According to the Paperwork Reduction Act, as amended, no persons are required to respond to a collection of information unless it displays a valid OMB Control Number. The valid OMB control number for this information collection is OMB No. 0348-0046. Public reporting burden for this collection of information is estimated to average 10 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-10046), Washington, DC 20503.

## **STANDARD SPECIFICATIONS**

The Standard Specifications for Road and Bridge Construction of New Jersey Department of Transportation, 2019 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 Officials (AASHTO), 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 wage rate is a percentage of the journeyman wage rate, unless otherwise indicated. The apprentice benefit rate is the full journeyman benefit rate, unless otherwise indicated.

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

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

## Comments/Notes

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

## Public Works Contractor Registration

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

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

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

## Snow Plowing

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



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

**County - UNION**

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

**PREVAILING WAGE RATE**

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

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

**APPRENTICE RATE SCHEDULE**

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

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

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

**COMMENTS/NOTES**

THESE RATES MAY BE USED FOR THE FOLLOWING:

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

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

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

SHIFT DIFFERENTIALS:

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

OVERTIME:

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

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

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

**County - UNION**

**Craft: Boilermaker**

**PREVAILING WAGE RATE**

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

**Craft: Boilermaker**

**APPRENTICE RATE SCHEDULE**

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

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

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

**Craft: Boilermaker**

**COMMENTS/NOTES**

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

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

**SHIFT DIFFERENTIALS:**

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

**OVERTIME:**

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

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

**County - UNION**

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

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

**County - UNION**

**Craft: Boilermaker - Minor Repairs**

**PREVAILING WAGE RATE**

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

**Craft: Boilermaker - Minor Repairs**

**COMMENTS/NOTES**

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

**OVERTIME:**

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

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

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

**County - UNION**

**Craft: Bricklayer, Stone Mason**

**PREVAILING WAGE RATE**

	05/09/24
Deputy Foreman	W51.60 B37.68 T89.28
Foreman	W56.35 B37.68 T94.03
Journeyman	W48.60 B37.68 T86.28

**Craft: Bricklayer, Stone Mason**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
6 Months	40%	50%	55%	60%	65%	70%	75%	80%		
Benefits	5.61	6.88	7.50	8.13	28.95	30.86	32.78	34.67		

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

**Craft: Bricklayer, Stone Mason**

**COMMENTS/NOTES**

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

**SHIFT DIFFERENTIALS:**

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

**OVERTIME:**

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

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

**County - 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.

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

**County - UNION**

**Craft: Carpenter**

**PREVAILING WAGE RATE**

	05/09/24
Foreman	W64.41 B38.73 T103.14
Journeyman	W56.01 B33.76 T89.77

**Craft: Carpenter**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
Yearly	40%	55%	65%	80%	90%					
Benefit	59.25% of	Appren	tice	Wage Rate	for all	intervals	+ \$0.57			

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

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

**Craft: Carpenter**

**COMMENTS/NOTES**

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

INTERVAL      PERIOD AND RATES  
 Yearly    40%    55%    65%    80%  
 Benefits   59.25% of apprentice wage rate for all intervals + \$0.57

**FOREMAN REQUIREMENTS:**

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

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

**SHIFT DIFFERENTIALS:**

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

**OVERTIME:**

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

**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 Saturdays shall be paid at time and one-half the hourly rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the hourly rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for a day lost due to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate, inclusive of benefits.

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



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

**County - UNION**

**Craft: Carpenter - Resilient Flooring**

**PREVAILING WAGE RATE**

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

**Craft: Carpenter - Resilient Flooring**

**APPRENTICE RATE SCHEDULE**

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

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

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

**Craft: Carpenter - Resilient Flooring**

**COMMENTS/NOTES**

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

INTERVAL      PERIOD AND RATES  
Yearly    40%    55%    65%    80%  
Benefits   59.25% of apprentice wage rate for all intervals + \$0.48.

**FOREMAN REQUIREMENTS:**

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

**FOR SYNTHETIC TURF INSTALLATION ONLY:**

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

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

**SHIFT DIFFERENTIALS:**

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

**OVERTIME:**

- Hours in excess of 8 per day or 40 per week, or before or after the regular workday, Monday through Friday, shall be paid at time and one-half the wage rate. Saturday may be used as a make-up day, at straight time, up to 8 hours, for hours lost to reasons beyond the control of the employer, up to a total of 40 hours per week; hours in excess of 8 on Saturday shall

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

**County - UNION**

then be paid at time and one-half the wage rate. If Saturday is not a make-up day, all hours on Saturday shall be paid at time and one-half the wage rate. All hours on Sundays and holidays shall be paid at double the wage rate.

- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for hours lost to reasons beyond the control of the employer. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the wage rate.

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

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

**County - UNION**

**Craft: Carpenter-Residential Construction**

**PREVAILING WAGE RATE**

	05/09/24
Foreman	W54.29 B11.99 T66.28
Journeyman	W47.21 B11.14 T58.35

**Craft: Carpenter-Residential Construction**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
Yearly	40%	55%	65%	80%						
Benefit	12% of	Appren	tice	wage rate	for all	intervals	+ \$5.48			

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

**Craft: Carpenter-Residential Construction**

**COMMENTS/NOTES**

**FOREMAN REQUIREMENTS:**

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

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

**RESIDENTIAL CONSTRUCTION:**

All residential construction (excluding commercial buildings and institutional housing), no more than four (4) floors in height above grade consisting of those projects involving the construction, alteration, or repair of town houses or row houses, single family homes, mobile homes, multi-family homes, mixed-use buildings that include commercial space on the first floor or below grade, and apartment buildings.

**SHIFT DIFFERENTIALS:**

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

**OVERTIME:**

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

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

**County - UNION**

day lost due to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate, inclusive of benefits.

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

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

County - UNION

Craft: Cement Mason                      PREVAILING WAGE RATE

See "Bricklayer, Stone Mason" Rates

Craft: Cement Mason                      APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									

Ratio of Apprentices to Journeymen - 1:4

Craft: Cement Mason                      COMMENTS/NOTES

\*\*\*See "Bricklayer, Stone Mason" Rates\*\*\*

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

**County - UNION**

**Craft: Commercial Painter**

**PREVAILING WAGE RATE**

	05/29/24
Foreman	W48.90 B30.71 T79.61
General Foreman	W53.34 B30.71 T84.05
Journeyman	W44.45 B30.71 T75.16

**Craft: Commercial Painter**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
6 Months	40%	45%	55%	65%	70%	75%	80%	80%		
Benefits	9.40	9.40	11.90	11.90	13.00	13.00	15.90	15.90		

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

**Craft: Commercial Painter**

**COMMENTS/NOTES**

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

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

**FOREMEN REQUIREMENTS:**

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

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

**SHIFT DIFFERENTIALS:**

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

**OVERTIME:**

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

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

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

**County - UNION**

Veterans' Day, Thanksgiving Day, Christmas Day.

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

**County - UNION**

**Craft: Diver**

**PREVAILING WAGE RATE**

	05/01/24
Diver	W64.72 B52.74 T117.46
Tender	W52.98 B52.74 T105.72

**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:**

0-59 feet: No additional wage  
60-74 feet: + \$0.25 per foot  
75-125 feet: + \$0.78 per foot

**MIXED GAS DIVES:**

0-74 feet: No additional wage  
75-125 feet: + \$1.00 per foot  
126-200 feet: + \$2.00 per foot

**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

**SHIFT DIFFERENTIAL:**

- When a 2 shift schedule (including a day shift) is established, the day shift shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis and receive an additional 113% of the wage rate.
- When a three shift schedule is established, all three shifts shall be established on an 8 hour basis, but the second and third shifts shall receive an additional 113% of the wage rate.
- Benefits on shift work shall be paid at the straight-time rate.

**OVERTIME:**

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

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



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

**County - UNION**

**Craft: Dockbuilder/Pile Driver**

**PREVAILING WAGE RATE**

	05/01/24
Foreman	W60.93 B52.74 T113.67
Foreman (Concrete Form Work)	W59.82 B39.39 T99.21
Journeyman	W52.98 B52.74 T105.72
Journeyman (Concrete Form Work)	W52.02 B39.39 T91.41

**Craft: Dockbuilder/Pile Driver**

**APPRENTICE RATE SCHEDULE**

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
Yearly	21.19	26.49	34.44	42.38						
Benefits	34.70	for all	intervals							

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

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

**Craft: Dockbuilder/Pile Driver**

**COMMENTS/NOTES**

APPRENTICE RATE SCHEDULE FOR CONCRETE FORM WORK ONLY:

INTERVAL	PERIOD AND RATES			
Yearly	20.81	26.01	33.81	41.62
Benefits	26.73 for all intervals			

**CREOSOTE HANDLING:**

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

**HAZARDOUS WASTE WORK:**

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

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

**FOREMAN REQUIREMENTS:**

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

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

**County - UNION**

**SHIFT DIFFERENTIAL:**

- When a 2 shift schedule (including a day shift) is established, the day shift shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis and receive an additional 113% of the wage rate.
- When a three shift schedule is established, all three shifts shall be established on an 8 hour basis, but the second and third shifts shall receive an additional 113% of the wage rate.
- Benefits on shift work shall be paid at the straight-time rate.

**OVERTIME:**

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

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

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

**County - UNION**

**Craft: Drywall Finisher**

**PREVAILING WAGE RATE**

	05/29/24
Foreman	W47.75 B31.11 T78.86
General Foreman	W49.92 B31.11 T81.03
Journeyman	W43.41 B31.11 T74.52

**Craft: Drywall Finisher**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
6 Months	40%	50%		60%	70%		80%	90%		
Benefits	Intervals	1 to 2 =	11.90	Intervals	3 to 4 =	15.03	Intervals	5 to 6 =	18.84	

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

**Craft: Drywall Finisher**

**COMMENTS/NOTES**

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

**SHIFT DIFFERENTIALS:**

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

**OVERTIME:**

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

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

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

**County - UNION**

**Craft: Electrician**

**PREVAILING WAGE RATE**

	06/03/24
Cable Splicer	W69.72 B44.96 T114.68
Foreman (11-20 Journeyman)	W74.15 B47.84 T121.99
Foreman (1-3 Journeyman)	W69.72 B44.96 T114.68
Foreman (4-10 Journeyman)	W72.89 B47.02 T119.91
General Foreman (21-30 Journeyman)	W76.06 B49.06 T125.12
General Foreman (31-60 Journeyman)	W82.39 B53.15 T135.54
General Foreman (61+ Journeyman)	W83.66 B53.97 T137.63
Journeyman	W63.38 B40.89 T104.27
Sub-Foreman	W72.25 B46.61 T118.86

**Craft: Electrician**

**APPRENTICE RATE SCHEDULE**

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
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 Journeyman - 2:3**

**Craft: Electrician**

**COMMENTS/NOTES**

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

**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.

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

**County - UNION**

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

**PREVAILING WAGE RATE**

	12/04/23	12/02/24
Journeyman Technician (1-2 Workers on Job)	W47.08 B27.78 T74.86	W48.21 B28.45 T76.66
Master Tech/General Foreman (26 + Workers on Job)	W61.20 B36.12 T97.32	W62.67 B36.99 T99.66
Senior Technician/Lead Foreman (16-25 Workers on Job)	W56.03 B33.05 T89.08	W57.37 B33.86 T91.23
Technician A/Foreman (9-15 Workers on Job)	W53.67 B31.67 T85.34	W54.96 B32.43 T87.39
Technician B/Working Foreman (4-8 Workers on Job)	W51.32 B30.28 T81.60	W52.55 B31.01 T83.56
Technician C/Foreman (3 Workers on Job)	W48.96 B28.89 T77.85	W50.14 B29.59 T79.73

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

**APPRENTICE RATE SCHEDULE**

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
6 Months	35%	35%	40%	43%	48%	54%	61%	67%	74%	81%
Benefits	7.45	7.45	8.51	9.15	10.22	11.49	12.98	14.26	15.76	17.24

**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 11-28-22:

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
6 Months	35%	35%	40%	43%	48%	54%	61%	67%	74%	81%
Benefits	7.67	7.67	8.76	9.43	10.52	11.84	13.38	14.69	16.22	17.76

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM AFTER 12-4-23:

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
6 Months	35%	35%	40%	43%	48%	54%	61%	67%	74%	81%
Benefits	7.88	7.88	9.00	9.68	10.80	12.15	13.73	15.09	16.66	18.23

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM AFTER 12-2-24:

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

**County - UNION**

INTERVAL	PERIOD AND RATES									
6 Months	35%	35%	40%	43%	48%	54%	61%	67%	74%	81%
Benefits	8.07	8.07	9.22	9.91	11.07	12.45	14.06	15.44	17.06	18.68

**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 7:00 AM and 5:30 PM.

**SHIFT DIFFERENTIALS:**

- Shift work must run for a minimum of 5 consecutive workdays.
- 2nd Shift (4:30 PM to 12:30 AM) 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 before or after the regular workday, Monday through Friday, that are not shift work, and the first 10 hours on Saturday, shall be paid at time and one-half the regular rate, inclusive of benefits. Hours in excess of 10 on Saturday and all hours on Sunday and holidays shall be paid at double the regular rate, inclusive of benefits.

- Four 10-hour days may be worked Monday through Friday, between the hours of 7:00 AM and 5:30 PM. A make-up day may be used for a day not being worked during the four 10-hour day schedule if a holiday occurs during the week or for any other conditions that prevent an employee from working the four 10-hour day schedule.

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

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

County - UNION

Craft: Electrician - Teledata (16 Instruments & More)	PREVAILING WAGE RATE
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See "Electrician" Rates

Craft: Electrician - Teledata (16 Instruments & More)	COMMENTS/NOTES
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\*\*\*See ELECTRICIAN Rates\*\*\*



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

**County - UNION**

**Craft: Electrician- Outside Commercial**

**PREVAILING WAGE RATE**

	06/03/24
Cable Splicer	W70.04 B44.66 T114.70
Certified Welder	W66.86 B42.62 T109.48
Equipment Operator	W63.67 B40.60 T104.27
Foreman (11-20 Journeymen workers on job)	W74.50 B47.50 T122.00
Foreman (1-3 Journeymen workers on job)	W70.04 B44.66 T114.70
Foreman (4-10 Journeymen workers on job)	W73.23 B46.70 T119.93
General Foreman (21-30 Journeymen workers on job)	W76.41 B48.71 T125.12
General Foreman (31-60 Journeymen workers on job)	W82.78 B52.76 T135.54
General Foreman (61+ Journeymen workers on job)	W84.05 B53.58 T137.63
Groundman	W38.21 B24.35 T62.56
Journeyman Lineman/Technician	W63.67 B40.60 T104.27
Sub-Foreman	W72.59 B46.27 T118.86

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

**County - UNION**

**Craft: Electrician- Outside Commercial**

**APPRENTICE RATE SCHEDULE**

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
1000 Hours	60%	65%	70%	75%	80%	85%	90%			
Benefits	61.75% of	Journey	man	wage	+ \$.01					

**Craft: Electrician- Outside Commercial**

**COMMENTS/NOTES**

APPRENTICE RATE SCHEDULE AS OF 5-29-23:

Interval	Period and Rates									
1000 Hours	60%	65%	70%	75%	80%	85%	90%			
Benefits	62.75% of the Journeyman wage + \$.01									

APPRENTICE RATE SCHEDULE AS OF 6-3-24:

Interval	Period and Rates									
1000 Hours	60%	65%	70%	75%	80%	85%	90%			
Benefits	63.75% of the Journeyman wage + \$.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 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,

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

**County - UNION**

Thanksgiving Day and Christmas Day.

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

County - UNION

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

Rates are located in the "Statewide" rate package

Craft: Electrician-Utility Work (North)                      APPRENTICE RATE SCHEDULE

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

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

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

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



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

**County - UNION**

**Craft: Elevator Constructor**

**PREVAILING WAGE RATE**

	03/29/23
Journeyman	W77.49 B45.23 T122.72

**Craft: Elevator Constructor**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
Yearly	34.60	42.62	50.37	58.12						
Benefits	35.56	36.49	38.02	39.55						

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

**Craft: Elevator Constructor**

**COMMENTS/NOTES**

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 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.

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

**County - UNION**

**Craft: Elevator Modernization & Service**

**PREVAILING WAGE RATE**

	03/29/23
Journeyman	W60.89 B44.07 T104.96

**Craft: Elevator Modernization & Service**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
Yearly	34.60	33.49	39.58	45.67						
Benefits	35.50	36.07	37.52	38.97						

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

**Craft: Elevator Modernization & Service**

**COMMENTS/NOTES**

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.

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.

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

**County - UNION**

**Craft: Glazier                      PREVAILING WAGE RATE**

	05/09/24
* Leadman	W53.43 B31.98 T85.41
Foreman	W55.43 B32.22 T87.65
General Foreman	W57.43 B32.47 T89.90
Journeyman	W51.43 B31.74 T83.17

**Craft: Glazier                      APPRENTICE RATE SCHEDULE**

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
6 Months	46%	46%	55%	55%	61%	61%	70%	70%		
Benefits	12.44	12.44	14.76	14.76	18.16	18.16	19.79	19.79		

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

**Craft: Glazier                      COMMENTS/NOTES**

Hazard/Height Pay: +\$1.00 per hour

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

**FOREMAN REQUIREMENTS:**

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

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

**SHIFT DIFFERENTIALS:**

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

**OVERTIME:**

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



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

**County - UNION**

rate.

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

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

**County - UNION**

**Craft: Heat & Frost Insulator**

**PREVAILING WAGE RATE**

	09/19/23
Foreman	W60.97 B37.97 T98.94
General Foreman	W63.31 B39.08 T102.39
Journeyman	W58.69 B37.41 T96.10

**Craft: Heat & Frost Insulator**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
Yearly	27.51	32.64	39.31	45.91						
Benefits	21.73	25.78	28.63	31.61						

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

**Craft: Heat & Frost Insulator**

**COMMENTS/NOTES**

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

The regular workday shall be 8 hours between 7:00 AM and 3:30 PM. In addition, the regular workday may also be 8 hours between 6:00 AM and 2:30 PM.

**SHIFT DIFFERENTIAL:**

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

**OVERTIME:**

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

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

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

**County - UNION**

**Craft: Heat & Frost Insulator - Asbestos Worker**

**PREVAILING WAGE RATE**

	09/19/23
Asbestos Helper	W36.89
Abatement	B24.92
	T61.81

**Craft: Heat & Frost Insulator - Asbestos Worker**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
	SEE	HEAT &	FROST	INSULAT OR						

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

**Craft: Heat & Frost Insulator - Asbestos Worker**

**COMMENTS/NOTES**

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

The regular workday shall be 8 hours between 7:00 AM and 3:30 PM. In addition, the regular workday may also be 8 hours between 6:00 AM and 2:30 PM.

**SHIFT DIFFERENTIALS:**

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

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

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

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

**County - UNION**

**Craft: Industrial Painter- Bridges**

**PREVAILING WAGE RATE**

	03/21/24	02/01/25	02/01/26
Foreman	W64.29 B35.91 T100.20	W0.00 B0.00 T102.20	W0.00 B0.00 T104.20
General Foreman	W66.79 B35.91 T102.70	W0.00 B0.00 T104.70	W0.00 B0.00 T106.70
Journeyman	W59.29 B35.91 T95.20	W0.00 B0.00 T97.20	W0.00 B0.00 T99.20

**Craft: Industrial Painter- Bridges**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
6 Months	50%	70%	90%							
Benefits	14.10	21.26	27.88							

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

**Craft: Industrial Painter- Bridges**

**COMMENTS/NOTES**

\* Industrial Painters perform work on all industrial structures, such as bridges.

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

**FOREMEN REQUIREMENTS:**

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

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

**SHIFT DIFFERENTIALS:**

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

**OVERTIME:**

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays and Sundays shall be paid at time and one-half the regular rate. All hours on holidays shall be paid at double the regular rate, except Veterans Day, which shall be paid at time and one-half the regular rate.
- During a regular work week schedule, Saturday may be used as a make-up day lost to inclement weather, paid at the regular rate.
- Four 10-hour days may be worked, at the regular rate, Monday through Thursday. When the four 10-hour day schedule is used, the 11th and 12th hours shall be paid at time and one-half the regular rate. After the 12th hour, a worker shall be paid at double the regular rate. Friday may be used as a make-up day lost to inclement weather, paid at the regular rate.

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

**County - UNION**

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

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

**County - UNION**

**Craft: Industrial Painter- Structural Steel**

**PREVAILING WAGE RATE**

	03/21/24	02/01/25	02/01/26
Foreman	W53.03 B33.56 T86.59	W0.00 B0.00 T88.59	W0.00 B0.00 T90.59
General Foreman	W55.53 B33.56 T89.09	W0.00 B0.00 T91.09	W0.00 B0.00 T93.09
Journeyman	W48.03 B33.56 T81.59	W0.00 B0.00 T83.59	W0.00 B0.00 T85.59

**Craft: Industrial Painter- Structural Steel**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
	SEE	INDUST	RIAL	PAINTER	BRIDGES					

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

**Craft: Industrial Painter- Structural Steel**

**COMMENTS/NOTES**

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

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

**FOREMEN REQUIREMENTS:**

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

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

**SHIFT DIFFERENTIALS:**

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

**OVERTIME:**

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays and Sundays shall be paid at time and one-half the regular rate. All hours on holidays shall be paid at double the regular rate, except for Veterans Day, which shall be paid at time and one-half the regular rate.
- During the regular work week schedule, Saturday may be used to make-up a day lost to inclement weather, paid at the regular rate.
- Four 10-hour days may be worked, at the regular rate, Monday through Thursday. When the four 10-hour day schedule is used, the 11th and 12th hours shall be paid at time and one-half the regular rate. After the 12th hour, a worker shall be paid at double the regular rate. Friday may be used as a make-up day lost to inclement weather, paid at the regular rate.

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

**County - UNION**

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

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

**County - UNION**

**Craft: Industrial Painter- Water Tanks**

**PREVAILING WAGE RATE**

	03/21/24	02/01/25	02/01/26
Foreman	W54.08 B33.21 T87.29	W0.00 B0.00 T89.29	W0.00 B0.00 T91.29
General Foreman	W56.58 B33.21 T89.79	W0.00 B0.00 T91.79	W0.00 B0.00 T93.79
Journeyman	W49.08 B33.21 T82.29	W0.00 B0.00 T84.29	W0.00 B0.00 T86.29

**Craft: Industrial Painter- Water Tanks**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
6 Months	50%	70%	90%							
Benefits	14.10	21.26	27.88							

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

**Craft: Industrial Painter- Water Tanks**

**COMMENTS/NOTES**

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

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

**FOREMEN REQUIREMENTS:**

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

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

**SHIFT DIFFERENTIALS:**

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

**OVERTIME:**

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays and Sundays shall be paid at time and one-half the regular rate. All hours on holidays shall be paid at double the regular rate, except Veterans Day, which shall be paid at time and one-half the regular rate.
- During a regular work week schedule, Saturday may be used to make-up a day lost to inclement weather, paid at the regular rate.
- Four 10-hour days may be worked, at the regular rate, Monday through Thursday. When the four 10-hour day schedule is used, the 11th and 12th hours shall be paid at time and one-half the regular rate. After the 12th hour, a worker shall be paid at double the regular rate. Friday may be used as a make-up day lost to inclement weather, paid at the regular rate.



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

**County - UNION**

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

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

**County - UNION**

**Craft: Ironworker**

**PREVAILING WAGE RATE**

	07/03/24
Rod /Fence Foreman	W53.29 B50.87 T104.16
Rod/Fence Journeyman	W48.44 B50.87 T99.31
Structural Foreman	W55.82 B50.87 T106.69
Structural Journeyman	W50.74 B50.87 T101.61

**Craft: Ironworker**

**APPRENTICE RATE SCHEDULE**

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
6 Months	50%	60%		Yearly	70%	80%	90%			
Benefits	same as	journeyma n	amount							

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

**Craft: Ironworker**

**COMMENTS/NOTES**

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

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

**FOREMAN REQUIREMENTS:**

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

**SHIFT DIFFERENTIALS:**

- When a 2 shift schedule is established, the first, or day shift , shall be established on an 8 hour basis .The second shift shall be established on an 8 hour basis, and receive the regular rate plus 15%.

- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular hourly rate, the second shift shall receive the regular rate plus 15%, and the third shift shall receive the regular rate plus 20%.

- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis.

- When an irregular shift is established for the Ironworker (Structural) classification, the rate shall be paid at time and one-half the regular rate, inclusive of benefits. When an irregular shift is established for the Rod/Fence classification, the shift shall be established on an 8 hour basis and receive the regular rate, plus 20%.

**OVERTIME:**

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

**County - 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.

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

**County - UNION**

**Craft: Laborer - Asbestos & Hazardous Waste Removal**

**PREVAILING WAGE RATE**

	09/05/23
Foreman	W44.75 B24.71 T69.46
Journeyman (Handler)	W39.78 B24.71 T64.49

**Craft: Laborer - Asbestos & Hazardous Waste Removal**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
Yearly	22.07	25.75	29.42	33.10						
Benefits	22.06	for	all	intervals						

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

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

**Craft: Laborer - Asbestos & Hazardous Waste Removal**

**COMMENTS/NOTES**

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

The regular workday shall be 8 hours.

**OVERTIME:**

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

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

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

**County - UNION**

**Craft: Laborer - Building**

**PREVAILING WAGE RATE**

	05/29/24
Class A Journeyman	W39.45 B33.17 T72.62
Class B Journeyman	W38.45 B33.17 T71.62
Class C Journeyman	W32.68 B33.17 T65.85
Foreman	W44.38 B33.17 T77.55
General Foreman	W49.31 B33.17 T82.48

**Craft: Laborer - Building**

**APPRENTICE RATE SCHEDULE**

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
6 Months	60%	70%	80%	90%	of Class B	wage rate				
Benefit	29.92	29.92	29.92	29.92						

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

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

**Craft: Laborer - Building**

**COMMENTS/NOTES**

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

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

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

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

**SHIFT DIFFERENTIALS:**

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

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

**County - UNION**

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

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

- When an irregular shift must be established this shift shall receive the regular rate plus an additional 10%.

**OVERTIME:**

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

- Four 10-hour days may be worked Monday to Thursday, at straight time, with Friday used a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the regular rate.

- Benefits on ALL overtime hours shall be paid at time and one-half.

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

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

County - UNION

Craft: Laborer - Heavy & General                      PREVAILING WAGE RATE

Rates are located in the  
"Statewide" rate package

Craft: Laborer - Heavy & General                      APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
1000 Hours	60%	70%	80%	90%						
Benefit	25.08	for	all	intervals						

Ratio of Apprentices to Journeymen - \*

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

As of 3-1-25, benefits shall be 26.13.  
As of 3-1-26, benefits shall be 27.13.

Craft: Laborer - Heavy & General                      COMMENTS/NOTES

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

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

**County - UNION**

**Craft: Laborer-Residential and Modular Construction**

**PREVAILING WAGE RATE**

	04/01/23
* Skilled Tradesman (only applies to Modular Construction)	W27.90 B5.45 T33.35
Foreman (person directing crew, regardless of his skill classification)	W31.90 B5.45 T37.35
Laborer (for single family and stand-alone duplex owned by single owner)	W17.85 B2.95 T20.80
Residential and Modular Construction Laborer	W23.90 B5.45 T29.35

**Craft: Laborer-Residential and Modular Construction**

**APPRENTICE RATE SCHEDULE**

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

Ratio of Apprentices to Journeymen-

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

**Craft: Laborer-Residential and Modular Construction**

**COMMENTS/NOTES**

**\* SKILLED TRADESMAN-**

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

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

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



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**County - UNION**

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

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

**OVERTIME:**

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

**RECOGNIZED HOILDAYS:**

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

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

**County - UNION**

**Craft: Millwright**

**PREVAILING WAGE RATE**

	05/01/24
Foreman	W66.04 B39.75 T105.79
Journeyman	W57.43 B34.65 T92.08

**Craft: Millwright**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
6 Months	40%	55%	65%	80%	90%					
Benefits	59.25% of	Appren	tice	Wage	Rate	for all	intervals	+ \$0.62		

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

**Craft: Millwright**

**COMMENTS/NOTES**

**FOREMAN REQUIREMENTS:**

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

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

**SHIFT DIFFERENTIALS:**

- When a 2 shift schedule (including a day shift) is established, the day shift shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis, and receive the regular rate plus 15%, inclusive of benefits.

- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular hourly rate, the second shift shall receive the regular rate plus 15% and the third shift shall receive the regular rate plus 20%, inclusive of benefits.

- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis. The second shift shall receive the regular rate plus 15% and the third shift shall receive the regular rate plus 20%, inclusive of benefits.

- When an irregular shift must be established, this shift shall receive the regular rate plus 15%, inclusive of benefits.

**OVERTIME:**

- All hours in excess of 8 per day, or before or after an established shift that are not shift work, and all hours on Saturdays shall be paid at time and one-half the hourly rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the hourly rate, inclusive of benefits.

- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for a day lost due to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate, inclusive of benefits.

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

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

County - UNION

Craft: Operating Engineer                      PREVAILING 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 - \*

\* 1 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.

Craft: Operating Engineer                      COMMENTS/NOTES

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

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

County - UNION

Craft: Operating Engineer - Field Engineer                      PREVAILING WAGE RATE

Rates are located in the  
"Statewide" rate package

Craft: Operating Engineer - Field Engineer                      APPRENTICE RATE SCHEDULE

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

Ratio of Apprentices to Journeymen - \*

\* No more than 1 Field Engineer Apprentice per Survey Crew.

Craft: Operating Engineer - Field Engineer                      COMMENTS/NOTES

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

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

**County - UNION**

**Craft: Painter - Line Striping**

**PREVAILING WAGE RATE**

	12/01/23
Apprentice (1st year)	W29.89 B15.70 T45.59
Apprentice (2nd year)	W34.10 B26.65 T60.75
Foreman (Charge Person)	W43.10 B27.43 T70.53
Journeyman 1 (at least 1 year of working exp. as a journeyman)	W38.33 B27.43 T65.76
Journeyman 2 (at least 2 years of working exp. as a journeyman)	W42.10 B27.43 T69.53

**Craft: Painter - Line Striping**

**APPRENTICE RATE SCHEDULE**

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									

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

**Craft: Painter - Line Striping**

**COMMENTS/NOTES**

**OVERTIME:**

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

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

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

**County - UNION**

**Craft: Paperhanger**

**PREVAILING WAGE RATE**

	05/29/24
Foreman	W53.79 B30.71 T84.50
Journeyman	W48.90 B30.71 T79.61

**Craft: Paperhanger**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
	SEE	COMME R	CIAL	PAINTER						

**Craft: Paperhanger**

**COMMENTS/NOTES**

**FOREMEN REQUIREMENTS:**

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

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

**SHIFT DIFFERENTIALS:**

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

**OVERTIME:**

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

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

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

**County - UNION**

**Craft: Pipefitter**

**PREVAILING WAGE RATE**

	05/01/24
Foreman	W59.34 B52.02 T111.36
Journeyman	W55.09 B48.30 T103.39

**Craft: Pipefitter**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
Yearly	35%	45%	55%	65%	75%					
Benefit	27.62	30.78	33.95	37.12	40.29					

**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

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

**County - UNION**

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.



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

**County - UNION**

**Craft: Plasterer                      PREVAILING WAGE RATE**

See Bricklayer, Stone Mason Rates

**Craft: Plasterer                      COMMENTS/NOTES**

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

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

**County - UNION**

**Craft: Plumber**

**PREVAILING WAGE RATE**

	05/01/24
Foreman	W65.33 B43.22 T108.55
General Foreman	W69.56 B43.22 T112.78
Journeyman	W60.49 B43.22 T103.71

**Craft: Plumber**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
Yearly	30%	45%	55%	65%	75%					
Benefits	18.23	24.72	27.02	29.31	31.60					

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

\* 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.

**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 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 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.

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

**County - UNION**

**Craft: Roofer**

**PREVAILING WAGE RATE**

	06/01/24
Foreman	W47.52 B32.34 T79.86
Journeyman	W44.52 B32.34 T76.86

**Craft: Roofer**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
6 Months	17.80	22.26	26.71	28.94	31.16	33.39	35.62	40.07		
Benefits	2.19	2.19	28.34	28.34	28.34	28.34	28.34	28.34		

**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**

Pitch: +.50 per hour

Mop Man: +.30 per hour

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

**OVERTIME:**

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

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

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

**County - UNION**

**Craft: Sheet Metal Sign Installation**

**PREVAILING WAGE RATE**

	04/17/24
Foreman	W44.19 B43.87 T88.06
Journeyman	W41.69 B43.87 T85.56

**Craft: Sheet Metal Sign Installation**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
1000 hours	35%	40%	45%	50%	55%	60%	65%	70%	75%	80%
Benefits	14.62	16.66	18.72	20.79	23.33	25.43	27.52	29.62	31.73	33.82

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

**Craft: Sheet Metal Sign Installation**

**COMMENTS/NOTES**

**FOREMAN REQUIREMENT:**

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

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

**OVERTIME:**

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

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

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

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

**County - UNION**

**Craft: Sheet Metal Worker**

**PREVAILING WAGE RATE**

	06/13/24
Foreman	W61.90 B50.32 T112.22
General Foreman	W62.90 B50.32 T113.22
Journeyman	W57.90 B50.32 T108.22

**Craft: Sheet Metal Worker**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
Yearly	45%	48%	52%	65%	of	Journey	man	Wage	Rate	
Benefit	45%	48%	52%	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.

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

**County - UNION**

**Craft: Sprinkler Fitter**

**PREVAILING WAGE RATE**

	07/01/24
Foreman	W73.06 B39.71 T112.77
General Foreman	W76.79 B39.71 T116.50
Journeyman	W68.56 B39.71 T108.27

**Craft: Sprinkler Fitter**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
1000 Hours									80%	85%
Benefits							Intervals	9 to 10	Jourymn	Ben.

**Craft: Sprinkler Fitter**

**COMMENTS/NOTES**

Apprentice rate schedule for those apprentices registered as of 7-1-13:

Interval                      Period and Rates  
1000 Hrs. 25% 30% 40% 45% 55% 60% 70% 75% 85% 90%  
Ben.      14.31 14.31 29.86 29.86 29.86 29.86 Intervals 7-10 Journey. Ben.

Apprentice rate schedule for those apprentices registered as of 7-1-22:

Interval                      Period and Rates  
1000 Hrs. 30% 35% 40% 45% 50% 55% 60% 70% 85% 95%  
Ben.      14.31 14.31 29.86 29.86 29.86 29.86 Intervals 7-10 Journey. Ben.

APPRENTICE RATE SCHEDULES AS OF 7-1-24:

Apprentice rate schedule for those apprentices registered as of 7-1-13:

Interval                      Period and Rates  
1000 Hrs. 25% 30% 40% 45% 55% 60% 70% 75% 85% 90%  
Ben.      14.41 14.41 30.71 30.71 30.71 30.71 Intervals 7-10 Journey. Ben.

Apprentice rate schedule for those apprentices registered as of 7-1-22:

Interval                      Period and Rates  
1000 Hrs. 30% 35% 40% 45% 50% 55% 60% 70% 85% 95%  
Ben.      14.41 14.41 30.71 30.71 30.71 30.71 Intervals 7-10 Journey. Ben.

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

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

**County - UNION**

**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, Memorial Day, July 4th, Labor Day, Veterans Day, Thanksgiving Day, Christmas Day.

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

**County - UNION**

**Craft: Tile Finisher-Marble**

**PREVAILING WAGE RATE**

	07/01/24
Finisher	W49.99 B37.54 T87.53

**Craft: Tile Finisher-Marble**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
750 Hours	40%	60%	65%	70%	75%	85%	95%			
Benefits	Interval 1	thru 5 =	75% of	jyrm. ben	rate	Interval 6	thru 7 =	full jyrm	benefit	rate

**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.



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

**County - UNION**

**Craft: Tile Setter - Ceramic**

**PREVAILING WAGE RATE**

	06/03/24
Finisher	W49.08 B32.98 T82.06
Setter	W63.91 B36.26 T100.17

**Craft: Tile Setter - Ceramic**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
750 Hours	35%	40%	50%	55%	60%	65%	70%	75%	80%	90%

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

**Craft: Tile Setter - Ceramic**

**COMMENTS/NOTES**

**OVERTIME:**

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

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

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

**County - UNION**

**Craft: Tile Setter - Marble**

**PREVAILING WAGE RATE**

	07/01/24
Tile Setter	W63.92 B40.20 T104.12

**Craft: Tile Setter - Marble**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
750 Hours	40%	60%	65%	70%	75%	85%	95%			
Benefits	Interval 1	thru 5 =	75% of	jyrnm. ben	rate	Interval 6	thru 7 =	full jyrnm	benefit	rate

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

**Craft: Tile Setter - Marble**

**COMMENTS/NOTES**

**OVERTIME:**

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

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

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

**County - UNION**

**Craft: Tile Setter - Mosaic & Terrazzo**

**PREVAILING WAGE RATE**

	07/01/24
Grinder or Assistant	W59.37 B41.48 T100.85
Mechanic	W60.98 B41.49 T102.47
Terrazzo Resinous Worker	W50.76 B33.86 T84.62

**Craft: Tile Setter - Mosaic & Terrazzo**

**APPRENTICE RATE SCHEDULE**

INTERVAL	PERIOD AND RATES									
1500 Hours	35%	45%	60%	70%	80%	90%				

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

**Craft: Tile Setter - Mosaic & Terrazzo**

**COMMENTS/NOTES**

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

**OVERTIME:**

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

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

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

**County - UNION**

**Craft: Truck Driver**

**PREVAILING WAGE RATE**

	05/01/24
Bucket, Utility, Pick-up, Fuel Delivery trucks	W45.41 B43.28 T88.69
Dump truck, Asphalt Distributor, Tack Spreader	W45.41 B43.28 T88.69
Euclid-type vehicles (large, off-road equipment)	W45.51 B43.28 T88.79
Helper on Asphalt Distributor truck	W45.41 B43.28 T88.69
Low Boy Driver	W47.01 B43.28 T90.29
Slurry Seal, Seeding/Fertilizing/ Mulching truck	W45.41 B43.28 T88.69
Straight 3-axle truck	W45.41 B43.28 T88.69
Tractor Trailer (all types)	W45.51 B43.28 T88.79
Vacuum or Vac-All truck (entire unit)	W45.41 B43.28 T88.69
Winch Trailer	W45.61 B43.28 T88.89

**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.

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

**County - UNION**

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

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 \$40.03.
- As of 5-1-23, benefits on overtime shall be \$41.53.
- As of 5-1-24, benefits on overtime shall be \$43.03.

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

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

**County - UNION**

**Craft: Truck Driver-Material Delivery Driver**

**PREVAILING WAGE RATE**

	05/01/24
Driver	W37.62 B43.28 T80.90

**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, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday. The day after Thanksgiving may be substituted for Veterans Day.

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

County - UNION

Craft: Welder                      PREVAILING WAGE RATE

Welder

Craft: Welder                      COMMENTS/NOTES

Welders rate is the same as the craft to which the welding is incidental .

# STATEWIDE RATES



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

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

The regular workday consists of 8 hours, Monday to Friday, between 6:00 AM and 5:30 PM.

**SHIFT DIFFERENTIALS:**

- Shift work must be established for 5 consecutive workdays.
- Any work started outside of the allowed start time, 6:00 AM to 9:00 AM, except for \* tidal work, shall be considered an irregular shift and paid at straight time, plus 15% for the first eight hours, inclusive of benefits.
- \* FOR TIDAL WORK- a contractor can start their job according to tide schedules (tide schedules are the various high and low tides related to this work), providing the eight hour shift is completed between the hours of 5:00 AM and 6:30 PM.
- All time worked in excess of an established shift (an established shift is a shift that is determined at the time of the bid) shall be paid at the applicable overtime rate. When a portion of an established shift works into Saturday, Sunday or a holiday, that time worked shall be paid at the established shift rate.
- When working with other trades who receive a higher irregular shift differential, these employees shall also receive the higher differential rate.

**OVERTIME:**

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

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

For projects bid after April 1, 2020, on hazardous waste removal work of any kind, including a state or federally designated site, where the operating engineer is required to wear level A, B, or C personal protection, the operating engineer shall receive an hourly wage rate of his regular hourly wage plus \$5.00 per hour.

- An operating engineer working at a hazardous waste removal project or site at a task requiring hazardous waste related certification, but who is not working in a zone requiring level A, B, or C personal protection, shall receive an hourly wage rate of his regular rate plus \$1.00 per hour.

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

**Effective Dates:**

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
58.88	39.15	98.03	100.53

**CLASSIFICATIONS:**

A-Frame

Backhoe (combination)

Boom Attachment on loaders (Except pipehook)

Boring & Drilling Machine

Brush Chopper, Brush Shredder, Tree Shredder, Tree Shearer

Bulldozer, finish grade

Cableway

Carryall

Concrete Pump

Concrete Pumping System (Pumpcrete & similar types)

Conveyor, 125 feet or longer

Drill Doctor (Duties include dust collector and maintenance)

Front End Loader (2 cu. yds. but less than 5 cu. yds.)

Grader, finish

Groove Cutting Machine (ride-on type)

Heater Planer

Hoist: Outside Material Tower Hoist (all types including steam, gas, diesel, electric, air hydraulic, single and double drum, concrete, brick shaft caisson, snorkle roof, and other similar types, Except Chicago-boom type) \* receives an additional \$1.00 per hour on 100 ft. up to 199 ft. total height, and an additional \$2.00 per hour on 200 ft. and over total height.

Hydraulic Crane (10 tons & under)

Hydraulic Dredge

Hydro-Axe

Hydro-Blaster

OPERATING ENGINEERS

Rates Expiration Date :

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
58.88	39.15	98.03	100.53

CLASSIFICATIONS:

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

Log Skidder

Pan

Paver, concrete

Plate & Frame Filter Press

Pumpcrete (unit type)

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

Scraper

Side Boom

Straddle Carrier (Ross and similar types)

Whiphammer

Winch Truck (hoisting)

OPERATING ENGINEERS

Rates Expiration Date :

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
56.97	39.15	96.12	98.62

CLASSIFICATIONS:

- Asphalt Curbing Machine
- Asphalt Plant Engineer
- Asphalt Spreader
- Autograde Curb Trimmer & Sidewalk Shoulder Slipform (CMI & similar types)
- Autograde Curecrete Machine (CMI & similar types)
- Autograde Tube Finisher & Texturing Machine (CMI & similar types)
- Bar Bending Machines (Power)
- Batcher, Batching Plant, & Crusher [On Site]
- Belt Conveyor System
- Boom-Type Skimmer Machine
- Bridge Deck Finisher
- Bulldozer (all sizes)
- Captain (Power Boats)
- Car Dumper (railroad)
- Compressor & Blower unit for loading/unloading of concrete, cement, fly ash, or similar type materials (used independently or truck-mounted)
- Compressor (2 or 3 battery)
- Concrete Breaking Machine
- Concrete Cleaning/Decontamination Machine
- Concrete Finishing Machine
- Concrete Saw or Cutter (ride-on type)
- Concrete Spreader (Hetzl, Rexomatic & similar types)
- Concrete Vibrator

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

**Effective Dates:**

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
56.97	39.15	96.12	98.62

**CLASSIFICATIONS:**

Conveyors - under 125 feet

Crane Signalman

Crushing Machine

Directional Boring Machine

Ditching Machine - Small (Ditchwitch, Vermeer or similar types)

Dope Pot - Mechanical (with or without pump)

Dumpster

Elevator

Fireman

Fork Lift (Economobile, Lull & similar types)

Front End Loader (1 cu. yd. and over but less than 2 cu. yds.)

Generator (2 or 3 battery)

Giraffe Grinder

Goldhofer/Hydraulic Jacking Trailer

Grader & Motor Patrols

Grout Pump

Gunnite Machine (Excluding nozzle)

Hammer - Vibratory (in conjunction with generator)

Heavy Equipment Robotics - Operator/Technician

Hoist (roof, tugger, aerial platform hoist, house car)

Hopper

Hopper Doors (power operated)

Ladder (motorized)

OPERATING ENGINEERS

Rates Expiration Date :

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
56.97	39.15	96.12	98.62

CLASSIFICATIONS:

- Laddervator
- Locomotive (Dinky-type)
- Maintenance Utility Man
- Master Environmental Maintenance Technician
- Mechanic
- Mixer (Except paving mixers)
- Pavement Breaker (truck-mounted or small self-propelled ride-on type)
- Pavement Breaker - maintenance of compressor or hydraulic unit
- Pipe Bending Machine (power)
- Pitch Pump
- Plaster Pump (regardless of size)
- Post Hole Digger (post pounder, auger)
- Rod Bending Machines
- Roller (black top)
- Scale (power)
- Seamen Pulverizing Mixer
- Shoulder Widener
- Silo
- Skimmer Machine (boom type)
- Steel Cutting Machine (service & maintenance)
- Tamrock Drill
- Tractor
- Transfer Machines

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

**Effective Dates:**

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
56.97	39.15	96.12	98.62

**CLASSIFICATIONS:**

Tug Captains

Tug Master (Power Boats)

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

Vacuum Blasting Machine - Operator/Maintenance Technician

Vibrating Plant (used with unloading)

Welder & Repair Mechanic

**Effective Dates:**

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
51.63	39.15	90.78	93.28

**CLASSIFICATIONS:**

Assistant Engineer/Oiler

Driller's Helper

Field Engineer - Transit man or Instrument man

Maintenance Apprentice (Deckhand)

Maintenance Apprentice (Oiler)

Mechanic's Helper

Off Road Back Dump

Tire Repair & Maintenance

**Effective Dates:**

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
49.05	39.15	88.20	90.70

**CLASSIFICATIONS:**

Field Engineer - Rodman or Chainman

OPERATING ENGINEERS

Rates Expiration Date :

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
59.21	39.15	98.36	100.86

CLASSIFICATIONS:

Lead Engineer, Foreman Engineer, Safety Engineer (minimum)



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

**Effective Dates:**

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
60.47	39.15	99.62	102.12

**CLASSIFICATIONS:**

Autograde Pavement Profiler (CMI & similar types)

Autograde Pavement Profiler - Recycle Type (CMI & similar types)

Autograde Placer/Trimmer/Spreader Combination (CMI & similar types)

Autograde Slipform Paver (CMI & similar types)

Backhoe (Excavator)

Central Power Plant

Concrete Paving Machine

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

Draglines

Drill, Bauer, AMI and similar types

Drillmaster, Quarrymaster

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

Elevator Grader

Field Engineer-Chief of Party

Front End Loader (5 cu. yards or larger)

Gradall

Grader, Rago

Helicopter Co-Pilot

Helicopter Communications Engineer

Juntann Pile Driver

Locomotive (large)

Mucking Machine

OPERATING ENGINEERS

Rates Expiration Date :

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
60.47	39.15	99.62	102.12

CLASSIFICATIONS:

- Pavement & Concrete Breaker (Superhammer & Hoe Ram)
- Pile Driver
- Prentice Truck
- Roadway Surface Grinder
- Scooper (loader & shovel)
- Shovel (Excavator)
- Trackhoe (Excavator)
- Tree Chopper with boom
- Trenching Machine (cable plow)
- Tunnel Boring Machine
- Vacuum Truck

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

**Effective Dates:**

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
55.34	39.15	94.49	96.99

**CLASSIFICATIONS:**

Chipper

Compressor (single)

Concrete Spreader (small type)

Conveyor Loader (Except elevator graders)

Engines, Large Diesel (1620 HP) & Staging Pump

Farm Tractor

Fertilizing Equipment (operation & maintenance)

Fine Grade Machine (small type)

Form Line Grader (small type)

Front End Loader (under 1 cubic yard)

Generator (single)

Grease, Gas, Fuel, & Oil Supply Trucks

Heaters (Nelson or other type)

Lights - portable generating light plant

Mixer, Concrete (small)

Mulching Equipment (operation & maintenance)

Power Broom or Sweeper

Pump (diesel engine & hydraulic - regardless of power)

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

Road Finishing Machine (small type)

Roller - grade, fill, or stone base

Seeding Equipment (operation & maintenance)

Sprinkler & Water Pump Trucks

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

**Effective Dates:**

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
55.34	39.15	94.49	96.99

**CLASSIFICATIONS:**

Steam Generator or Boiler

Stone Spreader

Tamping Machine (vibrating ride-on type)

Temporary Heating Plant (Nelson or other type, including  
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:**

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
62.29	39.15	101.44	103.94

**CLASSIFICATIONS:**

Helicopter Pilot/Engineer

**Effective Dates:**

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
66.97	39.15	106.12	108.62

**CLASSIFICATIONS:**

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

**Effective Dates:**

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
65.97	39.15	105.12	107.62

**CLASSIFICATIONS:**

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

OPERATING ENGINEERS

Rates Expiration Date :

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
62.47	39.15	101.62	104.12

CLASSIFICATIONS:

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

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
64.97	39.15	104.12	106.62

CLASSIFICATIONS:

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

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
61.47	39.15	100.62	103.12

CLASSIFICATIONS:

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

**STRUCTURAL STEEL ERECTION**      **Rates Expiration Date :**

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

The regular workday consists of 8 hours, Monday to Friday, between 6:00 AM and 5:30 PM.

**SHIFT DIFFERENTIALS:**

- Shift work must be established for 5 consecutive workdays.
- Any work started outside of the allowed start time, 6:00 AM to 9:00 AM, except for \* tidal work, shall be considered an irregular shift and paid at straight time, plus 15% for the first eight hours, inclusive of benefits.
- \* FOR TIDAL WORK- a contractor can start their job according to tide schedules (tide schedules are the various high and low tides related to this work), providing the eight hour shift is completed between the hours of 5:00 AM and 6:30 PM.
- All time worked in excess of an established shift (an established shift is a shift that is determined at the time of the bid) shall be paid at the applicable overtime rate. When a portion of an established shift works into Saturday, Sunday or a holiday, that time worked shall be paid at the established shift rate.
- When working with other trades who receive a higher irregular shift differential, these employees shall also receive the higher differential rate.

**OVERTIME:**

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

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

For projects bid after April 1, 2020, on hazardous waste removal work of any kind, including a state or federally designated site, where the operating engineer is required to wear level A, B, or C personal protection, the operating engineer shall receive an hourly wage rate of his regular hourly wage plus \$5.00 per hour.

- An operating engineer working at a hazardous waste removal project or site at a task requiring hazardous waste related certification, but who is not working in a zone requiring level A, B, or C personal protection, shall receive an hourly wage rate of his regular rate plus \$1.00 per hour.

**Effective Dates:**

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
64.10	39.15	103.25	105.75

**CLASSIFICATIONS:**

Helicopter Co-Pilot & Communications Engineer

STRUCTURAL STEEL ERECTION

Rates Expiration Date :

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
60.04	39.15	99.19	101.69

CLASSIFICATIONS:

- A-Frame
- Cherry Picker -10 tons or less (Over 10 tons use crane rate)
- Hoist (all types Except Chicago-boom)
- Jack (screw, air hydraulic, power-operated unit or console type, Except hand jack or pile load test type)
- Side Boom
- Straddle Carrier

STRUCTURAL STEEL ERECTION

Rates Expiration Date :

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
57.38	39.15	96.53	99.03

CLASSIFICATIONS:

- Aerial Platform Used On Hoists
- Apprentice Engineer/Oiler with Compressor or Welding Machine
- Captain (Power Boats)
- Compressor (2 or 3 in battery)
- Concrete Cleaning/Decontamination Machine Operator
- Conveyor or Tugger Hoist
- Directional Boring Machine
- Elevator or House Car
- Fireman
- Forklift
- Generator (2 or 3)
- Heavy Equipment Robotics, Operator/Technician
- Maintenance Utility Man
- Master Environmental Maintenance Technician
- Tug Master (Power Boats)
- Ultra High Pressure Waterjet Cutting Tool System Operator/Maintenance Technician
- Vacuum Blasting Machine Operator/Maintenance Technician
- Welding Machines, Gas or Electric Converters on any type-2 or 3 in battery including diesels



STRUCTURAL STEEL ERECTION

Rates Expiration Date :

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
55.85	39.15	95.00	97.50

CLASSIFICATIONS:

- Compressor (Single)
- Generators
- Welding Machines, Gas, Diesel, Or Electric Converters of any type-single
- Welding System, Multiple (Rectifier Transformer Type)

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
52.09	39.15	91.24	93.74

CLASSIFICATIONS:

- Assistant Engineer/Oiler
- Drillers Helper
- Field Engineer - Transit/Instrument Man
- Maintenance Apprentice (Deckhand)
- Maintenance Apprentice (Oiler)
- Off Road Back Dump

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
59.66	39.15	98.81	101.31

CLASSIFICATIONS:

- Lead Engineer, Foreman Engineer, Safety Engineer (Minimum)

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
49.05	39.15	88.20	90.70

CLASSIFICATIONS:

- Field Engineer - Rodman or Chainman

STRUCTURAL STEEL ERECTION

Rates Expiration Date :

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
60.80	39.15	99.95	102.45

CLASSIFICATIONS:

Field Engineer-Chief of Party

Vacuum Truck

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
68.99	39.15	108.14	110.64

CLASSIFICATIONS:

Cranes (all cranes, land or floating with booms, including jib, 140 ft. and over, above ground). Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, 140 ft. and over, above ground), and Pile Drivers (all types) 100 tons and over and Tower Cranes.

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
67.33	39.15	106.48	108.98

CLASSIFICATIONS:

Cranes (all cranes, land or floating with booms including jib, less than 140 ft. above ground), Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, less than 140 ft. above ground), Pile Drivers (all types), 100 tons and over and Tower Crane.

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
64.49	39.15	103.64	106.14

CLASSIFICATIONS:

Cranes (all cranes, land or floating with booms including jib, 140 ft. and over, above ground), Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, 140 ft. and over, above ground), Pile Drivers (all types), under 100 tons.

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
62.83	39.15	101.98	104.48

CLASSIFICATIONS:

Cranes (all cranes, land or floating with booms including jib, less than 140 ft. above ground), Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, less than 140 ft. above ground), Pile Drivers (all types), under 100 tons.

STRUCTURAL STEEL ERECTION

Rates Expiration Date :

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
64.49	39.15	103.64	106.14

CLASSIFICATIONS:

Helicopter Pilot & Engineer

**TEST BORING PRELIMINARY TO CONSTRUCTION-SOUTH/WEST**      **Rates Expiration Date :**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Hunterdon, Mercer, Monmouth, Ocean, Salem, Sussex, Warren

The regular workday consists of 8 hours, Monday to Friday, between 6:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must be established for 5 consecutive workdays.
- Any work started outside of the allowed start time, 6:00 AM to 9:00 AM, except for \* tidal work, shall be considered an irregular shift and paid at straight time, plus 15% for the first eight hours, inclusive of benefits.
- \* FOR TIDAL WORK- a contractor can start their job according to tide schedules (tide schedules are the various high and low tides related to this work), providing the eight hour shift is completed between the hours of 5:00 AM and 6:30 PM.
- All time worked in excess of an established shift (an established shift is a shift that is determined at the time of the bid) shall be paid at the applicable overtime rate. When a portion of an established shift works into Saturday, Sunday or a holiday, that time worked shall be paid at the established shift rate.
- When working with other trades who receive a higher irregular shift differential, these employees shall also receive the higher differential rate.

OVERTIME:

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

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

For projects bid after April 1, 2020, on hazardous waste removal work of any kind, including a state or federally designated site, where the operating engineer is required to wear level A, B, or C personal protection, the operating engineer shall receive an hourly wage rate of his regular hourly wage plus \$5.00 per hour.

- An operating engineer working at a hazardous waste removal project or site at a task requiring hazardous waste related certification, but who is not working in a zone requiring level A, B, or C personal protection, shall receive an hourly wage rate of his regular rate plus \$1.00 per hour.

**Effective Dates:**

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
60.47	39.15	99.62	102.12

**CLASSIFICATIONS:**

Driller

**Effective Dates:**

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
53.63	39.15	92.78	95.28

**CLASSIFICATIONS:**

Driller's Helper

**FREE AIR TUNNEL JOBS**     **Rates Expiration Date :**

{For apprentice rates refer to "Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

**SHIFT DIFFERENTIALS:**

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$3.00 per hour.

**OVERTIME:**

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

**RECOGNIZED HOLIDAYS:** New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

**Hazardous Waste Work:**

- where Level A, B, or C protection is required: + \$5.00/hr
- other Hazardous Waste site: + \$1.00/hr

**Traffic Control Coordinator:** When either of the work classifications found below are working as a Traffic Control Coordinator they are to receive \$.75 above their current rate of pay.

**Effective Dates:**

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
65.06	37.33	102.39	106.26	109.94

**CLASSIFICATIONS:**

Walking Boss & Superintendent

**Effective Dates:**

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
64.69	37.33	102.02	105.88	109.57

**CLASSIFICATIONS:**

Heading Foreman, Shaft Foreman, Rod Foreman, Electrician Foreman, Rigging Foreman

**TERRITORY**  
**ENTIRE STATE**

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

**FREE AIR TUNNEL JOBS**      **Rates Expiration Date :**

**Effective Dates:**

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
64.06	37.33	101.39	105.26	108.94

**CLASSIFICATIONS:**

Iron Foreman, Caulking Foreman, Form Foreman, Cement Finishing Foreman, Concrete Foreman, Track Foreman, Cleanup Foreman, Grout Foreman

**Effective Dates:**

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
67.19	37.33	104.52	108.38	112.07

**CLASSIFICATIONS:**

Blaster

**Effective Dates:**

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
63.38	37.33	100.71	104.57	108.26

**CLASSIFICATIONS:**

Top Labor Foreman

**Effective Dates:**

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
62.94	37.33	100.27	104.13	107.82

**CLASSIFICATIONS:**

Skilled Men (including Caulker, Powder Carrier, all other skilled men)

Skilled Men (including Miner, Drill Runner, Iron Man, Conveyor Man, Manitenance Man, Safety Miner, Rigger, Block Layer, Cement Finisher, Tod Man)

**Effective Dates:**

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
62.75	37.33	100.08	103.94	107.63

**CLASSIFICATIONS:**

Semi-Skilled Men (including Bell or Signal Man Top or Bottom, Form Worker & Mover, Concrete Worker, Shaft Man, Tunnel Laborer, Caulker's Helper, all other semi-skilled)

Semi-Skilled Men (including Miner's Helper, Chuck Tender, Track Man, Nipper, Brake Man, Derail Man, Cable Man, Hose Man, Gravel Man, Form Man)

FREE AIR TUNNEL JOBS

Rates Expiration Date :

Effective Dates:

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
62.25	37.33	99.58	103.44	107.13

CLASSIFICATIONS:

All Others (including Powder Watchman, Change House Attendant, Top Laborer)

DRILL FOR GROUND WATER SUPPLY

Rates Expiration Date :

The well driller and/or helper may perform all work relative to the construction, finishing, and servicing of wells, pumps and borings for ground water supply. The present methods of well drilling entailing as they do, many diverse job operations calling for drilling, pump discharge, piping, and the operation of various types of related power equipment, shall all be within the job duties and functions of the well driller and/or helper. In the event that an extension of work should occur beyond water well drilling functions, into the field of general construction work, such extension of work would come under the appropriate rates listed elsewhere in this wage determination.

- For Work Hours, Shift Differentials, Overtime Rates, and Recognized Holidays see the "Operating Engineers" section of this wage determination.

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
59.22	39.15	98.37	100.87

CLASSIFICATIONS:

Driller

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
52.38	39.15	91.53	94.03

CLASSIFICATIONS:

Driller's Helper



**OPERATING ENGINEERS MARINE-DREDGING**     **Rates Expiration Date :**

NOTE: These wage rates only apply to dredging and other marine construction activities occurring in navigable waters and their tributaries.

Boat crews carrying explosive material (dynamite, pourfex, and other similar materials) shall be paid at 120% of the hourly wage rate for hours engaged in handling of said materials. Employees required to possess a Hazardous Material Certification as a condition of employment shall be compensated at 120% of the hourly wage rate.

**OVERTIME:**

Hours in excess of 40 per week, and all hours on Saturdays and Sundays, shall be paid at time and one-half the hourly rate. All hours on holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Martin Luther King Day, Good Friday, Memorial Day, July 4th, Labor Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

**Effective Dates:**

**10/01/2023**

Rate	Fringe	Total
45.26	15.22	60.48

**CLASSIFICATIONS:**

Lead Dredgerman, Operator, Leverman

Licensed Tug Operator (over 1000 HP)

**Effective Dates:**

**10/01/2023**

Rate	Fringe	Total
39.14	14.79	53.93

**CLASSIFICATIONS:**

Derrick Operator, Spider/Spill Barge Operator

Engineer, Electrician, Chief Welder, Chief Mate

Fill Placer, Operator II

Licensed Boat Operator

Maintenance Engineer

**Effective Dates:**

**10/01/2023**

Rate	Fringe	Total
36.84	14.63	51.47

**CLASSIFICATIONS:**

Certified Welder

**OPERATING ENGINEERS MARINE-DREDGING**      **Rates Expiration Date :**

**Effective Dates:**

**10/01/2023**

Rate	Fringe	Total
35.83	14.31	50.14

**CLASSIFICATIONS:**

Mate, Drag Barge Operator, Steward, Assistant Fill Placer

Welder

**Effective Dates:**

**10/01/2023**

Rate	Fringe	Total
34.68	14.23	48.91

**CLASSIFICATIONS:**

Boat Operator

**Effective Dates:**

**10/01/2023**

Rate	Fringe	Total
28.81	13.82	42.63

**CLASSIFICATIONS:**

Shoreman, Deckhand, Rodman, Scowman

**Effective Dates:**

**10/01/2023**

Rate	Fringe	Total
40.33	14.87	55.20

**CLASSIFICATIONS:**

Crane Operator

**TERRITORY**  
**ENTIRE STATE**

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

**MICROSURFACING/SLURRY SEAL**     **Rates Expiration Date :**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Mercer, Ocean, Salem

\*\*\*IN ALL OTHER COUNTIES use the Heavy and General Laborers - North "Slurry Seal Laborer" rates.\*\*\*

**SHIFT DIFFERENTIALS:**

Any shift starting at 3:30 PM or later shall receive an additional \$0.35/hr

**OVERTIME:**

Hours in excess of 8 per day or 40 per week shall be paid at time and one-half the hourly rate. All hours on holidays shall be paid at double the hourly rate.

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

**Effective Dates:**

**03/01/2017**

Rate	Fringe	Total
36.50	21.27	57.77

**CLASSIFICATIONS:**

Foreman

**Effective Dates:**

**03/01/2017**

Rate	Fringe	Total
33.80	21.27	55.07

**CLASSIFICATIONS:**

Box man

**Effective Dates:**

**03/01/2017**

Rate	Fringe	Total
31.75	21.27	53.02

**CLASSIFICATIONS:**

Microsurface/Slurry Preparation

**Effective Dates:**

**03/01/2017**

Rate	Fringe	Total
31.75	21.27	53.02

**CLASSIFICATIONS:**

Squeegee man

TERRITORY  
ENTIRE STATE

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

MICROSURFACING/SLURRY SEAL      Rates Expiration Date :

Effective Dates:

03/01/2017

Rate	Fringe	Total
30.30	21.27	51.57

**CLASSIFICATIONS:**

Cleaner, Taper

ASPHALT LABORERS - SOUTH

Rates Expiration Date :

"THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY: Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Mercer, Ocean, Salem

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$3.00 per hour.

OVERTIME:

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

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$5.00/hr
- other Hazardous Waste site: + \$1.00/hr

FOR TIDE WORK (pertains to tidal water): A contractor can start their job according to tide schedules (tide schedules are the various high and low tides related to this work) providing the eight (8) hour shift is completed between the hours of 5:00 AM and 6:30 PM.

Effective Dates:

03/21/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
53.55	37.33	90.88	94.33	97.58

CLASSIFICATIONS:

Paving Foreman

Effective Dates:

03/21/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
50.10	37.33	87.43	90.88	94.13

CLASSIFICATIONS:

Head Raker

Effective Dates:

03/21/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
50.25	37.33	87.58	91.03	94.28

CLASSIFICATIONS:

Screedman

**ASPHALT LABORERS - SOUTH**      **Rates Expiration Date :**

**Effective Dates:**

03/21/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
49.70	37.33	87.03	90.48	93.73

**CLASSIFICATIONS:**

Tampers, Smoothers, Kettlemen,  
Painters, Shovelers, Roller Boys

**Effective Dates:**

03/21/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
49.80	37.33	87.13	90.58	93.83

**CLASSIFICATIONS:**

Milling Controller

**Effective Dates:**

03/21/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
50.00	37.33	87.33	90.78	94.03

**CLASSIFICATIONS:**

Traffic Control Coordinator

**Effective Dates:**

03/21/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
49.95	37.33	87.28	90.73	93.98

**CLASSIFICATIONS:**

Raker, Luteman

TEST BORING PRELIMINARY TO CONSTRUCTION-NORTH

Rates Expiration Date :

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:  
Bergen, Essex, Hudson, Middlesex, Morris, Passaic, Somerset, Union

SHIFT DIFFERENTIAL:  
Employees on a shift other than between the hours of 8:00 AM and 5:00 PM shall receive an additional \$2.00 per hour.

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

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

Hazardous Waste Pay (for Levels A, B, and C): an additional 15% of the hourly rate, per hour.

A newly hired Helper with no experience in the industry shall be paid as follows:  
1st year on the job - 70% of Helper wage rate  
2nd year on the job - 80% of Helper wage rate  
3rd year on the job - 90% of Helper wage rate  
All helpers receive full fringe benefit rate.  
Effective Dates:

12/01/2023

Rate	Fringe	Total
36.28	33.49	69.77

CLASSIFICATIONS:

Helper (4th year helper)

Effective Dates:

12/01/2023

Rate	Fringe	Total
46.25	33.49	79.74

CLASSIFICATIONS:

Driller

Effective Dates:

12/01/2023

Rate	Fringe	Total
52.66	33.49	86.15

CLASSIFICATIONS:

Foreman

HEAVY & GENERAL LABORERS - NORTH

Rates Expiration Date :

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:  
Bergen, Essex, Hudson, Hunterdon, Middlesex, Monmouth, Morris, Passaic, Somerset, Sussex, Union, Warren

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate .
- Shifts shall receive an additional \$3.00 per hour.

FOR TIDE WORK (pertains to tidal water): A contractor can start their job according to tide schedules (tide schedules are the various high and low tides related to this work) providing the eight (8) hour shift is completed between the hours of 5:00 AM and 6:30 PM.

OVERTIME:

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

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$5.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
49.30	37.33	86.63	90.08	93.33

CLASSIFICATIONS:

"D" Rate:

basic, landscape, asphalt, slurry seal, or railroad track laborer; utility meter installer; flagman; salamander tender; pitman; dumpman; rakers or tampers on cold patch work; wrappers or coaters of pipe; waterproofer; timberman; wagon drill or drill master helper; powder carrier; magazine tender; signal man; power buggy operator; tree cutter; operator of basic power tools

Effective Dates:

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
50.00	37.33	87.33	90.78	94.03

CLASSIFICATIONS:

"C" Rate:

pipe layer; laser man; conduit or duct line layer; operator of jack hammer, chipping hammer, pavement breaker, concrete cutter, asphalt cutter, sheet hammer, or walk-behind saw cutter; sandblaster; acetylene cutting or burning; wagon drill, directional drill, or hydraulic drill operator; drill master; core driller; asphalt raker or lute man



**HEAVY & GENERAL LABORERS - NORTH**

**Rates Expiration Date :**

**Effective Dates:**

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
50.25	37.33	87.58	91.03	94.28

**CLASSIFICATIONS:**

"B" Rate:

concrete finisher; setter of brick or stone pavers; stone cutter; form setter; manhole, catch basin, or inlet builder; asphalt screedman; rammer; hardscaping; gunite nozzle man

**Effective Dates:**

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
53.80	37.33	91.13	94.58	97.83

**CLASSIFICATIONS:**

"A" Rate:

blaster

**Effective Dates:**

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
53.55	37.33	90.88	94.33	97.58

**CLASSIFICATIONS:**

"FOREMAN" Rate:

labor foreman, asphalt foreman, drill foreman, pipe foreman, grade foreman, finisher foreman, concrete foreman

**Effective Dates:**

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
54.55	37.33	91.88	95.33	98.58

**CLASSIFICATIONS:**

"GENERAL FOREMAN" Rate

**Effective Dates:**

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
50.75	37.33	88.08	91.53	94.78

**CLASSIFICATIONS:**

TRAFFIC CONTROL COORDINATOR Rate

HEAVY & GENERAL LABORERS - SOUTH

Rates Expiration Date :

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:  
Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Mercer, Ocean, Salem

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

- SHIFT DIFFERENTIALS:
- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
  - When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
  - Shifts shall receive an additional \$3.00 per hour.

FOR TIDE WORK (pertains to tidal water): A contractor can start their job according to tide schedules (tide schedules are the various high and low tides related to this work) providing the eight (8) hour shift is completed between the hours of 5:00 AM and 6:30 PM.

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

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

- Hazardous Waste Work:
- where Level A, B, or C protection is required: + \$5.00/hr
  - other Hazardous Waste site: + \$1.00/hr
- Effective Dates:

03/21/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
49.30	37.33	86.63	90.08	93.33

- CLASSIFICATIONS:
- basic, landscape, or railroad track laborer; utility meter installer; flagman; salamander tender; pitman; dumpman; rakers or tampers on cold patch work; wrappers or coaters of pipe; waterproofers; tree cutter, timberman
- Effective Dates:

03/21/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
49.30	37.33	86.63	90.08	93.33

- CLASSIFICATIONS:
- wagon drill or drill master helper; powder carrier; magazine tender; signal man

HEAVY & GENERAL LABORERS - SOUTH

Rates Expiration Date :

Effective Dates:

03/21/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
50.00	37.33	87.33	90.78	94.03

CLASSIFICATIONS:

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:

03/21/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
50.00	37.33	87.33	90.78	94.03

CLASSIFICATIONS:

wagon or directional drill operator; drill master

Effective Dates:

03/21/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
53.80	37.33	91.13	94.58	97.83

CLASSIFICATIONS:

blaster

Effective Dates:

03/21/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
53.55	37.33	90.88	94.33	97.58

CLASSIFICATIONS:

labor foreman, drill foreman, pipe foreman, grade foreman, finisher foreman, concrete foreman

Effective Dates:

03/21/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
54.55	37.33	91.88	95.33	98.58

CLASSIFICATIONS:

general foreman

HEAVY & GENERAL LABORERS - SOUTH

Rates Expiration Date :

Effective Dates:

03/21/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
50.25	37.33	87.58	91.03	94.28

CLASSIFICATIONS:

concrete finisher; setter of brick or stone pavers; stone cutter; form setter; manhole, catch basin, or inlet builder; rammer; gunite nozzle man

**PIPELINE - MAINLINE TRANSMISSION**      **Rates Expiration Date :**

These rates apply to the following: welding on Transportation Mainline pipe lines (cross-country pipe lines, or any segments thereof, transporting coal, gas, oil, water or other transportable materials, vapors or liquids, including portions of such pipe lines within private property boundaries up to the final metering station or connection - the point where a valve, consumer connection, or town border station divides mainline transmission lines or higher pressure lateral and branch lines from lower pressure distribution systems).

**PER DIEM PAYMENT:**

In addition to the total wage rate paid for each craft, the following per diem (per day) amounts must also be paid - Pipeline Journeyman: \$80.50; Pipeline Journeyman Welder: \$140.50; and Pipeline Helper: \$64.50. Note: in order to receive the per diem payment an employee must work a minimum of 8 hours in a 24 hour period.

**NOTES:**

- Journeymen employed as "stringer bead" welders and journeymen who are regularly employed as "hot-pass" welders shall receive \$1.00 per hour more than other journeymen.
- Welders running "stringer bead" or "hot-pass" on "cutouts" or "tie-ins" on a production basis shall be paid \$1.00 per hour above the journeymen rate.
- Whenever a welder helper is employed using a power buffer or power grinder immediately behind the stringer bead and/or hot-pass welders, and the pipe gang is set on a production basis, the helper shall be paid \$2.00 per hour above the helper rate.
- If back welding is performed inside a pipe under either or both of the following conditions, the welder engaged in the welding will receive \$3.00 per hour above the regular rate for the job only for the days on which such back welding is performed:
  - The employer elects, as a regular procedure, to back weld each line-up. This condition is not intended to apply to occasional back welding performed by the pipe gang to repair a bead, to rectify a "high-lo" condition or wall thickness, etc.
  - A welder is required to back weld a completed weld behind the firing line.
- If the welder helper is required to go inside the pipe for the purpose of brushing, buffing and grinding the weld, they shall receive a wage rate \$1.00 per hour above the regular helper rate for the days involved.
- Welders working on "hot work" shall be paid \$2.00 per hour above the regular rate for each day engaged in such work. "Hot work" is defined as work on lines in service where there is the danger of fire or explosion.

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

**OVERTIME:**

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

**RECOGNIZED HOLIDAYS:** New Year's Day, July 4th, Labor Day, Thanksgiving Day, and Christmas Day. Sunday holidays observed the following Monday.

**Effective Dates:**

**06/13/2024**

Rate	Fringe	Total
57.34	35.90	93.24

**CLASSIFICATIONS:**

Pipeline Journeyman Welder

PIPELINE - MAINLINE TRANSMISSION

Rates Expiration Date :

Effective Dates:

06/13/2024

Rate	Fringe	Total
57.34	35.90	93.24

CLASSIFICATIONS:

Pipeline Journeyman

Effective Dates:

06/13/2024

Rate	Fringe	Total
33.84	25.02	58.86

CLASSIFICATIONS:

Pipeline Helper

**PIPELINE - GAS DISTRIBUTION**      **Rates Expiration Date :**

These rates apply to the following: welding on gas line distribution systems (that portion of the gas distribution system placed in streets, roads, subways, tunnels, viaducts, highways and easements which serves the users of gas).

**SHIFT DIFFERENTIALS:**

An "irregular" shift may start any time from 5:00 PM to 12:00 AM, Monday through Friday, and shall receive an additional 15% of the regular rate per hour, inclusive of benefits.

**OVERTIME:**

Hours in excess of forty per week, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

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

**Effective Dates:**

**11/01/2023**

Rate	Fringe	Total
64.70	31.84	96.54

**CLASSIFICATIONS:**

Pipeline Journeyman Welder

**Effective Dates:**

**11/01/2023**

Rate	Fringe	Total
64.70	31.84	96.54

**CLASSIFICATIONS:**

Pipeline Journeyman

**Effective Dates:**

**11/01/2023**

Rate	Fringe	Total
41.00	23.56	64.56

**CLASSIFICATIONS:**

Pipeline Helper

ASPHALT LABORERS- NORTH

Rates Expiration Date :

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:  
Bergen, Essex, Hudson, Hunterdon, Middlesex, Monmouth, Morris, Passaic, Somerset, Sussex, Union, Warren  
{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}  
The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$3.00 per hour.

OVERTIME:

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

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$5.00/hr
- other Hazardous Waste site: + \$1.00/hr

FOR TIDE WORK (pertains to tidal water): A contractor can start their job according to tide schedules (tide schedules are the various high and low tides related to this work) providing the eight (8) hour shift is completed between the hours of 5:00 AM and 6:30 PM.

Effective Dates:

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
53.55	37.33	90.88	94.33	97.58

CLASSIFICATIONS:

Asphalt Foreman

Effective Dates:

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
50.25	37.33	87.58	91.03	94.28

CLASSIFICATIONS:

Asphalt Screedman

Effective Dates:

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
50.00	37.33	87.33	90.78	94.03

CLASSIFICATIONS:

Asphalt Raker or Lute Man



ASPHALT LABORERS- NORTH

Rates Expiration Date :

Effective Dates:

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
49.30	37.33	86.63	90.08	93.33

CLASSIFICATIONS:

Asphalt Laborer

ELECTRICIAN- UTILITY WORK (NORTH)

Rates Expiration Date :

Electrician-Utility Work (North)  
(For apprentice rates refer to Electrician-Utility Work (North) in any county rate package).  
These rates apply to work contracted for by the following utility companies:  
Public Service Electric & Gas Co. of NJ, GPU Energy, Borough of Madison Electric Department, Sussex Rural Electric Cooperative, Rockland Utilities, and Butler Municipal Electric Co.  
These rates do not apply to work on substations or switching stations.  
For Utility work contracted for by a utility company other than those listed above or those listed under "Electrician-Utility Work (South), see the "Outside Commercial Rates" for the county in which the jobsite is located.

\* FOR OUTSIDE COMMERCIAL RATES PLEASE SEE COUNTY RATES

The regular workday is 8 hours, between 6:00 AM and 6:00 PM.  
FOR EMERGENCY WORK ONLY: (emergency work is defined as work caused by storm, catastrophe, act of god, and circumstances beyond the control of the employer)-all hours of work shall be paid at double the hourly rate.  
SHIFT DIFFERENTIALS:  
Shift work must run for a minimum of 5 consecutive workdays.  
2nd shift (between the hours of 4:30 PM and 1:00 AM): 8 hours of work + 17.3% of the regular rate, inclusive of benefits.  
3rd shift (between the hours of 12:30 AM and 9:00 AM): 8 hours of work + 31.4% of the regular rate per hour, inclusive of benefits.

OVERTIME:  
Hours in excess of 8 per day, or before or after the regular 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 6:00 AM and 6:00 PM, Monday through Thursday.

RECOGNIZED HOLIDAYS:  
New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day and Christmas Day, or day on which they are legally observed.

Effective Dates:

12/03/2023			12/01/2024
Rate	Fringe	Total	Total
62.94	43.42	106.36	109.56

CLASSIFICATIONS:

Chief Lineman

Effective Dates:

12/03/2023			12/01/2024
Rate	Fringe	Total	Total
59.38	40.97	100.35	103.36

CLASSIFICATIONS:

Journeyman Lineman

**ELECTRICIAN- UTILITY WORK (NORTH)**

**Rates Expiration Date :**

**Effective Dates:**

12/03/2023			12/01/2024
Rate	Fringe	Total	Total
59.38	40.97	100.35	103.36

**CLASSIFICATIONS:**

Special License Operator

**Effective Dates:**

12/03/2023			12/01/2024
Rate	Fringe	Total	Total
58.79	40.56	99.35	102.32

**CLASSIFICATIONS:**

Transit Man

**Effective Dates:**

12/03/2023			12/01/2024
Rate	Fringe	Total	Total
57.00	39.33	96.33	99.21

**CLASSIFICATIONS:**

Line Equipment Operator

**Effective Dates:**

12/03/2023			12/01/2024
Rate	Fringe	Total	Total
49.88	34.41	84.29	86.81

**CLASSIFICATIONS:**

Dynamite Man

**Effective Dates:**

12/03/2023			12/01/2024
Rate	Fringe	Total	Total
74.23	51.21	125.44	129.20

**CLASSIFICATIONS:**

General Foreman

**Effective Dates:**

12/03/2023			12/01/2024
Rate	Fringe	Total	Total
68.29	47.12	115.41	118.85

**CLASSIFICATIONS:**

Assistant General Foreman

ELECTRICIAN- UTILITY WORK (NORTH)

Rates Expiration Date :

Effective Dates:

12/03/2023			12/01/2024
Rate	Fringe	Total	Total
66.51	45.89	112.40	115.76

CLASSIFICATIONS:

Line Foreman

Effective Dates:

12/03/2023			12/01/2024
Rate	Fringe	Total	Total
48.10	33.18	81.28	83.72

CLASSIFICATIONS:

Street Light Mechanical Leader

Effective Dates:

12/03/2023			12/01/2024
Rate	Fringe	Total	Total
45.72	31.54	77.26	79.58

CLASSIFICATIONS:

Groundman Winch Operator

Effective Dates:

12/03/2023			12/01/2024
Rate	Fringe	Total	Total
45.72	31.54	77.26	79.58

CLASSIFICATIONS:

Groundman Truck Operator

Effective Dates:

12/03/2023			12/01/2024
Rate	Fringe	Total	Total
45.13	31.13	76.26	78.55

CLASSIFICATIONS:

Street Light Mechanic

Effective Dates:

12/03/2023			12/01/2024
Rate	Fringe	Total	Total
45.13	31.13	76.26	78.55

CLASSIFICATIONS:

Line Equipment Mechanic

ELECTRICIAN- UTILITY WORK (NORTH)

Rates Expiration Date :

Effective Dates:

12/03/2023			12/01/2024
Rate	Fringe	Total	Total
38.60	26.63	65.23	67.17

CLASSIFICATIONS:

Groundman 2nd Year

Effective Dates:

12/03/2023			12/01/2024
Rate	Fringe	Total	Total
35.63	24.58	60.21	62.02

CLASSIFICATIONS:

Groundman 1st Year

Effective Dates:

12/03/2023			12/01/2024
Rate	Fringe	Total	Total
58.79	40.56	99.35	102.32

CLASSIFICATIONS:

Line Equipment Foreman

**ELECTRICIAN- UTILITY WORK (SOUTH)**     **Rates Expiration Date :**

Electrician-Utility Work (South)

(For apprentice rates refer to Electrician-Utility Work (South) in any county rate package).

These rates apply to work contracted for by the following utility company:

Atlantic City Electric.

These rates do not apply to work on substations or switching stations.

For utility work contracted for by a utility company other than the one listed above or those listed under "Electrician-Utility Work (North)", see the "Outside Commercial Rates" for the county in which the jobsite is located.

\* FOR OUTSIDE COMMERCIAL RATES PLEASE SEE COUNTY RATES

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

FOR EMERGENCY WORK ONLY: (emergency work is defined as work caused by storm, catastrophe, act of god, and circumstances beyond the control of the employer)- all hours of work shall be paid at double the hourly rate.

**SHIFT DIFFERENTIALS:**

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

When two (2) or three (3) shifts are worked the following shall apply:

1st shift (between the hours of 8:00 AM and 4:30 PM)

2nd shift (between the hours of 4:30 PM and 12:30 AM): 8 hours of work + 10% of the regular rate of pay for 7.5 hours worked.

3rd shift (between the hours of 12:30 AM and 8:00 AM): 8 hours of work + 15% of the regular rate of pay for 7 hours worked.

**OVERTIME:**

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

Four 10-hour days may be worked, at straight time, between 6:00 AM and 6:00 PM, Monday through Thursday with Friday used as a make-up day.

**RECOGNIZED HOLIDAYS:**

New Year's Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day and Christmas Day or on days celebrated.

**WORKING RULES:**

There shall be a Foreman in charge of each work crew. No crews are to exceed twelve (12) men, including Foremen.

There shall be a General Foreman designated for transmission work when three (3) or more crews are on the same job and for distribution work where there are more than twenty (20) employees on site.

A small job crew shall consist of five (5) or less employees, one (1) of the Journeyman Linemen in the crew shall be designated as a Small Job Foreman.

Work performed from ladders and/or mechanical lift equipment shall be the work of Linemen and/or Apprentices.

On new construction, fitting and framing poles, towers or structures may be done by Journeymen and/or Apprentices. Groundmen may assist, but may not perform any work which would be performed by Linemen if assembled in the air.

There shall be a Journeyman Lineman in each pole setting, erection, grounding, wire and cable-pulling crew of more than three (3) men.

**Effective Dates:**

**12/03/2023**

Rate	Fringe	Total
69.38	57.15	126.53

**CLASSIFICATIONS:**

General Foreman

**ELECTRICIAN- UTILITY WORK (SOUTH)**      **Rates Expiration Date :**

**Effective Dates:**

**12/03/2023**

Rate	Fringe	Total
61.79	52.45	114.24

**CLASSIFICATIONS:**

Foreman

**Effective Dates:**

**12/03/2023**

Rate	Fringe	Total
58.54	50.46	109.00

**CLASSIFICATIONS:**

Small Job Foreman

**Effective Dates:**

**12/03/2023**

Rate	Fringe	Total
54.20	47.78	101.98

**CLASSIFICATIONS:**

Heavy Equipment Operator

**Effective Dates:**

**12/03/2023**

Rate	Fringe	Total
54.20	47.78	101.98

**CLASSIFICATIONS:**

Cable Splicer

**Effective Dates:**

**12/03/2023**

Rate	Fringe	Total
54.20	47.78	101.98

**CLASSIFICATIONS:**

Journeyman Lineman

**Effective Dates:**

**12/03/2023**

Rate	Fringe	Total
54.20	47.78	101.98

**CLASSIFICATIONS:**

Journeyman Welder

ELECTRICIAN- UTILITY WORK (SOUTH)

Rates Expiration Date :

Effective Dates:

12/03/2023

Rate	Fringe	Total
54.20	47.78	101.98

CLASSIFICATIONS:

Journeyman Painter

Effective Dates:

12/03/2023

Rate	Fringe	Total
43.36	41.09	84.45

CLASSIFICATIONS:

Light Equipment Operator

Effective Dates:

12/03/2023

Rate	Fringe	Total
37.94	37.71	75.65

CLASSIFICATIONS:

Groundman Truck Driver

Effective Dates:

12/03/2023

Rate	Fringe	Total
35.23	36.05	71.28

CLASSIFICATIONS:

Groundman 3rd Year

Effective Dates:

12/03/2023

Rate	Fringe	Total
32.52	34.37	66.89

CLASSIFICATIONS:

Groundman 2nd Year

Effective Dates:

12/03/2023

Rate	Fringe	Total
29.81	32.69	62.50

CLASSIFICATIONS:

Groundman 1st Year



TERRITORY  
ENTIRE STATE

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

ELECTRICIAN- UTILITY WORK (SOUTH)      Rates Expiration Date :

Effective Dates:

12/03/2023

Rate	Fringe	Total
23.85	29.03	52.88

**CLASSIFICATIONS:**

Flagman

**HEAVY & GENERAL LABORERS- NEW TRANS HUDSON TUNNELS**      **Rates Expiration Date :**

**\*\*THESE RATES APPLY TO CONSTRUCTION ON NEW TRANS HUDSON TUNNELS ONLY\*\***

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

**SHIFT DIFFERENTIALS:**

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$3.00 per hour.

**OVERTIME:**

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

**RECOGNIZED HOLIDAYS:** New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

**Hazardous Waste Work:**

- where Level A, B, or C protection is required: + \$5.00/hr
- other Hazardous Waste site: + \$1.00/hr

**Traffic Control Coordinator:** When either of the work classifications found below are working as a Traffic Control Coordinator they are to receive \$.75 above their current rate of pay.

**Effective Dates:**

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
78.08	37.33	115.41	119.68	123.81

**CLASSIFICATIONS:**

Walking Boss & Superintendent

**Effective Dates:**

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
77.63	37.33	114.96	119.23	123.36

**CLASSIFICATIONS:**

Heading Foreman, Shaft Foreman, Rod Foreman, Electrical Foreman, Rigging Foreman

**TERRITORY**  
**ENTIRE STATE**

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

**HEAVY & GENERAL LABORERS- NEW TRANS HUDSON TUNNELS**      **Rates Expiration Date :**

**Effective Dates:**

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
76.88	37.33	114.21	118.48	122.61

**CLASSIFICATIONS:**

Iron Foreman, Caulking Foreman, Form Foreman, Cement Finishing Foreman, Concrete Foreman, Track Foreman, Clean-up Foreman, Grout Foreman

**Effective Dates:**

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
80.63	37.33	117.96	122.23	126.36

**CLASSIFICATIONS:**

Blaster

**Effective Dates:**

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
76.05	37.33	113.38	117.66	121.78

**CLASSIFICATIONS:**

Top Labor Foreman

**Effective Dates:**

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
75.53	37.33	112.86	117.13	121.26

**CLASSIFICATIONS:**

Skilled Men (including Caulker, Powder Carrier, all other skilled men)

Skilled Men (including Miner, Drill Runner, Iron Man, Conveyor Man, Maintenance Man, Safety Miner, Rigger, Block Layer, Cement Finisher, Rod Man)

**Effective Dates:**

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
75.30	37.33	112.63	116.91	121.03

**CLASSIFICATIONS:**

Semi-Skilled Men (including Bell or Signal Man top or bottom, Form Worker & Mover, Concrete Worker, Shaft Man, Tunnel Laborer, Caulker's Helper, all other semi-skilled)

Semi-Skilled Men (including Miner's Helper, Chuck Tender, Track Man, Nipper, Brake Man, Derail Man, Cable Man, Hose Man, Gravel Man, Form Man)

HEAVY & GENERAL LABORERS- NEW TRANS HUDSON TUNNELS

Rates Expiration Date :

Effective Dates:

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
74.70	37.33	112.03	116.31	120.43

CLASSIFICATIONS:

All others (including Powder Watchman, Change House Attendant, Top Laborer, Job Steward)

# **TECHNICAL SPECIFICATIONS**

**SPECIAL PROVISIONS  
FOR  
STATE AID PROJECTS  
LOWER ROAD MINOR BRIDGE (Li-63) REPLACEMENT  
CITY OF LINDEN, UNION COUNTY**

**AUTHORIZATION OF CONTRACT**

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The contract for this project is authorized by the provisions of local public contracts law, NJSA 40A: 11-1 et seq.

**SPECIFICATIONS TO BE USED**

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The 2019 Standard Specifications for Road and Bridge Construction, of the New Jersey Department of Transportation (Department) and as amended herein, shall govern the construction of this project and the execution of the Contract.

**WAGE RATES**

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The contractor shall pay the minimum wage rates determined by the New Jersey Department of Labor.

State wage rates may be obtained from the New Jersey Department of Labor & Workforce Development (Telephone: 609-292-2259) or by accessing the Department of Labor & Workforce Development's website at:

[www.nj.gov/labor/wagehour/wagerate/prevailing\\_wage\\_determinations.html](http://www.nj.gov/labor/wagehour/wagerate/prevailing_wage_determinations.html)

The State wage rates in effect at the time of award will be made a part of this Contract, pursuant to Chapter 150 Laws of 1963 (NJSA 34:11-56.25, *et seq.*).

In the event it is found that any employee of the contractor or any subcontractor covered by the contract, has been paid a rate of wages less than the minimum wage required to be paid by the contract, the contracting agency may terminate the contractor's or subcontractor's right to proceed with the work, or such part of the work, as to which there has been a failure to pay required wages and to prosecute the work to completion or otherwise. The contractor and his sureties shall be liable to the contraction agency for any excess costs occasioned thereby.

**GENERAL**

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All awards shall be made subject to the approval of the New Jersey Department of Transportation. No construction shall start before approval of said award by the New Jersey Department of Transportation. Prior to the start of construction the contractor must submit a Material Questionnaire (SA-11) listing all sources of materials. Any materials used on the project from a non-approved New Jersey Department of Transportation source will be considered non-participating. The contractor is also notified that the District Office, Division of Local Aid and Economic Development must be notified of the construction commencement date at least three (3) calendar days prior to the start of construction.

Award of contract and subletting will not be permitted to, materials will not be permitted from, and use of equipment will not be permitted that is owned and/or operated by, firms and individuals included in the report of suspensions, debarments and disqualification of firms and individuals as maintained by the Department of the Treasury, General Services Administration, CN-039, Trenton NJ 08625 (609-292-5400).

Payment for a pay item in the proposal includes all the compensation that will be made for the work of that item as described in the contract documents unless the "measurement and payment" clause provides that certain work essential to that item will be paid for under another pay item.

Whenever any section, subsection, subpart or subheading is amended by such terms as changed to, deleted or added it is construed to mean that it amends that section, subsection, subpart or subheading of the 2019 Standard Specifications unless otherwise noted.

Whenever reference to page number is made, it is construed to refer to the 2019 Standard Specifications unless otherwise noted.

Henceforth in this supplementary specification whenever reference to the State, Department, ME, RE or Inspector is made, it is construed to mean the particular municipality or county executing this contract.

Whenever reference to Title 27 is made, it is construed to mean Title 40.

#### Soil Erosion and Sediment Control Plan Certification

The contractor is advised that a permit from the Somerset - Union Soil Conservation District has been obtained. Verify same prior to any ground disturbance on site.

The contractor shall provide a minimum of 72 hours notice to the Somerset - Union Soil Conservation District at (908) 526-2701, prior to the start of ground disturbance. This notice shall be immediately followed by a written notice to the Somerset - Union Soil Conservation District.

The contractor is advised that any deviation from the certified plans may require recertification from the Somerset - Union Soil Conservation District.

#### NJDEP Permit DLUR File No. 2009-05-0006.10 LUP190001

The contractor is advised that a permit from the New Jersey Department of Environmental Protection has been obtained, and a copy of same is included herein the appendix of these specifications.

The Contractor is required to review the enclosed permits and adhere to and comply with all the requirements indicated.

The Contractor, in entering into this contract with the County of Union, accepts full responsibility for any fines, penalties, work stoppages and permit revocations resulting from the Contractor's or subcontractor's failure to adhere to the requirements of the above listed permits.

The contractor shall provide a minimum of 72 hour notice to the New Jersey Department of Environmental Protection, prior to the start of ground disturbance. This notice shall be immediately followed by a written notice to the New Jersey Department of Environmental Protection.

The contractor is advised that any deviation from the certified plans may require recertification from the New Jersey Department of Environmental Protection.

The Contractor is required to secure any and all other permits, including but not limited to building permits, electrical permits and road opening permits, that may be necessary to perform the work and complete the improvements for this project.

The contractor shall schedule his construction operations such that no work associated with the above items is started or scheduled to be started until he has been informed by the Engineer that the necessary permits and approvals have been received.

#### Existing Utilities

The contractor shall coordinate all work with the utility companies in the areas of construction. Information regarding existing utilities has been collected from various sources and the contractor is advised that underground object locations, elevations, or types are not warranted to be approximately correct, nor can they be assumed to be the only subsurface objects, proposed or existing, which may be encountered during the excavation of the work. The contractor shall make all necessary investigations prior to bidding to satisfy themselves as to the existing conditions. The contractor is responsible to

coordinate the relocation of utilities with the appropriate utility companies to ensure completion of the project within the time permitted.

The contractor is specifically directed to Section 105.07.02 – Work Performed by Utilities for the specific requirements and schedules related to utility relocation.

The contractor will be given a maximum of ten (10) calendar days from the execution of the Contract by the Board of Chosen Freeholder to notify, in writing (Certified Mail, Return Receipt), the utility owners of the nature and scope of the project, and of its operations that may affect their facilities or property. The notifications shall request a schedule for the relocation of their facilities. Two (2) copies of such notices shall be sent to the Engineer. The contractor shall repeat the notification on a weekly basis until a response is received.

The contractor shall request utility markouts in accordance with the Underground Facility Protection Act (NJSA 48:2-73 to 91) prior to commencing the work and as necessary during the performance of the project.

#### Notice to Owner and Residents

The contractor shall provide a minimum of two (2) weeks notice to the Owner, City Police Department, residents and businesses prior to the start of construction and prior to the changing or affecting existing traffic patterns and property access.

The contractor is specifically directed to Section 159 – Traffic Control for the specific requirements relating to weekend, holiday, and nighttime operations along with the requirements for business coordination and business access. The contractor is directed that no driveways or parking lots shall be subject to close without the approval of the Engineer and a minimum 48-hour notice to the affected resident/business and the Engineer.

The contractor shall coordinate the notification process with the City of Linden. The notification process shall conform to the requirements of the City and at a minimum shall detail the hours of construction, the parking prohibitions, the alternate parking areas, garbage and recycling pickup, the duration of the construction, and the limits of construction. Coordinate and utilize variable message signs and the automated messaging systems controlled by the City of Linden.

#### Contractor's Progress Schedule

The Contractor shall submit a proposed program of operation for the project prior to commencement of construction which clearly indicates how it proposes to conduct the work to bring about the completion of the project within the time allotted.

The Contractor is specifically directed to all conditions contained in the NJDEP Permit #2009-05-0006.10 LUP190001, attached in the Appendix.

The Contractor shall consider the above when preparing their bid. Under no circumstances will additional payment be considered for the use of traffic control devices in excess of those provided for in the contract documents.

#### Permits

The Contractor shall be responsible for obtaining all permits necessary for construction in accordance with Local, County or State regulations or any other agencies having jurisdiction in these matters.

The Contractor is advised that they are responsible to pay for, acquire and comply with any road opening permits if required in conjunction with the proposed improvements.

The Contractor is responsible for complying with the conditions set forth in the NJDEP #2009-05-0006.10 LUP190001 (see attached in the Appendix), with an expiration date of February 24, 2025.

#### Protection of Property

The contractor shall take reasonable care and caution to preserve and protect all existing pavements, curbs, grass areas, sidewalks, private and public property along and adjacent to the limits of work. Any destruction of any of the above, beyond the limits of work, or caused by careless construction procedures, shall be replaced at the Contractor's own expense.

#### Trees and Shrubs

Only trim or remove trees and shrubs as shown on the plans or as directed by the Engineer. Replace any destruction of existing trees, shrubs, or other plantings at the Contractor's own expense.



#### Property Acquisitions

The Contractor is advised that temporary and permanent easements are required for this project. Accordingly, the contractor shall verify that all disturbances beyond the roadway right-of-way are limited to what is indicated on the plans.

Bidders are advised that the County is in the process of obtaining easement acquisition for this project. Prior to working in areas that require easement acquisition, the Contractor shall verify with the County Engineer that the same has been obtained.

#### Scope of Allowance for Work Not Specified Item

The Contractor shall make allowances in their bid for any modifications or additions associated with construction of the Project including any material, services or appurtenances not specifically described in the specifications but as required to satisfactorily complete the Project. All work must be ordered by the Engineer to qualify for payment. These items are intended to be utilized to compensate the contractor for any unknown areas of the work.

The Contractor will be paid from the allowances based on a mutually agreeable price between the Contractor and the Engineer prior to commencing work not specified as ordered by the Engineer in writing.

The Contractor shall allow the following allowances for these items to cover the work. Nothing herein shall constitute a guarantee that the Contractor is entitled to payment of the full allowance. If no work is done under these items, the full amount shall not be paid by the Owner to the Contractor. To qualify for payment, work must be ordered by the Engineer in writing.

#### High Voltage Proximity Act

**The contractor is advised that all work associated with the project shall comply with the High Voltage Proximity Act. The contractor shall select means and methods, as well as materials, necessary to avoid conflicts with existing overhead utilities and shall be in conformance with the High Voltage Proximity Act.**

#### Working Drawings

The Contractor is required to submit working drawings, as specified in Section 105.05, for approval or certification.

## **DIVISION 100 – GENERAL PROVISIONS**

### **SECTION 101 – GENERAL INFORMATION**

#### **101.01 INTRODUCTION.**

THE FOLLOWING IS ADDED:

Whenever any section, subsection, subpart or subheading is amended by such terms as changed to, deleted or added, it is construed to mean that it amends that section, subsection, subpart or subheading of the NJDOT 2019 Standard Specifications for Road and Bridge Construction and as amended.

Whenever any reference to page number is made, it is construed to refer to the NJDOT 2019 Standard Specifications for Road and Bridge Construction.

#### **101.02 ABBREVIATIONS**

THE FOLLOWING ABBREVIATIONS ARE ADDED:

ADA	Americans with Disabilities Act
CFR	Code of Federal Regulations
CUF	Commercially Useful Function
DCR/AA	New Jersey Department of Transportation, Division of Civil Rights and Affirmative Action
EEO	Equal Employment Opportunity
GFE	Good Faith Effort
OJT	On-The-Job-Training
USC	United States Code
USDOL	United States Department of Labor

#### **101.03 TERMS.**

THE FOLLOWING IS ADDED TO THE FIRST SENTENCE OF THIS SECTION:

It is the intent of these amendments to the terms to change all reference to the State of New Jersey (and various Departments and offices thereof) to the County of Union except in those circumstances where the State has jurisdiction.

THE FOLLOWING TERMS ARE CHANGED.

#### **Completion.**

(3) IS CHANGED TO:

3. the Contractor has satisfactorily executed and delivered to the RE all documents, including federal form FHWA47 “Contractor’s Statement of Materials and Labor” according to 23CFR 635, certifications, and proofs of compliance required by the Contract Documents, it being understood that the satisfactory execution and delivery of documents, certificates, and proofs of compliance is a requirement of the Contract.

**Contract Time.** The number of days allowed to complete the work for a milestone or the number of working days allowed to complete the work for a milestone, or the date by which work must be completed, as provided in the Contract and as modified by Change Order. When Interim Completion and Completion requirements are specified as a specific date instead of the number of days or working days, achieve Interim Completion or Completion on or before that date. See Page 10 for allowable Contract Time.

**Holiday.** A legal holiday as recognized by the County of Union.

**Pavement Structure.** The combination of pavement, base courses, and when specified, a subbase course, placed on a subgrade to support the traffic load and distribute it to the roadbed (see Figure 101-1). These various courses are defined as follows:

1. **Pavement.** One or more layers of specified material of designed thickness at the top of the pavement structure.

2. **Base course.** One or more layers of specified material of designed thickness placed on the subgrade or subbase.
3. **Subbase.** One or more layers of specified material of designed thickness placed on the subgrade.

**Plans.**

THE SECOND SENTENCE IS CHANGED TO:

This includes the latest version of the Standard Details in effect at the time of advertisement.

**Project Limits.**

The areas of construction operations and areas used by the Contractor to perform the work. If only a portion of a lane or shoulder of a road is being constructed, the Project Limits include all lanes and shoulders of the roadway. Where only one direction of a road is being constructed, and the road is divided by a median, island, or barrier curb, the Project Limits include all of the lanes in that direction and the median. Otherwise, the Project Limits include all lanes in both directions.

The longitudinal Project Limits include all safety devices and signs excluding signs greater than 1600 feet outside the Project Limits.

Areas within the R.O.W. provided for Contractor's use.

THE FOLLOWING TERMS ARE ADDED:

**Notice to proceed.** Form submitted by Owner authorizing Contractor to proceed with the Work under the Contract.

**101.04 INQUIRIES REGARDING THE PROJECT.**

Submit inquiries regarding discrepancies, errors, or omissions, or concerns regarding the intent or meaning of the Contract to the Owner as follows:

1. Before Award of Contract: Submit inquiries by e-mail or by separate letter directly to the County Engineer, Thomas Mineo, Union County Department of Engineering, Public Works & Facilities, 2325 South Avenue, Scotch Plains, NJ 07076, (908) 789-3675, [tmineo@ucnj.org](mailto:tmineo@ucnj.org).

Include the following in each inquiry:

1. Name of bidder.
2. Telephone Number, fax number, e-mail address, and contact person.
3. Specifics of the inquiry, including anticipated results.

The County will investigate the information provided in the inquiry and, if the County determines that a change or response is necessary, the County will issue an addendum. Requests for postponement of bids will not receive a response. The County will issue an addendum postponing bids if warranted.

2. **After Award of Contract.** Submit inquiries to the County representative identified at the preconstruction meeting with a copy to the County Engineer.

## **SECTION 102 - BIDDING REQUIREMENTS AND CONDITIONS**

### **102.01 QUALIFICATION TO BID**

THE ENTIRE TEXT OF THIS SUBSECTION IS DELETED.

### **102.02 BIDDER REGISTRATION AND DOWNLOADING OF THE PROPOSAL DOCUMENTS**

THE ENTIRE TEXT OF THIS SUBSECTION IS DELETED.

### **102.3 REVISIONS BEFORE SUBMITTING A BID**

THE ENTIRE TEXT OF THIS SUBSECTION IS DELETED.

### **102.4 EXAMINATION OF CONTRACT AND PROJECT LIMITS**

#### **1. Evaluation of Subsurface and Surface Conditions.**

THE FIRST PARAGRAPH IS CHANGED TO:

The Bidder may inspect the records of the County's subsurface investigation, if available. This investigation is not a substitute for the Bidder's own evaluation or judgment in preparing a bid. The Bidder should not rely on any estimates or quantities included in these investigations. The conditions indicated by such investigations or records thereof, and as shown by the cross-sections in the Plans may not be representative of those existing throughout such areas. The Bidder may encounter materials other than, or in proportions different from, those indicated.

#### **2. Utility Agreements.**

THE ENTIRE TEXT IS CHANGED TO:

In addition to what is specified in 105.07, the Bidder may inspect or request, if available, the Utility agreements, modifications, and orders relating to the Contract. The Bidder shall obtain information regarding existing utilities, proposed construction of utilities, or relocation of utilities through the respective Utility.

#### **3. Existing Plans and As-Built.**

THE ENTIRE TEXT IS CHANGED TO:

The Bidder may inspect as-built plans, if available, of County owned facilities upon written request. The Bidder shall obtain plans of Municipality owned facilities through the Municipality. The Bidder shall verify information obtained from the existing documents with respect to its application to bidding and performing the Contract.

### **102.07 PREPARATION OF THE BID**

THE TEXT OF THE FIRST, THIRD, FOURTH AND FIFTH PARAGRAPHS IS DELETED.

### **102.9 PROPOSAL BOND**

THE ENTIRE TEXT OF THIS SUBSECTION IS DELETED.

### **102.10 SUBMISSION OF BIDS**

THE ENTIRE TEXT OF THIS SUBSECTION IS DELETED.

### **102.11 WITHDRAWAL OF BIDS**

THE ENTIRE TEXT OF THIS SUBSECTION IS DELETED.

### **102.16 REJECTION OF ALL BIDS**

THE ENTIRE TEXT OF THIS SUBSECTION IS DELETED.

## **SECTION 103 - AWARD AND EXECUTION OF CONTRACT**

### **103.01 AWARD OF CONTRACT**

THE ENTIRE TEXT OF THIS SUBSECTION IS DELETED.

### **103.02 CANCELLATION OF AWARD**

THE ENTIRE TEXT OF THIS SUBSECTION IS DELETED.

### **103.03 RELEASE OF PROPOSAL BOND**

THE ENTIRE TEXT OF THIS SUBSECTION IS DELETED.

### **103.04 EXECUTION OF THE CONTRACT**

THE ENTIRE TEXT OF THIS SUBSECTION IS DELETED.

### **103.05 ESCROW OF BID DOCUMENTS**

THE ENTIRE TEXT OF THIS SUBSECTION IS DELETED.

### **103.06 FAILURE TO EXECUTE CONTRACT**

THE ENTIRE TEXT OF THIS SUBSECTION IS DELETED.

### **103.07 ACQUISITION OF DOCUMENTS**

THE ENTIRE TEXT OF THIS SUBSECTION IS DELETED.

## **SECTION 104 – SCOPE OF WORK**

### **104.02 VALUE ENGINEERING**

THE ENTIRE TEXT OF THIS SUBSECTION IS DELETED.

### **104.03 CHANGES TO THE CONTRACT**

#### **104.03.01 Authority To Make Changes**

##### **2. Change Orders**

THE SECOND AND THIRD PARAGRAPHS ARE DELETED.

#### **104.03.03 Types Of Changes**

##### **1. Quantity Increases and Decreases**

THE FIFTH PARAGRAPH IS DELETED.

#### **104.03.04 Contractual Notice**

THE SECOND PARAGRAPH IS CHANGED TO:

Immediately provide written notice to the RE of a circumstance that is believed to be a change to the Contract.

Include the following in the initial written notice:

1. A statement that this is a notice of a change.
2. The date when the circumstances believed to be a change were discovered.
3. A detailed and specific statement describing the nature and circumstances of the change.
4. If the change will or could affect costs to the Department.
5. If the change will or could affect Contract Time as specified in 108.11.01.C

In addition to the hard copy of the notice, email the notice to the RE. It is not necessary to attach listed documents to the email.

## **SECTION 105 – CONTROL OF WORK**

### **105.01 AUTHORITY OF THE DEPARTMENT**

#### **105.01.01 RE**

ITEM 1 OF THE SECOND PARAGRAPH IS DELETED.

### **105.02 RESPONSIBILITIES OF THE CONTRACTOR**

#### **105.02.02 Superintendent**

THE FOLLOWING IS ADDED:

The Superintendent shall not be removed from the work or replaced without acceptance by the RE of a satisfactory replacement as Superintendent.

### **105.04 PLANS AND SPECIFICATIONS**

THE FOLLOWING IS ADDED:

Field conditions may require modifications in the plans and quantities of work involved. Work under all pay items must be carried out to meet field conditions to the satisfaction of the RE.

### **105.05 WORKING DRAWINGS**

ALL REFERENCES TO 22" X 36" SHEETS ARE REVISED TO 24" X 36" SHEETS.

THE SECOND PARAGRAPH IS CHANGED TO:

Ensure that working drawing submissions also conform to the NJDOT design manuals and other NJDOT standards for the proposed work. Ensure that working drawings are signed and sealed by a Professional Engineer.

THE SECOND SENTENCE OF THE THIRD PARAGRAPH IS CHANGED TO:

Submit 5 copies of working drawings to the Engineer for review. Provide additional copies for Contractor's use depending on the number of sets to be retained by the Engineer.

THE LAST SENTENCE OF THE SEVENTH PARAGRAPH IS CHANGED TO:

The RE's notations of "No Exception Taken" or "Approved as Noted," does not constitute an approval of any materials noted.

THE EIGHTH PARAGRAPH IS CHANGED TO:

The RE's notations of "No Exception Taken" or "Approved as Noted," on working drawings signifies only that the drawings are in general conformance with the contract. These notations do not relieve the Contractor from responsibility for errors and omissions in the working drawings and their correction.

THE NINTH PARAGRAPH IS CHANGED TO:

Submit working drawings as specified in Table 105.05-1. This list is not all inclusive.

#### **TABLE 105.05-1:**

REVISE THE HEADING OF TABLE 105.05-1 TO WORKING DRAWING SUBMISSIONS.

DELETE THE HEADINGS “CERTIFIED” AND “APPROVED.”

ADD THE FOLLOWING:

Concrete Mix Designs

THE TENTH, ELEVENTH, TWELFTH AND THIRTEENTH PARAGRAPHS ARE CHANGED TO:

The following is a list of additional working drawings required for this project:

- . Cofferdam
- . Reinforcing Steel, Galvanized
- . All Concrete Reinforcing Steel Placement, including, but not limited to, the following: footings, abutments, wingwalls, parapets, barriers, decks, approach slabs, sidewalks, prestressed concrete box beams and diaphragms.

Each working drawing submitted shall have a unique submission number assigned to it and clearly indicated on each sheet of the working drawings. For working drawings submitted on 24”x 36” sheets, each working drawing sheet shall include a blank space a minimum of 5” in height and 3-1/2” in width for the RE’s review stamp. For working drawings submitted on 8 ½” x 11” sheets (except design calculations), include a blank space a minimum of 5” in height and 3 ½” in width for the RE’s review stamp on the cover sheet.

The RE will require 7 days for review of each submission. The review time shall commence running on the day that the submission is received, except that for any submission received after 12:00 Noon, the review time shall commence running on the following day.

Upon receipt of each submission, the RE will review the submission for conformance with the Contract. The RE may take no exception to the submission, approve the submission as noted with no resubmission required, approve the submission as noted with resubmission required or reject the submission. The RE will sign and stamp the submission as follows:

“No Exception Taken”  
“Approved as Noted”  
“Note Exception and Confirm in Writing”  
“Revise and Resubmit”  
“Rejected See Remarks”

For submissions that are stamped “No Exception Taken”, the RE will retain three (3) sets for record purposes and return the remaining sets to the Contractor. No resubmission is required and the Contractor may proceed with ordering the materials which are the subject of the submission.

For submissions that are stamped “Approved as Noted,” the RE will retain three (3) sets for record purposes and return the remaining sets to the Contractor. No resubmission is required. However, incorporate all comments in the production of the materials which are the subject of the submission. This does not relieve the Contractor of the responsibility for assuring that all comments are incorporated into the final product. If inspection reveals that the comments have not been incorporated into the final product, the work will be considered non-conforming.

Do not deviate from the working drawings stamped “No Exception Taken” or “Approved as Noted,” without obtaining prior written approval from the RE.

Furnish subcontractors and other contractors with accepted working drawings as required.



## **105.07 COOPERATION WITH UTILITIES**

### **105.07.01 Working in the Vicinity of Utilities**

#### **A. Initial Notice**

THE FIRST SENTENCE IS CHANGED TO:

Provide preliminary notice, in writing, to the utilities four (4) weeks before it is anticipated construction operations will commence. This notice may have to be provided in advance of any preconstruction meeting for the project. Follow up with subsequent written notice one (1) week before construction operations will commence. Provide copies of all correspondence to the County.

### **105.07.02 Work Performed by Utilities**

THE FOLLOWING IS ADDED:

The following is a list of the work to be performed by each utility on the project and the estimated durations for performing this work:

#### **(Lower Road):**

##### New Jersey American Water

All test pits and temporary relocations, if needed, shall be performed by New Jersey American Water at no cost to the County.

##### Enbridge, Buckeye, Elizabethtown Gas, Phillips 66, IMTT Pipeline (Gas)

All test pits and temporary relocations, if needed, shall be performed by the various utility companies at no cost to the County.

##### Public Service Electric & Gas Company (Electric)

All test pits and temporary relocations, if needed, shall be performed by Public Service Electric & Gas Company at no cost to the County.

##### Verizon Communications

All test pits and temporary relocations, if needed, shall be performed by Verizon Communications at no cost to the County.

Bidders are advised to verify the above information as its accuracy and completeness is not guaranteed by the department. The contractor shall contact the New Jersey one call system at least three (3) full days before digging or completing any other work which may impact the utilities.

When the removal, relocation, de-energization or replacement of utility structures or facilities is deemed non-essential by the RE for carrying out the project, but is performed for the Contractor's convenience, the cost of such work shall be entirely the responsibility of the Contractor. Coordinate construction activities with those of the utility companies involved in the relocation or maintenance of existing or proposed utility facilities. Notify the RE, in writing, whenever it becomes apparent that completion of the project will be delayed because of delays in relocating, de-energizing, etc. of the existing utilities. In the absence of such notification, delays in the completion of work caused by the utilities will be solely the responsibility of the Contractor and liquidated damages will be assessed as elsewhere specified herein.

Valve box covers, which are either indicated on the construction plans or which are discovered during construction, shall be reset or relocated by the Contractor to the correct proposed elevation. All costs for this work shall be included in the lump sum price bid for all items requiring same as listed in the bid form.

It shall be the responsibility of the contractor to arrange for all utility work essential for the completion of the project and to coordinate the work carried out by the public utilities with his own work. The contractor shall cooperate with the utility company in the removal, relocation and replacement of utilities. Locations of relocated utilities shall be verified

with the respective utility companies. Wherever underground utilities are encountered, the contractor shall take special precautions to prevent breakage and interruption of service.

No separate payment will be made for coordination with the utility companies and all costs thereof shall be included in the bid prices for the various items in this contract.

The contractor shall notify the all utility agencies at least one (1) week prior digging the test pits.

*Contacts:*

Enbridge - Gas

Andrew Meyer (973) 644-2640  
45 Airport Road  
Morristown, NJ 07960

Buckeye – Gas

Anthony Joyner (908) 374-5320  
2650 Marshes Dock Road  
Linden, NJ 07036

Elizabethtown Gas

Greg Balint (908) 662-8321  
520 Green Lane  
Union, NJ 07083

Phillips 66 – Gas

William Eskuchen (908) 523-5576  
1400 South Park Avenue  
Linden, NJ 08863

IMTT Pipeline – Gas

Robert Mieczkowski (201) 823-5334  
250 East 22<sup>nd</sup> Street  
Bayonne, NJ 07002

NJ American Water Company

Rafael Brizuela (908) 791-3449  
1341 North Avenue  
Plainfield, NJ 07061

PSE&G – Electric

Michele Stiles (732) 764-3161  
472 Weston Canal Road (Electric)  
Somerset, NJ 08873

Verizon – Telephone/Communications

Ian Chan (732) 683-5146  
999 W. Main Street  
Freehold, NJ 07728

Sewer & Storm Sewer

Steven Brodman (908) 474-8475  
City of Linden Engineering Department  
301 North Wood Avenue  
Room 208, 3<sup>rd</sup> Floor  
Linden, NJ 07036

**105.10 USE OF EXPLOSIVES**

THE ENTIRE TEXT OF THIS SUBSECTION IS DELETED. EXPLOSIVES WILL NOT BE PERMITTED ON THIS PROJECT.

## **SECTION 106 – CONTROL OF MATERIAL**

### **106.01 SOURCE OF SUPPLY AND QUALITY REQUIREMENTS**

THE FOLLOWING IS ADDED:

Do not purchase or permit any subcontractor to purchase materials or supplies for the work which are subject to any chattel mortgage or under a conditional sale or other agreement by which an interest is retained by the seller. The Contractor warrants that he has good title to all materials and supplies used by him in the work.

Nothing in these Special Provisions or in the Contract shall be considered as vesting in the Contractor any right or property in the materials used after they shall have been attached or affixed to the work or the soil, but all such materials shall upon being so attached or affixed become the property of the Owner.

Use only products and supplies listed on the QPL.

### **106.02 DEPARTMENT-FURNISHED MATERIAL**

THE ENTIRE SUBSECTION TEXT IS DELETED.

### **106.05 MATERIALS, INSPECTIONS, TESTS, AND SAMPLES**

THE THIRD PARAGRAPH IS DELETED.

### **106.07 CERTIFICATION OF COMPLIANCE**

THE FOLLOWING IS ADDED:

If the RE orders sampling and analysis or tests of materials which are usually accepted on certification of the manufacturer but which appear defective or not conforming to the requirements of the Specifications, the County shall bear the reasonable costs of sampling, transportation, testing, and analysis of the material if it is found to be sound and in conformance with the Specifications. Otherwise, the Contractor shall bear all such costs if the material is found to be defective or not in conformance with the Specifications.

## **SECTION 107 – LEGAL RELATIONS**

### **107.01 LEGAL JURISDICTION**

#### **107.01.02 Permits, Licenses, and Approvals**

THE FOLLOWING IS ADDED:

Obtain the approval and acceptance of work that is to meet the requirements of persons, municipalities or bodies other than the County.

Apply for a permit to use water from hydrants or other outlets, and the use of water shall be subject to the charges, rules, and regulations of the Utility Owner.

#### **107.01.03 Sovereign Immunity**

THIS ENTIRE SUBSECTION TEXT IS DELETED. HOWEVER, THE DELETION OF THIS SUBSECTION IS NOT TO BE CONSTRUED AS ANY WAIVER OF THE COUNTY’S RIGHTS TO SOVEREIGN IMMUNITY.

#### **107.03 AFFIRMATIVE ACTION, DISADVANTAGED BUSINESS ENTERPRISES, OR EMERGING SMALL BUSINESS ENTERPRISE**

THE ENTIRE TEXT OF THIS SUBSECTION IS DELETED.

#### **107.04 NEW JERSEY CONTRACTUAL LIABILITY ACT**

THE ENTIRE TEXT OF THIS SUBSECTION IS DELETED.

#### **107.05 LIMITATION OF LIABILITY**

THE ENTIRE TEXT OF THIS SUBSECTION IS DELETED.

#### **107.06 PERSONAL LIABILITY OF PUBLIC OFFICIALS**

THE ENTIRE TEXT OF THIS SUBSECTION IS DELETED.

#### **107.09 INDEPENDENT CONTRACTOR**

THE SECOND SENTENCE IS CHANGED TO:

It shall neither hold itself out as, nor claim to be, an officer or employee of the Department by reason hereof.

#### **107.10 NON-THIRD PARTY BENEFICIARY CLAUSE**

THE ENTIRE TEXT OF THIS SUBSECTION IS DELETED.

#### **107.11 RISKS ASSUMED BY THE CONTRACTOR**

##### **Risks of Loss or Damage to the Construction.**

THE FOLLOWING IS ADDED:

Except as provided otherwise herein, the liability of the Contractor hereunder for all injuries or damages to persons or to property is absolute and is not dependent upon any question or negligence on his part or on the part of his agents, servants or employees, and neither the approval of the RE of the methods of doing the work nor the failure of the RE to call attention to improper or inadequate methods or to require a change in methods, nor the neglect of the RE to direct the Contractor to take any particular precautions or to refrain from doing any particular task, shall excuse the Contractor in case of any such injury to persons or damages to persons or property.

The whole, or so much of the monies due under and by virtue of the Contract, as shall be considered necessary by the Owner may, at its option, be retained by the Owner until all suits or claims or demands for damages shall have been settled and evidence to that effect furnished to the satisfaction of the Owner.

**107.12 THE CLAIMS RESOLUTION PROCESS**

THE ENTIRE TEXT OF THIS SUBSECTION IS DELETED.

**107.13 LITIGATION OF CLAIMS BY THE CONTRACTOR**

THE ENTIRE TEXT OF THIS SUBSECTION IS DELETED.

## **SECTION 108 – PROSECUTION AND COMPLETION**

### **108.01 SUBCONTRACTING**

THE FIRST AND SECOND PARAGRAPHS ARE DELETED.

### **108.02 COMMENCEMENT OF WORK**

THE SUBPART 4 IN THE FIRST PARAGRAPH IS CHANGED TO:

1. Progress schedule as specified in 153.03

ALL REFERENCES TO EXECUTION OF CONTRACT ARE CHANGED TO NOTICE TO PROCEED.

### **108.04 WORK SITE AND STORAGE**

THE FOLLOWING IS ADDED:

Provide the RE a copy of any lease for the use of private property.

Upon completion of all work and prior to the release of final retainage, provide the RE a copy of a letter of release from the property owner stating that the site has been restored in a satisfactory manner.

### **108.10 CONTRACT TIME**

The Contractor must achieve Substantial Completion in 240 calendar days and Completion in 300 calendar days. Every effort shall be made by the Contractor to minimize the duration of the road closure.

### **108.11 MODIFICATIONS TO CONTRACT**

#### **108.11.01 Extensions to Contract Time**

#### **B. Types of Delays.**

##### **2. Excusable, Non-Compensable Delays.**

THE LAST PARAGRAPH IS CHANGED TO:

If approved excusable, non-compensable delays exceed a total of 90 days, the time in excess of 90 days will become excusable and compensable as specified in 108.11.01.B.3.

#### **C. Submitting Time Impact Evaluation.**

THE FIRST PARAGRAPH IS CHANGED TO:

If an excusable delay occurs, notify the RE, as specified in 104.03.04, detailing how the event or cause is affecting the approved progress schedule that is current at the time the delay occurred. When the full extent of the impact on the approved progress schedule can be determined, submit a request for an extension of Contract Time to the RE. Clearly identify how each change or delay is represented by an activity or group of activities.

### **108.12 RIGHT-OF-WAY RESTRICTIONS**

THE FOLLOWING IS ADDED:

Make no claim for delays by reason that entry upon an Easement or right which is lesser than a fee interest is conditioned upon notice or is limited in duration. Schedule work accordingly and take such limitations into account when planning performance of the work.

Temporary Easements and/or temporary construction rights will in most cases contain a limitation as to the length of time that they are extant. Schedule the Work pursuant to Section 153 so as to accommodate the particular time limitations of an Easement or right which is lesser than a fee interest as reflected on the R.O.W. plans. Provide a written request to the RE that the County procure an extension from the owner of a particular temporary easement or right, which is lesser than a fee simple interest, so as to enable the Contractor to continue occupancy of or re-enter same in the future, beyond the initial time period set forth in the respective property description prior to the expiration thereof.

Where the Contractor fails to complete the work within an area of a temporary easement or right lesser than a fee interest during the time allowed under the property description, by reason of the Contractor's own fault; reimburse the County for the sum payable to the owner of the underlying fee interest for the extended period of occupancy use. The RE may deduct an amount equal to such payments from the monthly estimate of the Work performed after providing 30 day written notice to the Contractor of such action, including a breakdown of the costs sought or to be sought by reason of the delay in timely vacating a temporary easement or right lesser than a fee interest.

Any additional construction staging areas or access areas used by the Contractor not shown in the Plans, is the sole responsibility of the Contractor. The Department will not make payment for gaining and maintaining the access and staging areas and restoring areas. Provide the RE with a copy of the written permission to enter the property prior to the start of Work. Provide written proof from the owner that the property has been restored to the owner's satisfaction. The Department will not make payment for delays and/or claims resulting from gaining permission to enter properties.

#### **108.14 DEFAULT AND TERMINATION OF CONTRACTOR'S RIGHT TO PROCEED**

LIST (1) OF THE FIRST PARAGRAPH IS CHANGED TO:

1. Fails to begin construction operations within 30 days of receiving notice to proceed.

#### **108.19 COMPLETION AND ACCEPTANCE**

THE FIRST, SECOND AND THIRD PARAGRAPHS ARE DELETED.

THE FOLLOWING IS ADDED:

No Incentive Payment for Early Completion is specified for this project.



## **SECTION 109 – MEASUREMENT AND PAYMENT**

### **109.01 MEASUREMENTS OF QUANTITIES**

THE SECOND AND EIGHTH (LAST) PARAGRAPHS ARE DELETED. ALL QUANTITIES WILL BE MEASURED.

### **109.02 SCOPE OF PAYMENT**

THE THIRD SENTENCE OF THE FIRST PARAGRAPH IS CHANGED TO:

The Department will not make additional or separate payment for work or portion of work unless specifically provided for in the “Measurement and Payment” Subsection.

### **109.05 ESTIMATES**

THE EIGHTH AND NINTH PARAGRAPHS ARE DELETED.

## **DIVISION 150 – CONTRACT REQUIREMENTS**

### **SECTION 151 – PERFORMANCE BOND AND PAYMENT BOND**

#### **151.01 DESCRIPTION**

THE ENTIRE TEXT OF THIS SUBSECTION IS DELETED.

#### **151.02 MATERIALS**

THE ENTIRE TEXT OF THIS SUBSECTION IS DELETED.

#### **151.03 PROCEDURE**

THE ENTIRE TEXT OF THIS SUBSECTION IS DELETED.

#### **151.04 MEASUREMENT AND PAYMENT**

THE TEXT OF THIS SUBSECTION IS CHANGED TO:

There will be no separate payment for performance bond and payment bond, distribute all costs among the other items in the proposal.

## **SECTION 152 – INSURANCE**

### **152.01 DESCRIPTION**

THE ENTIRE TEXT OF THIS SUBSECTION IS DELETED.

### **152.02 MATERIALS**

THE ENTIRE TEXT OF THIS SUBSECTION IS DELETED.

### **152.03 PROCEDURE**

THE ENTIRE TEXT OF THIS SUBSECTION IS DELETED.

### **152.04 MEASUREMENT AND PAYMENT**

THE ENTIRE TEXT OF THIS SUBSECTION IS DELETED.

## **SECTION 153 – PROGRESS SCHEDULE**

### **153.01 DESCRIPTION**

THE FOLLOWING IS ADDED:

Submit a CPM Progress Schedule for this project.

### **153.03 PROCEDURE**

#### **153.03.01 CPM Progress Schedule**

THE FIRST PARAGRAPH IS CHANGED TO:

If required in the Instructions to Bidders, provide a detailed CPM schedule using Primavera or equivalent program.  
ITEM 15 OF THE FIFTH PARAGRAPH IS CHANGED TO:

15. Calculate the CPM schedule in days.

#### **1. Preliminary Schedule Submission**

THE SECOND PARAGRAPH IS CHANGED TO:

Submit four (4) paper copies of the preliminary schedule, Gantt Chart, as specified in 153.03.02.2e, and a network diagram (PERT) printed on 36"x 24" sheets detailing the activity relationships.

#### **2. Baseline Schedule Submission**

THE LAST SENTENCE OF THE FIRST PARAGRAPH IS CHANGED TO:

Submit four (4) paper copies of the baseline schedule on 36"x24" sheets.

ITEM 3 OF THE SECOND PARAGRAPH IS CHANGED TO:

3. Submit four (4) paper copies of the tabular reports, as specified in 153.03.02.2, and a printed network diagram (PERT) on 36"x 24" sheets detailing the activity relationships.

#### **153.03.02 CPM Progress Schedule Updates**

THE FIRST, SECOND AND THIRD PARAGRAPHS ARE CHANGED TO:

The RE will designate the due date for the first schedule update when the baseline schedule is approved. The RE will designate the data date to be used for each schedule update.

Schedule progress review meetings to be held approximately 7 days before the schedule update due date. Prepare activity progress in advance of each meeting. Revise the logic to reflect the actual sequence of work. Do not submit schedules showing work performed out of sequence. Provide the RE with a report detailing actual start and actual finish dates of activities in progress since the previous review meeting. At the progress review meeting, present and review the progress since the previous review meeting for incorporation into the schedule.

Within 3 days from the date of the progress review meeting, submit the schedule update to the RE for approval with the agreed upon changes. Within 3 days, the RE will review the update schedule and approve or reject the submission. If rejected, revise and resubmit the schedule update, within 3 days, to the RE for review and approval. The RE will review the revised schedule update submissions and approve or reject the resubmission with 3 days.

#### **2. Tabular Reports**

THE FIRST PARAGRAPH IS CHANGED TO:

Submit three (3) paper copies of the longest path sort, total float sort, responsibility sort, area sort, and Gantt chart. Include the following information for each.

ITEM 7 IS CHANGED TO:

Original activity duration and remaining activity duration in days.

THE LAST PARAGRAPH IS CHANGED TO:

If the project falls behind schedule for non-excusable delays so that the schedule indicates the Work will not be completed by the Completion date as specified in 108.10, take the necessary steps to improve progress. Under such circumstances, the RE may direct the Contractor to increase the number of shifts, begin overtime operations, work extra days including weekends and holidays, and supplement its construction plant. Furthermore the RE may require the Contractor to submit for approval a recovery schedule showing how the Contractor proposes to meet the direct acceleration.

#### **153.03.03 Bar Chart Progress Schedule and Updates**

##### **A. Schedule.**

THE FOLLOWING IS ADDED:

If the project falls behind schedule for non-excusable delays so that the schedule indicates that the Work will not be completed by the Completion date as specified in 108.10, take the necessary steps to improve progress. Under such circumstances, the RE may direct the Contractor to increase the number of shifts, begin overtime operations, work extra days including weekends and holidays, and supplement its construction plant. Furthermore, the RE may require the Contractor to submit for approval a recovery schedule showing how the Contractor proposes to meet the directed acceleration.

##### **B. Updates.**

THE THIRD SENTENCE OF THE FIRST PARAGRAPH IS DELETED.

#### **153.04 MEASUREMENT AND PAYMENT**

THIS ENTIRE SUBSECTION IS CHANGED TO:

No separate payment will be made for Progress Schedules, distribute all costs among the various items in the proposal.

The RE may withhold progress payments from the Contractor is scheduled updates and/or revisions are not submitted within the timeframes specified.

## SECTION 154 – MOBILIZATION

### 154.04 MEASUREMENT AND PAYMENT

The Department will measure and make payment for Items as follows:

*Pay Item*  
MOBILIZATION

*Pay Unit*  
LUMP SUM

## SECTION 155 – CONSTRUCTION FIELD OFFICE

### 155.03.01 Field Office

THIS ENTIRE SUBPART IS CHANGED TO:

A field office will not be required for this Project. Provide the following equipment for the exclusive use of the RE. Damaged or lost equipment will be repaired or replaced throughout the duration of the Contract within 48 hours of notification. All equipment will be removed and retained by the Contractor when no longer required, unless purchased by the Department. The RE must approve all equipment and services prior to purchase and/or installation.

#### 1. Communication Equipment.

- a. **Cell Phones.** Provide 1 cellular phone. Ensure the cellular phone plan provides for unlimited mobile to mobile in-network usage, unlimited push-to-talk/ walkie-talkie usage and an anticipated monthly usage of 900 any-time minutes for each phone. Ensure the phones are on the same plan. Ensure the cellular phone plan has a home rate with no roaming charges within the state. Ensure each cellular phone has the following features:

1. Push to Talk / Walkie-Talkie capable .
2. Camera with 1 megapixel picture capability.
3. Battery life capable of 180 minutes of continuous use and 72 hours of standby use.
4. Equipped with a hands-free headset.
5. Base charger and car charger

- c. **Computer System.** Provide a computer system meeting the following requirements:

##### 1 computer configurations each meeting the following:

1. Notebook computer, Intel core i5 2450M, 2.5GHz, 3m L3 cache, 500 GB hard drive, 4 GB RAM, 15.6" HD anti glare screen, CD/DVD combination drive, USB 2.0 compatible with four ports, 6 cell Lithium ion battery with spare battery provided.
2. A high-speed broad band connection and service with a minimum speed of 1.5 mbps with a dynamic IP address.
3. 1 TB external hard drive with backup software.
4. An uninterruptible power supply with a surge protector.
5. Six 4 GB USB jump memory drives.
6. 100 CD-R 700MB recordable CD's compatible with CD drive and 100 recordable DVD's. Include four CD/DVD holders (each holds 50).
7. One can of compressed air and screen cleaning solution every other month of the duration of the job.

Software as follows:

1. Microsoft Windows Operating System latest version with future upgrades for the duration of the entire project.
2. Microsoft Office Professional latest version.
3. Norton 360 Version 6.0, this includes anti-virus software.
4. Visio Professional 2010 Graphics Software for Windows.
5. Primavera Project Planner 6.0.
6. PaperPort 14.

THE THIRD PARAGRAPH IS CHANGED TO:

When the computer system is no longer required by the RE, the Department will remove and destroy the hard drive, and return the computer system to the Contractor. The Department will retain other data storage media.

**2. Office Equipment.**

1. 1 digital camera(s). Ensure each digital camera has auto-focus, with rechargeable batteries and charger, 123 MB memory card, USB Memory Card Reader compatible with camera and field office computer, 1.5 inch LCD monitor, 5 mega pixel resolution, 3.0 X optical zoom lens, built in flash, image stabilization, computer connections, and a carrying case

**3. Inspection Equipment.**

1. 1 Calculators with trigonometric capability
2. 1 Date/ Received stamp and ink pad
3. 1 Electronic Smart level, 4 foot
4. 1 Carpenter rulers
5. 1 Steel tape, 100 feet
6. 1 Cloth tape, 100 feet
7. 0 Illuminated measuring wheel
8. 1 Plumb bob and cord
9. 1 Line level and cord
10. 1 Surface thermometer
11. 1 Concrete thermometer
12. 0 Digital infrared asphalt thermometer
13. 0 Direct Tension Indicator (DTI) Feeler Gage, 0.005 inch
14. 0 Sledge hammer, 8lb
15. 0 Self leveling laser level with range of 100 feet and an accuracy of ¼ inch per 100 feet
16. 3 Hard hats -orange, reflectorized hard hats according to ANSI Z89.1.
17. 3 Safety garments – orange, reflectorized, 360° high visibility safety garments according to ANSI/ISEA Class 3, Level 2 standards. To be replaced yearly for the duration of the contract.
18. 3 Sets of rain gear with reflective sheeting
19. 3 Sets of hearing protection with a Noise Reduction Rating of 22 dB
20. 3 Sets of eye protection according to ANSI Z87.1
21. 1 Set(s) of fall arrest equipment according to ANSI Z359.1 standards consisting of a full body harness, lanyard and anchor.
22. 0 Light meter -capable of measuring the level of luminance in foot-candles
23. 1 Lantern flashlight, 6V with monthly battery replacements
24. Testing equipment and apparatus conforming to AASHTO T23, T119, T152

**155.03.02 Field Office Maintenance**

THE LAST PARAGRAPH IS CHANGED TO:

Maintain the computer system, camera, cellular phone and equipment for the duration of the contract or until no longer required by the RE. Assume that the equipment and services will be required for a minimum of 3 months after Completion. Repair or replace inoperable or defective communication, office and inspection equipment within 24 hours.

**155.04 MEASUREMENT AND PAYMENT**

THE SECOND AND THIRD PARAGRAPHS ARE DELETED:

The Department will not make payment for FIELD OFFICE TYPE A SET UP, FIELD OFFICE TYPE A MAINTENANCE and TELEPHONE SERVICE



## **SECTION 156 – MATERIALS FIELD LABORATORY AND CURING FACILITY**

NOT REQUIRED FOR THIS PROJECT.

## **SECTION 157 – CONSTRUCTION LAYOUT AND MONUMENTS**

### **157.03 PROCEDURE**

#### **157.03.01 Construction Layout**

THE FOLLOWING IS ADDED:

It shall be the Contractor's sole responsibility for construction of all items of work to the line and grades shown on the plans. Provide the necessary qualified personnel to correctly interpret the survey layout as provided by the licensed New Jersey Professional Land Surveyor.

Give the RE copies of all grade sheets, cut sheets and other data prepared by the licensed New Jersey Professional Land Surveyor prior to the start of any work. This data shall be given to the RE for informational purposes only. No responsibility will be assumed by the RE for its correctness.

Provide written as-built certification from the Licensed New Jersey Land Surveyor that certain phases and/or all of the work has been constructed in accordance with the line and grades shown on the plans prior to final payment as required by the RE.

If in the opinion of the RE, the project cannot be successfully completed with the quality of work performed, he shall order the work redone at the Contractor's expense.

In instances where the RE feels the impact of the defective work is less severe, the RE shall have the option to negotiate a credit to the Owner. If a credit cannot be successfully negotiated, redo the work at no additional cost.

The RE will make every effort to periodically check the work in progress for conformity to plan line and grade, however, no guarantee is implied that said checks will be performed at the Contractor's convenience. If any work is found to be defective, the RE shall within three (3) working days render a decision as to whether the work should be redone or if the RE wishes to negotiate a credit to the County.

When requested by the RE, make available a competent person from his construction force to assist the RE in any manner which may be necessary to check the grades and alignment as well as other features of the work. No extra payment will be made for the services of such an assistant, and payment for the assistance shall be deemed to be included in the various unit prices bid. Failure to comply with this provision shall be sufficient cause for the RE to stop work on unchecked sections.

#### **157.04 MEASUREMENT AND PAYMENT**

THE FOLLOWING TEXT IS ADDED TO THIS SUBSECTION:

No separate payment will be made for monuments, and as-built certification, distribute all costs among the other items in the proposal.

**SECTION 158 – SOIL EROSION AND SEDIMENT CONTROL AND WATER  
QUALITY CONTROL**

**158.02 MATERIALS**

THE FOLLOWING IS ADDED:

Calcium Chloride.....919.15

**158.04 MEASUREMENT AND PAYMENT**

THE FOLLOWING ITEMS ARE ADDED:

<i>Pay Item</i>	<i>Pay Unit</i>
SILT FENCE	LINEAR FOOT
HAYBALE	UNIT
INLET FILTER, TYPE 1	UNIT
SEDIMENT CONTROL BAG	UNIT

## SECTION 159 – TRAFFIC CONTROL

### 159.03.08 TRAFFIC DIRECTION

SUBPART B OF THIS SUBSECTION IS DELETED IN ITS ENTIRETY AND REPLACED AS FOLLOWS:

**B. Traffic Safety Services.** Uniformed Police Officers shall be employed by the Contractor for the protection of any equipment entering, leaving, or crossing active traffic lanes, or as may be required for the routing of traffic around or through the construction. The uniformed police officers shall be employed continuously for the full time such conditions shall exist and as determined by the Engineer. The Contractor is advised to contact the local authorities prior to bidding to determine specific requirements for this project.

The Contractor agrees that it shall make no claims against the County for extra costs resulting from any delays or interruptions to its operations attributable to the actions or inactions of police in the performance of traffic safety services. The Contractor further agrees that it has incorporated in its Proposal any costs that may be incurred by the Contractor as a result of the actions or inactions of police in the performance of traffic safety services, and agrees to bear the risk of loss for any costs not included in its Proposal.

Police providing traffic safety services shall maintain traffic flow at a signalized intersection when the signals are temporarily out of service or as may be required for the routing of traffic as determined by the Engineer.

### 159.04 MEASUREMENT AND PAYMENT

THE FOLLOWING IS ADDED TO THIS SECTION:

Payment will be made under:

<i>Item</i>	<i>Pay Unit</i>
BREAKAWAY BARRICADE	UNIT
DRUM	UNIT
TRAFFIC CONE	UNIT
CONSTRUCTION SIGN	SQUARE FOOT
FLASHING ARROW BOARD	UNIT
PORTABLE VARIABLE MESSAGE SIGN	UNIT
TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION	UNIT
TEMPORARY TRAFFIC STRIPES, 4"	LINEAR FOOT
TEMPORARY TRAFFIC MARKINGS	SQUARE FOOT
MUNICIPAL POLICE ALLOWANCE	ALLOWANCE

Uniformed Police Officers will be measured by the hour, and paid at the rates set forth in the current local police contracts. Payment will be made from the lump sum allowance only for Uniformed Police Officers used. The Contractor must provide evidence of payment for reimbursement. The Contractor is not entitled for any profit, overhead or administrative fees on this pay item.

No payment will be made for any costs of the Uniformed Police Officers in excess of the lump sum allowance by the County without prior written approval.

Separate payment will not be made for Traffic Directors, Flaggers. All costs thereof shall be included in the prices bid for the various pay items scheduled in the Proposal.

Separate payment will not be made for relocating traffic control devices and lighting systems used for nighttime operations, for changes in staging of the project, or for relocation made for the Contractor's convenience.

Separate payment will not be made for safety ramps provided at the edges and around drainage and utility castings.

Separate payment will not be made for lost, stolen, and replacement of traffic control devices, breakaway barricades, drums, and traffic cones.

## SECTION 160 – PRICE ADJUSTMENTS

### 160.03.01 Fuel Price Adjustment

THE ENTIRE SUBPART IS CHANGED TO THE FOLLOWING:

The Department will make monthly price adjustments for eligible fuel usage, as defined below, for Items listed in Table 160.03.01-1. The Department will calculate fuel price adjustments based on the monthly pay quantities of listed Items using the fuel usage factors listed in Table 160.03.01-1.

TABLE 160.03.01-1 Fuel Price Adjustments	
Items	Fuel Usage Factor
EXCAVATION, UNCLASSIFIED	0.5 Gallons per Cubic Yard
EXCAVATION, REGULATED MATERIAL	0.5 Gallons per Cubic Yard
HMA MILLING, 3" OR LESS	0.25 Gallons per Square Yard
I-6 SOIL AGGREGATE	1.00 Gallon per Cubic Yard
I-11 SOIL AGGREGATE	1.00 Gallon per Cubic Yard
I-14 SOIL AGGREGATE	1.00 Gallon per Cubic Yard
DENSE-GRADED AGGREGATE BASE COURSE, 4" THICK	1.00 Gallon per Cubic Yard
HOT MIX ASPHALT 9.5M64 SURFACE COURSE	2.50 Gallons per Ton
HOT MIX ASPHALT 19M64 BASE COURSE	2.50 Gallons per Ton
CONCRETE WING WALL	1.00 Gallon per Cubic Yard

If an item listed in Table 160.03.01-1 has a payment unit which differs from that listed in Table 160.03.01-1, the Department will apply an appropriate conversion factor to determine the number of gallons of fuel used. Other Items may be added to the above Table 160.03.01-1 by the RE.

Price adjustments may result in an increased payment to the Contractor for increases in the price index and may result in a reduction in payment for decreases in the price index.

The Department will calculate fuel price adjustment on a monthly basis using the following formula:

$$F = (MF - BF) \times G$$

Where:	F	=	Fuel Price Adjustment	(\$)
	MF	=	Monthly Fuel Price Index	(\$/Gallon)
	BF	=	Basic Fuel Price Index	(\$/Gallon)
	G	=	Gallons of Fuel for Price Adjustment	(Gallon)

The Department will post the monthly fuel price index every month on the Department's website: <http://www.state.nj.us/transportation/business/trnsport/PriceIndex.shtm>

The Basic Fuel Price Index is **\$3.98/Gallon** for the month of **November, 2023**.

The fuel required for items not listed and for eligible Pay Items in the Contract that individually require less than 500 gallons of fuel will not be eligible for fuel price adjustment. If more than one Contract Pay Item has the same nomenclature but with different thicknesses, depths, or types, each individual Contract Pay Item must require 500 gallons or more of fuel to be eligible for fuel price adjustment. If more than one Contract Pay Item has the exact same nomenclature, similar Contract Pay Items will be combined and this total must then require 500 gallons or more of fuel to be eligible for fuel price adjustment.

The Department will use the fuel price index for the month before the regular monthly estimate cutoff date as the Monthly Fuel Price Index. If the Monthly Fuel Price Index increases by 50 percent or more over the Basic Fuel Price Index, do not perform any work involving Items listed in Table 160.03.01-1 without written approval from the RE.

### 160.03.02 Asphalt Price Adjustment

THE ENTIRE SUBPART IS CHANGED TO THE FOLLOWING:

The Department will make monthly price adjustments for asphalt binder usage. The Department will calculate asphalt price adjustments based on the quantities of Items containing asphalt binder constructed during a given month.

Price adjustments may result in an increased payment to the Contractor for increases in the price index and may result in a reduction in payment for decreases in the price index.

Asphalt price adjustment for asphalt binder will be determined on a monthly basis by the following formula:

$$A = (MA - BA) \times T$$

where:	A	=	Asphalt Price Adjustment	(\$)
	MA	=	Monthly Asphalt Price Index	(\$/Ton)
	BA	=	Basic Asphalt Price Index	(\$/Ton)
	T	=	Tons of New Asphalt Binder (see Note)	(Ton)

Note: The weight of asphalt binder eligible for price adjustment will be determined by multiplying the percentage of new asphalt binder in the approved job mix formula by the weight of Hot Mix Asphalt (HMA).

The monthly asphalt price index will be the average of quotations from suppliers serving the area in which the Project is located, and will be determined by the Department each month and posted on the Department's website at [www.state.nj.us/transportation/business/trnsport/PriceIndex.shtm](http://www.state.nj.us/transportation/business/trnsport/PriceIndex.shtm).

The basic asphalt price index will be the most recent monthly asphalt price index during the month of publication of the Advertisement for Bids for this contract.

Should a monthly asphalt price index increase 50 percent or more over the basic asphalt price index, no additional HMA shall be furnished for the Project without written approval from the RE.

Should a monthly asphalt price index decrease from the basic asphalt price index, payments will be decreased accordingly.

Asphalt price adjustment for work performed after the time of completion, will be based on the asphalt price index for the month in which the work was to be completed, except if the monthly asphalt price index decreases after the completion date, the asphalt price adjustment will be decreased accordingly.

Asphalt price adjustment will be on a dollar basis, and an estimated amount to cover the asphalt price adjustment will be included in the Proposal. Payments for increases will be made from this amount. The asphalt price adjustment estimated amount is based on Hot Mix Asphalt containing 5.5% Asphalt Cement.

The Basic Asphalt Price Index is **\$578.00/Ton** for the month of **November, 2023**.

#### **160.04 MEASUREMENT AND PAYMENT**

THE FOLLOWING ITEMS' PAY UNITS ARE REVISED TO:

<i>Item</i>	<i>Pay Unit</i>
FUEL PRICE ADJUSTMENT	DOLLAR
ASPHALT PRICE ADJUSTMENT	DOLLAR

## **SECTION 161 – FINAL CLEANUP**

### **161.03 PROCEDURE**

#### **161.03.01 Final Cleanup**

THE FOLLOWING IS ADDED:

Repair or replace in a manner acceptable to the RE any public or private property which may have been damaged or destroyed during the prosecution of the work; clean all drains, sewers, and ditches within and adjacent to the work which have been obstructed by construction operations. Leave the site and adjacent public and private property in a neat and presentable condition wherever his operations have disturbed conditions existing at the start of the work. Submit to the RE releases from affected property owners that his obligations with respect to their individual properties have been fulfilled.

#### **161.04 MEASUREMENT AND PAYMENT**

THE SUBSECTION TEXT IS CHANGED TO:

No separate payment will be made for Final Cleanup. Payment for this work shall be included in the unit prices bid for all other items of work in the proposal.



## DIVISION 200 – EARTHWORK

### SECTION 201 – CLEARING SITE

#### 201.02 MATERIALS

THE FOLLOWING IS ADDED:

Coarse Aggregate (No. 57) .....	901.03
DGA.....	901.10
Concrete Block.....	9010.02
Timber for Structures.....	915.04
Timber Treatment.....	915.05
Topsoil.....	917.01
Plant Materials.....	917.08
Antidescicant.....	917.09.02
Herbicide.....	917.09.03
Water.....	919.08

#### 201.03 CONSTRUCTION

##### 201.03.01 Clearing Site

THE FOLLOWING SUBHEADINGS ARE ADDED:

- I. Landscape Restoration. Restore landscaping on private properties disturbed during construction activities. This work shall include but not be limited to restoration of landscape gardens, plantings, and landscape timbers. Contractor shall make note of existing landscape garden edging locations, including existing plant species, and shall replace in kind and in accordance with the requirements specified in Section 811. Existing stone and concrete landscape garden edging must be reused. Provide additional stone, if necessary, to complete the landscape stone wall. Landscape timbers shall be replaced in kind and shall conform to the requirements specified in Section 915.
- J. Temporary Driveway. Construct temporary driveways as directed by the RE, using dense-graded aggregate with a 6-inch thickness as designated on the Plans. Ensure that the driveways are at least 10 feet wide. Maintain the driveway by top dressing or by excavating and top dressing, as directed by the RE, with additional dense-graded aggregate. When the driveway is no longer required, remove the driveway, backfill with topsoil to adjacent ground elevation, seed and fertilize and restore the disturbed area to the original condition. Maintain driveway access at all times.
- K. Clearing Site, Bridge. Perform Work as specified in 201.03.02.

##### 201.03.02 Clearing Site, Bridge and Clearing Site, Structure

THE FOLLOWING IS ADDED TO THE FIRST PARAGRAPH:

The bridge work to be performed under this Contract includes removal and disposal of the existing bridge in its entirety, including but not limited to reinforced concrete curbs, headwalls, wingwalls, bridge approaches, precast concrete culvert, chain-link fence, and other miscellaneous items as shown on the Plans and as directed by the RE. Clearing Site Bridge shall also include but not be limited to the removal of trees, vegetative matter and other obstructions required to construct channel protection, retaining walls, and the bridge structure at no additional cost to the Owner.

Install temporary shielding below the existing bridge as specified in 201.03.09

#### 201.04 MEASUREMENT AND PAYMENT

Payment will be made under:

*Pay Item*

CLEARING SITE

*Pay Unit*

LUMP SUM

THE FOLLOWING IS ADDED:

The Department will not make payment for the Item CLEARING SITE in excess of 80% of the lump sum bid until Completion.

Include the cost for CLEARING SITE BRIDGE in the item Clearing Site.

## SECTION 202 – EXCAVATION

### 202.03.05 Excavation, Regulated Material

#### 3. Temporarily Storing.

THE FIRST PARAGRAPH IS CHANGED TO:

Temporarily store regulated or hazardous material in stockpiles within the Project Limits and as shown on the Plans. Construct stockpiles on polyethylene sheeting. Contain stockpiles with haybales or silt fence placed continuously at the perimeter of the stockpiles. For hazardous material, if a stockpile area is not available within the Project Limits, sample and analyze materials in-situ for disposal. Excavate and place the hazardous regulated material directly into trucks, and haul it directly to the approved disposal facility.

### 202.04 MEASUREMENT AND PAYMENT

THE FOLLOWING ITEMS ARE ADDED:

<i>Pay Item</i>	<i>Pay Unit</i>
REMOVAL OF PAVEMENT UP TO 12" DEEP	SQUARE YARD
EXCAVATION, TEST PIT	CUBIC YARD
EXCAVATION, UNCLASSIFIED	CUBIC YARD
EXCAVATION, REGULATED MATERIAL	CUBIC YARD
DISPOSAL OF REGULATED MATERIAL	TON

All excavation shall be measured and paid for under the item "Excavation, Regulated Material".

## SECTION 203 – EMBANKMENT

### 203.01 DESCRIPTION

THE FOLLOWING IS ADDED:

This work includes the placement of soil aggregate behind the box culvert sections and wingwalls and placement of coarse aggregate below the culvert and approach slabs.

### 203.02 MATERIALS

THE FOLLOWING IS ADDED:

Coarse Aggregate (No. 57) ..... 901.03

#### 203.02.01 Materials

THIS SUBPART IS CHANGED TO:

Provide materials as specified:

Soil Aggregate (I-6, I-11, I-14). ..... 901.11

### 203.04 MEASUREMENT AND PAYMENT

THE FOLLOWING ITEMS ARE ADDED:

*Pay Item*

I-9 SOIL AGGREGATE

*Pay Unit*

CUBIC YARD

## **DIVISION 300 – SUBBASE AND BASE COURSES**

### **SECTION 301 - SUBBASE**

301.01 DESCRIPTION

301.02 MATERIALS

THE FOLLOWING IS ADDED:

Subbase shall be constructed using existing insitu granular soils or furnished and installed 2" to 2-1/2" clean stone, if and where directed by the engineer.

Soil support fabric, if and where ordered, shall conform to Subsection 919.01.

301.03 CONSTRUCTION

#### **301.03.01 SUBBASE**

ADD THE FOLLOWING AFTER THE FIRST PARAGRAPH OF SECTION A.:

##### **A. Preparing Subgrade**

Where directed by the Engineer, the contractor shall install a geotextile soil support fabric prior to the placing of the proposed dense graded aggregate base course and/or clean stone subbase. The subgrade shall be cleared of all large stones and sharp objects that could puncture the fabric prior to placement. The fabric should then be rolled out into the sub-grade by at least two men, beginning on the firmest soil of the site perimeter to establish an anchor point. Lateral and longitudinal seams should be overlapped 3' or more or sewn. Aggregate may be used to hold down the fabric until the sub-base can be placed. Ground securing pins may also be used on the overlap sections.

Once the fabric is in place, the aggregate subbase can be backdumped onto the fabric beginning on firm soil at a point just in front of the fabric. The aggregate should be spread in lifts to allow proper compaction while not overstressing the fabric. Where extremely soft subgrades exist, care should be taken during aggregate placement to insure that the fabric is not moved out of position. Deformations or ruts that appear in the subbase shall be filled with additional aggregate until stable. Areas of the fabric which are damaged or moved out of position during aggregate placement shall be exposed and covered with a fabric "patch" overlapping 3 to 4 feet onto unaffected areas.

#### **301.04 MEASUREMENT AND PAYMENT**

The Department will measure and make payment for Items as follows:

*Pay Item*

2" TO 2-1/2" CLEAN STONE SUBBASE 6" THICK INCLUDING  
EXCAVATION, UNCLASSIFIED  
SOIL SUPPORT FABRIC

*Pay Unit*

CUBIC YARD  
SQUARE YARD

## SECTION 302 – AGGREGATE BASE COURSE

### 302.01 DESCRIPTION

This Subsection is changed to:

This section describes the requirements for constructing aggregate base courses and DGA, backfill for storm sewer trenches and miscellaneous construction.

### 302.02 MATERIALS

### 302.03 CONSTRUCTION

#### 302.03.01 Soil Aggregate Base Course and Dense Graded Aggregate Base Course

##### C. Aggregate Base Course Placement

The following is added:

Correct damage to the aggregate base course caused by construction activities, and maintain the corrected aggregate base course until the subsequent course is placed. Do not allow traffic on the aggregate base course. Remove all standing storm water and obtain the RE's approval before constructing subsequent courses.

### 302.04 MEASUREMENT AND PAYMENT

The Department will measure and make payment for Items as follows:

<i>Pay Item</i>	<i>Pay Unit</i>
DENSE GRADED AGGREGATE BASE COURSE, 4" THICK	CUBIC YARD
DENSE GRADED AGGREGATE, BACKFILL	CUBIC YARD
COARSE AGGREGATE, SIZE NO. 57	CUBIC YARD

The Department will not make separate payment for the test holes described in part 302.03.01.D.

The Department will measure DGA used for Dense Graded Aggregate, Backfill by cubic yard of material actually used in the work to stabilize unstable areas.

### **SECTION 303 – ASPHALT-STABILIZED DRAINAGE COURSE**

303.01	DESCRIPTION
303.02	MATERIALS
303.03	CONSTRUCTION
303.04	MEASUREMENT AND PAYMENT

## **SECTION 304 – CONCRETE BASE COURSE**

304.01	DESCRIPTION
304.02	MATERIALS
304.03	CONSTRUCTION
304.04	MEASUREMENT AND PAYMENT

## **SECTION 305 – RUBBLIZING CONCRETE PAVEMENT**

305.01	DESCRIPTION
305.02	MATERIALS
305.03	CONSTRUCTION
305.04	MEASUREMENT AND PAYMENT



## **DIVISION 400 – PAVEMENTS**

### **SECTION 401 – HOT MIX ASPHALT (HMA) COURSES**

401.01 DESCRIPTION

401.02 MATERIALS

401.02.02 Equipment

The last paragraph is changed to:

When an MT is used, install a paver hopper insert with a minimum capacity of 14 tons in the hopper of the HMA paver.

401.03.07 HMA Courses

D. Transportation and Delivery of HMA.

The first paragraph is changed to:

Deliver HMA using HMA trucks in sufficient quantities and at such intervals to allow continuous placement of the material. Do not allow trucks to leave the plant within 1 hour of sunset unless nighttime lighting is provided as specified in 108.06. The RE will reject HMA trucks do not meet the requirements specified in 1009.02. The RE will suspend construction operations if the Contractor fails to maintain a continuous paving operation. Before the truck leaves the plant, obtain a weight ticket from a fully automatic scale. Before unloading, submit for each truckload a legible weigh ticket that includes the following:

1. Name and location of the HMA plant.
2. Project title.
3. Load time and date.
4. Truck number.
5. Mix designation.
6. Plant lot number.
7. Tare, gross, and net weight.

E. Spreading and Grading.

The third paragraph is changed to:

Use an MTV for the construction of intermediate and surface course in the traveled way. Ensure that the MTV independently delivers HMA from the HMA trucks to the HMA paver. Operate the MTV to ensure that the axle loading does not damage structures, roadways, or other infrastructure.

Use an MTV for the construction of surface course in the traveled way. Ensure that the MTV independently delivers HMA from the HMA trucks to the HMA paver. Operate the MTV to ensure that the axle loading does not damage structures, roadway, or other infrastructure.

401.03.03 HMA Courses (Cont'd)

J. Ride Quality Requirements

The first paragraph is changed to:

The Department will evaluate the HMA surface course using the International Roughness Index (IRI) according to ASTM E 1926. The Department will use the measured IRI to compute the appropriate pay adjustment (PA). The PA may be positive for superior quality work or negative for defective work. The Department may exclude certain area as specified in the Special Provisions.

Subpart 3 is Changed to:

3. Preparation for IRI Testing. Provide the necessary traffic control when the Department performs IRI testing. Perform required mechanical sweeping of the surface course before IRI testing. To facilitate auto triggering on laser profilers, place a single line of preformed traffic marking tape perpendicular to the roadway baseline 300 feet before the beginning of each lane, shoulder, and ramp to be tested. Submit the actual stationing for each traffic marking tape location to the RE.

**401.04 MEASUREMENT AND PAYMENT**

The Department will measure and make payment for Items as follows:

<i>Pay Item</i>	<i>Pay Unit</i>
TACK COAT	GALLON
PRIME COAT	GALLON
POLYMERIZED JOINT ADHESIVE	LINEAR FOOT
HMA MILLING, 3" OR LESS	SQUARE YARD
HOT MIX ASPHALT 9.5M64 SURFACE AND LEVELER COURSE	TON
HOT MIX ASPHALT 19M64 BASE COURSE	TON

This Subsection is changed to:

The specified depth of the milling is measured from the original surface to the top of the high spots of the textured surface.

The Department will measure Hot Mix Asphalt Pavement Repair before overlay by the square yard of area bounded by the sawcuts.

The Department will measure Tack Coat by volume delivered, converted to the number of gallons at 60°F as calculated by the temperature-volume correction factors specified in 902.01.

The Department will measure Hot Mix Asphalt 9.5 M 64 Surface Course and Hot Mix Asphalt 19 M 64 Base Course by the ton as indicated on the certified weigh tickets, excluding unused material. When nominal maximum aggregate size 3/8-inch HMA surface course is directed for use in transition (run out) areas, the Department will include this weight with the weight for Hot Mix Asphalt 9.5 M 64 Surface Course.

The Department will not make payment for MTV, Quality Control Cores or additional cores for reset and a thin-lift nuclear density gauge.

The Department will make a payment adjustment for HMA air void quality by the following formula:

$$\text{Pay Adjustment} = Q \times BP \times PPA$$

Where:

BP = Bid Price

Q = Air Void Lot Quantity

PPA = air void PPA as specified in 401.03.03H.

The Department will make a payment adjustment for HMA thickness quality by the following formula:

$$\text{Pay Adjustment} = Q \times BP \times PPA$$

Where:

BP = Bid Price

Q = Air Void Lot Quantity

PPA = air void PPA as specified in 401.03.03I

The Department will make a payment adjustment for HMA ride quality, as specified in 401.03.03J.

## **SECTION 402 – HMA FRICTION COURSE**

- 402.01 DESCRIPTION
- 402.02 MATERIALS
- 402.03 CONSTRUCTION
- 402.04 MEASUREMENT AND PAYMENT

The following is added:

The Department will make a payment adjustment for HMA thickness quality by the following formula:

$$\text{Pay Adjustment} = Q \times BP \times PPA$$

Where:

BP = Bid Price

Q = Thickness Lot Quantity

PPA = air void PPA as specified in 401.03.03I

## SECTION 403 – ULTRA-THIN FRICTION COURSE

403.01 DESCRIPTION

403.02 MATERIALS

403.02 CONSTRUCTION

403.03.01 Ultra-Thin Friction Course

E. Spreading and Grading.

The Second Paragraph is changed to:

Apply polymer modified tack at a temperature of 140 to 175°F. Continuously monitor rate of spray, ensuring a uniform application rate over entire width to be overlaid. Apply at the rate of  $0.20 \pm 0.05$  gallons per square yard. Do not allow traffic, equipment, tools, or any other disturbance to the polymer modified tack coat before placing the ultra-thin friction course.

403.04 MEASUREMENT AND PAYMENT

The following is added:

The Department will make a payment adjustment for HMA thickness quality, by the following formula:

$$\text{Pay Adjustment} = Q \times BP \times PPA$$

Where:

BP = Bid Price

Q = Thickness Lot Quantity

PPA = thickness PPA as specified in 401.03.03I

## **SECTION 404 – STONE MATRIX ASPHALT (SMA)**

404.01	DESCRIPTION
404.02	MATERIALS
404.03	CONSTRUCTION
404.04	MEASUREMENT AND PAYMENT

## **SECTION 405 – CONCRETE SURFACE COURSE**

405.01	DESCRIPTION
405.02	MATERIALS
405.03	CONSTRUCTION
405.04	MEASUREMENT AND PAYMENT

## **DIVISION 450 – CONCRETE PAVEMENT REHABILITATION**

### **SECTION 451 - CONCRETE SLAB STABILIZATION**

451.01	DESCRIPTION
451.02	MATERIALS
451.03	CONSTRUCTION
451.04	MEASUREMENT AND PAYMENT



## **SECTION 452 - PARTIAL DEPTH CONCRETE PAVEMENT REPAIR**

452.01	DESCRIPTION
452.02	MATERIALS
452.03	CONSTRUCTION
452.04	MEASUREMENT AND PAYMENT

## **SECTION 453 – FULL DEPTH CONCRETE PAVEMENT REPAIR**

453.01	DESCRIPTION
453.02	MATERIALS
453.03	CONSTRUCTION
453.04	MEASUREMENT AND PAYMENT

## **SECTION 454 - DIAMOND GRINDING EXISTING CONCRETE PAVEMENT**

454.01	DESCRIPTION
454.02	MATERIALS
454.03	CONSTRUCTION
454.04	MEASUREMENT AND PAYMENT

## **SECTION 455 - SEALING EXISTING JOINTS IN CONCRETE PAVEMENT**

455.01	DESCRIPTION
455.02	MATERIALS
455.03	CONSTRUCTION
455.04	MEASUREMENT AND PAYMENT

## SECTION 504 – STRUCTURAL CONCRETE

### 504.02.01 Materials

THE FOLLOWING MATERIAL REFERENCE IS CHANGED TO:

Grit for Epoxy Waterproofing ..... 901.07.01

### 504.03.02 Concrete

#### D. Placing and Consolidating Concrete.

THE FIRST SENTENCE OF THE FIFTH PARAGRAPH IS DELETED

#### G. Removal of Forms and Falsework.

Do not remove forms and false work before 14 days following pour or until the concrete obtains a compressive strength of 90% of the design value.

### 504.04 MEASUREMENT AND PAYMENT

The Department will measure and make payment for Items as follows:

<i>Pay Item</i>	<i>Pay Unit</i>
REINFORCEMENT STEEL, GALVANIZED	POUNDS
CONCRETE WING WALL	CUBIC YARD
EPOXY WATERPROOFING	SQUARE YARD

The Department will make payment for reinforcement steel in the CONCRETE BRIDGE APPROACH, CONCRETE WINGWALL, and CONCRETE HEADWALL under REINFORCEMENT STEEL, GALVANIZED as specified in 504.04.

## **SECTION 505 – PRECAST AND PRESTRESSED STRUCTURAL CONCRETE**

### **505.03.02 Precast Concrete Culvert**

#### **C. Erection Plan.**

THE FIRST SENTENCE IS CHANGED TO:

Submit working drawings for certification regarding the plan of operations to the RE at least 30 days before the pre-erection meeting.

### **505.04 MEASUREMENT AND PAYMENT**

The Department will measure and make payment for Items as follows:

*Pay Item*

PRECAST CONCRETE CULVERT  
BYPASS PUMPING

*Pay Unit*

LINEAR FOOT  
LUMP SUM

## SECTION 507 – CONCRETE BRIDGE DECK, BRIDGE PARAPET AND APPROACHES

### 507.02.01 Materials

THE FOLLOWING IS DELETED FROM MATERIALS LIST:

4-Bar Open Steel Parapet.....906.07

THE FOLLOWING ARE ADDED TO MATERIALS LIST:

Steel Bar Bridge Railing.....906.07

Anchor Bolts.....908.01.03

### 507.03.02 Concrete Bridge Deck

**A. Forms.** Construct forms as follows:

#### 2. Removable Forms.

THIS PART IS CHANGED TO:

Construct removable forms as specified in 504.03.02.B. Do not use shoring to support stringers along the span length where the superstructure, under live load and impact loads, is designed for composite action. Do not weld attachments required for placement of the removable forms to the beam.

#### L. Sawcut Grooved Surfacing.

THE FOLLOWING IS ADDED TO THE FIRST PARAGRAPH:

Do not saw cut until after the Department performs Acceptance Testing as specified in Subsection 507.03.02 N.

#### N. Concrete Deck Surface Requirements

##### 1. Acceptance Testing.

THE FIRST PARAGRAPH IS CHANGED TO:

Construct deck slabs so that less than 9 percent of the measured length of the lot exceeds 1/8 inch tolerance in 10 feet. The ME will test the surface of concrete bridge deck slabs with a Class I Walking Profiler prior to the performance of saw cut grooved surfacing. The ME will calculate the percent defective using a rolling straight edge simulator analysis of the profiler data.

THE FOLLOWING IS ADDED:

P. Saw cutting and Sealing Deck Joint. Make saw cuts between 1 and 5 days after placement of the HMA. Sawcut as specified in the plans. Saw cut the HMA adjacent to the concrete deck the full width of the traveled way and shoulders. After saw cutting, immediately collect the slurry from the saw cut cavity and surrounding pavement.

Clean saw cuts with a 150-pounds-per-square-inch water blast to remove remaining debris in the saw cut cavity, and then blow saw cuts with a hot-air lance to provide a dry surface. Immediately after blowing, seal saw cuts.

Seal joints with hot-poured joint sealer prepared according to the manufacturer's recommendations. Do not heat joint sealer at the pouring temperature for more than 6 hours and do not reheat. Fill the saw cuts so that after cooling the level of the sealer is not more than ¼ inch above, or less than 1/8 inch below, the surface. Do not spread sand or other fine material on the sealed joints. Before opening to traffic, allow joint sealer to cure to prevent pickup.

### 507.03.05 Concrete Parapet and Barrier Curb

THE SECOND PARAGRAPH IS CHANGED TO:

Cure using curing compound as specified in 504.03.02.F. If drilling is required for subsequent construction, allow the concrete to cure for a minimum of 14 days before drilling.

### 507.03.07 Concrete Bridge Approach

THE FOLLOWING IS ADDED:

Ensure the concrete conforms to the surface requirements as specified in 507.03.02 N, except each lot will be equal to the number of cubic yards of approach concrete placed in the lane.

#### 507.04 MEASUREMENT AND PAYMENT

The Department will measure and make payment for Items as follows:

<i>Pay Item</i>	<i>Pay Unit</i>
CONCRETE BRIDGE DECK, HPC	CUBIC YARD
CONCRETE BRIDGE APPROACH	CUBIC YARD

THE SECOND PARAGRAPH IS CHANGED TO:

The Department will make payment for reinforcement steel in the CONCRETE BRIDGE DECK, HPC, CONCRETE BRIDGE APPROACH, CONCRETE WINGWALL, and CONCRETE HEADWALL under REINFORCEMENT STEEL, GALVANIZED as specified in 504.04.

No separate payment shall be made for sawcut grooving the deck. The cost shall be included under the items requiring same, if required.

THE FOLLOWING IS ADDED:

The Department will make a payment adjustment for concrete surface requirement quality in deck slabs and approach, by the following formula:

$$\text{Pay Adjustment} = Q \times BP \times PR$$

Where:

BP = Bid Price

Q= Surface Requirement Lot Quantity

PR= percent reduction as specified in Table 507.03.02-2



## SECTION 509 – BRIDGE COMBINATION RAILING, MISCELLANEOUS RAILINGS AND FENCE

### 509.01 DESCRIPTION

THE ENTIRE SUBSECTION IS CHANGED TO:

This Section describes the requirements for constructing metal railing, fence, and guide rail on bridges. Metal railing includes metal railing components for combination traffic railing system, combination non-traffic railing system, non-traffic pedestrian or bicycle railing, ornamental railing and other railing not subject to vehicular impact.

#### 509.03.01 Bridge Railing

THE THIRD PARAGRAPH IS CHANGED TO WITHOUT PARTS 1 & 2:

Ensure that the railing is fabricated to allow for minor adjustments in both horizontal and vertical directions. Install 1 or 2-rail aluminum or steel railing on top of the concrete parapet as shown on the Plans. Install other types of metal railing on concrete sidewalk or deck as shown on the Plans. Do not use expansion type anchor bolts.

THE THIRD PARAGRAPH SUBPART 2 IS CHANGED TO:

2. **Adhesive Type.** Do not drill for installation until the concrete has cured for at least 14 days. Install adhesive anchors according to the manufacturer's recommendations. When drilling, ensure that spalling does not occur and existing utilities are not damaged. Repair damage to the existing concrete, utilities, and reinforcement steel as a result of drilling. Clean and dry drill holes before and during installation of the adhesive anchors.

#### 509.03.02 Chain-Link Fence for Bridge

THE ENTIRE SUBPART IS CHANGED TO:

At least 30 days before beginning the work, submit working drawings for certification. Indicate material specifications for adhesive, anchors, washers, and nuts on the working drawings.

Base the design embedment of the adhesive anchor bolts on a concrete compressive strength of 4000 pounds per square inch. Ensure that the embedment depth of the adhesive anchors shown on the working drawings is sufficient to obtain the required pullout strength as required for the proof load testing as specified in 908.01.04.

Do not use expansion type anchor bolts. Place anchors using one of the following:

1. **Cast-in-Place Type.** Set anchor bolts before placing concrete using a rigid template for each anchor assembly. When placing concrete, ensure that bolts do not move and spacing is maintained between the rigid templates. Ensure that the exposed threaded ends of the anchor bolts remain clean and protected from concrete. Clean the anchor bolts before installing the specified hardware.
2. **Adhesive Type.** Do not drill for installation until the concrete has cured for at least 14 days. Install adhesive anchors according to the manufacturer's recommendations. When drilling, ensure that spalling does not occur and existing utilities are not damaged. Repair damage to the existing concrete, utilities, and reinforcement steel as a result of drilling. Clean and dry drill holes before and during installation of the adhesive anchors.

Erect fencing as shown on the Plans.

### 509.04 MEASUREMENT AND PAYMENT

The Department will measure and make payment for Items as follows:

<i>Pay Item</i>	<i>Pay Unit</i>
CHAIN-LINK FENCE, GALVANIZED STEEL, BRIDGE, 6'-0" HIGH	LINEAR FOOT

THE FOLLOWING SECTION IS ADDED:

## **SECTION 517 – BRIDGE PLAQUE**

### **517.01 DESCRIPTION**

This Section describes the requirements for fabricating, furnishing, assembling, and erecting bronze plaques insured with text as directed by the RE.

This Section also describes the requirements for removing, refurbishing, and installing the existing bridge plaque.

### **517.02 MATERIALS**

Plaque is to be cast in one piece of statuary bronze. Background shall be in dark oxidized hard matted surface having a stippled appearance; borders and tops of letters to have a smooth, burnished finish. Concealed anchorage shall be 4-1/2" diameter threaded expansion type anchor bolts, non-corroding type.

### **517.03 CONSTRUCTION**

#### **517.03.01 Bridge Plaque**

Prior to constructing the Plaque, submit a full sized drawing of the plaque showing size and arrangement of letters for the approval of the RE. Block letters shall be used. Plaque having dimensions shown on the drawing shall be set in concrete at locations determined by the RE.

Remove the existing bridge plaque and have it refurbished to its original condition. Install the existing plaque in the concrete pylon as directed by the RE.

### **517.04 MEASUREMENT AND PAYMENT**

The Department will measure and make payment for Items as follows:

<i>Item</i>	<i>Pay Unit</i>
BRONZE BRIDGE PLAQUE	UNIT

## **DIVISION 600 – MISCELLANEOUS CONSTRUCTION**

### **SECTION 601 – PIPE**

#### **601.01 DESCRIPTION**

This Section is changed to:

This section describes the requirements for constructing storm drains for surface drainage, for constructing subbase outlet drains and underdrains, and for cleaning existing pipe.

#### **601.02 MATERIALS**

The following is added in the list:

Dense Graded Aggregate	901.10
Ductile Iron Water Pipe	909.02.08
Grout	903.08.02

#### **601.03 CONSTRUCTION**

##### **601.03.01 Pipe**

##### **B. Excavating**

The following is added to the second paragraph:

Excavate as specified in 202.03.03. Dispose of excess material as specified in 202.03.03-C. Dispose of removed materials and debris as specified in 201.03.01-H.

The following is added to the third paragraph:

Maintain the grade of the trench during excavation to provide positive drainage in the trench.

The second sentence of the last paragraph is changed to:

Do not leave trenches open overnight under any circumstances. Backfill and restore all trenches to its original condition:

##### **C. Bedding.**

The second sentence of the first paragraph is changed to:

Provide Class “C” bedding for storm drains. Use coarse aggregate No. 57 as specified in 901.03. Excavate trench at least six (6) inches below the bottom of storm drains along the full width of the trench to receive Class “C” bedding.

##### **D. Installing Pipe.**

The following is added:

Remove and replace storm drains damaged during installation. Remove and relay storm drains found to be out of vertical and horizontal alignment.

## E. Joining Pipe

The first paragraph is changed to:

Join all rigid pipes using flexible watertight gaskets as specified in AASHTO M 198. With RE approval the contractor may use other types of watertight joint material except mortar that is recommended by the pipe manufacturer.

The following is added to the fourth paragraph:

Avoid bumping the gasket and thus displacing it or covering it with dirt and other foreign materials. Remove and replace gasket if damaged or displaced. Align storm drain before joints are forced home. Support storm drain by a lifting equipment to maintain concentrically until the gasket is properly compressed in the joint space. Apply sufficient pressure in making the joint to assure that the joint is home. See evidence of a slight squeeze out of the gasket at the outside or inside of the pipe joint.

## F. Backfilling.

The first paragraph and second paragraph are changed to:

Backfill entire trench with dense graded aggregate as specified in 901.10.

Place dense graded aggregate backfill material symmetrically on each side of the pipe in lift not exceeding six (6) inches thick, loose measurement. Compact as follows:

1. Use vibratory plate compactors for dense graded aggregate backfill to two (2) feet above the top of the pipe.
2. May use a roller for dense graded aggregate backfill two (2) feet above the pipe.

## 601.03.04 Underdrain

## A. Excavating.

The last sentence of the third paragraph is changed to:

If the RE determines that the bottom of the trench is unstable, undercut as directed by the RE and backfill with Class "C" bedding.

The following is added under Subpart A.

Excavate as specified in 202.03.03. Dispose of excavated material as specified in 202.03.03-C and 201.03.01-H. Excavate a depth of six (6) inches below the invert grade of the underdrain and subbase outlet drain. Maintain the grade of the trench during construction to provide positive drainage in the trench.

## B. Installing.

The following is added under Subpart B.

Cut and trim subsurface drainage geotextile to meet required dimensions with sufficient size to provide an overlap of the underdrain pipe and backfill material.

## C. Backfilling.

The following is added under Subpart C.

Use coarse aggregate No. 57 as specified in 901.03.

#### 601.04 MEASUREMENT AND PAYMENT

The Department will measure and make payment for Items as follows:

<i>Pay Item</i>	<i>Pay Unit</i>
14"X23" ERCP STORM SEWER, CLASS IV	LINEAR FOOT
18" REINFORCED CONCRETE PIPE STORM SEWER, CLASS V	LINEAR FOOT
24" REINFORCED CONCRETE PIPE STORM SEWER, CLASS V	LINEAR FOOT
19"X30" ERCP STORM SEWER, CLASS IV	LINEAR FOOT

The following is added:

The Department will not measure flexible watertight gaskets, Class "C" bedding, subsurface drainage geotextile and cleaning existing pipes of the various sizes. The Department will not make payment for flexible watertight gaskets, Class "C" bedding, subsurface drainage geotextile and cleaning existing pipes of the various sizes.

The Department will not measure excavation and disposal of excavated, unusable, and unsuitable material from storm drain trenches. The Department will not make payment for excavation and disposal of excavated material, unusable, and unsuitable material from storm drain trenches.

## SECTION 602 – DRAINAGE STRUCTURES

602.01 DESCRIPTION

602.02 MATERIALS

602.03 CONSTRUCTION

602.03.02 Inlets and Manholes

The following is added under Subpart 1:

All precast bases shall be set on a six (6) inch bed of compacted coarse aggregate No. 57.

The heading and first four sentences under Subpart 2 are changed to:

2. Concrete Block Construction. Lay concrete block with staggered joints. Fill with mortar horizontal joints, concrete block vertical joints and concrete block key ways. Ensure that horizontal joints and vertical joints in concrete block are not more than 3/8 inch wide.

602.03.03 Setting Castings, Resetting Castings, and Reconstructing Inlets and Manholes

The following is added:

When surrounding existing pavement grade in the travelled way and shoulder is lower than inlet grate or manhole cover, construct hot mix asphalt surface course transition ramp, four (4) feet from the edge of the casting. Remove hot mix asphalt surface course transition ramp prior to placement of final hot mix asphalt surface course.

Return unused existing castings to Union County Public Works, Monroe, NJ.

### 602.04 MEASUREMENT AND PAYMENT

The Department will measure and make payment for Items as follows:

<i>Pay Item</i>	<i>Pay Unit</i>
RESET EXISTING CASTING	UNIT
CONCRETE HEADWALL	CUBIC YARD
INLET, TYPE B, 6" HEAD	UNIT
INLET, TYPE B, 8" HEAD	UNIT
MANHOLE, 4' SQUARE, STORM SEWER WITH CONVERSION	
MANHOLE FRAME AND COVER	UNIT
RECONSTRUCT MANHOLE	UNIT

#### THE FOLLOWING IS ADDED:

The Department will make payment for reinforcement steel in the CONCRETE BRIDGE APPROACH, CONCRETE WINGWALL, and CONCRETE HEADWALL under REINFORCEMENT STEEL, GALVANIZED as specified in 504.04.

The Department will not measure installation and removal of hot mix asphalt surface course transition ramp, coarse aggregate bedding No. 57 under precast structure, opening and closing temporary drainage openings into the drainage structures, and cleaning existing drainage structure.

The Department will not make payment for the installation and removal of hot mix asphalt surface course transition ramp, coarse aggregate bedding #57 under precast drainage structures, to provide opening and closing temporary drainage openings into the drainage structure, and cleaning existing drainage structure.

## SECTION 603 – SLOPE AND CHANNEL PROTECTION

603.01 DESCRIPTION

603.02 MATERIALS

The following is also added:

Materials shall conform to the requirements of appropriate articles of “Standard for Soil Erosion and Sediment Control in New Jersey” as revised and adopted July 2017, and the Standard Specifications for Road and Bridge Construction of the New Jersey Department of Transportation, 2019, as added to and amended. In case of conflict between the above mentioned requirements, the standard requiring the higher in terms of quality of materials and workmanship shall prevail.

### A. PVC COATED STONE FILLED GABIONS AND MATTRESSES

#### 1. GENERAL DESCRIPTION

The polyvinyl chloride (PVC) coated gabions/reno mattress shall be flexible zinc coated gabion/mattress of the type and sizes specified below. It is made of wire mesh of the type, size and selvages as specified in the following paragraphs. Each gabion/mattress may be divided by diaphragms into cells whose length shall not be greater than one and half times the width of the gabion/mattress.

Standard GABIONS/MATTRESSES shall be fabricated so as to be of a single unit construction-base, lids and sides shall be woven into a single unit and the ends connected to the base section in such a manner that strength and flexibility of the point of connection is at least equal to that of the mesh.

PVC coated gabions/mattresses shall be as manufactured by Maccaferri Gabions, Inc. or approved equal.

#### 2. MESH

The mesh shall be hexagonal woven mesh with the joints formed by twisting each pair of wires through three half turns. Because of their appearance, the joints are often termed triple twisted. The size of the mesh shall be of 8x10 type mesh. Nominal mesh size is 3-1/4 by 4-1/2 inches.

#### 3. WIRE

All wire used in the fabrication of the gabions/mattresses and in the wiring operations during construction for the Zinc Coating and Tensile Strength, shall be in accordance with the requirements of ASTM A 641-97 or latest edition, Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire, for galvanized wire, Class 3, soft temper, as measured before extrusion of the PVC

coating and fabrication of the netting. The **nominal** diameter of the wire used in the fabrication of the netting shall be 0.1063 inches.

The **nominal** diameter of the steel wire core, used in the fabrication of the netting, shall be 0.1063 inches with a PVC coating, extruded onto the wire core, having a **nominal** thickness of 0.02165 inches, with a minimum thickness of 0.015 inches. An overall **nominal** diameter of 0.1496 inches is obtained.

4. ELONGATION OF WIRE

Tests shall be made on the wire before coating with PVC and fabrication of the gabions/mattresses on a sample ten inches long. Elongation shall not be less than 12%, in accordance with the requirements of ASTM A 370-92 or latest edition.

5. ZINC COATING (GALVANIZING)

All wire used in the fabrication on the gabions/mattresses and in the wiring operations during construction shall be coated to ASTM A641-97 or latest edition for Zinc Coated (galvanized) carbon steel wire.

The minimum weight of the zinc coating shall be according to the figures shown in the table below when tested in accordance with ASTM A 90-81 or latest edition.

<u>Nominal Diameter of Wire</u>	<u>Minimum weight of coating</u>
0.0866 inches.....lacing wire.....	0.70 ozs./sq.ft.
0.1063 inches.....mesh.....	0.80 ozs./sq.ft.
0.1338 inches.....selvage.....	0.85 ozs./sq.ft.

The adhesion of the zinc coating to the wire should be such that, when wrapped around a mandrel in accordance with ASTM A 641-97 or latest edition, the zinc coating will not crack or flake to such an event that any zinc can be removed by rubbing with the bare fingers.

6. SELVEDGES

All edges of the PVC coated gabions/mattresses including end-panels and the diaphragms, if any, shall be mechanically selvaged in such a way as to prevent unraveling of the mesh and to develop the full strength of the mesh. The wire used for the selvedge shall have a diameter greater than that of the wire used to form the mesh, namely:

For the 8x10 type mesh, made of wire having a **nominal** core diameter of 0.1063 inches, the selvedge shall be of wire having a **nominal** diameter of 0.1338 inches or greater.



7. DIMENSIONS OF PVC COATED GABIONS/MATTRESSES

Standard PVC coated gabions shall have the following dimensions:

Nominal Length = 6 feet, 9 feet or 12 feet

Nominal Width = 3 feet

Nominal Height = 1 foot, 1 foot 6 inches or 3 feet

Standard PVC coated mattresses shall have the following dimensions:

Nominal Length = 9 feet or 12 feet

Nominal Width = 6 feet

Nominal Height = 6 inches, 9 inches or 12 inches

8. LACING WIRE

Sufficient lacing and connecting PVC coated wire shall be supplied with the gabions/mattresses for all wiring operations carried out in the construction of the gabion/mattress work.

The **nominal** diameter of lacing wire shall be 0.0866 inches and shall comply to the same specification as the wire used in the mesh.

a. FASTENERS

Rings can be used in lieu of lacing wire for assembly and installation operations of the Gabions/Mattresses. Rings supplied shall be stainless steel. The wire diameter of the rings shall be the same as the mesh. The wire used for the rings shall be in accordance with ASTM A 313 type 302, class I. Load tests shall conform to ASTM A 370-92 or latest edition. Tensile strength to be determined as per ASTM E 8/MTP 2004 or latest edition.

9. PVC COATING

All wire used in the fabrication of the gabions/mattresses and in the wiring operations during construction shall, after zinc coating have extruded onto it a coating of polyvinyl chloride, otherwise referred to as "PVC" The coating shall be grey in color of **nominal** thickness 0.02165 inches and shall nowhere be less than 0.015 inches in thickness. It shall be capable of resisting deleterious effects of natural weather exposure, immersion in salt water and shall not show any material difference in its initial characteristics which are:

a. INITIAL PROPERTIES OF PVC USED IN COATING

SPECIFIC GRAVITY

Shall be 1.30 to 1.35 kg/Dm<sup>3</sup>, in accordance with ASTM D 2287-92 or latest edition, Table 1 when tested as specified in ASTM D 792-91 or latest edition.

#### DUROMETER HARDNESS

Shall be 50 to 60 Shore D, in accordance with ASTM D 2287-92 or latest edition, Table 1 when tested as specified in ASTM D 2240-91 or latest edition (ISO 868 1985 or latest edition).

#### VOLATILE LOSS

At 105 degree C for 24 hours shall not be higher than 2%

At 105 degree C for 240 hours shall not be higher than 6% in accordance with ASTM D2287-92 or latest edition when tested as specified in ASTM D 1203-89 or latest edition (ISO 176-1976 or latest edition).

#### TENSILE STRENGTH

Shall not be less than 210 kg/cm<sup>2</sup> in accordance with ASTM D 412-92 or latest edition.

#### ELONGATION

Shall not be less than 200% nor higher than 280% in accordance with ASTM D 2287-92, when tested as specified in ASTM D 412-92 or latest edition.

#### MODULUS OF ELASTICITY AT 100% OF ELONGATION

Shall not be less than 190 kg/cm<sup>2</sup> when tested as specified in ASTM D 412-92 or latest edition.

#### RESISTANCE TO ABRASION

The loss of weight shall not be more than 0.19g in accordance with ASTM D 1242-92 or latest edition.

#### BRITTLENESS TEMPERATURE

Cold bend temperature shall not be higher than -30 degrees C in accordance with BSS 2782-151A(84)

Cold flex temperature shall not be higher than +15 degree C in accordance with BSS 2782-153A.

#### CREEPING CORROSION

Maximum penetration of corrosion of the wire core from a square cut end shall be 25mm when the specimen has been immersed for 2000 hours in a 50% SOLUTION HCl (hydrochloric acid 12 Be).

- b. Variation of the initial properties will be allowed, as specified hereunder, when the specimen is submitted to the following accelerate aging tests:

SALT SPRAY TEST

According to ASTM B 117-94 or latest edition  
Period of test - 3000 hours

EXPOSURE TO ULTRAVIOLET RAYS

According to ASTM D 1499-92a or latest edition and ASTM G 23-93 or latest edition using apparatus type E or as otherwise approved.  
Period of test: 3000 hrs. at 63 degrees C or as otherwise agreed.

EXPOSURE AT HIGH TEMPERATURE

According to ASTM D 1203-89 or latest edition, (ISO 176-1976 or latest edition), and ASTM D 2287-92 or latest edition  
Period of test = 240 hours at 105 degree C

After the above tests have been performed the P.V.C. compound shall show the following properties.

- c. PROPERTIES AFTER AGING TESTS

APPEARANCE OF COATED MESH

The vinyl coating shall not crack, blister or split and shall not show any remarkable change in color.

SPECIFIC GRAVITY

Shall not show change higher than 6% of its initial value.

DUROMETER HARDNESS

Shall not show change higher than 10% of its initial value.

TENSILE STRENGTH

Shall not show change higher than 25% of its initial value.

ELONGATION

Shall not show change higher than 25% of its initial value.

MODULUS OF ELASTICITY

Shall not show change higher than 25% of its initial value.

RESISTANCE TO ABRASION

Shall not show change of more than 10% of its initial value.

BRITTLENESS TEMPERATURE

Cold Bend Temperature Shall not be higher than -20 degree C

Cold Flex Temperature Shall not be higher than +18 degree C

10. DIAPHRAGMS

According to engineering requirements the gabions/mattresses incorporate diaphragms to form cells having a length not greater than one and half the width of the gabion/mattress.

11. TOLERANCES

a. WIRE

Tolerances on the diameter of all wire in the above clauses shall be permitted in accordance with ASTM A641-89 or latest edition Table 3 or latest edition.

b. GABIONS/MATTRESSES

Tolerances of (+/-) 5% on the width, height and length of the gabions/mattresses shall be permitted.

603.03 CONSTRUCTION

603.03.03 Riprap Stone Slope Protection

The following is added:

All slope protection shall be installed as per manufacturer's recommendations and at the locations shown on the plans and as directed by the engineer.

Details where required shall be provided by the contractor to the engineer for approval prior to construction.

Riprap stone slope or channel protection shall be constructed by placing riprap stones with their largest axis perpendicular to and in close contact to prepared slopes and/or channel bottoms upon which has been placed a layer of coarse aggregate size No. 57 and geotextile fabric. The minimum thickness of the rip-rap stone protection area shall be as indicated on the Contract Drawings.

The geotextile shall be positioned over the entire surface upon which the riprap is to be placed and extend a minimum of 12 inches out on each side. The extended edges of the geotextile fabric shall be buried under a minimum of 6 inches of soil. When sections of geotextile fabric need to be joined, the sections shall be overlapped a minimum of 18 inches in the direction of flow.

The coarse aggregate shall be laid on the geotextile in a manner which does not cause damage to or dislodge the geotextile.

The rip-rap stone fill shall be hard, durable, 4" to 7" angular in shape; resistant to weathering and to water action; free from overburden, spoil, shale and organic material; and shall meet the gradation requirements for the class specified. Neither breadth nor thickness of a single stone should be less than one-third its length. Rounded stone or boulders will not be accepted unless authorized by special provisions. Broken concrete, shale and stone with shale seams are not acceptable. The quarry stone shall have a size slightly larger than that of the gabion mesh, so as to have minimum percentage of voids. The stone fill to be utilized shall be approved by the manufacturer prior to the start of construction.

The riprap stones shall be firmly bedded into the coarse aggregate also without damage to the geotextile fabric. Open spaces between the placed riprap shall be filled with smaller stones of the same type and quality as the riprap stones. These smaller stones shall be firmly rammed into place. The larger of these stones shall be used in the lower courses.

The finished surfaces of the riprap stone slope or channel protection shall be even.

#### **603.04 MEASUREMENT AND PAYMENT**

The Department will measure and make payment for Items as follows:

The following subsection is added:

<i>Pay Item</i>	<i>Pay Unit</i>
RIPRAP STONE SLOPE PROTECTION, 18" THICK ( $D_{50}=9"$ )	SQUARE YARD
RIPRAP STONE CHANNEL PROTECTION, 18" THICK ( $D_{50}=9"$ )	SQUARE YARD
RIPRAP STONE CHANNEL PROTECTION, 36" THICK ( $D_{50}=9"$ )	SQUARE YARD

## **SECTION 604 – GABION WALLS**

604.01	DESCRIPTION
604.02	MATERIALS
604.03	CONSTRUCTION
604.04	MEASUREMENT AND PAYMENT

## **SECTION 605 – FENCES**

605.01	DESCRIPTION
605.02	MATERIALS
605.03	CONSTRUCTION
605.04	MEASUREMENT AND PAYMENT

## SECTION 606 – SIDEWALKS, DRIVEWAYS AND ISLANDS

606.01 DESCRIPTION

606.02 MATERIALS

The following is added on the list of materials:

Removable Cap Strip

Tack Coat 902.01

Joint Sealer 914.02

606.03 CONSTRUCTION

606.03.02 CONCRETE SIDEWALKS, DRIVEWAYS, AND ISLANDS

A. Underlayment Preparation:

The following is added under Subpart A

Provide a four (4) inch thick bedding of dense graded aggregate when the RE approved the depth of excavation and the material at the bottom of the excavation. Compact using the directed method as specified in 203.03.02.C. Backfill the undercut with dense graded aggregate.

D. Welded Wire Mesh.

The following is added under Subpart D

Use chairs and ties to support and maintain welded wire mesh in position during the placement of concrete.

E. Expansion Joints.

The first sentence under Subpart E is changed to:

Construct ½-inch wide expansion joints, placed at intervals of approximately eight (8) feet, with preformed joint filler and a cap strip in the top of expansion joints.

F. Placing Concrete

The first sentence is deleted and replaced with the following:

Obtain RE approval of the forms as described in 606.03.02.B and joint placement as described in 606.03.02.E before placing concrete.

The components of the ADA compliant curb ramp shall be poured separately, no monolithic pours. The slope of the components of the curb ramps, shall follow the Revised ADA Regulations implementing Title II, the 2010 ADA Standards for Accessible Design and the interim PROWAG. It is recommended that the curb ramp slope not exceed 7.5% and the turning spaces slope not exceed 1.5% in either the running slope or the cross slope. It is recommended that the turning spaces be constructed first.

H. Protection and Curing.

The last sentence is changed to:



Ensure vehicles and other loads are not placed on sidewalks, islands, and driveways until the concrete has attained compressive strength of 3000 pounds per square inch, as determined from 2 concrete cylinders field cured according to AASHTO T23.

The following Subpart J is added:

J. Weather Limitations.

Do not place concrete if it is precipitating. Do not place concrete when precipitation is imminent as determined by the RE. Do not place concrete when the ambient temperature is below 30°F or above 100°F. Do not pour concrete sidewalks, driveway, and islands between November 15<sup>th</sup> to March 15<sup>th</sup>.

The following subpart K is added:

K. ADA Compliant Curb Ramp Design and as-built Certification.

1. ADA Compliant Curb Ramp As-Built Certification.

An as-built plan and certification shall also be provided after installation of the ramps stating the curb ramp was installed in accordance with the Revised ADA Regulations implementing Title II and the 2010 ADA Standards for Accessible Design requirements. This certification shall include the as-built plan layout of each ramp and be signed by the contractor, and signed and sealed by a Professional Engineer registered in the State of New Jersey. The as-built shall show the same information listed as item a-n above. Any deviations in the information contained in the design certification shall be noted.

NJDOT standard curb ramp details shall not be allowed for plan layout.

A County representative shall not inspect the ramp until the ramp is completed and the as-built drawings and certification have been submitted to the Engineer. The Engineer shall then check the initial working drawing and as-built for compliance with the ADA regulations.

At the traffic signal curb ramps shall be coordinated with the traffic signal equipment to ensure accessibility of the traffic signal equipment and the intersection.

### 606.03.03 DETECTABLE WARNING SURFACES

Replace this Section with the following:

Detectable Warning Surfaces shall be of the type which can be set into uncured cast-in-place concrete. Glue/stick-on type warning surfaces shall not be allowed.

### 606.04 MEASUREMENT AND PAYMENT

The Department will measure and make payment for Items as follows:

<i>Pay Item</i>	<i>Pay Unit</i>
HOT MIX ASPHALT DRIVEWAY, 6" THICK, COMMERCIAL GRADE, COMPACT AND TOP DRESS WITH NJDOT NO. 57 TYPE STONE, UP TO 4" THICK	SQUARE YARD
	SQUARE YARD

THE FOLLOWING IS ADDED:

Contractor prepared ADA working drawings and as-built drawing with certification will not be measured separately.

Knee walls or similar will not be measured separately.

The following is added:

The Department will not measure dense graded aggregate, welded wire mesh, removable cap strip, expansion joints and joint sealer.

The Department will not make payment for dense graded aggregate, welded wire mesh, removable cap strip, expansion joints, and joint sealer.

Reject and replace concrete sidewalks, driveways, and islands if the following occur or exist.

- a. Staining and discoloration of the concrete.
- b. Sidewalks, driveways, and islands are out of horizontal and vertical alignment.
- c. Improper joints and improper broom finish.
- d. Protrude expansion joints and joint sealer above the surface of the concrete.
- e. Failure to install removable cap strip and joint sealer.
- f. Failure to request inspection prior to pouring the concrete.
- g. Improper vibration of the concrete and segregation of the concrete during its initial set.
- h. Vandalism occurs during its initial set.
- i. Occur chips, cracks, and other damage during construction period and maintenance period.
- j. Failure to comply with the Revised ADA Regulations implementing Title II and the 2010 ADA Standards for Accessible Design and interim PROWAG.

No separate payment shall be made for contractor prepared plans and certification. The cost of the Contractor retained Engineer, plans and certification shall be included in the unit prices of Concrete Sidewalk, reinforced, 4" thick and Concrete Driveways, reinforced 6" thick respectively as appropriate.

No separate payment will be made for knee walls or similar. The cost thereof shall be included in the unit prices of Concrete Sidewalk Reinforced 4" Thick and Concrete Driveways, Reinforced 6" Thick, respectively.

No payment will be made for any sidewalk which is part of an ADA ramp until the as-built plan and engineer's certification is submitted to the engineer and the ramp has been inspected and found to be in accordance with the as-built plan.

## **SECTION 607 – CURB**

607.01 DESCRIPTION

607.02 MATERIALS

The following is added to the list of materials:

Dense Graded Aggregate 901.10

607.03 CONSTRUCTION

607.03.02 Concrete Vertical Curb and Concrete Slopping Curb

A. Underlayer Preparation

The following is added to Subpart A.

Install a five (5) inch thick bedding of dense graded aggregate when the RE approves the depth of the excavation and the suitability of subgrade material at the bottom of the excavation. Compact using the directed method as specified in 203.03.02.C. Backfill the undercut with dense graded aggregate.

H. Weather Limitations.

The following Subpart H is added:

Do not place concrete when precipitation is imminent as determined by the RE. Do not place concrete when the ambient temperature is below 30°F or above 100°F. Do not pour curb between November 15<sup>th</sup> to March 15<sup>th</sup>.

### **607.04 MEASUREMENT AND PAYMENT**

The last paragraph is changed to:

The Department will measure curb along the face at the gutterline excepting the length of curb pieces of inlet castings.

The following is added:

The Department will not measure dense graded aggregate bedding placed under the curb.

The Department will not make payment for dense graded aggregate.

Reject and replace concrete curb if the following occur or exist.

- a. Staining and discoloration of concrete.
- b. Curb is out of horizontal and vertical alignment.
- c. Protrude preformed joint filler. Do not flush with the top and face of the curb.
- d. Improper finish of the top and the face of the curb.
- e. Cracks, chips, and other damage occur during construction period and maintenance period.
- f. Vandalism occurs during its initial set.
- g. Failure to request inspection prior to pouring the concrete.

- h. Improper vibration of the concrete and segregation of the concrete during placement.
- i. Settlement of the curb.
- j. Concrete Cradle is not provided at the compliant curb ramp.

The following Pay Item is added:

*Pay Item*

10" X 20" CONCRETE VERTICAL CURB

*Pay Unit*

LINEAR FOOT

## **SECTION 608 – NON-VEGETATIVE SURFACES**

608.01	DESCRIPTION
608.02	MATERIALS
608.03	CONSTRUCTION
608.04	MEASUREMENT AND PAYMENT

## **SECTION 609 – BEAM GUIDE RAIL**

609.01	DESCRIPTION
	The following is added:
	This section also describes the requirements for installing terminals and anchorages.
609.02	MATERIALS
609.03	CONSTRUCTION
609.03.03	Terminals and Anchorages
	The following is added:
	Use FLEAT 350 (Flared Energy Absorbing Terminal)
	Slotted Guide Rail Terminals as manufactured by Road Systems, Inc.
	Use SKT 350 Extruder Terminals as manufactured by Road Systems, Inc.
	Use CAT 350 Telescoping Guide Rail End Terminals as manufactured by Trinity Highway Safety Products, Inc.
	Use Brakemaster 350 Telescoping Guide Rail Terminals as manufactured by Energy Absorption Systems, Inc.
609.04	MEASUREMENT AND PAYMENT

## **SECTION 610 – TRAFFIC STRIPES, TRAFFIC MARKINGS, AND RUMBLE STRIPS**

610.01 DESCRIPTION

610.02 MATERIALS

610.02.02 Equipment.

The following is added to the list of equipment:

LTL-2000 Retroreflectometer

610.03 CONSTRUCTION

610.04 MEASUREMENT AND PAYMENT

This subsection is changed to:

The Department will measure and make payment for Items as follows:

*Pay Item*

TRAFFIC STRIPES, LONG LIFE, “THERMOPLASTIC”,  
4” WIDE, WITH GLASS BEADS

*Pay Unit*

LINEAR FOOT

## **SECTION 611 – CRASH CUSHIONS**

611.01	DESCRIPTION
611.02	MATERIALS
611.03	CONSTRUCTION
611.04	MEASUREMENT AND PAYMENT



## **SECTION 612 – SIGNS**

- 612.01 DESCRIPTION
- 612.02 MATERIALS
- 612.03 CONSTRUCTION
- 612.03.02 Regulatory and Warning Signs and Type GA “U” Post Support Guide Signs  
The following is added:  
Lay out the locations of all signs before installing to ensure proper placement.  
Obtain RE approval of sign locations before beginning installation operations.  
Confirm that the sign meets the requirements specified in 911.01.
- 612.04 MEASUREMENT AND PAYMENT

**THE FOLLOWING SECTION IS ADDED:**  
**SECTION 631 – ROADWAY TRENCH REPAIR**

**631.01 DESCRIPTION**

Provide all necessary labor, materials, and equipment to construct the trench repair as shown on the drawings or as directed by the Engineer, and as specified below and in other applicable sections of this specification.

The contractor is herein advised that the use of imported recycled material as an alternate backfill material is subject to the submission of gradation test results and acceptable TAL/TCL+30 test results indicating the material is acceptable for the intended use in accordance with NJDEP criteria and requirements. One set of test results per source shall be provided for every 1000 cubic yards of imported material provided that a minimum of one set of results is submitted per street. Further, any recycled material to be utilized must come from a State licensed recycling facility.

**631.02 CONSTRUCTION**

Do not leave trench openings open overnight under any circumstances. Make backfill in roadways with dense graded aggregate. Use suitable previously excavated materials for backfill in other areas unless otherwise shown on the plans.

Maintain the roadways where storm drains are installed in good serviceable condition, and immediately repair all abrupt depressions to the satisfaction of the Engineer.

Construct any necessary ditches or trenches to keep the site and the work sufficiently drained at all times during progress of the work.

Mechanically compact to the material's optimum density as shown on the construction detail drawings.

The contractor is herein advised that the Owner intends to utilize as much of the existing in-situ granular soils as possible and accordingly, the work shall consist of the segregation of portions of the excavated material to optimize the reuse of these granular soils. The contractor is specifically directed not to backfill with clayey or silty soils. Where these soils are encountered, segregate these soils from the granular material and dispose of at approved locations.

The contractor is further advised that the work also includes the drying of the excavated saturated granular soils, if necessary, and that compensation for this work should be included in the prices bid for the various items included in the bid form and requiring the same.

Where unsuitable soils are encountered, furnish and install backfill materials as specified in other applicable sections of these specifications and on the construction details.

The maximum payment width for the imported backfill materials utilized for trench backfill shall be 6 feet. Should additional select fill beyond the 6' payment width be required due to the contractor's methods or operations, the cost for this material will be borne by the contractor and no compensation for same will be made.

The work under this section also requires the contractor to protect all existing structures adjacent to the proposed construction areas. He shall also be required to monitor the stability of potentially affected structures and to implement any corrective measures necessary if stability of said structures is affected. The contractor is also encouraged to make indoor inspections, where deemed necessary, and to take preconstruction photos of these structures prior to the commencement of work.

The contractor is specifically advised that no separate payment for dewatering shall be made and that dewatering may include in trench dewatering, well points, deep wells and/or whatever methods are necessary to adequately maintain the groundwater level at a minimum of 2' below the prevailing excavation bottom during the pipe installation and backfill. Payment for dewatering shall be included in the prices bid for the various items included in the bid form and requiring same.

#### 631.02.01 TEMPORARY TRENCH REPAIR

Construct temporary trench repair prior to the end of each working day following the installation of the proposed sanitary sewer mains and laterals. Temporary trench repair shall consist of the construction of 2" of hot mix asphalt 9.5M64 surface course on top of the compacted trench backfill. Construct the temporary trench repair such that the finished surface matches the existing elevation of the adjacent pavement.

Continuously maintain the trench area as directed by the owner or Engineer at no additional cost until such time as the roadway is to be excavated in accordance with the plans. At that time, excavate the roadway, re-compact the trench area, and install the roadway pavement section.

#### 631.02.02 ROADWAY TRENCH REPAIR

Roadway trench repair shall consist of the construction of dense graded aggregate base course and hot mix asphalt 19M64 base course, at the thicknesses indicated on the construction plans and details. The roadway trench repair shall be constructed on top of the compacted trench backfill, and the finished surface shall match the existing elevation of the adjacent pavement.

631.03 MEASUREMENT AND PAYMENT

Measurement and payment will be made under:

<i>Pay Item</i>	<i>Pay Unit</i>
TEMPORARY TRENCH REPAIR	SQUARE YARD
ROADWAY TRENCH REPAIR	SQUARE YARD

Payment for roadway trench repair and temporary trench repair in accordance with the contract drawings shall include all work as outlined above and required to satisfactorily complete same.

Payment for trench repair shall be based on a maximum payment width of six (6) feet.

Bidders are advised that prior to the end of each working day, all open trenches must be backfilled and repaired. If permanent or temporary pavement is unavailable, then 6" of NJDOT Type 57 stone shall be installed in the trench until the asphalt is available subject to the approval of the Engineer; however, in no case shall the trench be left unrepaired, without asphalt, for more than 48 hours. Compensation for the 6" Type 57 stone, if required, shall be included under the prices bid for temporary trench repair.

Measurement and payment for imported backfill shall be made based on the in-place cubic yardage actually installed, compacted, and measured in place by the Engineer or his authorized representative.

The maximum payment width for the imported backfill materials utilized for trench backfill shall be 6 feet. Should additional select fill beyond the 6 feet payment width be required due to the contractor's operations or methods, the cost for this material will be borne by the contractor and no compensation for same will be made.

Payment for HMA pavement milling shall be made in accordance with Section 401.

Separate payment will not be made for segregating, drying, installing and compacting excavated materials from the site that are utilized for backfill.

Payment for hot mix asphalt surface course with the exception of temporary trench repair shall be made in accordance with Section 401.

## **DIVISION 650 – UTILITIES**

### **SECTION 651 – WATER**

### **SECTION 652 – SANITARY SEWERS**

### **SECTION 653 – GAS**

## **DIVISION 800 – LANDSCAPING**

### **SECTION 801 – SELECTIVE VEGETATION REMOVAL**

801.01 DESCRIPTION

801.02 MATERIALS

801.03 CONSTRUCTION

THE FOLLOWING SUBPART IS ADDED

801.03.03 Application of Herbicides

Comply with the requirements and procedures of N.J.A.C. 7:30-1 Et. Seq. for the application of herbicides.

801.04 MEASUREMENT AND PAYMENT

THIS SUBSECTION IS CHANGED TO:

The Department will not measure and will not make payment for SELECTIVE THINNING AND SELECTIVE TRIMMING.

## **SECTION 802 – TRIMMING AND REMOVING TREES**

802.01 DESCRIPTION

802.02 MATERIALS

802.03 CONSTRUCTION

802.03.01 Trimming Existing Trees

THE FOLLOWING IS ADDED THIS PART.

Comply the requirements and procedures of N.J.A.C. 7:30-1 Et. Seq. for the application of herbicides.

Remove trees and shrubs that interfere with the construction of the various items. Backfill stump holes with Dense Graded Aggregate within proposed pavement area, curb and sidewalk areas.

802.04 MEASUREMENT AND PAYMENTS

THIS SUBSECTION IS CHANGED TO:

The Department will not measure and will not make payment for TRIMMING AND REMOVAL OF TREES. The Department will include payment for these items under Item CLEARING SITE. The Department will not measure and will not make payment for Dense Graded Aggregate.

## **SECTION 803 – PREPARATION OF EXISTING SOIL**

803.01	DESCRIPTION
803.02	MATERIALS
803.03	CONSTRUCTION
803.04	MEASUREMENT AND PAYMENT

THIS SECTION IS CHANGED TO:

The Department will not measure and will not make payment for PREPARATION OF EXISTING SOIL.



## **SECTION 804 – TOPSOIL SPREADING**

### **804.01 DESCRIPTION**

This Section is Changed to:

This section describes the requirements for preparing, screening and placing topsoil stripped from the project site if deemed acceptable for use as topsoil. This Section also describes the requirement for preparing, screening and placing topsoil imported from off-site approved sources.

### **804.02 MATERIALS**

### **804.03 CONSTRUCTION**

#### **804.03.01 Topsoil Spreading**

THE FOLLOWING IS ADDED TO SECOND PARAGRAPH:

If on-site stripped topsoil is deemed acceptable, screen first the stripped topsoil to remove all stones larger than ½ inch or larger in any dimension and other debris such as tree roots, clods, lumps, wires, cables, piece of concrete, piece of asphalt and other deleterious substances. Add pulverized limestone at the rate of 100 lbs. per 1,000 square feet to all screened topsoil, on-site and off-site. Bring screened topsoil in excess of that obtained from stripping.

### **804.04 MEASUREMENT AND PAYMENT**

## **SECTION 805 – TURF REPAIR STRIP**

805.01	DESCRIPTION
805.02	MATERIALS
805.03	CONSTRUCTION
805.04	MEASUREMENT AND PAYMENT

## SECTION 806 – FERTILIZING AND SEEDING

806.01 DESCRIPTION

806.02 MATERIALS

The following is added:

Seed Mixture Type “G”			
Kind of Seed	Minimum Purity %	Minimum Germination %	Application Rate pounds/acre
‘Millennium’ Tall Fescue	95	80	150
‘Brooklawn’ Kentucky Bluegrass	95	85	50
‘Manhattan 4’ Perennial Rye	95	85	50
Total			250 pounds/acre

Seed Mixture Type “G” is available through F.M. Brown’s Sons, Inc., 205 Woodrow Avenue, P.O. box 2116, Sinking Springs, PA 19608, telephone 800-345-3344, fax 610-678-7023, or approved equal. Tags and/or identification slips clearly denoting the mix shall be supplied to the Project Landscape Architect before sowing.

806.03 CONSTRUCTION

806.03.01 Fertilizing and Seeding

THE FIRST SENTENCE OF SUBPART “C” OF THIS PART IS CHANGED TO:

### C. Seed and Fertilizer Application

Sow grass seed mixtures at the rate of 250 pounds per acre.

The following is added:

Turf Seeding Mixture Type “G” shall be placed near the conclusion of construction and shall be accomplished via slit or drill seeder methods only. The seeds shall then be very lightly covered with screened topsoil, to a depth of no more than two to three times the diameter of the seed, or 1/8” maximum.

Finished seeded areas shall be smooth and shall conform to the prescribed lines and elevations. All seeded areas shall be mulched with straw, free from any weed seeds whatsoever, and held in place with a binder, both as specified in 811.02 and 811.03 of the Standard Specifications. Hay shall not be utilized.

806.04 MEASUREMENT AND PAYMENT

## **SECTION 807 – TOPSOIL STABILIZATION**

807.01	DESCRIPTION
807.02	MATERIALS
807.03	CONSTRUCTION
807.04	MEASUREMENT AND PAYMENT

## **SECTION 808 – SODDING**

808.01	DESCRIPTION
808.02	MATERIALS
808.03	CONSTRUCTION
808.04	MEASUREMENT AND PAYMENT

## **SECTION 809 - MULCHING**

809.01                      DESCRIPTION

809.02                      MATERIALS

THE FOLLOWING IS ADDED:

The Contractor is directed to match the existing mulch that is disturbed in kind, including color of existing mulch in landscape areas.

809.03                      CONSTRUCTION

809.04                      MEASUREMENT AND PAYMENT

## **SECTION 810 – MOWING**

810.01 DESCRIPTION

810.02 MATERIALS

810.03 CONSTRUCTION

810.04 MEASUREMENT AND PAYMENT

THIS SUBSECTION IS CHANGED TO:

The Department will not measure and will not make payment for  
MOWING.

## SECTION 811 – PLANTING

811.01 DESCRIPTION

811.02 MATERIALS

811.03 CONSTRUCTION

811.03.01 Planting.

E. Excavation for Plant Pits and Beds.

THE LAST SENTENCE OF THE SECOND PARAGRAPH IS CHANGED TO:

Obtain RE approval before reusing topsoil from the excavated pits.

I. Watering.

THE FIRST PARAGRAPH IS CHANGED TO:

Water plants with sufficient frequency and quantity to ensure that the soil surrounding the root system remains moist but not saturated.

O. Wrapping.

Wrap all deciduous trees more than 2 inches in caliper. Wind burlap wrapping material or creped kraft paper from ground line to six (6) inches above the lowest main branches. Tie wrapping material at the bottom and at the top and at maximum 24-inches intervals between. Wrap within 4 days after planting but not before the condition of the trunks has been inspected by the RE.

THE FOLLOWING IS ADDED

811.03.03 Live Branch Cuttings

Live branch cuttings are sections of branches without twigs or leaves that may be pounded directly into very soft soil. Pilot holes must be made in harder soils. For installation by hand, it is recommend stakes be  $\frac{3}{4}$ -1½ inches diameter (over the entire length) and 2 to 5 feet long, depending on the application.

THE FOLLOWING IS ADDED

811.03.04 Replacement Trees, Shrubs & Perennials

Replacement Trees should be replaced if and where directed by the homeowner and should include but not be limited to:



*October Glory Red Maple*

*White Pine Trees*

*Northern red Oak Trees*

*Redspire Pear Trees*

Replacement Shrubs should be replaced if and where directed by the homeowner and should include but not be limited to:

*Japanese Yew*

*California Privet Hedges*

Replacement Perennials should be replaced if and where directed by the homeowner and should include but not be limited to:

*Hosta, Empress Wu*

*Hosta, First Frost*

*Hosta, Dancing Stars*

811.04

#### MEASUREMENT AND PAYMENT

THE FOLLOWING IS ADDED TO THIS SUBSECTION:

The Department will not measure and will not make payment for initial and weekly watering of the plants.

## **DIVISION 900 – MATERIALS**

### **SECTION 901 – AGGREGATES**

#### **901.10 DENSE-GRADED AGGREGATE (DGA)**

##### **901.10.02 RECYCLED CONCRETE AGGREGATE (RCA)**

THIS PART IS DELETED

##### **901.10.03 VIRGIN AND RAP MIXTURE**

THIS PART IS DELETED

## **SECTION 902 - ASPHALT**

## **SECTION 903 – CONCRETE**

### **903.03.05 Control and Acceptance Testing Requirements**

#### **E. Acceptance Testing for Strength for Pay-Adjustment Items.**

Concrete Items which are subject to pay adjustment and the base prices are as follows:

## **SECTION 904 – PRECAST AND PRESTRESSED CONCRETE**

## **SECTION 905 – REINFORCEMENT METALS**

## **SECTION 906 – STRUCTURAL STEEL**

## **SECTION 907 – BEARING ASSEMBLIES**



## **SECTION 908 – BOLTS AND BOLTING MATERIAL**

## **SECTION 909 – DRAINAGE**

## **SECTION 910 – MASONRY UNITS**

## **SECTION 911 – SIGNS, SIGN SUPPORTS, AND DELINEATORS**

## **SECTION 912 – PAINTS, COATINGS, TRAFFIC STRIPES, AND TRAFFIC MARKINGS**

## **SECTION 913 – GUIDE RAIL, FENCE, RAILING AND BOX BEAM**

## **SECTION 914 – JOINT MATERIALS**

### **914.02 JOINT SEALER**

THE FOLLOWING IS ADDED:

Use Sikaflex-1A, Gray 1-component high performance polyurethane sealant, as manufactured by Sika Chemical Core of Lyndhurst, New Jersey or approved equal for sealing joints in concrete sidewalk

## **SECTION 915 – TIMBER AND TIMBER TREATMENT**



## **SECTION 916 – POLYMER STRUCTURAL MEMBERS**

## **SECTION 917 – LANDSCAPING MATERIALS**

### **917.08 PLANT MATERIALS**

#### **H. Inspection.**

Notify the RE at least 7 days in advance of delivery to the Project Limits for installation.

## **SECTION 918 – ELECTRICAL MATERIALS**

## **SECTION 919 – MISCELLANEOUS**

### **919.14 DETECTABLE WARNING SURFACE**

REPLACE THIS SECTION WITH THE FOLLOWING:

The cast-in-place tile with truncated domes is to fully comply with the Revised ADA Regulations implementing Title II and the 2010 ADA Standards for Accessible Design, and OSHA requirements for dome size, spacing and color.

## **DIVISION 1000 – EQUIPMENT**

### **SECTION 1001 – TRAFFIC CONTROL EQUIPMENT**

THE FOLLOWING SUBSECTION IS ADDED:

#### **1001.04 PORTABLE VARIABLE MESSAGE SIGN WITH REMOTE COMMUNICATION**

THE ENTIRE SUBSECTION IS CHANGED TO:

Provide a NTCIP compliant portable variable message sign as described under 1001.02 with the exceptions noted below and each equipped with broadband cellular modem.

Ensure that the sign panel is color full matrix model that displays a combination of letters and graphic images.

Ensure that the sign panel is capable of displaying three lines of text with variable size characters.

Ensure nine characters are displayed per line for posting travel times. For this nine character requirement, smaller size characters may be allowed that meets MUTCD guidelines.

Ensure that the panel is also capable of displaying eight (8) characters per line with a minimum character height of eighteen (18) inches.

Ensure that the PVMSRC can be integrated with the Department's central DMS control software for remote operation.

#### **1001.05 PORTABLE TRAILER MOUNTED CCTV CAMERA ASSEMBLY**

Provide a Portable Trailer Mounted CCTV Camera Assembly (PTMCCA) with the following:

##### **A. Trailer Platform**

1. Maximum size, including tongue, 14 feet long by 7 feet wide by 8 feet high.
2. NJDOT approved lighting package to include electrical brake and marker lights with wire connections.
3. Primed and painted with powder coated orange color.
4. Fitted with manual telescoping outriggers with adjustable jacks sized to counter full mast extension.
5. Four 3500 pounds, drop leg, top wind screw jacks.
6. All equipment secured to prevent theft or separation from platform.
7. 24/7 operation in all weather conditions.
8. One locking NEMA-4 equipment box for operational controls.
9. Removable wheels (with wheel locks) when trailer is in deployed position.
10. Operation manual with a copy placed in the storage bin.

##### **B. Mast**

1. 150 pounds payload capacity.
2. 29 feet to 32 feet of extension with capability to mount antenna at 20 feet, 25 feet or at the top, 10 feet maximum nested length of mast - 3 to 9 sections.
3. Un-guyed.
4. Driven by galvanized steel cable.
5. Spiral conduit for cables.
6. Compactly retractable when nested into storage container at the bottom & foldable for easy transport.

7. Operated by a power winch with a safety brake.
8. Capable of being raised or lowered during sustained wind speeds of 30 miles per hour.

**C. Power Source**

Equip the PTMCCA with either a diesel charged or a solar charged battery system. Ensure that the PTMCCA is also capable of operating on 120-volt AC electrical service. The Department may require a solar charged battery system in noise sensitive areas. Provide the power with a battery back up system capable of providing continuous operation when the primary power source fails. Ensure that the power source meets the following requirements:

1. Diesel. Ensure that the fuel tank is capable of operating the sign for a period of 72 hours without refueling. Equip with an exhaust muffler and a United States Department of Forestry approved spark arrester. Ensure that the engine is shock mounted to reduce vibration and locked in a ventilated enclosure.
2. Solar. Provide solar panels capable of recharging the batteries at a rate of 4 hours of sun for 24 hours of camera usage. Ensure that the battery capacity is capable of operating the sign for a period of 18 days without sunlight.

**D. Electronics**

1. Cellular (CDMA), microwave, or 802.11 bandwidth option.
2. Work lights in all cabinets.
3. Remote trailer diagnostics (battery level, charging output, etc.).

**E. Camera and Software**

Ensure that the camera has the following characteristics:

1. Dome Camera in a heavy duty plastic dome or with a weather resistant case.
2. Impact resistant viewing window.
3. Minimum resolution of NTSC 704 (H) x 480 (V).
4. Backlight compensation.
5. Image stabilization.
6. Light Sensitivity 0.02 lux NIR Mode.
7. Auto Focus with Manual Focus capability.
8. Auto White Balance with Manual White Balance capability.
9. Motorized Zoom up to 16x optical, 10x digital.
10. Motorized Pan-Tilt, pan 360°, tilt 180°.
11. Thermostatically controlled heater and defroster -50° to 140°F operating range.
12. Windshield wiper.
13. 24/7 operation in all weather conditions.
14. Time and date stamp.

Ensure the software provides the following functionality:

1. Remote control of pan, tilt and zoom.
2. Display of streaming video in MPEG format, motion-JPEG, and single snapshot JPEG images, remotely interchangeable by using central software.

3. Preset controls of pan/tilt/zoom combinations. Ensure all presets are accessible from a drop-down menu with descriptive name of preset. Set first 8 presets with quick-launch icons with graphical representation of the preset views.
4. Display of all the project's web cams in a single view screen.
5. Display of local time and weather conditions including temperature and humidity.
6. Saving images and sending e-mail images.
7. Viewing archived images via a graphical calendar control and storing archived images at least every five minutes.
8. Three levels of password protection: administrator, user, and guest, individual user accounts.
9. Monitoring and controlling the cameras using web access.

## **SECTION 1002 – COMPACTION EQUIPMENT**

## **SECTION 1003 – HMA SITE EQUIPMENT**

## **SECTION 1004 – PILE DRIVING EQUIPMENT**

## **SECTION 1005 – CONCRETE SITE EQUIPMENT**

## **SECTION 1006 – CONCRETE PAVEMENT REHABILITATION EQUIPMENT**

## **SECTION 1007 – TRAFFIC STRIPING EQUIPMENT**

## **SECTION 1008 – MISCELLANEOUS EQUIPMENT**

## **SECTION 1009 – HMA PLANT EQUIPMENT**

## **SECTION 1010 – CONCRETE PLANT AND MIXING EQUIPMENT**

## **SECTION 1011 – PRECAST AND PRESTRESSED CONCRETE PLANT EQUIPMENT**

## **SECTION 1012 – PAVEMENT SURFACE TREATMENTS EQUIPMENT**

# **PLAN SET**



COUNTY OF UNION  
BOARD OF COUNTY COMMISSIONERS  
PLANS FOR  
**LOWER ROAD MINOR BRIDGE (Li-63) REPLACEMENT**  
LOCATED IN  
CITY OF LINDEN  
UNION COUNTY, NEW JERSEY

UNION COUNTY ENGINEERING PROJECT #2017-026

AUGUST 2020

REVISED MARCH 2021

REVISED NOVEMBER 2023

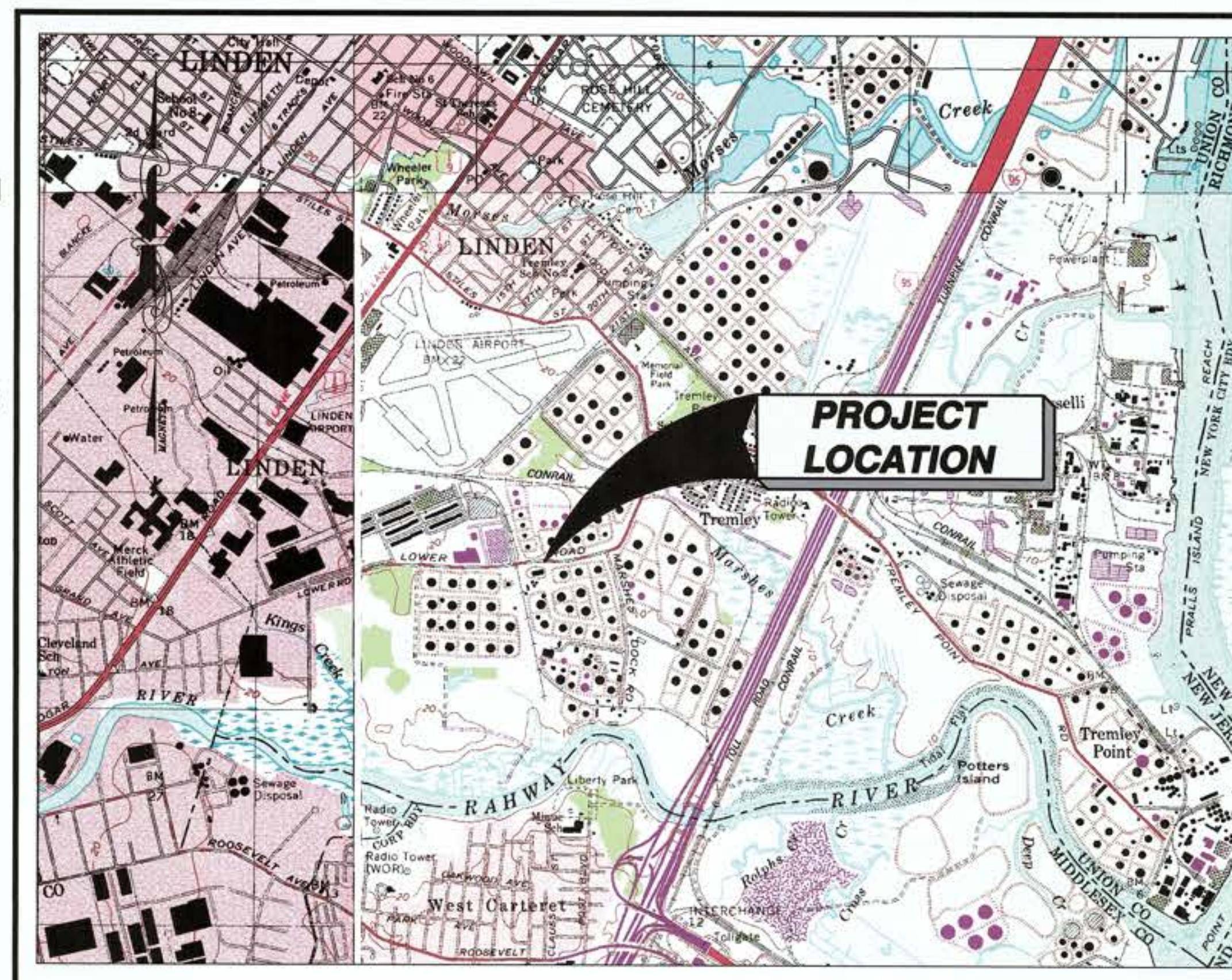
REVISED JUNE 2024

PREPARED BY: CME ASSOCIATES OF PARLIN, NJ

**INDEX OF DRAWINGS**

**SHEET No. DESCRIPTION**

1. TITLE SHEET
2. ESTIMATE - DISTRIBUTION OF QUANTITIES
3. LEGEND, GENERAL NOTES AND TYPICAL SECTION
4. EXISTING CONDITIONS & SURVEY CONTROL PLAN
5. SOIL EROSION & SEDIMENT CONTROL NOTES AND DETAILS
6. CONSTRUCTION AND SOIL EROSION & SEDIMENT CONTROL PLAN
7. GRADING PLAN
8. PROFILE
9. CROSS SECTIONS AND CRITICAL CROSS SECTIONS
10. LOWER ROAD FULL BRIDGE CLOSURE NORTHBOUND DETOUR PLAN
11. LOWER ROAD FULL BRIDGE CLOSURE EASTBOUND DETOUR PLAN
12. LOWER ROAD FULL BRIDGE CLOSURE SIDE STREET DETOUR PLAN
13. CONSTRUCTION DETAILS
14. STRIPING PLAN
15. GENERAL STRUCTURAL NOTES
16. EXISTING GENERAL CULVERT PLAN, DEMOLITION PLAN & SECTIONS
17. PROPOSED GENERAL CULVERT PLAN AND ELEVATIONS
18. CULVERT, WINGWALL, DECK AND APPROACH SLAB SECTIONS & DETAILS
19. CULVERT SECTIONS AND DETAILS
20. CULVERT PLAN AND SECTION
21. REINFORCING BAR SCHEDULE, ELEVATIONS, SECTIONS AND PLAQUE DETAILS
22. MISCELLANEOUS STRUCTURAL DETAILS
23. LOGS OF TEST BORINGS



**KEY MAP**

N.T.S.

NEW JERSEY DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF 2019 AND ALL AMENDMENTS IN THE UNION COUNTY FORMAT THERETO SHALL GOVERN.  
THE HEADING OF THE ARTICLES CONTAINED HEREIN CONFORM TO THE NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, DATED 2019 AND ALL ADDENDA THERETO, WHICH IS TO BE USED IN THE EXECUTION OF THIS CONTRACT.  
THE NEW JERSEY DEPARTMENT OF TRANSPORTATION "STANDARD ROADWAY CONSTRUCTION/TRAFFIC CONTROL/BRIDGE CONSTRUCTION DETAILS" BOOKLET DATED OCTOBER 2016 TO GOVERN, EXCEPT FOR THOSE DETAILS CONTAINED HEREIN.

**UTILITIES**

**GAS**  
MR. ANDREW MEYER  
ENBRIDGE  
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MORRISTOWN, NJ 07960  
(973) 644-2640

**GAS**  
MR. ANTHONY JOYNER  
BUCKEYE  
2650 MARSHES DOCK ROAD  
LINDEN, NJ 07036  
(908) 374-5320

**GAS**  
MR. GREG BALINT  
ELIZABETHTOWN GAS  
520 GREEN LANE  
UNION, NJ 07083  
(908) 662-8321

**GAS**  
MR. WILLIAM ESKUCHEN  
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**GAS**  
MR. ROBERT MIECZKOWSKI  
IMTT PIPELINE  
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BAYONNE, NJ 07002  
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NJ AMERICAN WATER COMPANY  
1341 NORTH AVENUE  
PLAINFIELD, NJ 07061  
(908) 791-3449

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PSE&G - ELECTRIC  
472 WESTON CANAL ROAD  
SOMERSET, NJ 08873  
(732) 764-3161

**TELEPHONE/COMMUNICATIONS**  
MR. IAN CHAN  
VERIZON COMMUNICATIONS  
999 W MAIN STREET  
FREEHOLD, NJ 07728  
(732) 683-5146

**SEWER & STORM SEWER**  
MR. STEVEN BRODMAN  
ENGINEERING DEPARTMENT,  
CITY OF LINDEN  
301 NORTH WOOD AVENUE  
LINDEN, NJ 07036  
(908) 474-8475

**NJ ONE CALL SERVICE**  
1-800-272-1000

**APPROVALS**

DATE	DEREK ARMSTEAD MAYOR CITY OF LINDEN
DATE	NICHOLAS J. PANTINA, P.E. CITY ENGINEER CITY OF LINDEN
DATE	RICARDO MATIAS, P.E. COUNTY ENGINEER UNION COUNTY
DATE	EDWARD OATMAN COUNTY MANAGER UNION COUNTY

**CME ASSOCIATES**  
CONSULTING AND MUNICIPAL ENGINEERS  
3901 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859  
5400 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731  
**MICHAEL J. McCLELLAND P.E.**  
NEW JERSEY PROFESSIONAL ENGINEER  
UC 32468

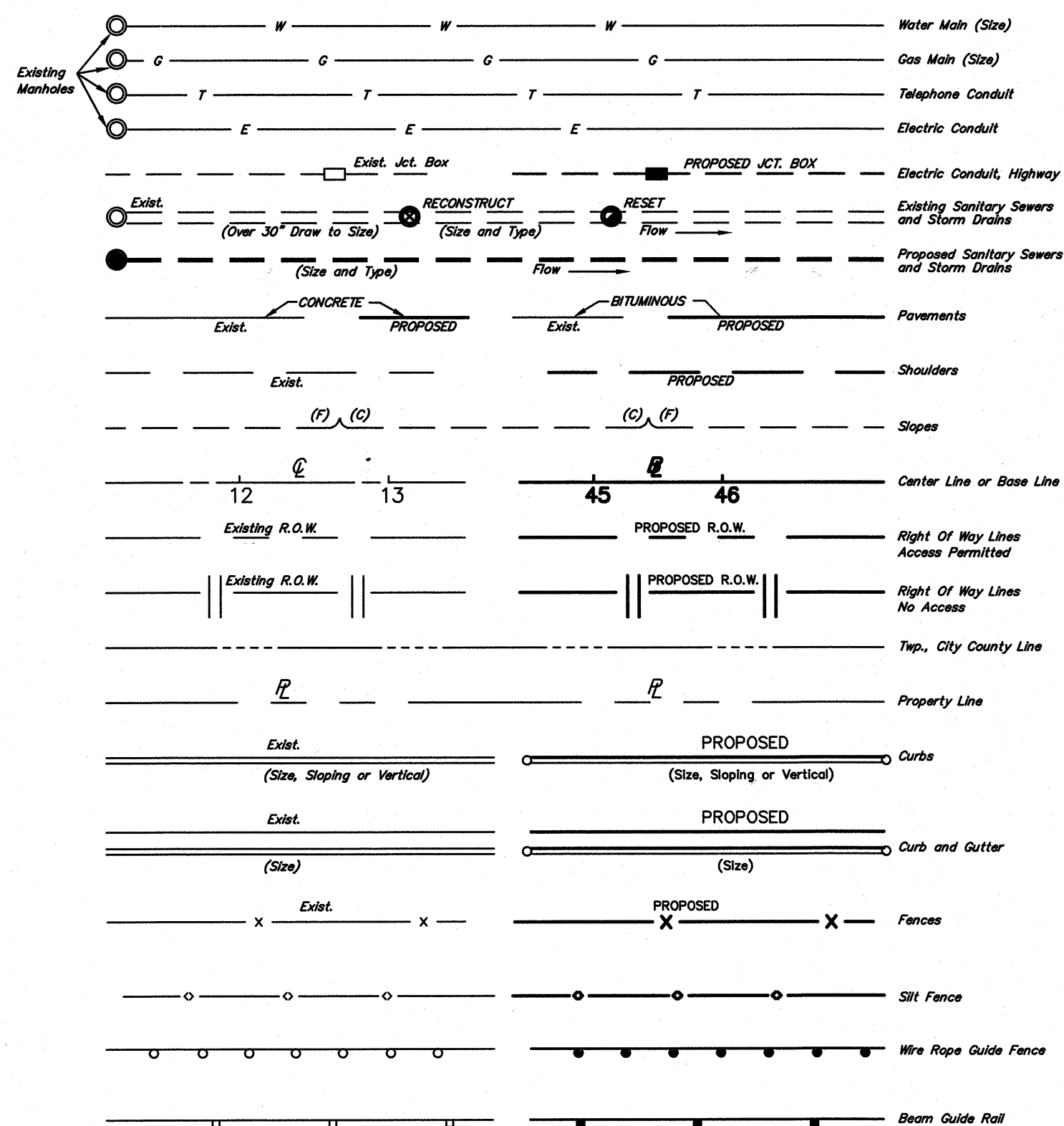
DATE 8.10.20

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PUN00622.01

## STANDARD LEGEND



PROPOSED

RESET HEAD

Exist.

RECONSTRUCT

Inlets (B or E)

RESET EXISTING CASTING

NEW MANHOLE HEAD, SQUARE FRAME, CIRCULAR COVER

RECONSTRUCT MANHOLE

Cast Iron Extension Frame For Existing Inlet

NOTE: Curb pieces for Inlets, Type B are 6" unless otherwise indicated.

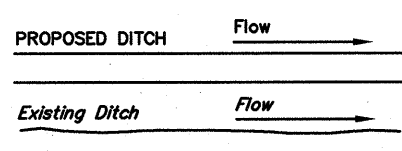
NEW MONUMENT

Existing Monument

Scalping Pavement

Pavement Excavation, DGA Base Course, HMA Base Course and HMA Surface Course

Pavement Milling and HMA Surface Course



Hot Mix Asphalt

Concrete Sidewalk/Driveway

Building to be Removed and Paid for Under Clearing Site

Temporary Trench Repair

Grade, Compact, and Top Dress with NDOT No.57 Type Stone, up to 4" Thick

Removal of Pavement up to 12" Deep, 4" Thick DGA Base Course, NDOT No.57 Type Stone

B.M.

Demolition No. & Parcel No. of Building to be Demolished

Test Pit Symbol

Boring Symbol

Deciduous Trees (Size, Kind)

Bush

Evergreens

Hedges

Proposed Traffic Signal

Probing

Water Gate Valve

Gas Gate Valve

Pole No. & Type (Guy, Light, Etc.)

Hydrant

Existing Traffic Signal

Traffic Control Box

Exist. R.C. End Sect. or C.M. Headwall

Prop. R.C. End Sect. or C.M. Headwall

Exist. Headwall

Proposed Headwall

Exist. Headwall & Apron

Prop. Headwall & Apron

Bridge Approach Slabs and Transition Slabs

High Point

Low Point

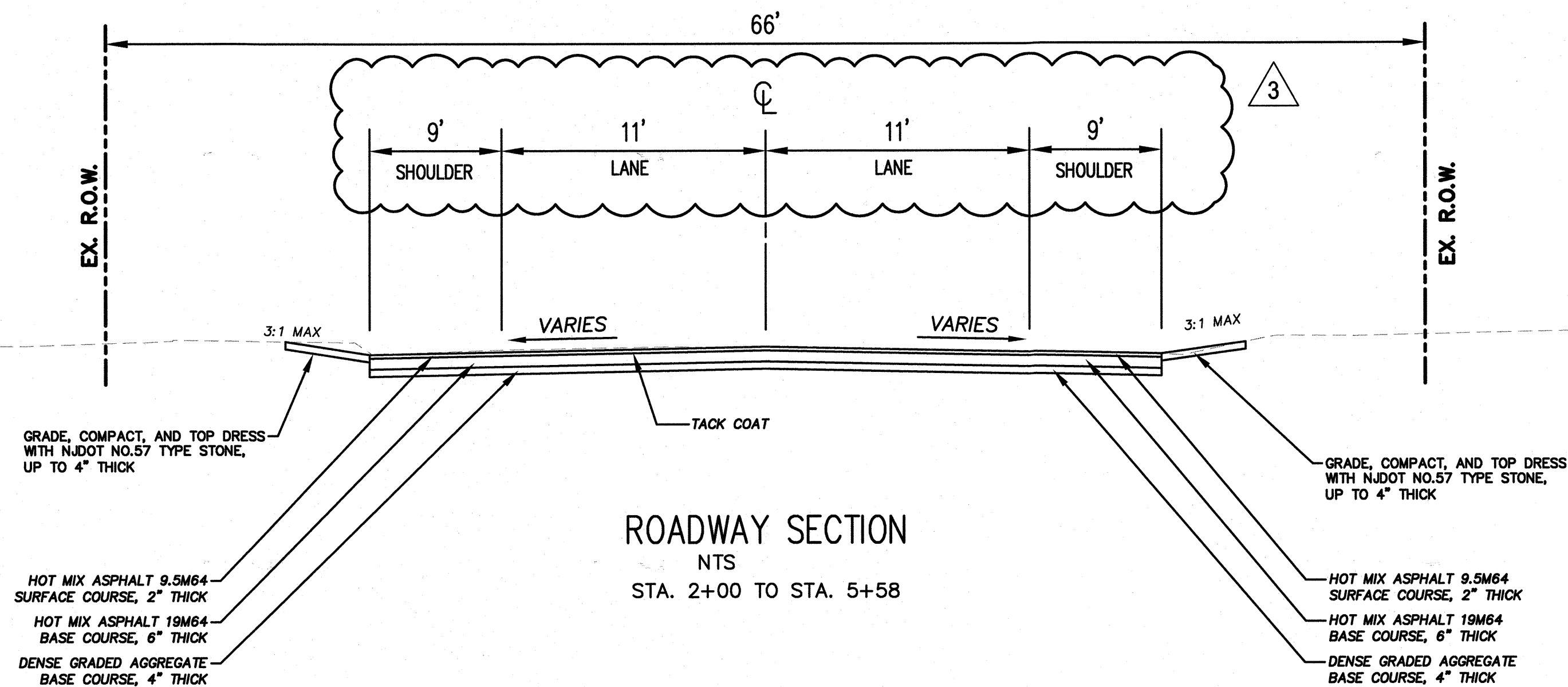
All Measurements To Face Of Line From Center Line

100 - Indicates Proposed Construction Center Line

(65) - Indicates Existing Survey Base Line

## PROJECT CONSTRUCTION NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS NECESSARY FOR CONSTRUCTION IN ACCORDANCE WITH EXISTING LOCAL, COUNTY, OR STATE REGULATIONS, OR ANY OTHER AGENCY HAVING JURISDICTION IN THESE MATTERS.
- THE CONTRACTOR IS RESPONSIBLE FOR AND SHALL VERIFY ALL DIMENSIONS AND DETAILS BEFORE PROCEEDING WITH WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.
- ALL REGRADED AREAS AT THE SITE WHICH ARE NOT DESIGNATED AS PAVED OR GRAVEL AREAS SHALL BE TOPSOILED AND SEEDED AND SHALL BE STABILIZED IN ACCORDANCE WITH STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY AND THE CONTRACT SPECIFICATIONS.
- ALL GRADING OPERATIONS SHALL PROVIDE FOR POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS AND STRUCTURES AND SHALL ELIMINATE PONDING AREAS.
- INFORMATION AS TO THE LOCATION OF EXISTING UTILITIES HAS BEEN COLLECTED FROM VARIOUS SOURCES. THE RESULT OF SUCH INVESTIGATIONS ARE SHOWN ON THE CONTRACT DRAWINGS AND ARE NOT GUARANTEED AS TO ACCURACY. THE CONTRACTOR IS PARTICULARLY DIRECTED TO THE FACT THAT UNDERGROUND OBJECTS OR MATERIAL LOCATION ELEVATION, OR TYPE IS NOT WARRANTED TO BE APPROXIMATELY CORRECT (NOR CAN THEY BE ASSUMED TO BE THE ONLY SUBSURFACE OBJECTS OR MATERIAL WHICH MAY BE ENCOUNTERED IN THE WORK.) THE CONTRACTOR SHALL MAKE ALL NECESSARY INVESTIGATIONS TO SATISFY HIMSELF AS TO THE EXISTING CONDITIONS PRIOR TO BIDDING WORK.
- THE CONTRACTOR IS RESPONSIBLE TO COORDINATE THE LOCATION OF THE UTILITIES WITH THE UTILITY COMPANIES PRIOR TO CONSTRUCTION.
- THE COORDINATION OF THE LOCATION OR RELOCATION WHERE REQUIRED OF TELEPHONE, ELECTRIC, GAS, AND WATER FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR AND SAME SHALL BE COORDINATED TO INSURE COMPLETION WITHIN THE TIME PERMITTED.
- THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN MEANS OF ADEQUATE INGRESS AND EGRESS TO RESIDENTS THROUGHOUT THE COURSE OF THE WORK AND TO PROVIDE FOR THE ADEQUATE MAINTENANCE AND PROTECTION OF TRAFFIC.
- THE CONTRACTOR'S LICENSED SURVEYOR SHALL PROVIDE THE CONSTRUCTION STAKEOUT FOR THE PROJECT.
- THE CONTRACTOR WILL NOT BE PERMITTED TO STOCKPILE EXCAVATED MATERIALS OVER EXISTING UTILITY LINES. THE STOCKPILED MATERIALS SHOULD BE PLACED SUFFICIENTLY AWAY FROM THE EDGE OF ANY EXCAVATION TO PREVENT CAVING OF THE TRENCH WALL AND TO PERMIT ADEQUATE ACCESS ALONG THE TRENCH. WITH SHEETED TRENCHES, A MINIMUM OF FIVE (5) FEET FROM THE EDGE OF THE SHEETING TO TOE OF SPOIL BANK MUST BE MAINTAINED.
- THE CONTRACTOR SHALL TAKE EVERY PRECAUTION NECESSARY TO PRECLUDE DAMAGE TO EXISTING STRUCTURES, FACILITIES, AND UTILITIES DUE TO LOSS OF LATERAL SUPPORT AND/OR CONSTRUCTION LOADINGS. SPECIFIC DETAILS NECESSARY TO ACCOMPLISH SAME SHALL BE SUBMITTED BY THE CONTRACTOR FOR REVIEW AND APPROVAL PRIOR TO COMMENCING CONSTRUCTION OF THE PROPOSED SUBSURFACE IMPROVEMENTS.
- ALL WORK BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE NEW JERSEY STATUTE KNOWN AS CHAPTER 249 OF THE LAWS OF 1948, BEING SECTIONS 34:6-47.1 TO 47.9, INCLUSIVE OF THE REVISED STATUTES OF NEW JERSEY, 1937, AND IN ACCORDANCE WITH THE RULES AND REGULATIONS CONCERNING PRECAUTIONS TO BE TAKEN IN THE PROXIMITY OF HIGH-VOLTAGE LINES FOR THE PREVENTION OF ACCIDENTS PROMULGATED BY THE COMMISSIONER OF THE DEPARTMENT OF LABOR AND INDUSTRY OF THE STATE OF NEW JERSEY, EFFECTIVE DECEMBER 28, 1948, ALL AS AMENDED AND SUPPLEMENTED, AND IN ACCORDANCE WITH THE PROVISIONS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND OF SUBPART N, PARAGRAPH 1926.550 OF THE RULES AND REGULATIONS ISSUED UNDER SAID ACT.
- THE CONTRACTOR IS HEREBY ADVISED THAT ALL WORK TO BE PERFORMED SHALL BE GOVERNED BY THE LOCAL MUNICIPAL ORDINANCES. THIS SHALL INCLUDE THE PROVISIONS IN THEIR CODES WHICH SET FORTH PERMITTED HOURS OF CONSTRUCTION WITHIN THE MUNICIPALITY.
- IN ORDER TO MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION, THE CONTRACTOR MAY FIND IT NECESSARY TO UTILIZE STEEL PLATES OVER TRENCHES AT NO ADDITIONAL COST TO THE OWNER.
- WHEN DISTURBING, REMOVING AND/OR DISPOSING OF ASBESTOS CEMENT PIPE, THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO: CURRENT USEPA REGULATIONS (NESHAP, 40 CFR 61 SUBPART M); OSHA REGULATIONS (29 CFR 1926.550); THE CURRENT NEW JERSEY ASBESTOS HAZARD ABATEMENT SUBCODE (N.J.A.C. 5:23-8); THE CURRENT NADPE REGULATIONS (N.J.A.C. 7:26-1 ET. SEQ.); AND NOTIFICATION REGULATIONS (N.J.A.C. 5:23-8.6, 40 CFR 61 SUBPART M, AND N.J.A.C. 7:26-2.12).
- THE SOMERSET/UNION SOIL CONSERVATION DISTRICT GOVERNS SOIL EROSION AND SEDIMENT CONTROL MEASURES WITHIN THE PROJECT AREA. ACCORDINGLY, ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED AS PER THE REQUIREMENTS OF THE SOMERSET/UNION SOIL CONSERVATION DISTRICT AND THE CONTRACT DOCUMENTS.
- AT CERTAIN TIMES THE SITE MAY BE OCCUPIED BY SEVERAL CONTRACTORS AND IT IS THEREFORE REQUIRED FOR ANY AND ALL CONTRACTORS OCCUPYING THE SITE TO COOPERATE WITH ONE ANOTHER. NO DELAYS RESULTING FROM MULTIPLE CONTRACTORS WORKING ON THE SITE WILL BE CONSIDERED.
- THE CONTRACTOR SHALL CONTINUOUSLY DEWATER ALL EXCAVATIONS UNTIL BACKFILLING OPERATIONS HAVE BEEN COMPLETED. PRIOR TO DISCHARGE TO STREAMS, SILT SHALL BE SETTLED OUT IN AN APPROVED SETTLING BASIN.
- THE CONTRACTOR SHALL MAINTAIN THE FLOW OF ALL STREAMS, DRAINAGE DITCHES, STORM SEWERS AND SANITARY SEWERS AT ALL TIMES BY A MEANS ACCEPTABLE TO THE ENGINEER AND ALL THE RESPONSIBLE AGENCIES.
- THE CONTRACTOR SHALL MAINTAIN ALL UTILITY SERVICE FLOWS AND PRESSURES UNLESS WRITTEN APPROVAL BY THE RESPONSIBLE UTILITY PERMITS HIM TO DO OTHERWISE.
- THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE STATE OF NEW JERSEY WORKER HEALTH AND SAFETY ACT (N.J.A.C. 12:110 ET. SEQ.) AS AMENDED AND THE UNITED STATES OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) (29 CFR 1910), AS AMENDED WITH REGARDS TO WORKER AND JOBSITE SAFETY.
- THE CONTRACTOR IS SPECIFICALLY DIRECTED TO THE REQUIREMENTS CONTAINED IN THE SPECIAL PROVISIONS SECTION OF THE CONTRACT SPECIFICATIONS.



MICHAEL J. McCLELLAND P.E.

PROFESSIONAL ENGINEER

U.C. 32468

Revisions		
No.	Date	By
3	08/02/23	TA

Designed By

Drawn By

Checked By

Approved By

County of Union

Division of Engineering

2325 South Avenue, Scotch Plains, N.J. 07076

REPLACEMENT OF LOWER ROAD MINOR BRIDGE, Li-63

City of Linden, Union County

LEGEND, GENERAL NOTES AND TYPICAL SECTION

Scale: AS SHOWN

Sheet No. 3 of 23

Drawing No.

Date: August 2020

Ricardo Matias

County Engineer

N.J.P.E. No. 24GE05154000

PUN00622.01

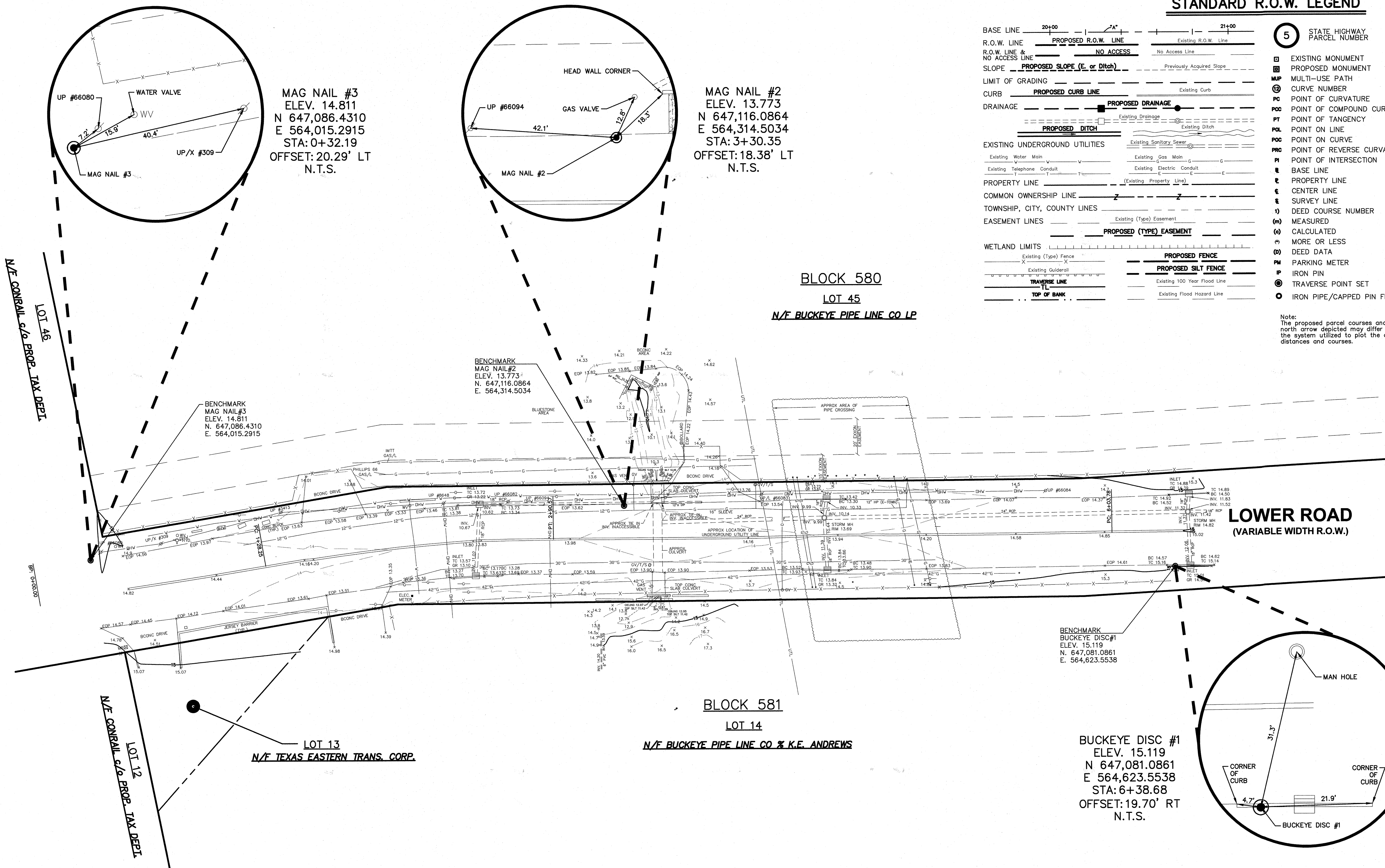


# NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD R.O.W. LEGEND

BASE LINE	20+00	21+00
R.O.W. LINE	PROPOSED R.O.W. LINE	Existing R.O.W. Line
NO ACCESS LINE	NO ACCESS	No Access Line
SLOPE	PROPOSED SLOPE (E. or Ditch)	Previously Acquired Slope
LIMIT OF GRADING	PROPOSED CURB LINE	Existing Curb
CURB	PROPOSED CURB LINE	Existing Curb
DRAINAGE	PROPOSED DRAINAGE	Existing Drainage
EXISTING UNDERGROUND UTILITIES	Existing Water Main	Existing Sanitary Sewer
	Existing Telephone Conduit	Existing Gas Main
	Existing Electric Conduit	Existing Property Line
PROPERTY LINE	COMMON OWNERSHIP LINE	TOWNSHIP, CITY, COUNTY LINES
EASEMENT LINES	PROPOSED (TYPE) EASEMENT	WETLAND LIMITS
	Existing (Type) Fence	PROPOSED FENCE
	Existing Guideline	PROPOSED SILT FENCE
TRAVERSE LINE	Existing 100 Year Flood Line	Existing Flood Hazard Line
TOP OF BANK		

Note:  
The proposed parcel courses and the north arrow depicted may differ from the system utilized to plot the deed distances and courses.

(sur.)	SURVEY DATA
D.A.	DEED AREA
(FM)	FILED MAP
(TM)	TAX MAP
(S)	SCALED
(L)	LEASE
(ET)	ENTIRE TRACT
94	TAX MAP BLOCK NO.
94	FILED MAP BLOCK NO.
21	FILED MAP LOT NO.
21	FILED MAP LOT NO.
556	PAGE
556	PAGE
WV	WATER GATE VALVE
WV	GAS GATE VALVE
POLE	POLE
HYD	HYDRANT
ET	DECIDUOUS TREE
SHR	SHRUB
ET	EVERGREEN TREE
HEDGE	HEDGE
SWAMP	SWAMP
R.A.	REMAINING AREA
HEADWALL & APRON	HEADWALL & APRON

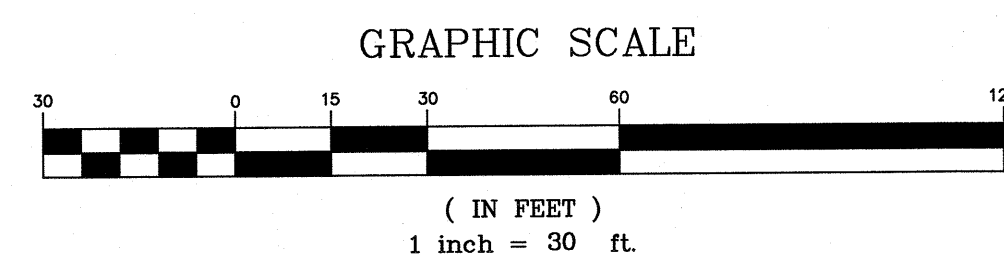


## NOTES:

1. THIS SURVEYOR IS NOT QUALIFIED TO MAKE A DETERMINATION AS TO THE EXISTENCE OR NON-EXISTENCE OF ENVIRONMENTALLY UNSAFE CONDITIONS. THEREFORE, NO STATEMENT IS BEING MADE OR IMPLIED HEREON, NOR SHOULD IT BE ASSUMED OR CONSTRUED THAT ANY STATEMENT IS BEING MADE BY THE FACT THAT NO EVIDENCE OF ENVIRONMENTALLY UNSAFE CONDITIONS ARE PORTRAYED HEREON. THE CLIENT SHOULD PURSUE THESE MATTERS SEPARATE AND APART FROM THIS SURVEY.
2. THIS SURVEYOR HAS NOT BEEN RETAINED TO MAKE ANY DETERMINATIONS AS TO THE EXISTENCE OR NON-EXISTENCE OF WETLANDS. THEREFORE, NO STATEMENT IS BEING MADE OR IMPLIED HEREON, NOR SHOULD IT BE ASSUMED OR CONSTRUED THAT ANY STATEMENT IS BEING MADE BY THE FACT THAT NO EVIDENCE OF WETLANDS IS PORTRAYED HEREON. THE CLIENT SHOULD PURSUE THIS MATTER SEPARATE AND APART FROM THIS SURVEY.
3. THIS SURVEYOR CONDUCTED NO UNDERGROUND EXPLORATIONS. THEREFORE, ONLY THOSE PHYSICAL FEATURES WHICH WERE PLAINLY VISIBLE AT THE TIME OF THIS SURVEY ARE PORTRAYED HEREON.
4. SURVEY DATA PORTRAYED HEREON IS BASED UPON FIELD OBSERVATIONS COLLECTED IN APRIL AND MAY OF 2018.
5. BASIS FOR BEARINGS IS THE NORTH AMERICAN DATUM OF 1983, NEW JERSEY STATE PLANE COORDINATE SYSTEM, UNITED STATES SURVEY FOOT. ALL VALUES REDUCED TO GROUND COORDINATES, CONTROL MONUMENTS FOR CONVERSION: ELIZ BASE 2, LINDEN 1, GRANFORD 1, 2011. AVERAGE COMBINED SCALE FACTOR OF 0.999909, CENTROID N. 651,844.7675, E. 560,363.0100. GPS POSITIONS DERIVED VIA REAL TIME KINEMATIC SURVEY IN COORDINATION WITH KEYSTONE KEYNET VRS NETWORK.
6. VERTICAL DATUM DERIVED VIA REAL TIME KINEMATIC SURVEY IN COORDINATION WITH KEYSTONE KEYNET VRS NETWORK. VERTICAL DATUM - NORTH AMERICAN VERTICAL DATUM OF 1988. ALL VALUES EXPRESSED IN U.S. SURVEY FOOT.

## REFERENCES:

1. TAX MAP OF THE CITY OF LINDEN, UNION COUNTY, NEW JERSEY.
2. MAP ENTITLED "STORM SEWER ATLAS", DATED JANUARY 1975, PREPARED BY CITY OF LINDEN ENGINEERING DEPARTMENT.
3. MAP ENTITLED "MINOR SUBDIVISION LOTS 53.01 & 53.03 IN BLOCK 580 PREPARED FOR HARTZ MOUNTAIN INDUSTRIES, INC.", DATED SEPTEMBER 15, 1998, PREPARED BY JOHN ZANETAKOS ASSOCIATES, INC.



**CVE ASSOCIATES**  
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**MICHAEL J. MCGURL P.L.S.**  
NEW JERSEY PROFESSIONAL LAND SURVEYOR LIC. 38338  
DATE 8/10/2020

Revisions		
No.	Date	By

County of Union  
Division of Engineering  
2325 South Avenue, Scotch Plains, N.J. 07076

**REPLACEMENT OF LOWER ROAD  
MINOR BRIDGE, Li-63**

City of Linden, Union County New Jersey

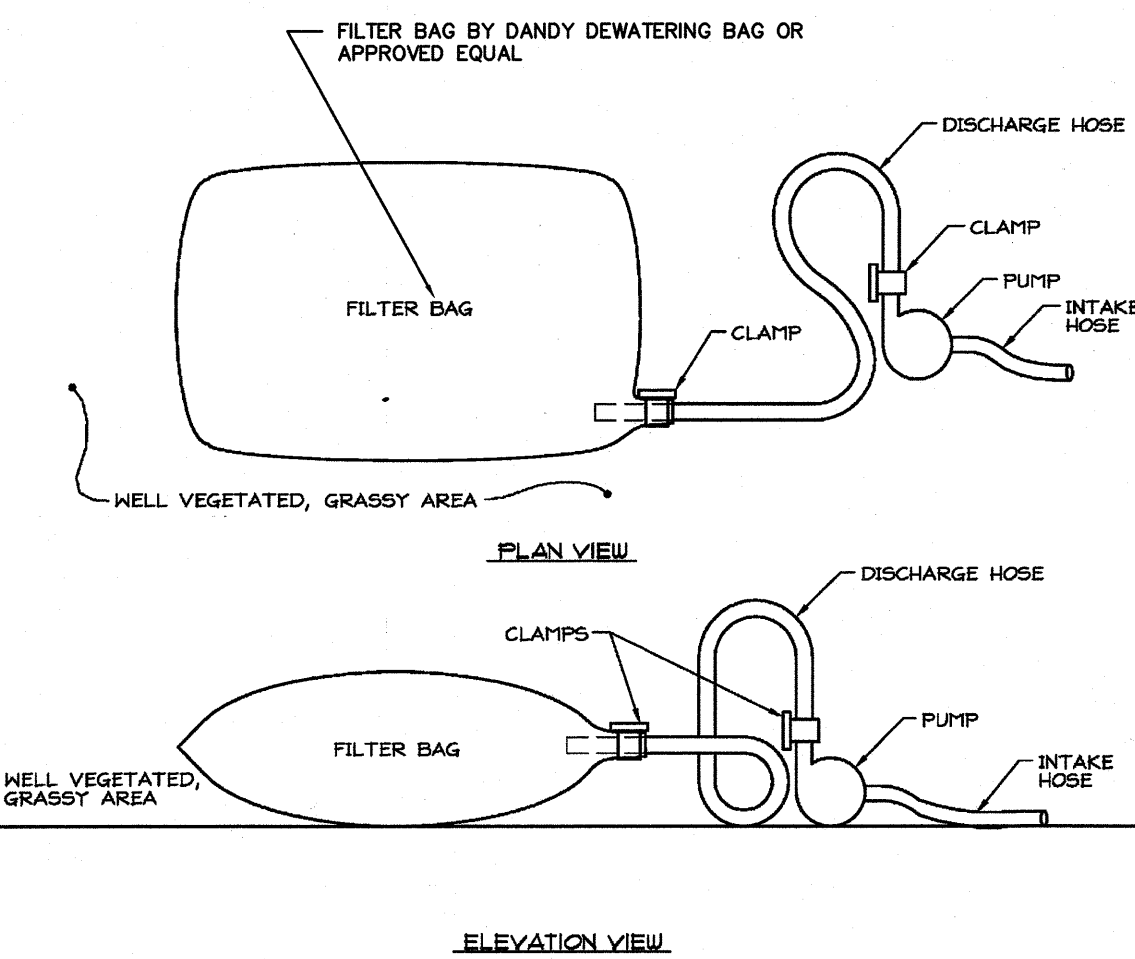
**EXISTING CONDITIONS &  
SURVEY CONTROL PLAN**

Scale: AS SHOWN  
Sheet No. 4 of 23  
Drawing No. \_\_\_\_\_  
Date: August 2020

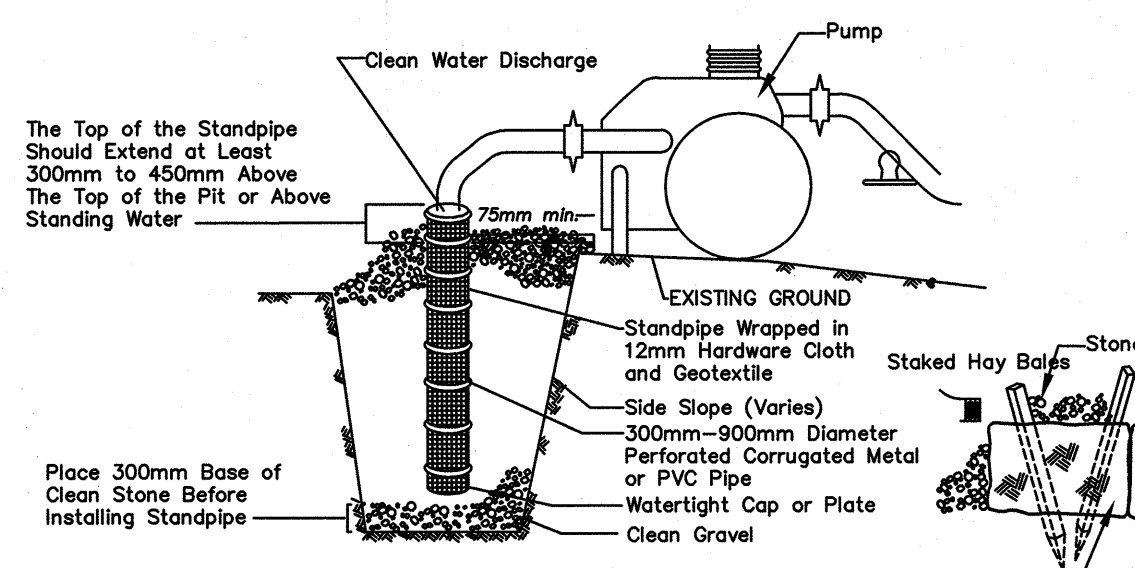
**Ricardo Matias**  
County Engineer  
N.J.P.E. No. 24GE05154000

PUN00622.01





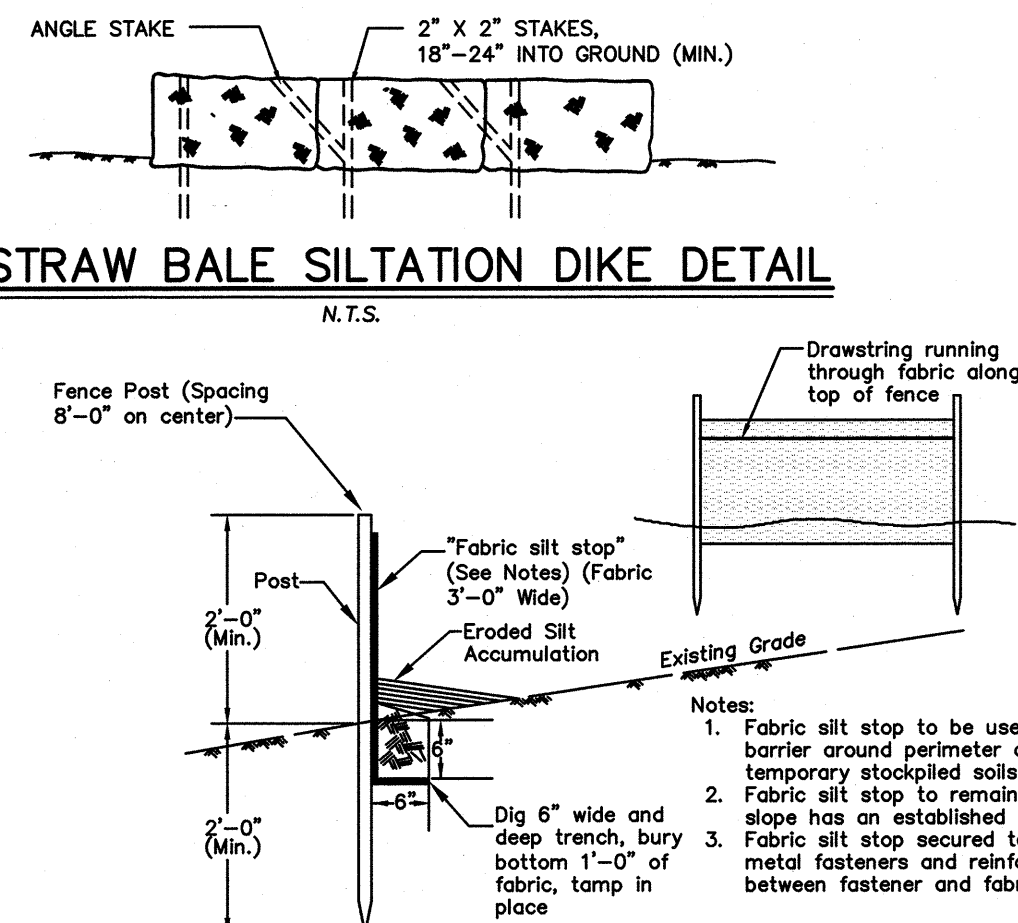
DETAIL – PUMPED WATER SEDIMENT CONTROL BAG



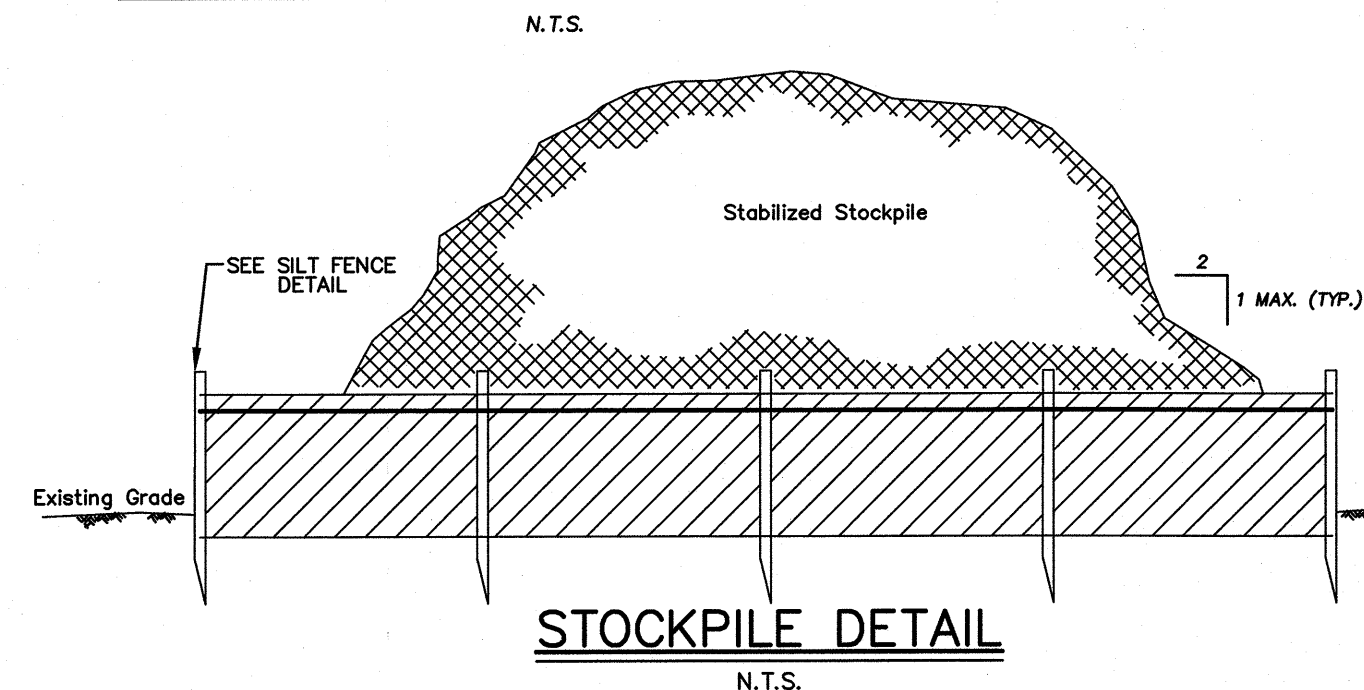
#### Construction Specifications

- Pit dimensions are variable with the minimum diameter being 2 times the standpipe diameter.
- The standpipe should be constructed by perforating a 300mm to 600mm diameter corrugated or PVC pipe. Then wrapping with the 12mm hardware silts or 25mm diameter holes.
- A base filter material consisting of clean gravel or ASTM C 33 stone should be placed in the pit to a depth of 300mm. After installing the standpipe, the pit surrounding the standpipe should then be backfilled with the same filter material.
- The standpipe should extend 300mm to 450mm above the lip of the pit or the riser crest elevation (soil dewatering only) and the filter material should extend 75mm minimum above the anticipated standing water elevation.

#### DEWATERING DETAIL



SILT STOP SEDIMENT BARRIER DETAIL



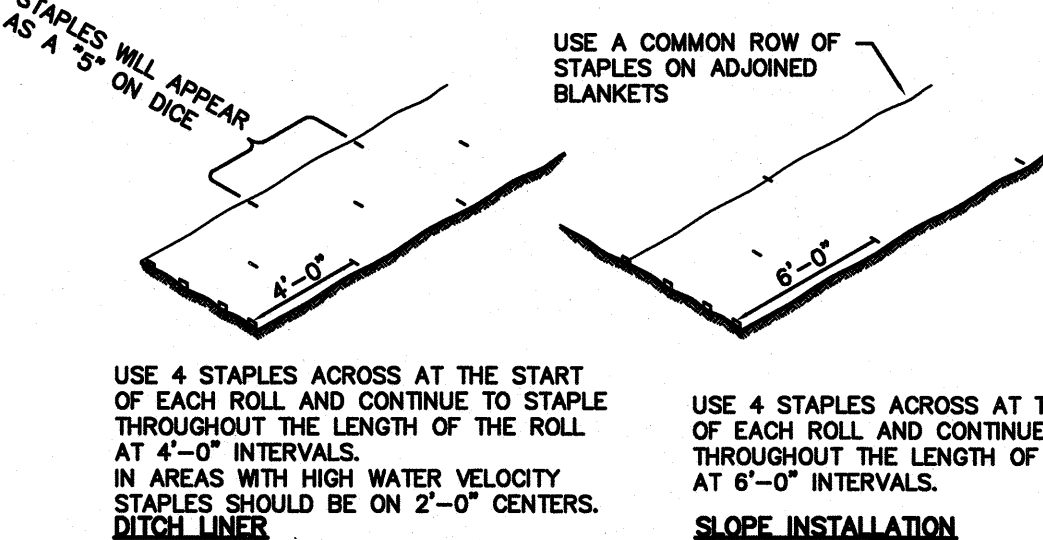
STOCKPILE DETAIL

\* SOMERSET-UNION SOIL CONSERVATION DISTRICT  
308 MILLTOWN ROAD  
BRIDGEWATER, NEW JERSEY 08807  
(908) 526-2701 PHONE  
(908) 575-3877 FAX

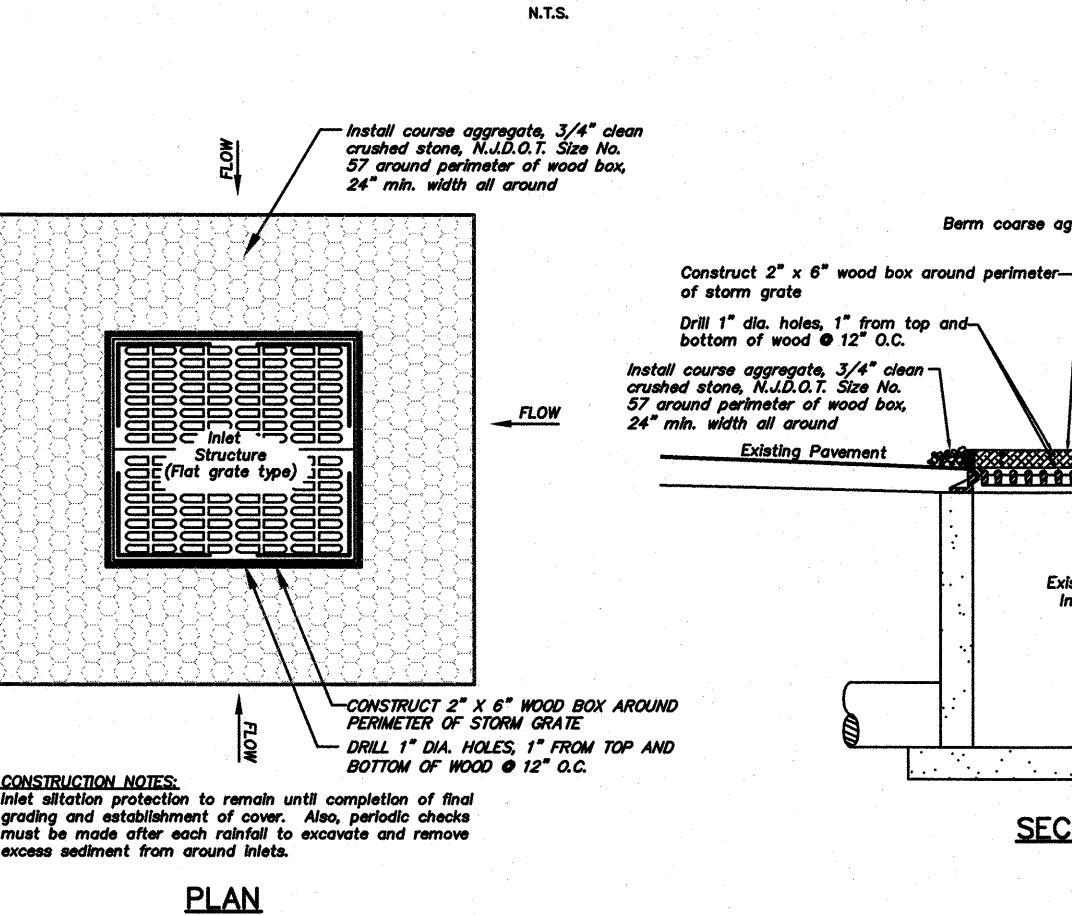
#### PUMP WATER FILTER BAG NOTES:

- FILTER BAGS MAY BE USED TO FILTER WATER PUMPED FROM DISTURBED AREAS PRIOR TO DISCHARGING INTO LOCAL WATERS. THEY MAY ALSO BE USED TO FILTER WATER PUMPED FROM THE SEDIMENT STORAGE ZONE OF A SEDIMENT BASIN OR TRAP.
- FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS.
- A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES MUST BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED.
- BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE FLOW PATH SHALL BE PROVIDED. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%.
- THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED.
- THE PUMPING RATE SHALL BE NO GREATER THAN 750 gpm OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHOULD BE FLOATING AND SCREENED.
- FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.
- ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP, SUCH AS A PUMPED WATER FILTER BAG OR EQUIVALENT SEDIMENT REMOVAL FACILITY, OVER UNDISTURBED VEGETATED AREAS.

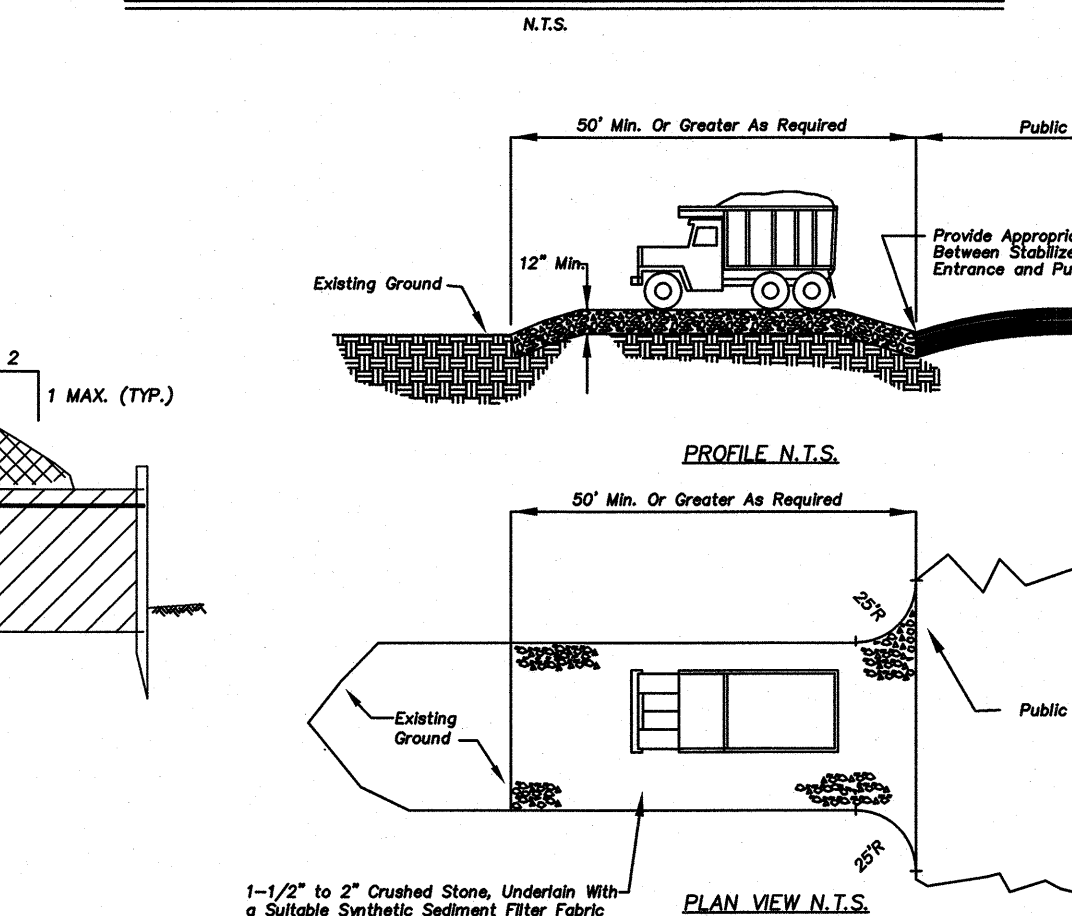
SLOPE STABILIZATION MATTING SHALL BE REQUIRED FOR ALL DISTURBED AREAS WHERE THE GRADIENT IS 3 TO 1 OR GREATER, OR WHERE SAME IS DEMED NECESSARY BY THE ENGINEER AND BERGEN SOIL CONSERVATION DISTRICT REPRESENTATIVES DURING THE COURSE OF CONSTRUCTION. THE MATTING SHALL BE EXCELSIOR CURLEX II EROSION CONTROL BLANKETS OR APPROVED EQUAL. INSTALLATION AND SECURING OF STABILIZATION MATTING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.



EXCELSIOR CURLEX II MATTING FOR SLOPE STABILIZATION STAPLE LOCATION



STONE INLET FILTER INLET SILTATION PROTECTION DETAIL



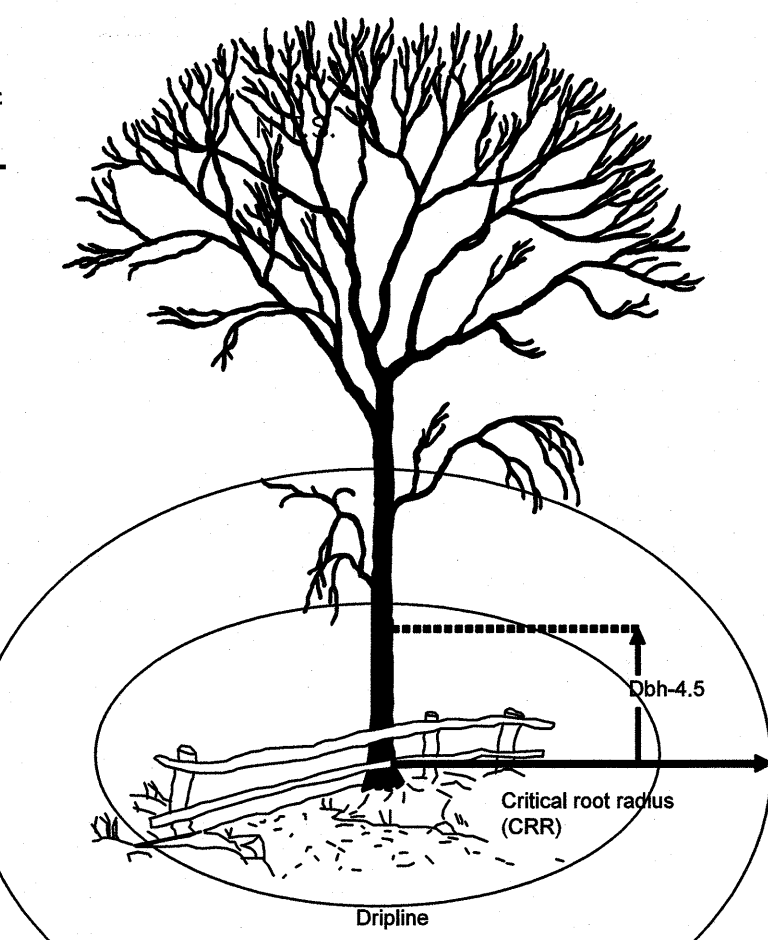
STABILIZED CONSTRUCTION ENTRANCE

Estimate a tree's Protected Root Zone (PRZ) by calculating the Critical Root Radius (CRR).

- Measure the dbh (diameter of tree at breast height, 4.5 feet above ground on the uphill side of tree) in inches.
- Multiply measured dbh by 1.5 or 1.0. Express the result in feet.

Dbh x 1.5: Critical root radius for older, unhealthy, or sensitive species.

Dbh x 1.0: Critical root radius for younger, healthy or tolerant species.



ROOT PROTECTION

#### MULCHING

- MULCHING IS REQUIRED ON ALL SEEDING
- MULCH MATERIALS SHALL BE UNNOTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT THE RATE OF 1-1/2 TO 2 TONS PER ACRE (70-90 POUNDS PER 1000 SQUARE FEET) EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION MUST BE DOUBLE THE LOWER RATE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MATERIAL.
  - SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 75% TO 95% OF THE SOIL SURFACE WILL BE COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE THE AREA INTO APPROXIMATELY 1000 SQUARE FOOT SECTIONS AND DISTRIBUTE 70-90 POUNDS WITHIN EACH SECTION.
  - MULCH ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF THE SLOPES AND COSTS.
    - PEG AND TWINE – DRIVE 8-10 INCH WOODEN PEGS TO WITHIN 2-3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRISS-CROSS AND A SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.
    - MULCH NETTING – STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTINGS OVER MULCH TO THE SOIL SURFACE. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED.
    - CRIMPER (MULCH ANCHORING COULTER TOOL – A TRACTOR-DRAWN IMPLEMENT SOMEWHAT LIKE A DISCHARGING, ESPECIALLY DESIGNED TO PUSH OR CUT SOME OF THE BROADCAST LONG FIBER MULCH 3-4 INCHES INTO THE SOIL SO AS TO ANCHOR IT AND LEAVE PART STANDING UPRIGHT. THIS TECHNIQUE IS LIMITED TO AREAS TRAVERSABLE BY A TRACTOR, WHICH MUST OPERATE ON THE CONTOURS OF SLOPES. STRAW MULCH RATE MUST BE 3 TONS PER ACRE. NO TACKIFYING OR ADHESIVE AGENT IS REQUIRED.
    - LIQUID MULCH-BINDERS – MAY BE USED TO ANCHOR SALT HAY, HAY OR STRAW MULCHES.
      - APPLICATIONS SHALL BE HEAVIER AT EDGES WHERE WIND MAY CATCH THE MULCH, IN VALLEYS, AND AT CRESTS OF BANKS. REMAINDER OF AREA SHALL BE UNIFORM IN APPEARANCE.
      - USE THE FOLLOWING:
        - SYNTHETIC OR ORGANIC AND VEGETABLE BASED BINDERS – BINDERS SUCH AS CURASOL, DCA-70, PETRO-SET, AND TERRA-TACK MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH MATERIALS.
        - NOTE: ALL NAMES GIVEN ABOVE ARE REGISTERED TRADE NAMES. THIS DOES NOT CONSTITUTE A RECOMMENDATION OF THESE PRODUCTS TO THE EXCLUSION OF OTHER PRODUCTS.
    - WOOD-FIBER OR PAPER-FIBER MULCH AT THE RATE OF 1500 POUNDS PER ACRE MAY BE APPLIED BY A HYDROSEEDER. THIS MULCH SHALL NOT BE MIXED IN THE TANK WITH SEED. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.

#### TEMPORARY SEEDING SPECIFICATIONS

- APPLY 10-20-10 FERTILIZER AT A RATE OF 500 LBS. PER ACRE OR 11 LBS. PER 1,000 SQ. FEET
- APPLY LIMESTONE AT A RATE OF 2 TONS PER ACRE OR 90 LBS. PER 1,000 SQ. FEET FOR SANDY LOAM.
- APPLY PERENNIAL RYE GRASS AT A RATE OF 60 LBS. PER ACRE OR 1 LB. PER 1,000 SQ. FEET.
- APPLY WINTER CEREAL AT A RATE OF 112 LBS. PER ACRE OR 2.8 LBS. PER 1,000 SQ. FEET.
- APPLY MULCH AT A RATE OF 1.5 TO 2 TONS PER ACRE OR 70 TO 90 LBS. PER 1,000 SQ. FEET.
- APPLY SPRING OATS AT A RATE OF 88 LBS. PER ACRE OR 2 LBS. PER 1,000 SQ. FEET.
- APPLY WINTER BARLEY AT A RATE OF 88 LBS. PER ACRE OR 2.2 LBS. PER 1,000 SQ. FEET.
- APPLY LIQUID MULCH BINDER TO ANCHOR MULCH AND PREVENT MULCH FROM BLOWING.

#### TEMPORARY AND PERMANENT SEEDBED PREPARATIONS

- WORK LINE AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM, FINE SEEDBED IS PREPARED. ALL BUT CLAY OR SILTY SOILS AND COARSE SANDS SHOULD BE ROLLED TO FIRM THE SEEDBED WHEREVER FEASIBLE. REMOVE FROM THE SURFACE ALL STONES TWO INCHES OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS, OR OTHER UNSUITABLE MATERIAL. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AND FIRMED AS ABOVE.
- APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DROP SEEDER, DRILL OR CULTIPACKER ETC. INCORPORATE SEED INTO THE SOIL BY RAKING OR DRAGGING. HYDROSEEDING SHALL NOT BE ALLOWED IN THE APPLICATION.
- MULCHING ON ALL NEWLY SEEDBED AREAS IS REQUIRED. MULCH MATERIAL SHOULD BE UNNOTTED SMALL GRAIN HAY SPREAD UNIFORMLY BY HAND OR MACHINE. MULCH ANCHORING TO BE PLACED IMMEDIATELY AFTER MULCHING.

#### PERMANENT SEEDING SPECIFICATIONS

- APPLY FERTILIZER AND LIME IN THE SAME RATES AS DENOTED IN THE TEMPORARY SEEDING SPECIFICATIONS ABOVE.
- APPLY THE FOLLOWING SEED MIXTURE ONLY DURING SPECIFIED PLANTING DATES AT THE SPECIFIED RATES:
 

HARD FESCUE.....	120 LBS. PER ACRE
PERENNIAL RYEGRASS.....	30 LBS. PER ACRE
KENTUCKY BLUEGRASS.....	40 LBS. PER ACRE
- APPLY MULCH AND MULCH ANCHORING AS SPECIFIED IN THE TEMPORARY SEEDING SPECIFICATIONS ABOVE.

#### SOIL EROSION AND SEDIMENT CONTROL NOTES

- ALL APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE PLACE PRIOR TO ANY GRADING OPERATION AND/OR INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES.
- SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THE PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.
- ALL APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE LEFT IN PLACE UNTIL CONSTRUCTION IS COMPLETED AND/OR THE AREA IS STABILIZED.
- ANY DISTURBED AREA THAT WILL BE LEFT EXPOSED FOR MORE THAN SIXTY (60) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING AND FERTILIZATION IN ACCORDANCE WITH THE NEW JERSEY STANDARDS AND APPLICATION RATES SHALL BE INCLUDED IN THE NARRATIVE. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH SALT HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE NEW JERSEY STANDARDS (I.E. PEG AND TWINE, MULCH MATTING OR LIQUID MULCH BINDER).
- ALL CRITICAL AREAS SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH AT A RATE OF 2 TONS PER ACRE, ACCORDING TO THE NEW JERSEY STANDARDS IMMEDIATELY FOLLOWING ROUGH GRADING.
- THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
- ALL SOIL EROSION AND SEDIMENTATION STRUCTURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS AND AFTER EVERY STORM EVENT.
- SOIL STOCKPILES ARE NOT TO BE LOCATED WITHIN FIFTY (50) FEET OF A FLOODPLAIN, SLOPE, ROADWAY OR DRAINAGE FACILITY. THE BASE OF ALL STOCKPILES SHOULD BE PROTECTED BY A HAY BALE BARRIER OR SEDIMENT FENCE. PROPOSED LOCATIONS MUST BE DELINEATED ON THE PLAN.
- A CRUSHED STONE, TIRE CLEANING PAD WILL BE INSTALLED WHEREVER A CONSTRUCTION ENTRANCE EXISTS. THE RIP-RAP PAD MUST BE 100 FEET IN LENGTH AND THE STONE MUST BE 1.5" – 4" IN SIZE, PLACED 12" THICK AND THE FULL WIDTH OF THE ENTRANCE. IT SHOULD BE UNDERLAIN WITH A SUITABLE SYNTHETIC FILTER FABRIC AND MAINTAINED. (THE STRUCTURE MUST BE DELINEATED AND DETAIL INCLUDED ON THE PLANS.)
- IF A STONE CONSTRUCTION ENTRANCE IS TO BE USED AS AN EXIST ON TO A MAJOR HIGHWAY, A THIRTY (30) FOOT PAVED TRANSITION AREA SHALL BE INSTALLED.
- ALL DRIVEWAYS MUST BE STABILIZED WITH 2½" CRUSHED STONE OR SUBBASE PRIOR TO INDIVIDUAL LOT CONSTRUCTION.
- PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
- ALL CATCH BASIN INLETS WILL BE PROTECTED DURING CONSTRUCTION (FILTER DETAILS APPEAR ON PLAN).
- ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
- ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTRATION DEVICE. THE SEDIMENT FILTER MUST BE CAPABLE OF FILTERING THE SEDIMENT AND BE PLACED SO AS NOT TO CAUSE EROSION OF THE DOWNSLOPE AREA. DETAILS AND MAINTENANCE OF THE DEVICE MUST BE INCLUDED ON THE PLANS. FIELD PLACEMENT AND USE OF THE STRUCTURE MUST BE APPROVED BY THE DISTRICT EROSION CONTROL INSPECTOR PRIOR TO COMMENCEMENT OF DEWATERING ACTIVITIES.
- THE SOMERSET-UNION SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED, IN WRITING, 72 HOURS PRIOR TO ANY LAND DISTURBANCE.
- SOIL HAVING A pH OF 4.0 OR LESS OR CONTAINING IRON SULPHIDE MUST BE COVERED WITH A MINIMUM OF 12 INCHES OF SOIL HAVING A pH OF 5.0 OR MORE BEFORE SEEDBED PREPARATION.
- IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO PROVIDE CONFIRMATION OF LIME, FERTILIZER AND SEED APPLICATION RATES AT THE REQUEST OF THE SOMERSET-UNION SOIL CONSERVATION DISTRICT.
- NUSA 4-24-39, ET SEQ., REQUIRES THAT NO CERTIFICATE OF OCCUPANCY BE ISSUED BEFORE ALL THE PROVISIONS OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES. ALL SITE WORK FOR THE PROJECT MUST BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE AS A PREREQUISITE TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
- NUSA 4-24-39, ET SEQ., REQUIRES THAT UPON PERMANENT SITE STABILIZATION AND COMPLETION OF CONSTRUCTION THE CONTRACTOR SHALL APPLY TO THE SOIL CONSERVATION DISTRICT FOR A FINAL COMPLIANCE INSPECTION TO CHECK THAT ALL THE PROVISIONS OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES.
- OFFSITE SEDIMENT DISTURBANCE MAY REQUIRE ADDITIONAL CONTROL MEASURES TO BE DETERMINED BY THE EROSION CONTROL INSPECTOR.
- A COPY OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE MAINTAINED ON THE PROJECT SITE DURING CONSTRUCTION.
- ANY CONVEYANCE OF THIS PROJECT PRIOR TO ITS COMPLETION WILL TRANSFER FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CERTIFIED PLAN TO ALL SUBSEQUENT OWNERS.
- IMMEDIATELY AFTER THE COMPLETION OF STRIPPING AND STOCKPILING OF TOPSOIL, SEED THE STOCKPILE WITH ANNUAL RYE GRASS. STABILIZE TOPSOIL STOCKPILES WITH STRAW MULCH FOR PROTECTION IF THE SEASON DOES NOT PERMIT THE APPLICATION AND ESTABLISHMENT OF TEMPORARY SEEDING.
- ANY CHANGES TO THE SITE PLAN WILL REQUIRE THE SUBMISSION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN TO THE SOMERSET-UNION SOIL CONSERVATION DISTRICT. THE REVISED PLAN MUST BE IN ACCORDANCE WITH THE CURRENT NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL.
- MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT BE CONSTRUCTED STEEPER THAN 3:1 UNLESS OTHERWISE APPROVED BY THE DISTRICT.
- THE SOIL EROSION INSPECTOR MAY REQUIRE ADDITIONAL SOIL EROSION MEASURES TO BE INSTALLED, AS DIRECTED BY THE DISTRICT INSPECTOR.

SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AS DEEMED NECESSARY BY THE COUNTY ENGINEER AND THE SOMERSET-UNION SOIL CONSERVATION DISTRICT.

NON GROWING SEASON SOIL STABILIZATION : DURING NON GROWING SEASON EXPOSED SOILS SHOULD BE STABILIZED USING NON-VEGETATIVE MATERIALS SUCH AS UNNOTTED SMALL-GRAIN STRAW, OR SALT HAY AT A RATE OF 2.0 TO 2.5 TONS PER ACRE SPREAD UNIFORMLY AT 90 TO 115 POUNDS PER 1,000 SQUARE FEET AND ANCHORED WITH A MULCH ANCHORING TOOL, ORGANIC MULCH BINDERS, NETTING TIE DOWNS OR OTHER SUITABLE MATERIALS AS APPROVED BY THE BERGEN SOIL CONSERVATION DISTRICT.

#### TRAFFIC CONTROL STANDARDS

- CONSTRUCTION TRAFFIC SHALL BE RESTRICTED TO ON-SITE ACCESS BY MEANS SO DESIGNATED BY THE COUNTY ENGINEER.
- TRAFFIC DURING WET WEATHER SHALL BE MINIMIZED AND APPROPRIATE CLEAN-UP SHALL BE PROVIDED BY THE CONTRACTOR AS SOON AS WEATHER CONDITIONS PERMIT.
- TRAFFIC CONTROL STANDARDS REQUIRE THE INSTALLATION DISTURBANCE BE KEPT TO A MINIMUM AND ADEQUATELY STABILIZED IN ACCORDANCE WITH THE STANDARDS HEREIN.

#### DUST CONTROL

- ALL AREAS OF CLEARING AND EMBANKMENT, AS WELL AS CONSTRUCTION Haul ROADS SHALL BE TREATED AND MAINTAINED IN SUCH A MANNER AS TO MINIMIZE ANY DUST GENERATION.
- DISTURBED AREAS SHALL BE MAINTAINED IN A ROUGH GRADED CONDITION AND TEMPORARILY SEEDED AND/OR MULCHED UNTIL PROPER WEATHER CONDITIONS EXIST FOR THE ESTABLISHMENT OF PERMANENT VEGETATION COVER.

#### TREE PROTECTION

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL TREES WITHIN THE SITE FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL FURTHER EMPLOY EVERY MEASURE POSSIBLE FOR THE PROTECTION OF ALL TREES WITHIN THE DESIGNATED USE AREAS.
- DAMAGED TRUNKS OR EXPOSED ROOTS SHOULD HAVE DAMAGED BARK REMOVED IMMEDIATELY AND NO PAINT SHALL BE APPLIED. EXPOSED ROOTS SHOULD BE COVERED WITH TOPSOIL IMMEDIATELY AFTER EXCAVATION IS COMPLETE. ROOTS SHALL BE PRUNED TO GIVE A CLEAN, SHARP SURFACE AMENABLE TO HEALING. ROOTS EXPOSED DURING HOT WEATHER SHOULD BE IRRIGATED TO PREVENT PERMANENT TREE INJURY.

#### SEQUENCE OF CONSTRUCTION

THIS PROJECT GENERALLY CONSISTS OF THE REPLACEMENT OF LOWER ROAD MINOR BRIDGE, LI-63 CROSSING THE STREAM #10.3, ROADWAY AND STORM SEWER IMPROVEMENTS, AND INSTALLATION OF HOT MIX ASPHALT PAVEMENT.

THE CONSTRUCTION WILL PROCEED IN THE FOLLOWING MANNER:

- INSTALLATION OF ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES THAT CAN BE PLACED PRIOR TO ANY MAJOR SOIL DISTURBANCES. (1 DAY)
- REMOVAL OF EXISTING STORM SEWER PIPES, CONSTRUCTION OF TEMPORARY STORM SEWER OUTFALLS, CONSTRUCTION OF NEW STORM SEWER PIPES AND REMOVAL OF TEMPORARY STORM SEWER OUTFALLS. (60 DAYS)
- RELOCATE EXISTING UTILITIES, DEMOLISH AND REMOVE EXISTING MINOR BRIDGE. CONSTRUCT NEW MINOR BRIDGE WITHIN THE EXCAVATION LIMITS AS SHOWN IN THE CONTRACT DRAWINGS. (120 DAYS)
- EXCAVATION AND CONSTRUCTION OF THE APPROACH SLABS AND THE PAVEMENT BASE FOR THE AREAS IDENTIFIED IN THE CONTRACT DRAWINGS. (60 DAYS)
- FINE GRADE ALL PAVEMENT RECONSTRUCTION AREAS. (5 DAYS)
- INSTALL ASPHALT PAVEMENT BASE COURSE IN AREAS RECEIVING NEW PAVEMENT. (5 DAYS)
- MILLING AND RESURFACING OF EXISTING PAVEMENT WHERE INDICATED ON THE CONTRACT DRAWINGS AND INSTALLATION OF ASPHALT PAVEMENT SURFACE COURSE. (15 DAYS)
- REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES. (5 DAYS)

THIS PLAN TO BE USED FOR SOIL EROSION AND SEDIMENT CONTROL PURPOSES ONLY

DATUM CONVERSION  
PLANS ARE IN NAVD 88 DATUM  
NGVD 29 DATUM : NAVD DATUM + 1.06 FEET

#### SITE PREPARATION

- GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARD FOR LAND GRADING.
- IMMEDIATELY PRIOR TO SEEDING AND TOPSOIL APPLICATION, THE SUBSOIL SHALL BE EVALUATED FOR COMPACTION IN ACCORDANCE WITH STANDARD FOR LAND GRADING.
- TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL STRUCTURE. A UNIFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSETTLED) IS REQUIRED ON ALL SITES. TOPSOIL SHALL BE AMENDED WITH ORGANIC MATTER, AS NEEDED, IN ACCORDANCE WITH THE STANDARD FOR TOPSOILING.
- INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE-STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.



MICHAEL J. McCLELLAND P.E.  
PROFESSIONAL ENGINEER LIC. 32468

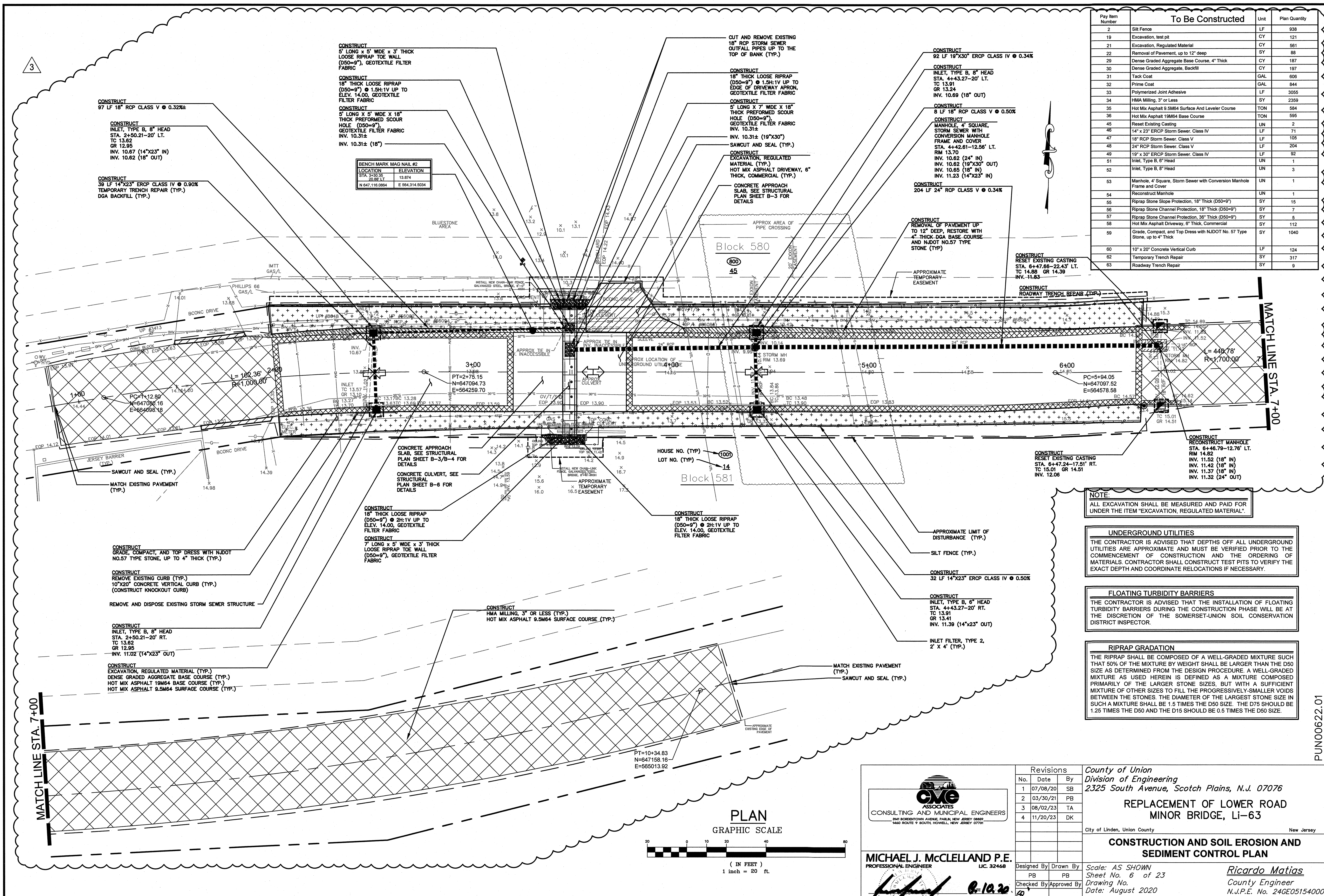
Designed By Drawn By  
SB SB  
Checked By Approved By  
JM

Revisions		
No.	Date	By

County of Union  
Division of Engineering  
2325 South Avenue, Scotch Plains, N.J. 07076  
  
REPLACEMENT OF LOWER ROAD  
MINOR BRIDGE, LI-63  
  
City of Linden, Union County  
New Jersey  
  
SOIL EROSION & SEDIMENT CONTROL  
NOTES AND DETAILS  
  
Scale: AS SHOWN  
Sheet No. 5 of 23  
Drawing No.  
Date: August 2020  
  
Ricardo Matias  
County Engineer  
N.J.P.E. No. 24GE05154000

PUN00622.01





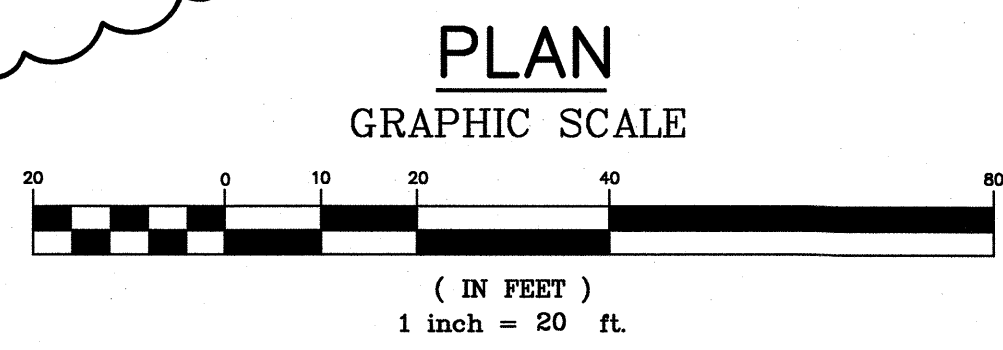
Pay Item Number	To Be Constructed	Unit	Plan Quantity
2	Silt Fence	LF	938
19	Excavation, test pit	CY	121
21	Excavation, Regulated Material	CY	561
22	Removal of Pavement, up to 12" deep	SY	88
29	Dense Graded Aggregate Base Course, 4" Thick	CY	187
30	Dense Graded Aggregate, Backfill	CY	197
31	Tack Coat	GAL	606
32	Prime Coat	GAL	844
33	Polymerized Joint Adhesive	LF	3055
34	HMA Milling, 3" or Less	SY	2359
35	Hot Mix Asphalt 9.5M64 Surface And Leveler Course	TON	584
36	Hot Mix Asphalt 19M64 Base Course	TON	595
45	Reset Existing Casting	UN	2
46	14" x 23" RCP Storm Sewer, Class IV	LF	71
47	18" RCP Storm Sewer, Class V	LF	105
48	24" RCP Storm Sewer, Class V	LF	204
49	19" x 30" RCP Storm Sewer, Class IV	LF	92
51	Inlet, Type B, 6" Head	UN	1
52	Inlet, Type B, 6" Head	UN	3
53	Manhole, 4' Square, Storm Sewer with Conversion Manhole Frame and Cover	UN	1
54	Reconstruct Manhole	UN	1
55	Riprap Stone Slope Protection, 18" Thick (D50=9")	SY	15
56	Riprap Stone Channel Protection, 18" Thick (D50=9")	SY	7
57	Riprap Stone Channel Protection, 36" Thick (D50=9")	SY	5
58	Hot Mix Asphalt Driveway, 6" Thick, Commercial	SY	112
59	Grade, Compact, and Top Dress with NJDOT No. 57 Type Stone, up to 4" Thick	SY	1040
60	10' x 20" Concrete Vertical Curb	LF	124
62	Temporary Trench Repair	SY	317
63	Roadway Trench Repair	SY	9


NOTE:  
ALL EXCAVATION SHALL BE MEASURED AND PAID FOR UNDER THE ITEM "EXCAVATION, REGULATED MATERIAL".

**UNDERGROUND UTILITIES**  
THE CONTRACTOR IS ADVISED THAT DEPTHS OFF ALL UNDERGROUND UTILITIES ARE APPROXIMATE AND MUST BE VERIFIED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND THE ORDERING OF MATERIALS. CONTRACTOR SHALL CONSTRUCT TEST PITS TO VERIFY THE EXACT DEPTH AND COORDINATE RELOCATIONS IF NECESSARY.

**FLOATING TURBIDITY BARRIERS**  
THE CONTRACTOR IS ADVISED THAT THE INSTALLATION OF FLOATING TURBIDITY BARRIERS DURING THE CONSTRUCTION PHASE WILL BE AT THE DISCRETION OF THE SOMERSET-UNION SOIL CONSERVATION DISTRICT INSPECTOR.

**RIPRAP GRADATION**  
THE RIPRAP SHALL BE COMPOSED OF A WELL-GRADED MIXTURE SUCH THAT 50% OF THE MIXTURE BY WEIGHT SHALL BE LARGER THAN THE D50 SIZE AS DETERMINED FROM THE DESIGN PROCEDURE. A WELL-GRADED MIXTURE AS USED HEREIN IS DEFINED AS A MIXTURE COMPOSED PRIMARILY OF THE LARGER STONE SIZES, BUT WITH A SUFFICIENT MIXTURE OF OTHER SIZES TO FILL THE PROGRESSIVELY-SMALLER VOIDS BETWEEN THE STONES. THE DIAMETER OF THE LARGEST STONE SIZE IN SUCH A MIXTURE SHALL BE 1.5 TIMES THE D50 SIZE. THE D75 SHOULD BE 1.25 TIMES THE D50 AND THE D15 SHOULD BE 0.5 TIMES THE D50 SIZE.





CONSULTING AND MUNICIPAL ENGINEERS  
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859  
1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731

**MICHAEL J. McCLELLAND P.E.**  
PROFESSIONAL ENGINEER  
LIC. 32468

*[Signature]* **8-10-20**

Revisions		
No.	Date	By
1	07/08/20	SB
2	03/30/21	PB
3	08/02/23	TA
4	11/20/23	DK

Designed By	Drawn By
PB	PB
Checked By	Approved By

County of Union  
Division of Engineering  
2325 South Avenue, Scotch Plains, N.J. 07076

**REPLACEMENT OF LOWER ROAD  
MINOR BRIDGE, Li-63**

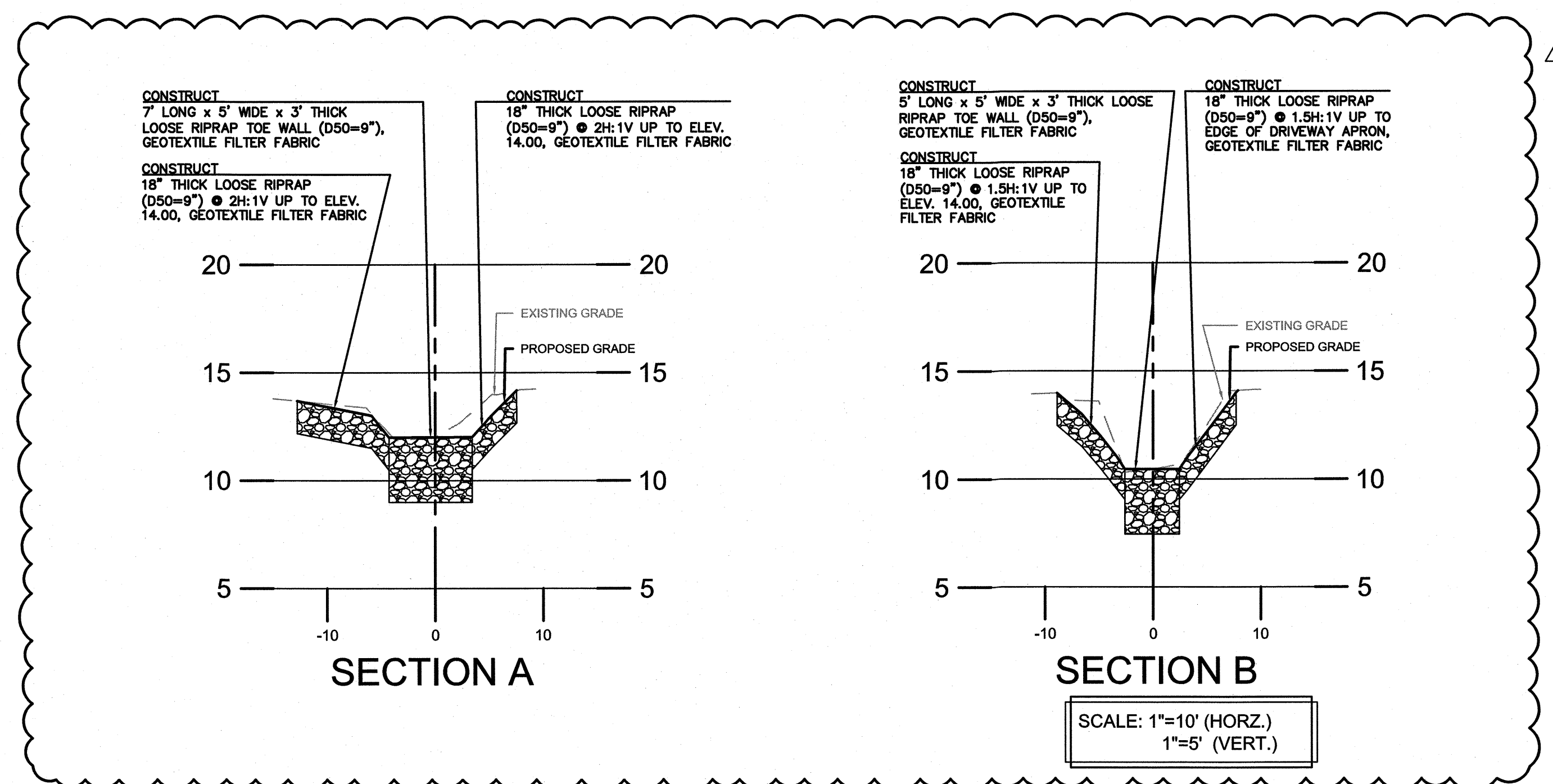
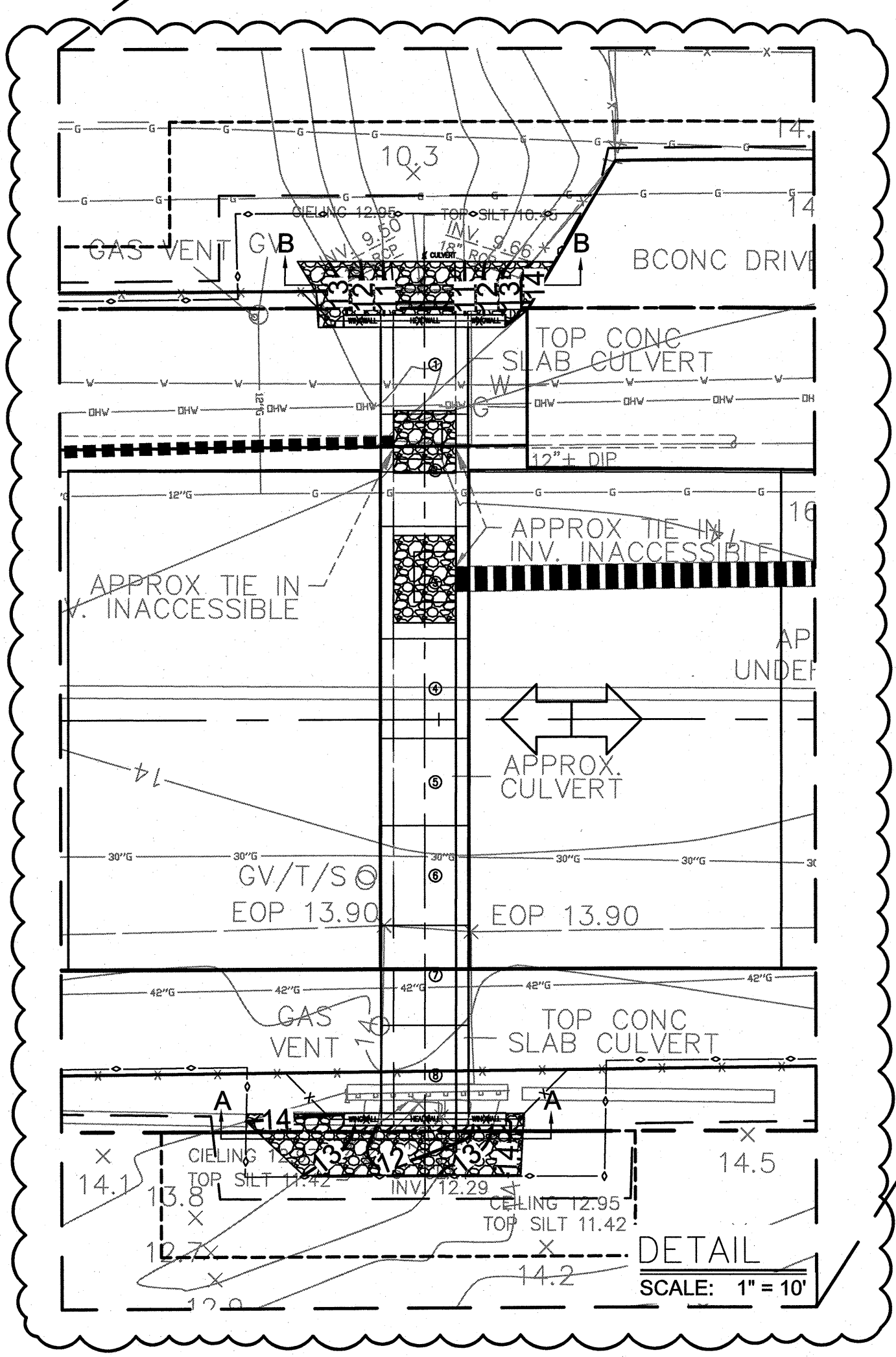
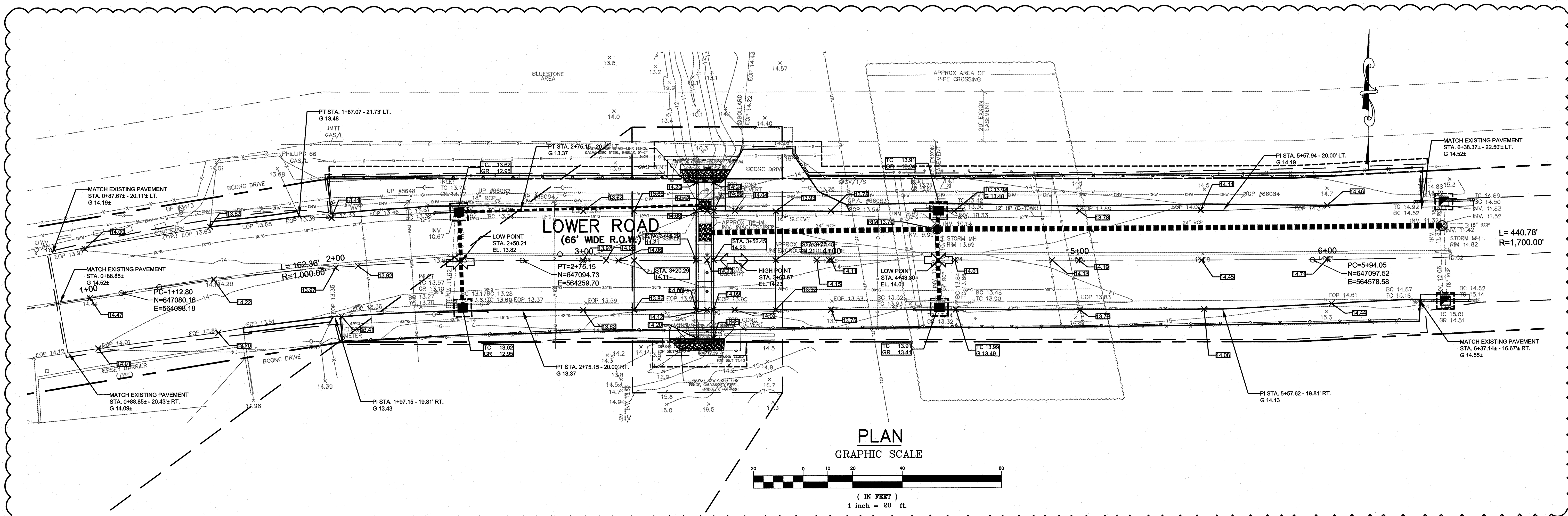
City of Linden, Union County New Jersey

**CONSTRUCTION AND SOIL EROSION AND  
SEDIMENT CONTROL PLAN**

Scale: AS SHOWN  
Sheet No. 6 of 23  
Drawing No.  
Date: August 2020

*Ricardo Matias*  
County Engineer  
N.J.P.E. No. 24GE05154000





**CWE ASSOCIATES**  
CONSULTING AND MUNICIPAL ENGINEERS  
244 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731

**MICHAEL J. McCLELLAND P.E.**  
PROFESSIONAL ENGINEER  
UC 32468

DATE: 8.10.20

Revisions		
No.	Date	By
3	08/02/23	TA
4	11/20/23	DK
5	06/20/24	MSD

Designed By: PB  
Drawn By: PB  
Checked By: PB  
Approved By: PB

County of Union  
Division of Engineering  
2325 South Avenue, Scotch Plains, N.J. 07076

**REPLACEMENT OF LOWER ROAD  
MINOR BRIDGE, Li-63**

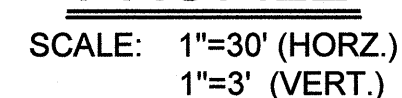
City of Linden, Union County  
New Jersey

**GRADING PLAN**

Scale: AS SHOWN  
Sheet No. 7 of 23  
Date: August 2020

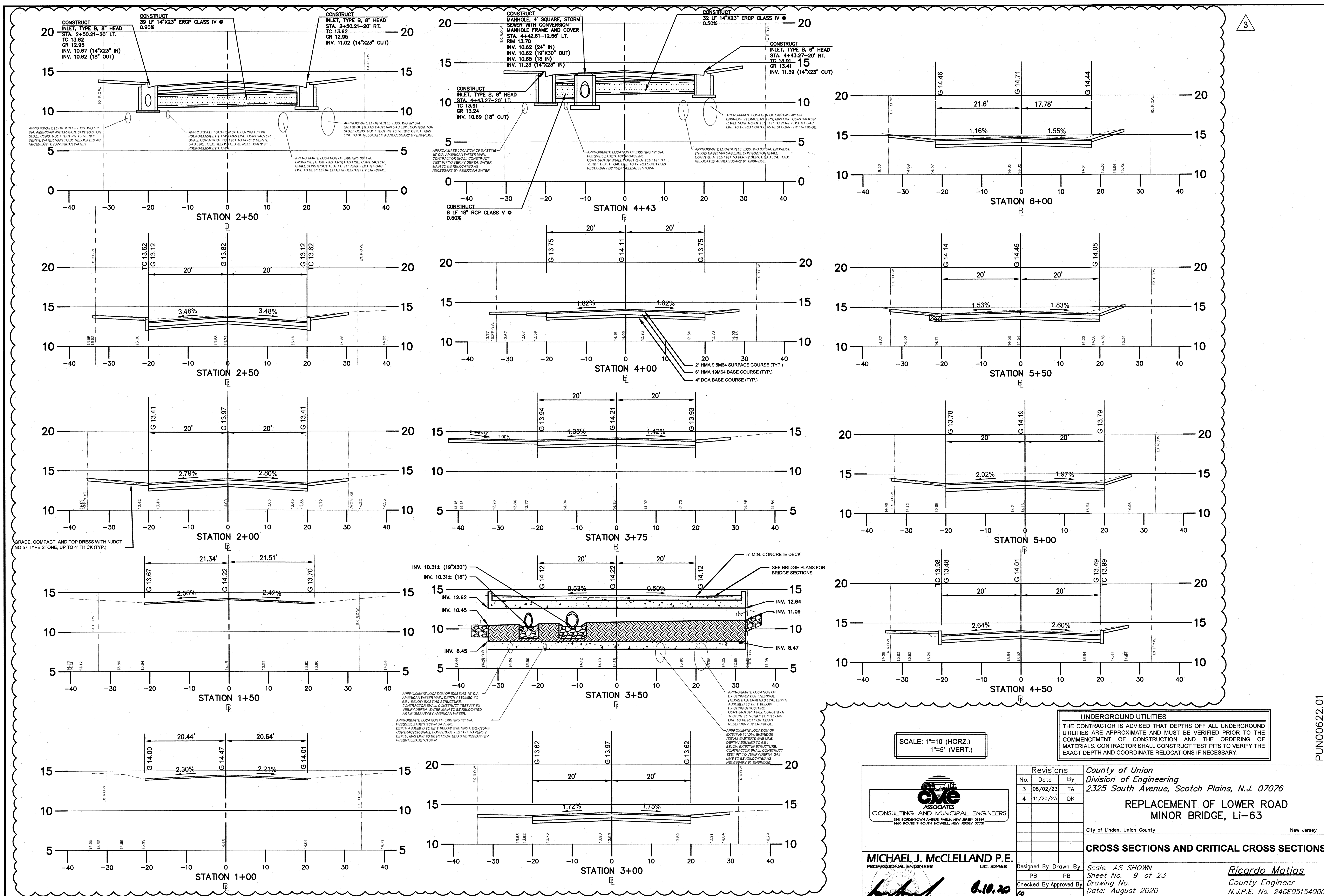
**Ricardo Matias**  
County Engineer  
N.J.P.E. No. 24GE0514000

THE CONTRACTOR IS ADVISED THAT DEPTHS OFF ALL UNDERGROUND UTILITIES ARE APPROXIMATE AND MUST BE VERIFIED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND THE ORDERING OF MATERIALS. CONTRACTOR SHALL CONSTRUCT TEST PITS TO VERIFY THE EXACT DEPTH AND COORDINATE RELOCATIONS IF NECESSARY.



Ricardo Matias  
County Engineer  
N.J.P.E. No. 24GE05154000





SCALE: 1"=10' (HOR.)  
1"=5' (VERT.)

**UNDERGROUND UTILITIES**

THE CONTRACTOR IS ADVISED THAT DEPTHS OFF ALL UNDERGROUND UTILITIES ARE APPROXIMATE AND MUST BE VERIFIED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND THE ORDERING OF MATERIALS. CONTRACTOR SHALL CONSTRUCT TEST PITS TO VERIFY THE EXACT DEPTH AND COORDINATE RELOCATIONS IF NECESSARY.

**Revisions**

No.	Date	By
3	08/02/23	TA
4	11/20/23	DK

**MICHAEL J. McCLELLAND P.E.**  
PROFESSIONAL ENGINEER  
LIC. 32468

**County of Union**  
Division of Engineering  
2325 South Avenue, Scotch Plains, N.J. 07076

**REPLACEMENT OF LOWER ROAD  
MINOR BRIDGE, Li-63**

City of Linden, Union County New Jersey

**CROSS SECTIONS AND CRITICAL CROSS SECTIONS**

Scale: AS SHOWN  
Sheet No. 9 of 23  
Drawing No.  
Date: August 2020

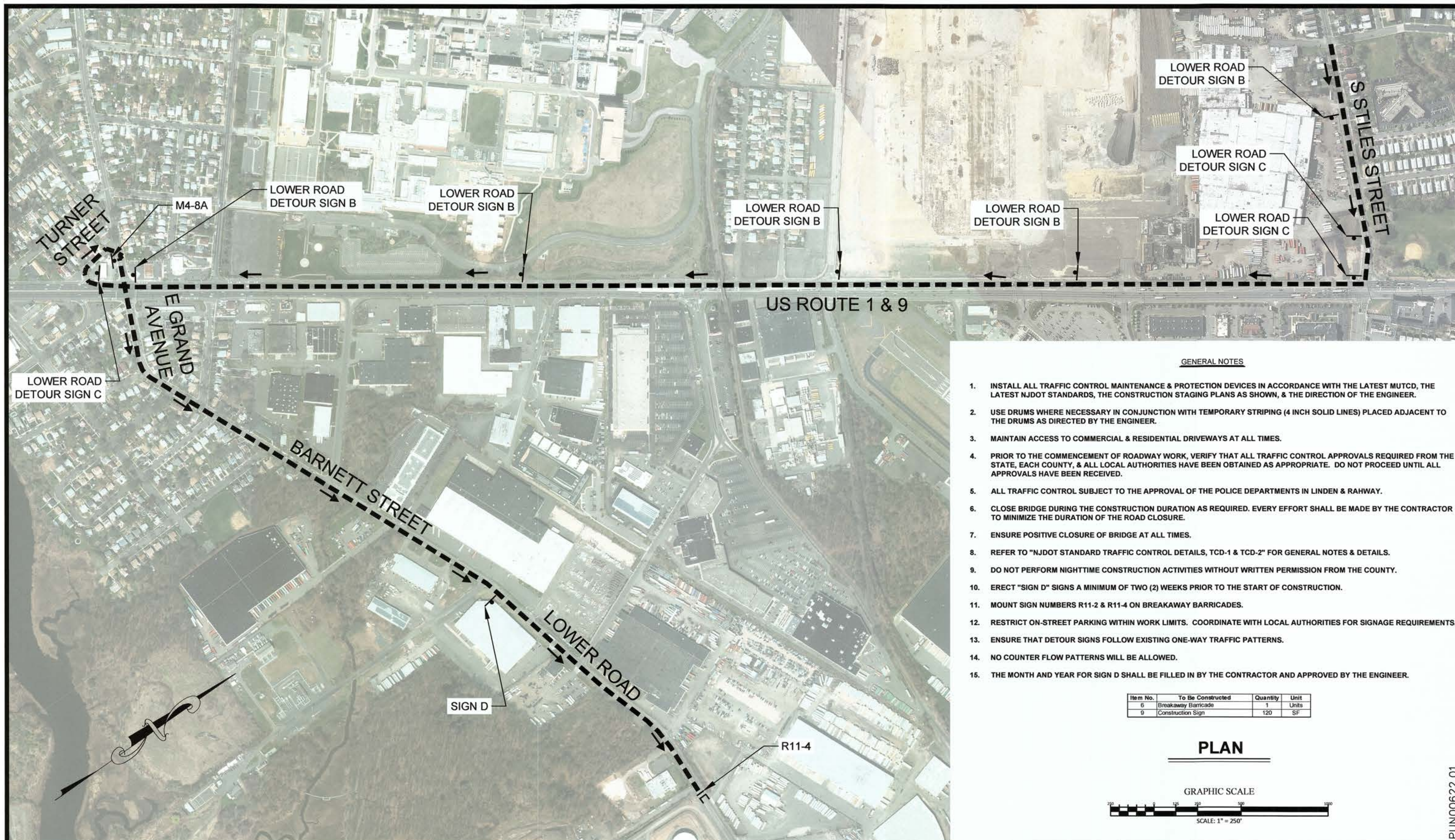
*Ricardo Matias*  
County Engineer  
N.J.P.E. No. 24GE05154000

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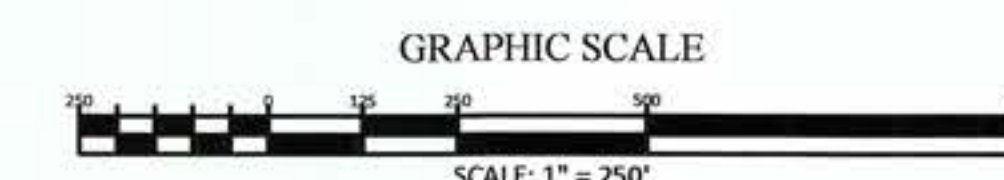


GENERAL NOTES

1. INSTALL ALL TRAFFIC CONTROL MAINTENANCE & PROTECTION DEVICES IN ACCORDANCE WITH THE LATEST MUTCD, THE LATEST NJDOT STANDARDS, THE CONSTRUCTION STAGING PLANS AS SHOWN, & THE DIRECTION OF THE ENGINEER.
2. USE DRUMS WHERE NECESSARY IN CONJUNCTION WITH TEMPORARY STRIPING (4 INCH SOLID LINES) PLACED ADJACENT TO THE DRUMS AS DIRECTED BY THE ENGINEER.
3. MAINTAIN ACCESS TO COMMERCIAL & RESIDENTIAL DRIVEWAYS AT ALL TIMES.
4. PRIOR TO THE COMMENCEMENT OF ROADWAY WORK, VERIFY THAT ALL TRAFFIC CONTROL APPROVALS REQUIRED FROM THE STATE, EACH COUNTY, & ALL LOCAL AUTHORITIES HAVE BEEN OBTAINED AS APPROPRIATE. DO NOT PROCEED UNTIL ALL APPROVALS HAVE BEEN RECEIVED.
5. ALL TRAFFIC CONTROL SUBJECT TO THE APPROVAL OF THE POLICE DEPARTMENTS IN LINDEN & RAHWAY.
6. CLOSE BRIDGE DURING THE CONSTRUCTION DURATION AS REQUIRED. EVERY EFFORT SHALL BE MADE BY THE CONTRACTOR TO MINIMIZE THE DURATION OF THE ROAD CLOSURE.
7. ENSURE POSITIVE CLOSURE OF BRIDGE AT ALL TIMES.
8. REFER TO "NJDOT STANDARD TRAFFIC CONTROL DETAILS, TCD-1 & TCD-2" FOR GENERAL NOTES & DETAILS.
9. DO NOT PERFORM NIGHTTIME CONSTRUCTION ACTIVITIES WITHOUT WRITTEN PERMISSION FROM THE COUNTY.
10. ERECT "SIGN D" SIGNS A MINIMUM OF TWO (2) WEEKS PRIOR TO THE START OF CONSTRUCTION.
11. MOUNT SIGN NUMBERS R11-2 & R11-4 ON BREAKAWAY BARRICADES.
12. RESTRICT ON-STREET PARKING WITHIN WORK LIMITS. COORDINATE WITH LOCAL AUTHORITIES FOR SIGNAGE REQUIREMENTS.
13. ENSURE THAT DETOUR SIGNS FOLLOW EXISTING ONE-WAY TRAFFIC PATTERNS.
14. NO COUNTER FLOW PATTERNS WILL BE ALLOWED.
15. THE MONTH AND YEAR FOR SIGN D SHALL BE FILLED IN BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

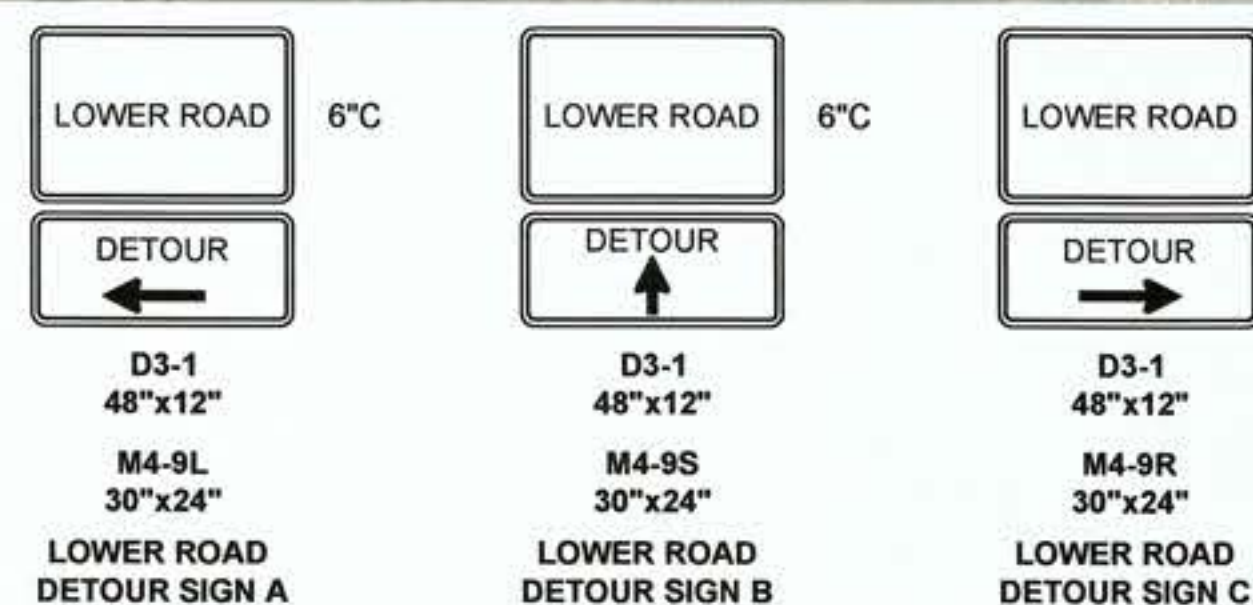
Item No.	To Be Constructed	Quantity	Unit
1	Breakaway Barricade	1	Units
9	Construction Sign	120	SF

PLAN

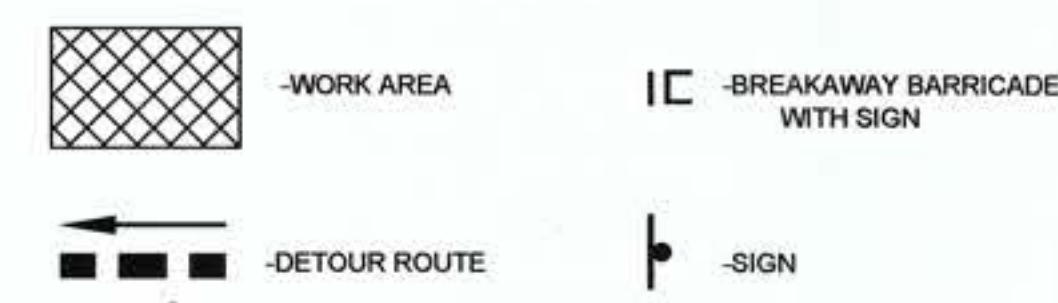


SIGN LEGEND

NOT TO SCALE



LEGEND



**CONSULTING AND MUNICIPAL ENGINEERS**  
2841 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859  
1840 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731

**MICHAEL J. McCLELLAND P.E.**  
PROFESSIONAL ENGINEER  
LIC. 32468

8/10/20

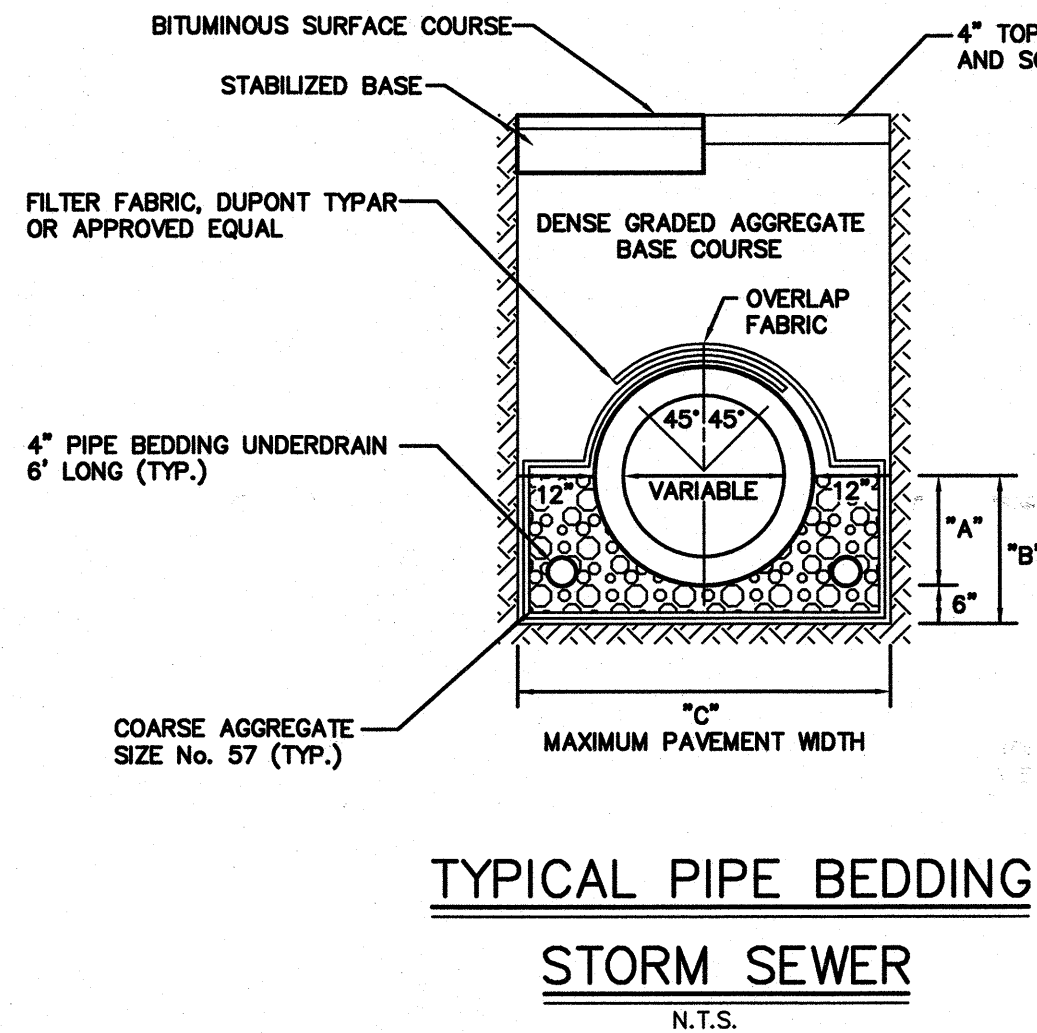
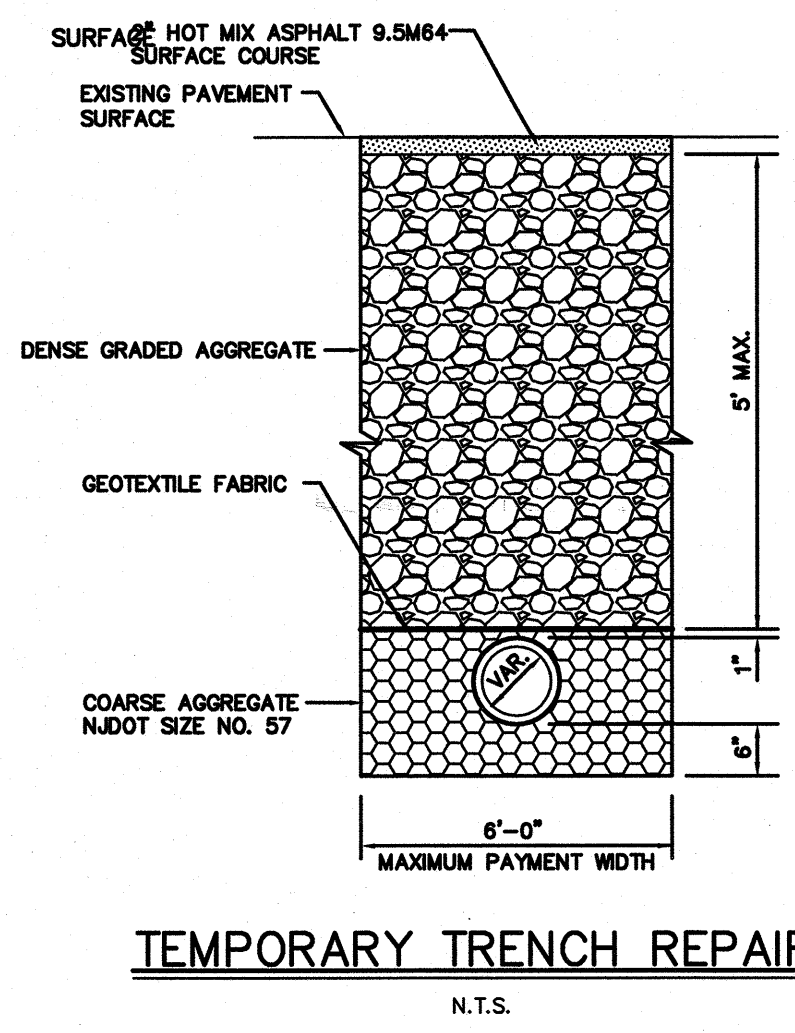
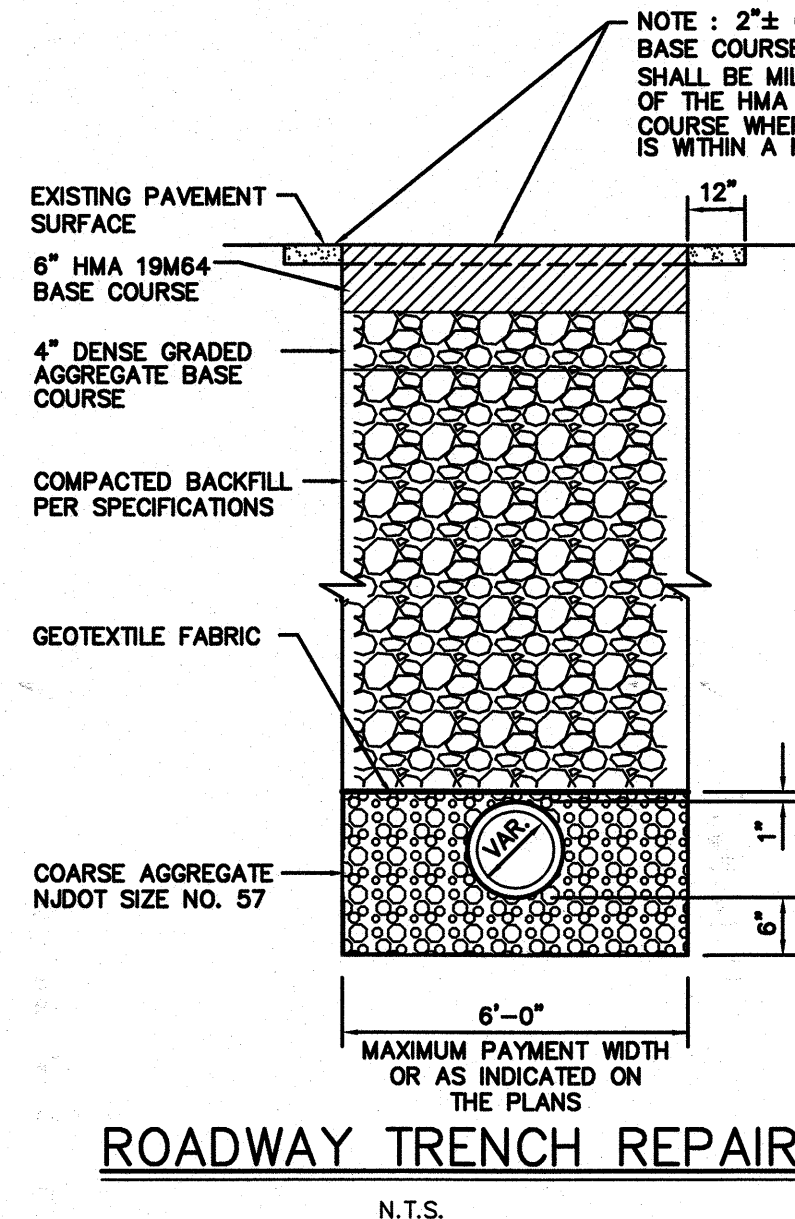
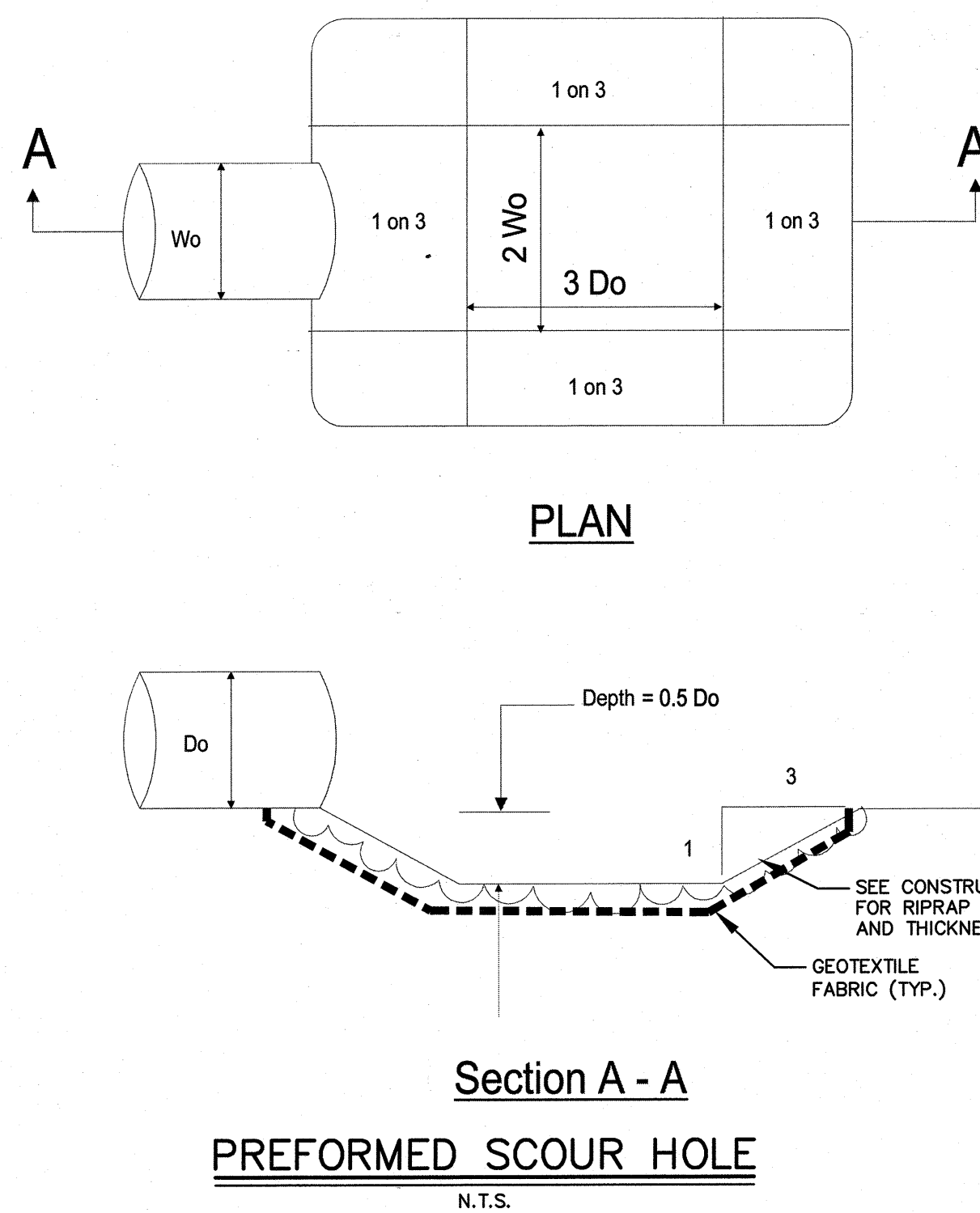
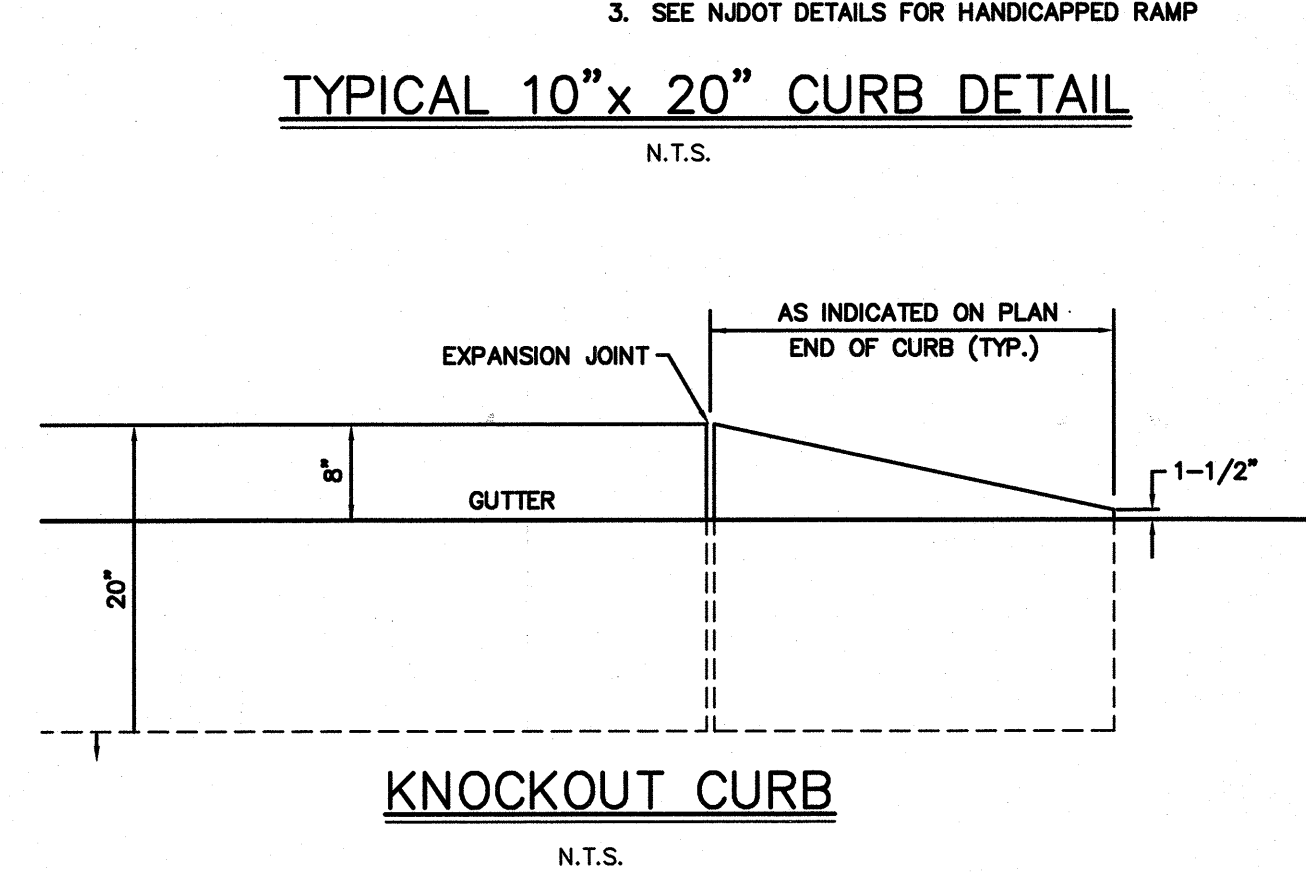
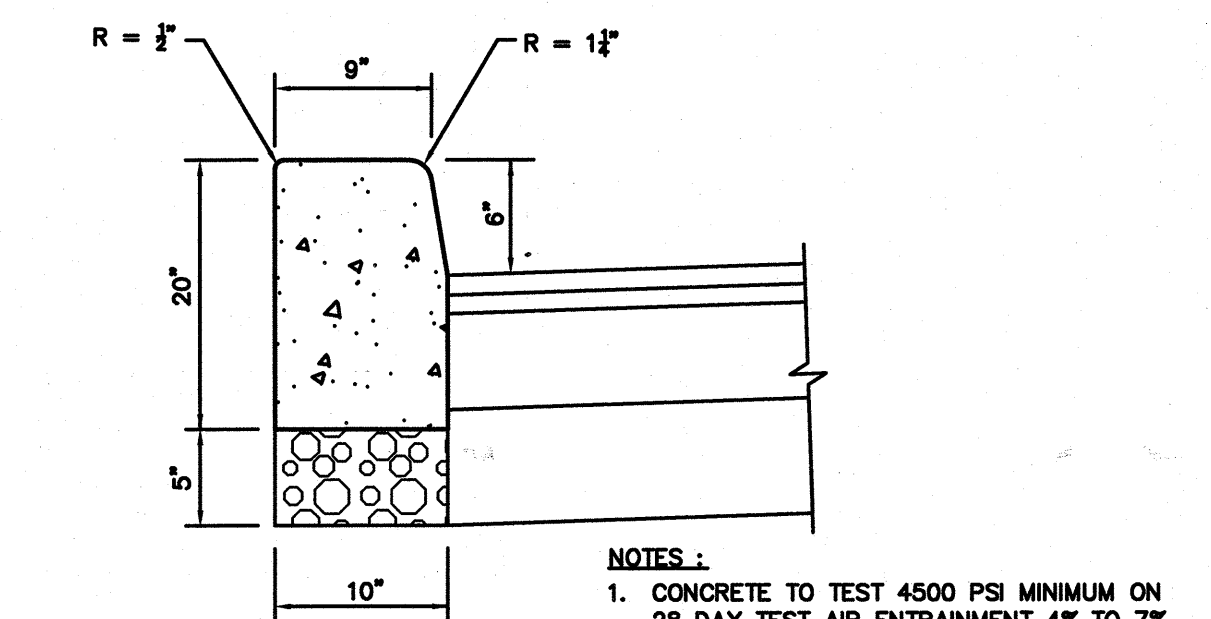
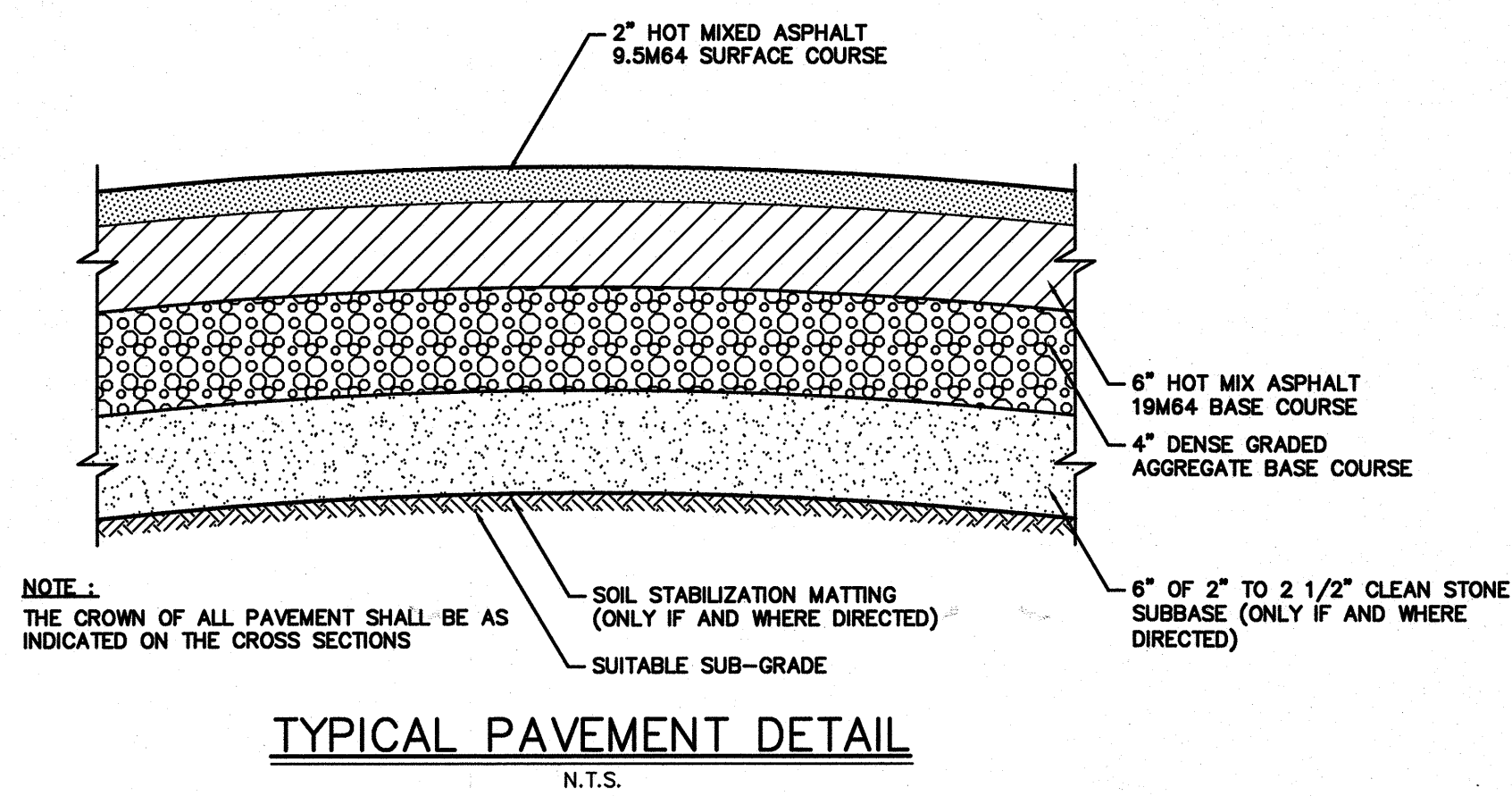
Revisions			County of Union	
No.	Date	By	Division of Engineering	
4	11/20/23	KEC	2325 South Avenue, Scotch Plains, N.J. 07076	
			REPLACEMENT OF LOWER ROAD	
			MINOR BRIDGE, Li-63	
			City of Linden, Union County	
			New Jersey	
			LOWER ROAD FULL BRIDGE CLOSURE EASTBOUND DETOUR PLAN	
Designed By	Drawn By	Scale: AS SHOWN	Ricardo Matias	
RCM	RCM	Sheet No. 11 of 23	County Engineer	
Checked By	Approved By	Drawing No. MPT-2	N.J.P.E. No. 24GE05154000	
KEC	KEC	Date: August 2020		

PUN00622.01



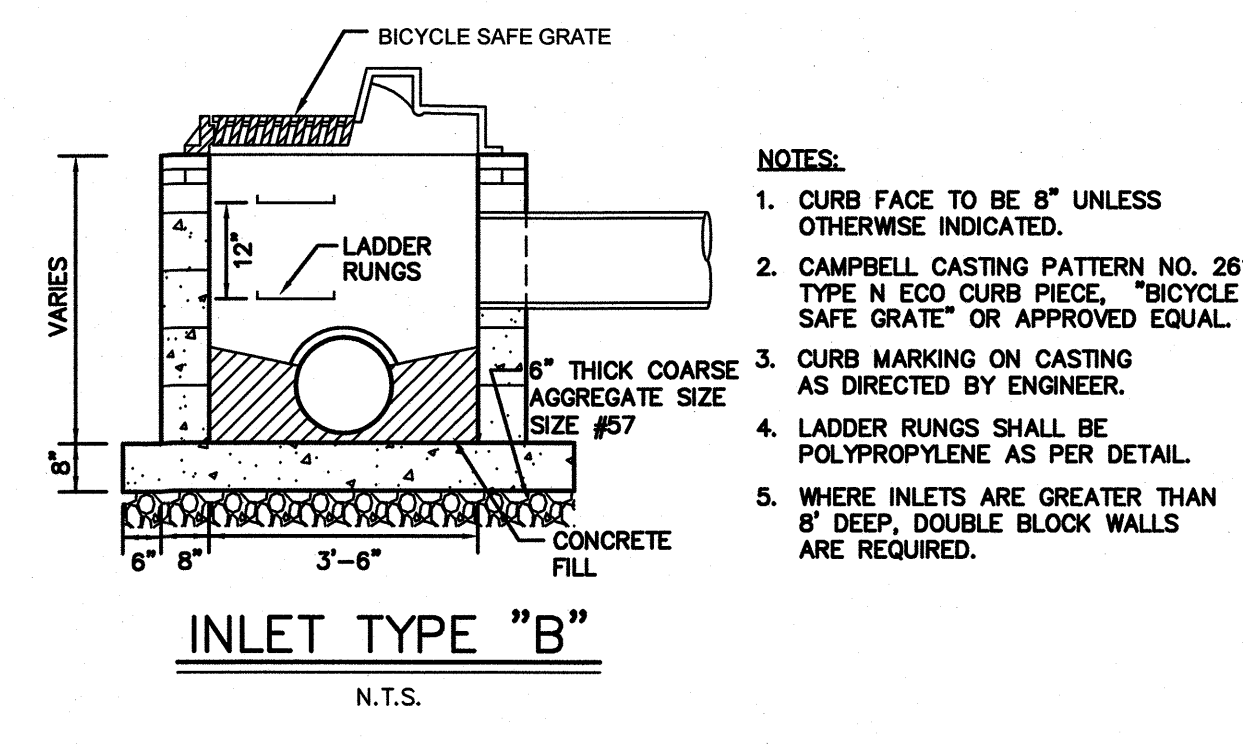
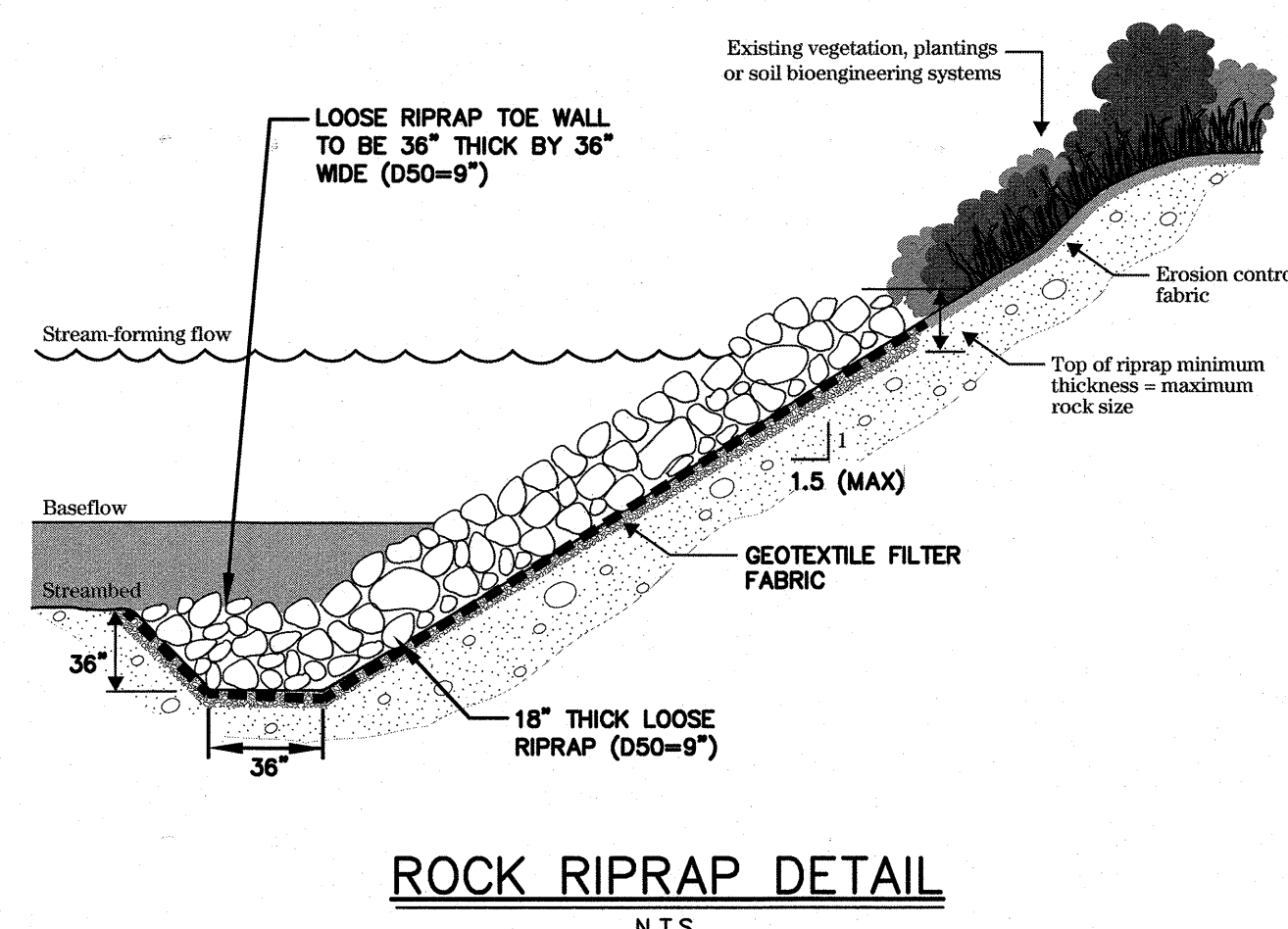
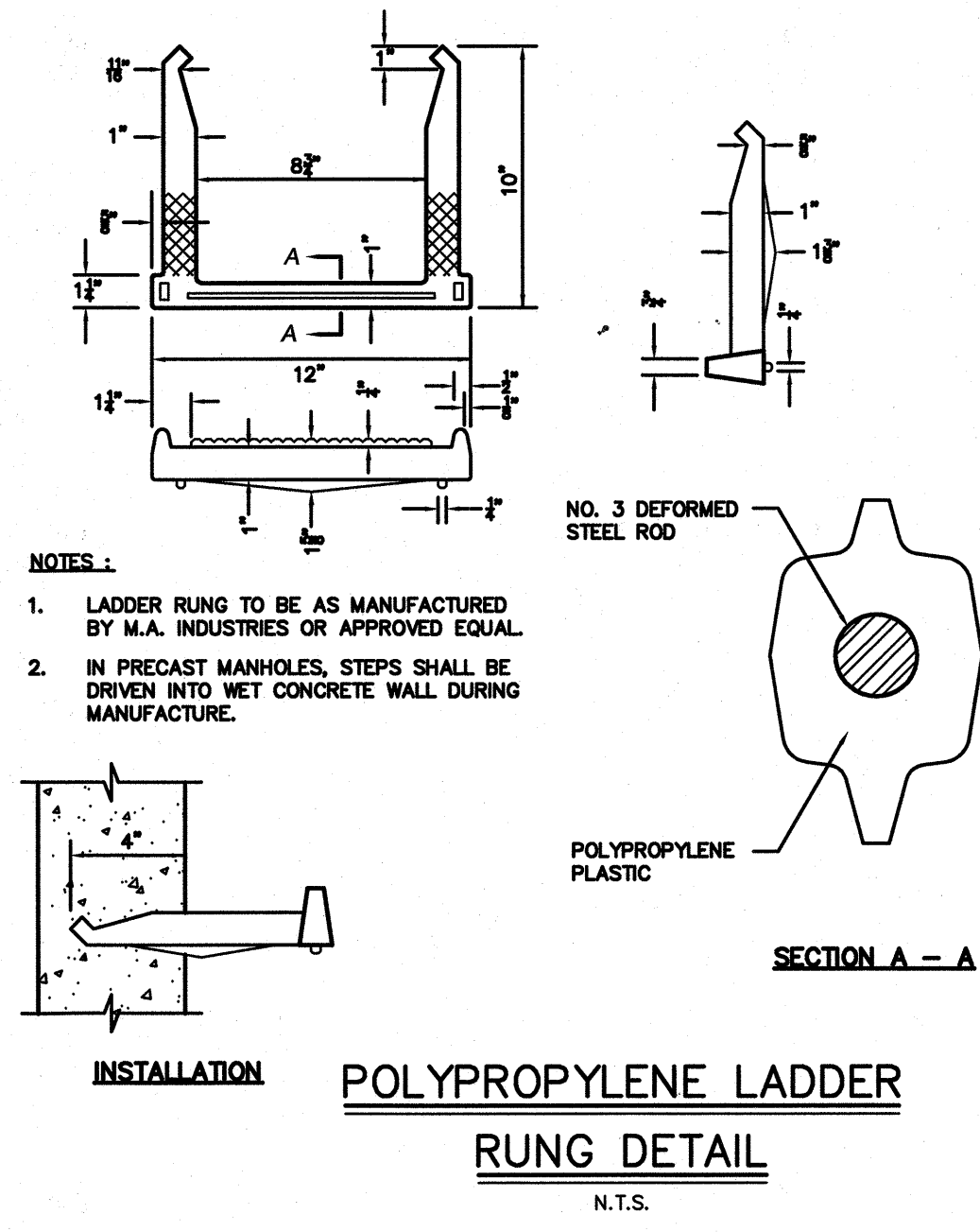
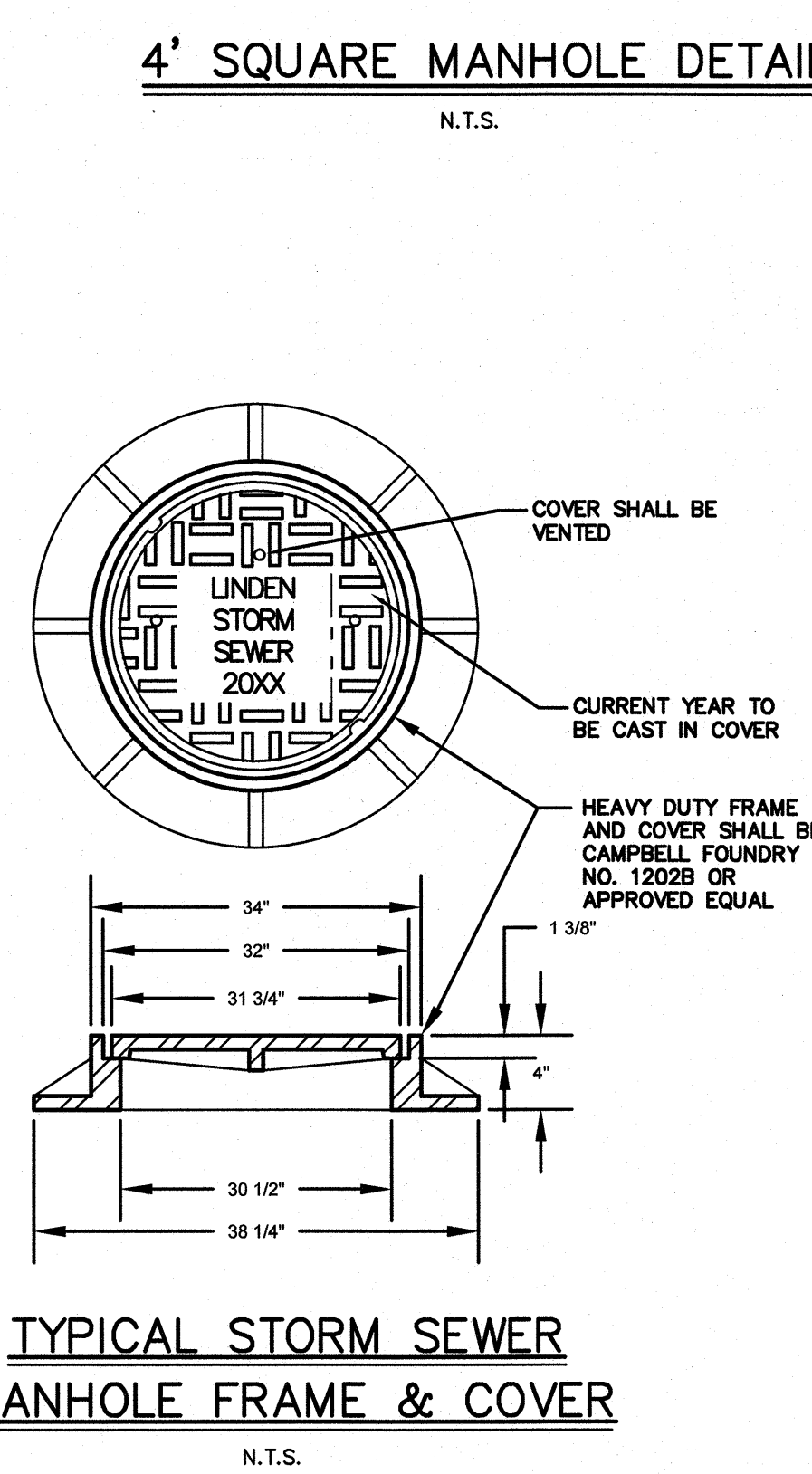
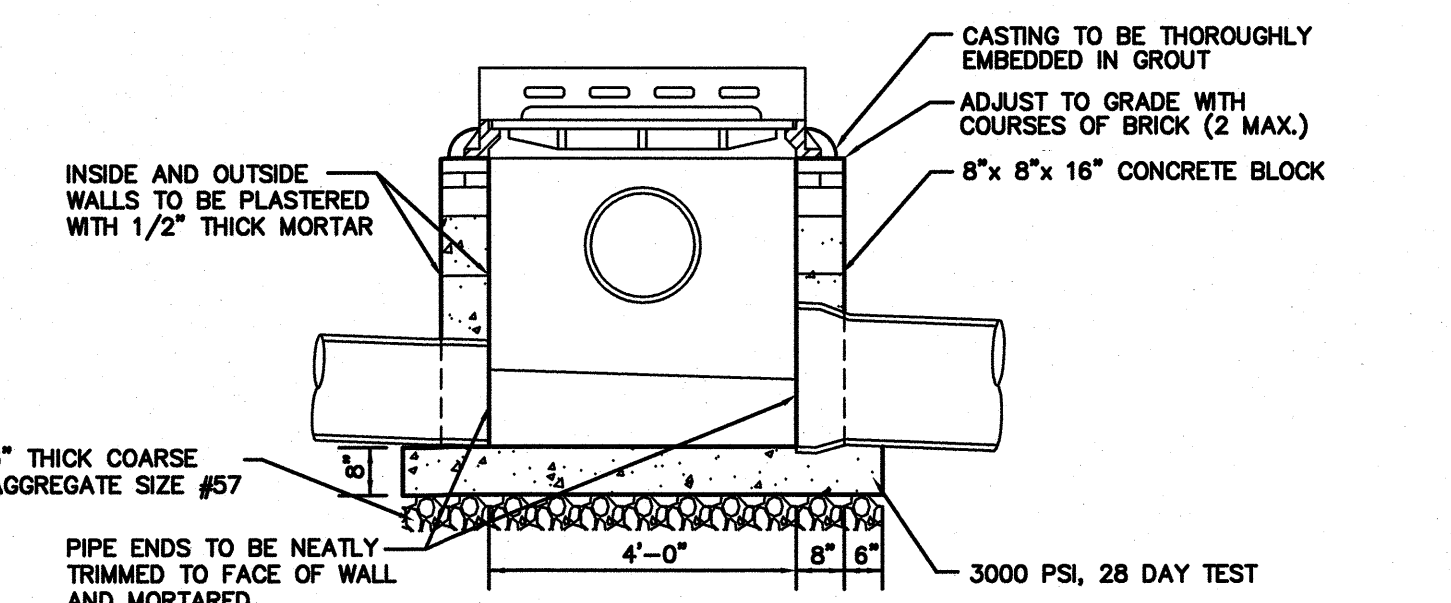
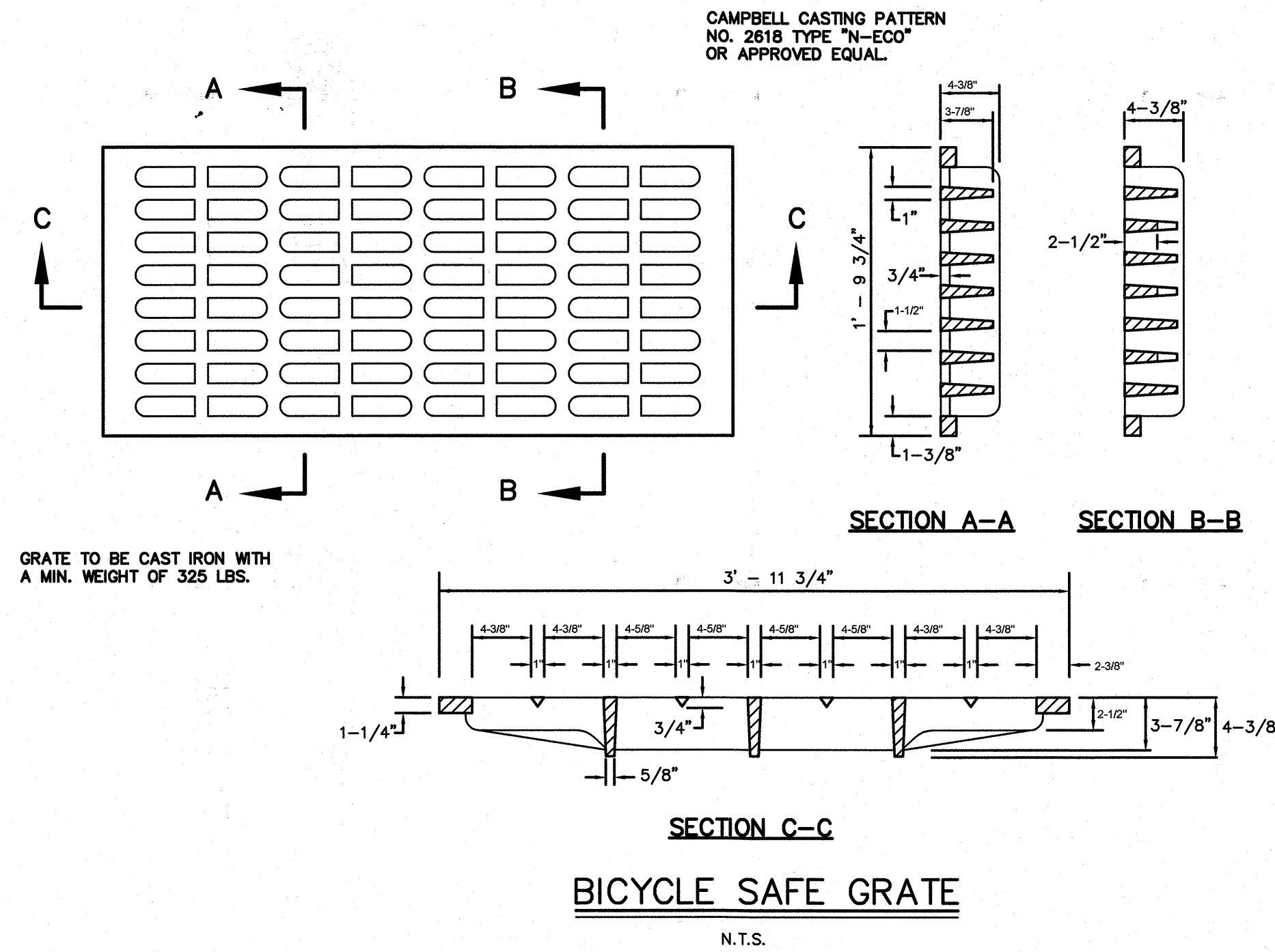
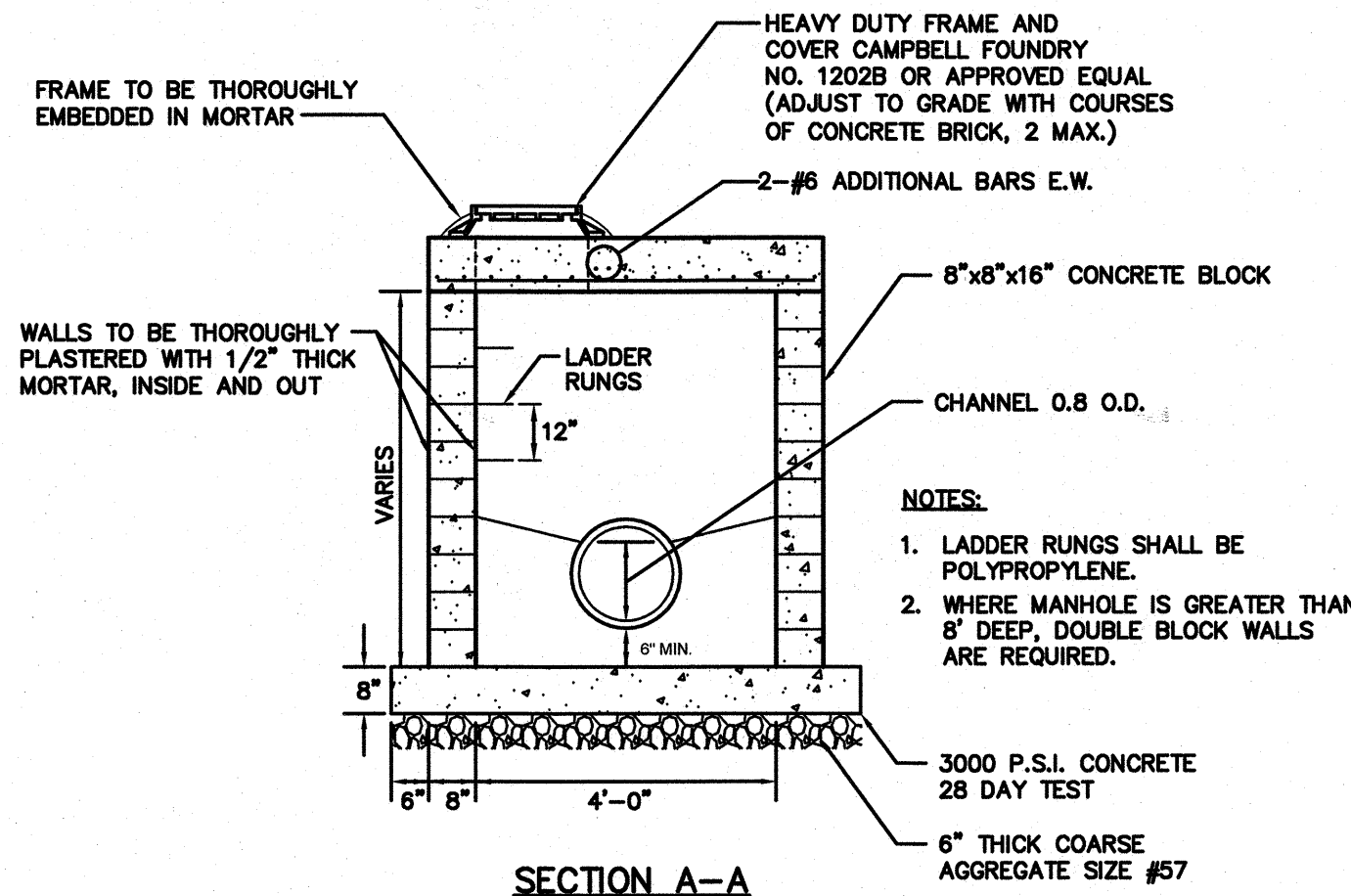
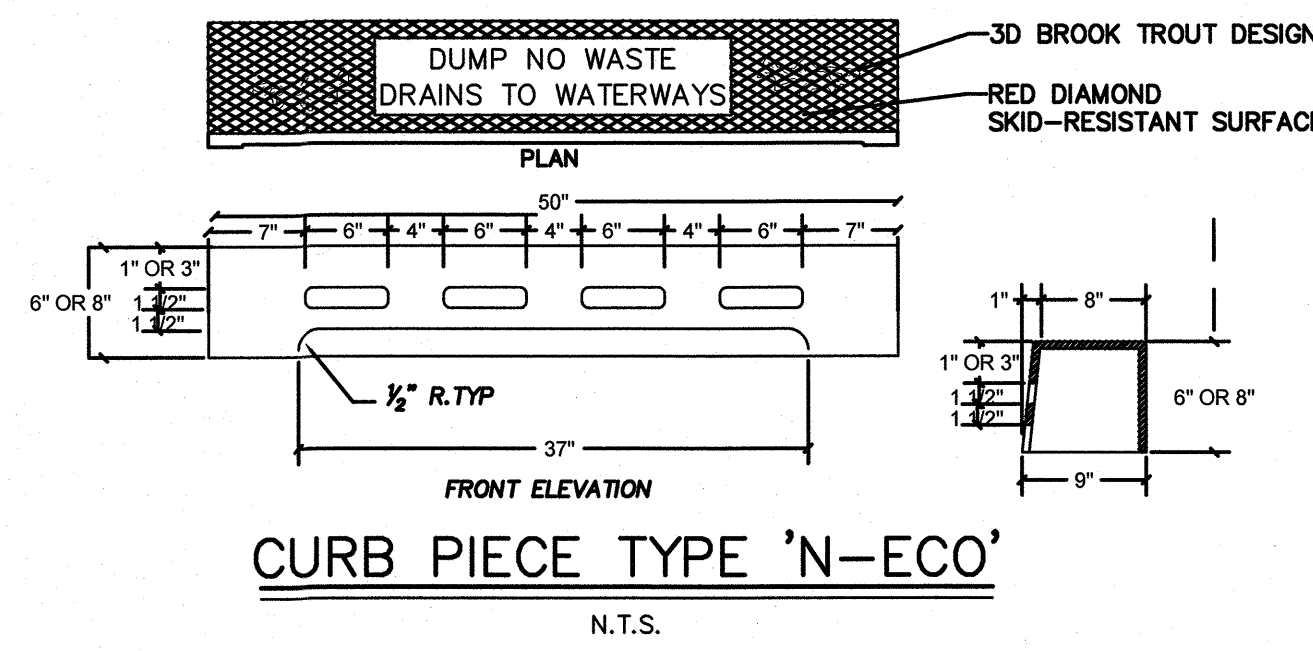
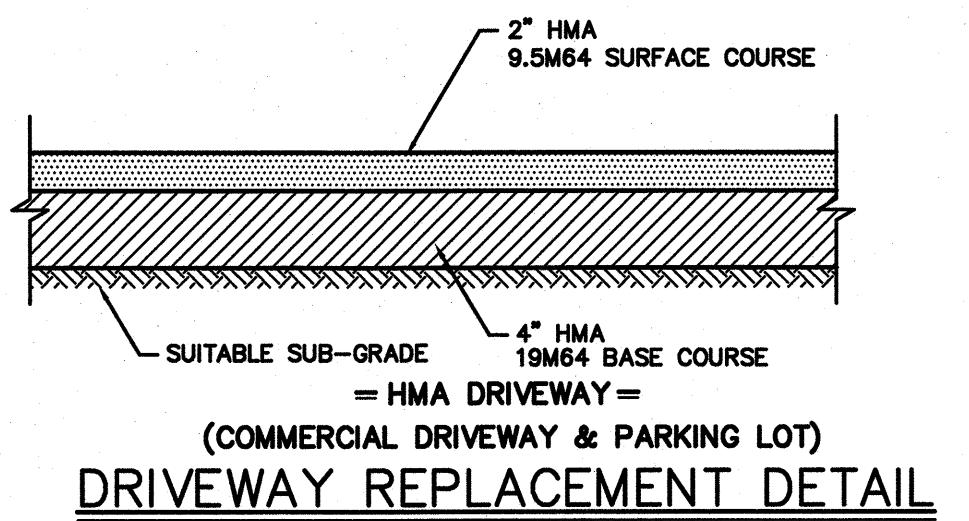






NOTE 1:  
1. UNDERDRAIN SHALL BE CONNECTED TO EACH DOWN STREAM DRAINAGE STRUCTURE AND SHALL BE CAPPED AT THE UPSTREAM END.  
2. FLEXIBLE WATERTIGHT GASKETS SHALL BE USED IN CONCRETE PIPE AND SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER.

PIPE DIAMETER	"A"	"B"	"C"
14"x23"	9"	15"	52"
15"	9"	15"	43"
16"x27"	11"	17"	57"
18"	11"	17"	47"
21"	13"	19"	50"
24"	15"	21"	54"
30"	18"	24"	61"
36"	22"	28"	68"
42"	25"	31"	75"
48"	29"	35"	82"



**OXE ASSOCIATES**  
CONSULTING AND MUNICIPAL ENGINEERS  
3141 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859  
3460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731

**MICHAEL J. McCLELLAND P.E.**  
PROFESSIONAL ENGINEER  
LIC. 32468

6.10.20

Revisions			
No.	Date	By	
1	07/08/20	SB	

County of Union  
Division of Engineering  
2325 South Avenue, Scotch Plains, N.J. 07076

**REPLACEMENT OF LOWER ROAD MINOR BRIDGE, Li-63**

City of Linden, Union County New Jersey

**CONSTRUCTION DETAILS**

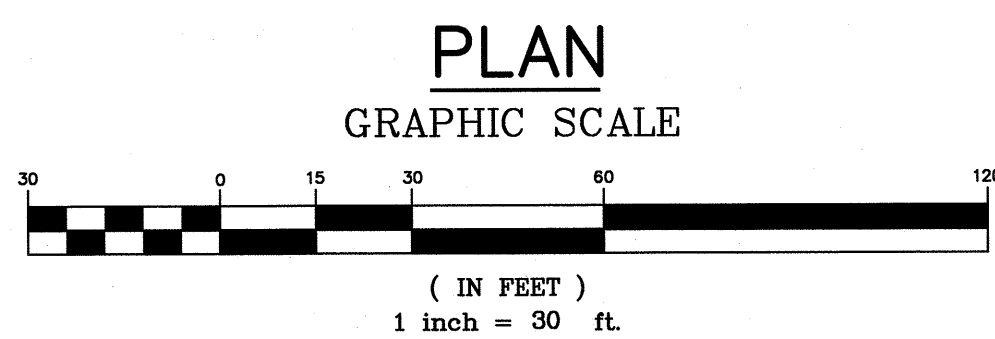
Scale: AS SHOWN  
Sheet No. 13 of 23  
Drawing No.  
Date: August 2020

**Ricardo Matias**  
County Engineer  
N.J.P.E. No. 24GE05154000

PUN00622.01



Pay Item Number	To Be Constructed	Unit	Plan Quantity
61	Traffic Stripes, Long Life, "Thermoplastic", 4" Wide, with Glass Beads	LF	5,392



**MICHAEL J. MCLELLAND P.E.**  
PROFESSIONAL ENGINEER  
U.C. 32468

*[Signature]* 8.10.20

Revisions		
No.	Date	By
3	08/02/23	TA
4	11/20/23	DK

Designed By		Drawn By	
PB		PB	

Checked By		Approved By	

County of Union  
Division of Engineering  
2325 South Avenue, Scotch Plains, N.J. 07076

**REPLACEMENT OF LOWER ROAD  
MINOR BRIDGE, Li-63**

City of Linden, Union County New Jersey

**STRIPING PLAN**

Scale: AS SHOWN  
Sheet No. 14 of 23  
Drawing No.  
Date: August 2020

**Ricardo Matias**  
County Engineer  
N.J.P.E. No. 24GE05154000



## GENERAL NOTES:

1. DESIGN SPECIFICATIONS:  
a. 2020 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION, AS MODIFIED BY SECTION 3 OF THE 2016 NJDOT DESIGN MANUAL FOR BRIDGES AND STRUCTURES, 6TH EDITION.
2. CONSTRUCTION SPECIFICATIONS:  
a. 2019 NJDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ALL AMENDMENTS, AS MODIFIED BY THE SPECIAL PROVISIONS AND THE UNION COUNTY SUPPLEMENTARY SPECIFICATIONS.
3. LIVE LOAD:  
a. AASHTO LRFD HL-93 VEHICULAR LIVE LOAD.
4. SUPERSTRUCTURE  
a. DEAD LOAD INCLUDES A SUPERIMPOSED DEAD LOAD OF 25 PSF FOR FUTURE 2" THICK OVERLAY ON BRIDGE DECK.  
b. SEE BRIDGE DRAWINGS FOR ADDITIONAL DETAILS AND NOTES.
5. SEISMIC DESIGN NOTES:  
(1) SEISMIC PERFORMANCE ZONE I  
(2) BRIDGE OPERATIONAL CATEGORY: ESSENTIAL BRIDGE  
(3) PEAK GROUND ACCELERATION (PGA) =  $0.097 \times g$   
(4) SPECTRAL ACCELERATION COEFFICIENTS  
SHORT PERIOD (0.2 SEC) ACCELERATION COEFFICIENT ( $S_s$ ) =  $0.179 \times g$   
1 SECOND PERIOD ACCELERATION COEFFICIENT ( $S_1$ ) =  $0.037 \times g$   
(5) SITE CLASSIFICATION: "D" STIFF SOIL PROFILE  
 $F_{pga} = 1.6$  As =  $F_{pga} \times PGA = 0.155 \times g$   
 $F_a = 1.6$  Sds =  $F_a \times S_s = 0.286 \times g$   
 $F_v = 2.400$  Sd1 =  $F_v \times S_1 = 0.089 \times g$
6. CONCRETE DESIGN STRESSES:  
a. IN ACCORDANCE WITH SECTION 27.1 OF THE NJDOT DESIGN MANUAL FOR BRIDGES AND STRUCTURES, 6TH EDITION, THE CONCRETE CLASSES ARE DEFINED AS FOLLOWS:  
(1) CLASS A ..... CIP APPROACH SLABS  
(2) CLASS B ..... CIP ABUTMENTS, WINGWALLS, FOOTINGS  
(3) CLASS HPC-1 ..... CIP DECKS, SIDEWALKS, CONCRETE PATCH, PARAPETS, CURBS AND PYLONS  
(4) CLASS P ..... PRECAST BEAMS OR CULVERTS  
b. IN ACCORDANCE WITH TABLES 903.03.06-3, 903.05.02-1 AND 903.05.04-1 OF THE 2019 NJDOT STANDARD SPECIFICATIONS, THE FOLLOWING ARE THE SPECIFIED MINIMUM COMPRESSIVE STRENGTHS REQUIRED FOR CAST-IN-PLACE (CIP) AND PRECAST CONCRETE ( $f_c$ ):  
(1) CLASS DESIGN STRENGTHS:  
CLASS A ..... 4,600 PSI  
CLASS B ..... 3,700 PSI  
CLASS HPC-1 ..... 4,400 PSI  
CLASS P ..... 5,500 PSI  
(2) VERIFICATION STRENGTHS:  
CLASS A ..... 5,400 PSI  
CLASS B ..... 4,500 PSI  
CLASS HPC-1 ..... 5,400 PSI  
CLASS P ..... 6,000 PSI  
(3) ALLOWABLE STRESS, EXTREME FIBER IN COMPRESSION ( $f_c$ ):  
CLASS A ..... 1,600 PSI  
CLASS B ..... 1,200 PSI  
CLASS HPC-1 ..... 1,600 PSI  
CLASS P ..... 2,000 PSI
7. REINFORCEMENT STEEL:  
a. ASTM A615 (GRADE 60),  $f_y = 60,000$  PSI,  $f_s = 24,000$  PSI  
b. ALL REINFORCING STEEL BARS, DOWELS, WELDED WIRE FABRIC AND/OR SUPPORT CHAIRS TO BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A767. ELECTRO PLATED GALVANIZING IS NOT ACCEPTABLE AND WILL BE REJECTED.  
c. BRICKS OR OTHER MASONRY SUPPORTS FOR THE REBAR MATS WILL NOT BE PERMITTED.
8. BORINGS:  
- INDICATES APPROXIMATE LOCATION OF THE PROJECT BORINGS. FOR LOCATIONS OF BORINGS, SEE DRAWING NO. B-3.
9. ELEVATION DATUM:  
a. NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)  
b. VERTICAL DATUM DERIVED VIA REAL TIME KINEMATIC SURVEY IN COORDINATION WITH KEYSTONE KEYNET VRS NETWORK.
10. STRUCTURAL STEEL  
a. STRUCTURAL STEEL SHALL CONFORM TO AASHTO M270, GRADE 50 (ASTM A 709, GRADE 50) DESIGNATION, EXCEPT WHERE NOTED OTHERWISE.  
b. STEEL SHEET PILING SHALL CONFORM TO ASTM A572 GRADE 50.  
c. STEEL ANCHOR RODS SHALL CONFORM TO AASHTO M270, GRADE 50 ASTM A 709, GRADE 50.
11. FOUNDATION DESIGN CRITERIA:  
a. CULVERT, WINGWALLS AND BURIED STRUCTURES: USE SPREAD FOOTINGS ON SOIL. MAXIMUM ALLOWABLE SERVICE BEARING CAPACITY = 1,100 PSF.  
b. FRICTION COEFFICIENT FOR SLIDING = 0.60 AND SOIL FRICTION ANGLE ( $\phi$ ) = 34°.  
c. LOADS  
(1) UNIT WEIGHT OF SOIL ..... 125 PCF  
(2) UNIT WEIGHT OF CONCRETE ..... 150 PCF
12. UTILITIES:  
a. UTILITY LOCATIONS SHOWN ON THESE PLANS ARE FROM ABOVE GROUND OBSERVATIONS AND RECORD INFORMATION PROVIDED BY THE VARIOUS UTILITY COMPANIES.  
b. THE INFORMATION SHOWN ON THESE PLANS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS BASED ON INFORMATION AVAILABLE AT THE TIME OF THE DESIGN AND IS NOT GUARANTEED TO BE ACCURATE NOR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF ALL UNDERGROUND AND ABOVE GROUND UTILITIES WITHIN THE PROJECT LIMITS AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE POTENTIAL FOR CONFLICTS IN ORDER TO AVOID ANY DISRUPTION OF SERVICE.  
c. NEW JERSEY ONE-CALL MUST BE CONTACTED AT 1-800-272-1000 AT LEAST THREE (3) FULL WORKING DAYS, BUT NOT MORE THAN TEN (10) DAYS, PRIOR TO THE PLANNED START DATE OF THE DIGGING OPERATIONS.  
d. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ARRANGE FOR ALL UTILITY WORK ESSENTIAL FOR THE COMPLETION OF THE PROJECT AND TO COORDINATE THE WORK CARRIED ON BY THE PUBLIC UTILITIES WITH HIS OWN WORK. THE CONTRACTOR SHALL COOPERATE WITH UTILITY COMPANIES IN THE REMOVAL, RELOCATIONS AND REPLACEMENT OF UTILITIES. LOCATION OF RELOCATED UTILITIES SHALL BE VERIFIED WITH RESPECTIVE UTILITY COMPANIES. WHENEVER UNDERGROUND UTILITIES ARE ENCOUNTERED, THE CONTRACTOR SHALL TAKE SPECIAL PRECAUTIONS TO PREVENT BREAKAGE AND TO AVOID ANY DISRUPTION OF SERVICE.  
e. THERE ARE VARIOUS OVERHEAD FACILITIES WITHIN THE PROJECT LIMITS. UNLESS THE RESPONSIBLE UTILITY ALLOWS HIM TO TEMPORARILY OR PERMANENTLY RELOCATE THESE FACILITIES, THE CONTRACTOR SHALL ASSUME THAT THE FACILITIES CANNOT BE SHUT DOWN FOR ANY SIGNIFICANT AMOUNT OF TIME. THEREFORE, THE CONTRACTOR SHALL STAGE HIS WORK AROUND THE OVERHEAD UTILITY LINES, INCLUDING ANY WORK REQUIRING THE USE OF CRANES, WHILE MEETING ALL OSHA STANDARDS, INCLUDING THE VOLTAGE PROXIMITY CT. THE CONTRACTOR SHALL ALSO CONSIDER THE IMPACT OF THE OVERHEAD UTILITIES WHEN SCHEDULING OPERATIONS AND SELECTING EQUIPMENT TO PERFORM THE WORK REQUIRED FOR THIS PROJECT. PARTICULAR ATTENTION SHALL BE GIVEN TO THE TEMPORARY SHEETING/OFFERDAMS, PILES AND/OR BEAM ERECTION TO BE CONSTRUCTED IN THE VICINITY OF THE OVERHEAD UTILITIES. NO CLAIM FOR ADDITIONAL COMPENSATION OR EXTENSION IN CONTRACT TIME WILL BE CONSIDERED FOR PROBLEMS OR DELAYS ENCOUNTERED AS A RESULT OF WORKING IN THE VICINITY OF THE OVERHEAD UTILITIES.

## GENERAL NOTES (CONTINUED):

- f. THERE MAY BE UNDERGROUND SEWER, GAS AND/OR OTHER EXISTING UTILITY LINES WITHIN THE PROJECT LIMITS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL UTILITY SERVICE FLOWS AND PRESSURES FOR THESE LINES, UNLESS WRITTEN APPROVAL BY THE RESPONSIBLE UTILITY PERMITS HIM TO DO OTHERWISE. NO SEPARATE PAYMENT WILL BE MADE FOR COORDINATION WITH THE UTILITY OR FOR THE TEMPORARY SUPPORT OF EXISTING FACILITIES TO REMAIN DURING CONSTRUCTION. ALL ASSOCIATED COSTS FOR SUCH WORK SHALL BE INCLUDED IN THE LUMP SUM BID FOR THE ITEM "CLEARING SITE".
- g. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO ADEQUATELY PROTECT THE EXISTING STRUCTURES, FACILITIES, UTILITIES AND/OR EQUIPMENT THAT ARE TO REMAIN. ANY DAMAGE WHATSOEVER TO THE EXISTING STRUCTURES, FACILITIES, UTILITIES AND/OR EQUIPMENT THAT ARE TO REMAIN RESULTING FROM THE CONTRACTOR'S WORK SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER.
13. NO SEPARATE PAYMENT SHALL BE MADE FOR REMOVAL OF ITEMS THAT INTERFERE WITH CONSTRUCTION ACTIVITY, ITEMS DESIGNATED TO BE RELOCATED, AND NEW TRAFFIC SIGNS. ALL COSTS THEREOF ARE TO BE INCLUDED IN THE BID PRICE FOR THE PAY ITEM "CLEARING SITE".
14. THE CONTRACTOR SHALL EXAMINE AND VERIFY IN THE FIELD ALL EXISTING CONDITIONS AND DIMENSIONS WITH THOSE SHOWN ON THE PLANS. IF FIELD CONDITIONS AND DIMENSIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL USE THE FIELD CONDITIONS AND DIMENSIONS AND MAKE THE APPROPRIATE CHANGES TO THOSE SHOWN ON THE PLANS AS APPROVED BY THE ENGINEER. THE RESULTS OF THIS CHECK OF CONDITIONS AND DIMENSIONS SHALL BE SO NOTED ON THE DRAWINGS SUBMITTED FOR APPROVAL.
15. THERE SHALL BE NO CLAIM AGAINST THE COUNTY MADE BY THE CONTRACTOR FOR WORK PERTAINING TO MODIFICATIONS AS MAY BE REQUIRED DUE TO ANY DIFFERENCES BETWEEN ACTUAL FIELD CONDITIONS AND THE DETAILS AND DIMENSIONS SHOWN ON THE CONTRACT PLANS.
16. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DITCH RUNOFF BY BYPASS PUMPING OR OTHER MEANS AND SHALL BE PAID FOR UNDER THE ITEM "BYPASS PUMPING".
17. ROCK BACKFILL SHALL BE INSTALLED ADJACENT TO SUBSTRUCTURE WALLS, FOOTINGS AND RENO MATTRESS AS DIRECTED BY THE RESIDENT ENGINEER. THE WORK WILL BE PERFORMED ON AN "IF AND WHERE DIRECTED" BASIS.
18. SHOP DRAWINGS  
IF NO CHANGES OR DEVIATIONS FROM THE CONTRACT DRAWINGS ARE PROPOSED, THEN THE CONTRACTOR IS REQUIRED TO SUBMIT FOR THE ENGINEER'S REVIEW AND APPROVAL CERTIFIED SHOP DRAWINGS FOR ALL CONCRETE REINFORCING STEEL PLACEMENT, INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: FLOOR SLABS, WALLS, FOOTINGS, ABUTMENTS, WINGWALLS, RETAINING WALLS, PARAPETS, BARRIERS, DECKS, APPROACH SLABS, SIDEWALKS, PRESTRESSED CONCRETE BOX BEAMS AND DIAPHRAGMS, AND/OR PRECAST CONCRETE CULVERTS. THE CONTRACT DRAWINGS WILL NOT BE PERMITTED AS A SUBSTITUTE FOR THESE REQUIRED SHOP DRAWINGS UNDER ANY CIRCUMSTANCE. IF THE CONTRACTOR PROPOSES ANY CHANGE OR DEVIATION FROM THE CONTRACT DRAWINGS, THEN THESE SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW JERSEY RETAINED BY THE CONTRACTOR. CONSTRUCTION WILL NOT BE ALLOWED TO PROCEED WITHOUT APPROVED SHOP DRAWINGS.
19. ALL EXCAVATION SHALL BE MEASURED AND PAID FOR UNDER THE ITEM "EXCAVATION, REGULATED MATERIAL".

SUMMARY OF QUANTITIES				
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	AS-BUILT QUANTITY
18	Clearing Site	LS	1	
21	Excavation, regulated material	CY	430	
24	1-9 Soil aggregate	CY	60	
26	Coarse Aggregate, Size No. 57	CY	134	
37	Reinforcement steel, galvanized	LB	26,100	
38	Concrete Wing Wall	CY	4	
39	Precast Concrete Culvert	LF	65	
40	Epoxy Waterproofing	SY	70	
41	Concrete Bridge Deck, HPC	CY	10	
42	Concrete Bridge Approach	CY	125	
43	Chain-Link Fence, Galvanized Steel, Bridge, 6'-0" High	LF	47	
44	Bronze Bridge Plaque	UNIT	2	
50	Concrete Headwall	CY	1	
64	Bypass Pumping	LS	1	

## NOTES:

1. FOR GENERAL NOTES, SEE THIS DRAWING.
2. FOR EXISTING CULVERT PLAN, DEMOLITION PLAN AND SECTIONS, SEE DRAWING NO. B-2.
3. FOR PROPOSED GENERAL CULVERT PLAN AND ELEVATIONS, SEE DRAWING NO. B-3.
4. FOR CULVERT, WINGWALL, DECK AND APPROACH SLAB SECTIONS AND DETAILS, SEE DRAWING NO. B-4.
5. FOR ADDITIONAL CULVERT PLAN, SECTIONS, MISCELLANEOUS DETAILS, AND REINFORCEMENT SCHEDULES, SEE DRAWINGS NOS. B-5 THROUGH B-7.
6. FOR MISCELLANEOUS STRUCTURAL DETAILS, SEE DRAWING NO. B-8.
7. FOR LOGS OF TEST BORINGS, SEE DRAWING NO. B-9.

## LIST OF ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE AND HIGHWAY TRANSPORTATION OFFICIALS	LBS.	POUNDS
ACI	AMERICAN CONCRETE INSTITUTE	L.F.	LINEAR FEET
ADD'L	ADDITIONAL	LG.	LONG
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	LL	LIVE LOAD
ALT.	ALTERNATE	LLH	LONG LEG HORIZONTAL
ALUM.	ALUMINUM	LLV	LONG LEG VERTICAL
&	AND	/(°)	ANGLE(S)
@	AT	LP	LOW POINT
APP'D	APPROVED	LRFD	LOAD AND RESISTANCE FACTOR DESIGN
APPROX.	APPROXIMATE	LT.	LEFT
ARCH.	ARCHITECTURAL	LT. WT.	LIGHTWEIGHT
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	MANUF.	MANUFACTURER
AVG.	AVERAGE	MAS.	MASONRY
AWS	AMERICAN WELDING SOCIETY	MAX.	MAXIMUM
BF	BACK FACE	MECH.	MECHANICAL
BET.	BETWEEN	MET.	METRIC
BLDG.	BUILDING	MIN.	MINIMUM
BM	BENCHMARK	MISC.	MISCELLANEOUS
B.O.F.	BOTTOM OF FOOTING	MPH	MILES PER HOUR
BOTT., B	BOTTOM	MATL.	MATERIAL
BP	BASE OR BEARING PLATE	MTL.	METAL
BRC.	BEARING	N	NORTH
BW	BOTTOM OF WALL	NAVD	NORTH AMERICAN VERTICAL DATUM
CFM	CUBIC FEET PER MINUTE	NGVD	NATIONAL GEODETIC VERTICAL DATUM
CFS	CUBIC FEET PER SECOND	N.I.C.	NOT IN CONTRACT
C.I.P.	CAST IN PLACE	NJDOT	NEW JERSEY DEPARTMENT OF TRANSPORTATION
C.J.	CONTROL JOINT	No., #	NUMBER
C, CL, C	CENTER LINE	N.T.S.	NOT TO SCALE
CLR	CLEAR	N.W.	NORMAL WEIGHT
CMU	CONCRETE MASONRY UNIT	o/c	ON CENTER
CO	CLEANOUT	O.D.	OUTSIDE DIAMETER
COL.	COLUMN	O.F.	OUTSIDE FACE
CONC.	CONCRETE	OPNG.(S)	OPENING(S)
CONN.	CONNECT/CONNECTION	OPP.	OPPOSITE
CONSTR.	CONSTRUCTION	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
CONT.	CONTINUOUS	OVH'D	OVERHEAD
CONTR.	CONTRACTOR	P	PIER
COORD.	COORDINATE	PART'N	PARTITION
CORP.	CORPORATION	PCF	POUNDS PER CUBIC FOOT
COV.	COVER	PERP.	PERPENDICULAR
CTR.	CENTER	PL.	PLATE
CY	CUBIC YARD	PL. &	PERFORATED POLYETHYLENE TUBING
DEG.	DEGREE	PPT.	PROJECTION
DELAM.	DELAMINATION	PROJ.	POUNDS PER SQUARE FOOT
DEMO.	DEMOLITION; DEMOLISH	PSF	POUNDS PER SQUARE INCH
DET. (S)	DETAIL(S)	PSI	POUNDS PER SQUARE INCH
DIAG.	DIAGONAL	QTY.	QUANTITY
DIA., Ø	DIAMETER	RCP	REINFORCED CONCRETE PIPE
DIM., DIM'S	DIMENSION(S)	RCSC	RESEARCH COUNCIL ON STEEL CONNECTIONS
DL	DEAD LOAD	RD	ROOF DRAIN
DN	DOWN	REF.	REFERENCE
DO	DITTO	REV.	REVISION
DS	DOWNSTREAM	REINFORC.	REINFORCEMENT
DWG.(S)	DRAWING(S)	REINF.	REQUIRED
DWL(S)	DOWEL(S)	REQ'D	REQUIRED
EA.	EACH	RF	REAR FACE
E.A.	EACH FACE	R.O.W.	RIGHT OF WAY
E.J.	EXPANSION JOINT	RT.	RIGHT
ELEC.	ELECTRICAL	RTU	ROOF TOP UNIT
EL., ELEV.	ELEVATION	SAN.	SANITARY
EMBED.	EMBEDMENT	SCHED.	SCHEDULE
ENGL.	ENGLISH	SDI	STEEL DECK INSTITUTE
ENGR.	ENGINEER	SECT.	SECTION
E.O.P.	EDGE OF PAVEMENT	SHT.	SHEET
EQ	EQUAL	SIM.	SIMILAR
ETC.	ETCETERA	SIM.	SPACING
E.W.	EACH WAY	SPEC.(S)	SPECIFICATION(S)
EX., EXIST.	EXISTING	SPL	SPLICE
EXP.	EXPANSION	SQ. FT., SF	SQUARE FOOT(FEET)
EXT.	EXTERIOR	SQ. IN.	SQUARE INCH(ES)
FD	FLOOR DRAIN	SQ. MI.	SQUARE MILE(S)
FF	FRONT FACE	S.S.	STAINLESS STEEL
FIN.	FINISH	SSPC	STEEL STRUCTURES PAINTING COUNCIL
FL.	FLANGE	STA.	STATION
FLR.	FLOOR	STD.	STANDARD
FNDN.	FOUNDATION	ST'L	STEEL
F.P.	FIRE PROOFING	SYM.	SYMMETRICAL
FT., F	FEET, FOOT	T	TOP
FTG., F	FOOTING	TEMP.	TEMPORARY
GA.	GAUGE	THK.	THICK
GALV.	GALVANIZED	T.O.	TOP OF
GB	GRADE BEAM	T.O.F.	TOP OF FOOTING
GC	GENERAL CONTRACTOR	T.O.S.	TOP OF STEEL
GEN.	GENERAL	TW	TOP OF WALL
GR.	GRADE	TYP.	TYPICAL
HORIZ.	HORIZONTAL	U.O.N.	UNLESS OTHERWISE NOTED
H.P.	HIGH POINT	U.S.	UPSTREAM
HT.	HEIGHT	VERT.	VERTICAL
IBC	INTERNATIONAL BUILDING CODE	V.I.F.	VERIFY IN FIELD
I.D.	INSIDE DIAMETER	W/	WITH
I.F.	INSIDE FACE	W/O	WITHOUT
IN., "	INCH	WF	WIDE FLANGE
INFO.	INFORMATION	WP	WORKING POINT
INSUL.	INSULATION	WWF	WELDED WIRE FABRIC
INT.	INTERIOR	YRS.	YEARS
INV.	INVERT		
JT.	JOINT		
K	KIP		
KSI	KIPS PER SQUARE INCH		



MICHAEL J. McCLELLAND P.E.  
PROFESSIONAL ENGINEER  
LIC. 32468

DATE 8.10.20

## Revisions

No.	Date	By
1	03/30/21	J.S.
3	08/02/23	J.S.
4	11/20/23	J.S.
5	06/20/24	J.S.


Designed By J.N.  
Drawn By J.N.  
Checked By Approved By N.J.

County of Union  
Division of Engineering  
2325 South Avenue, Scotch Plains, N.J. 07076

REPLACEMENT OF LOWER ROAD  
MINOR BRIDGE, Li-63

City of Linden, Union County

New Jersey

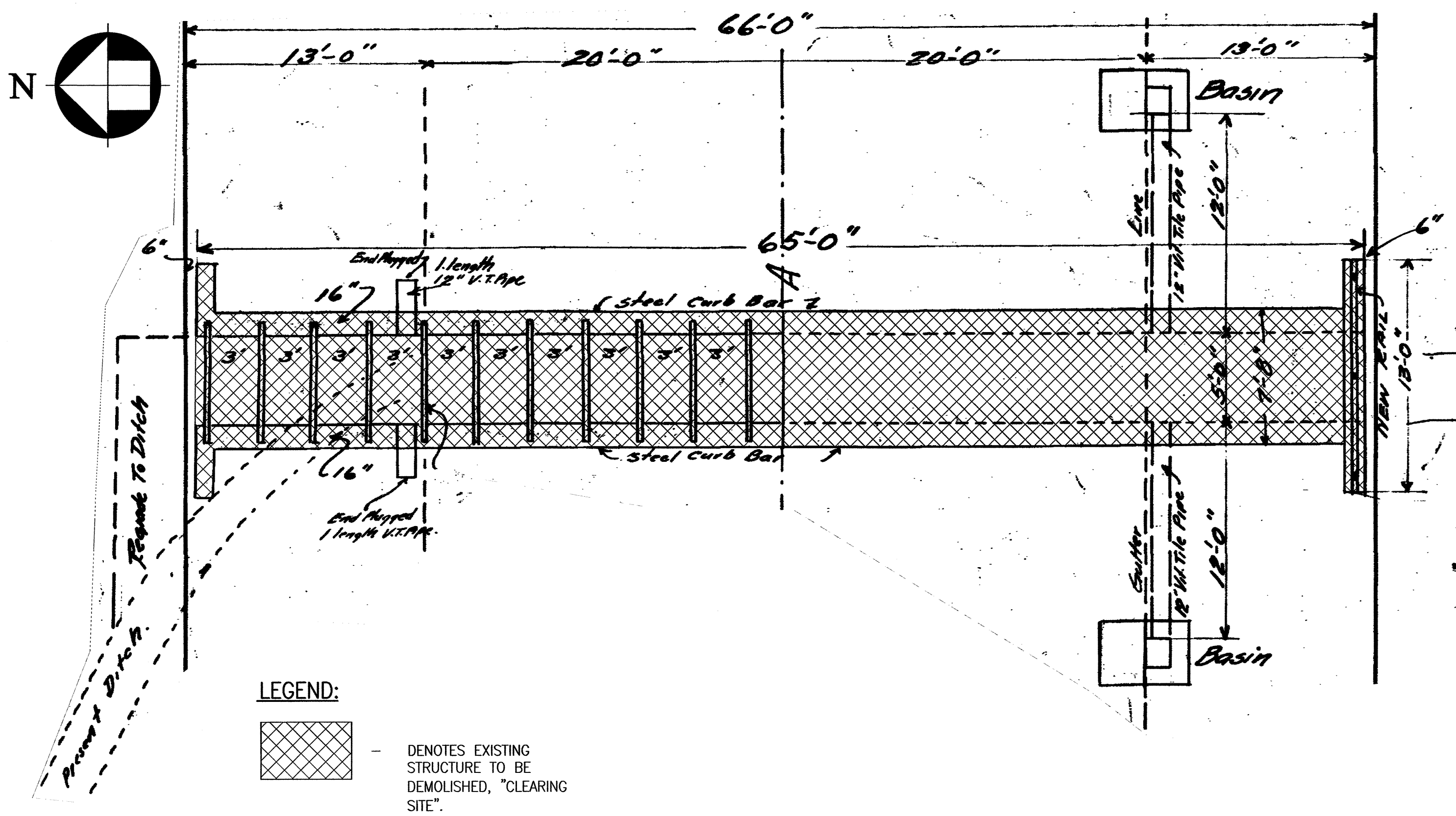
## GENERAL STRUCTURAL NOTES

Scale: AS SHOWN  
Sheet No. 15 of 23  
Drawing No. B-1  
Date: August 2020

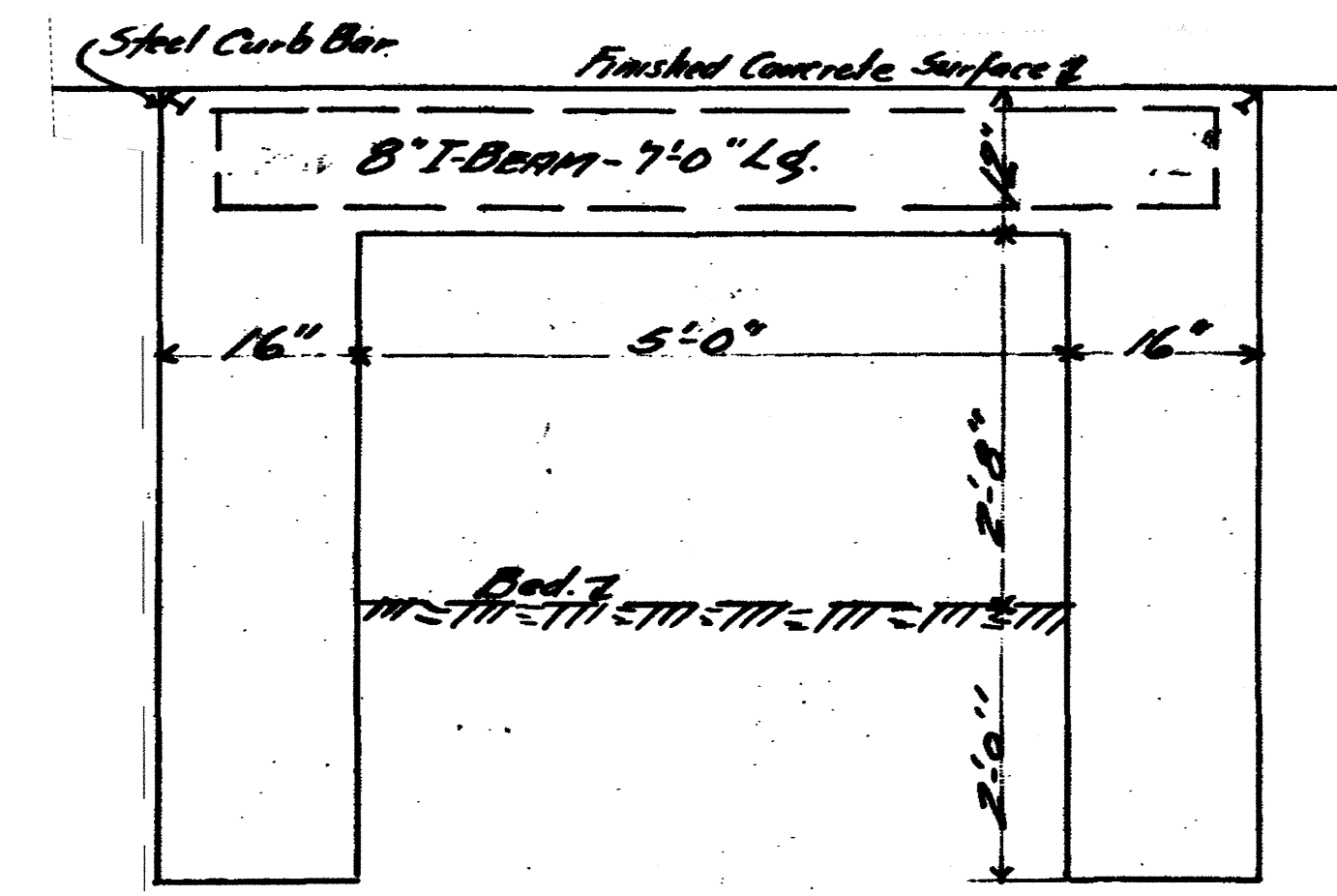
Ricardo Matias  
County Engineer  
N.J.P.E. No. 24GE05154000

PUN00622.01

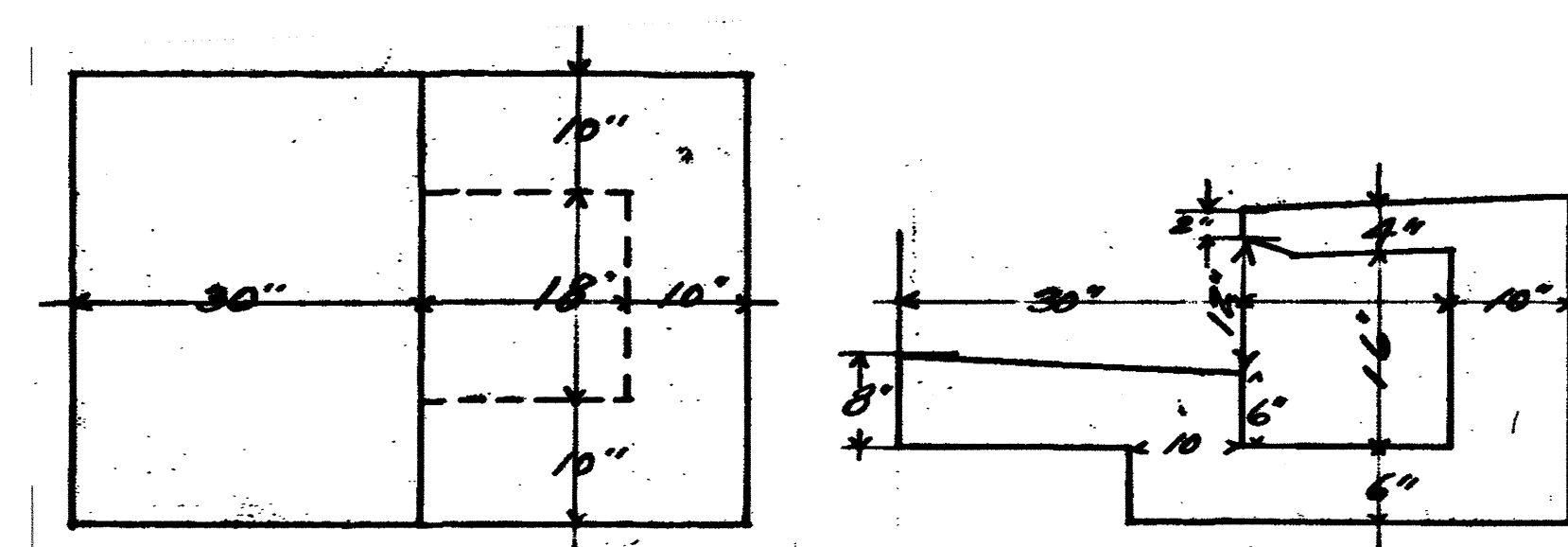




EXISTING GENERAL CULVERT PLAN - DEMOLITION PLAN  
N.T.S.



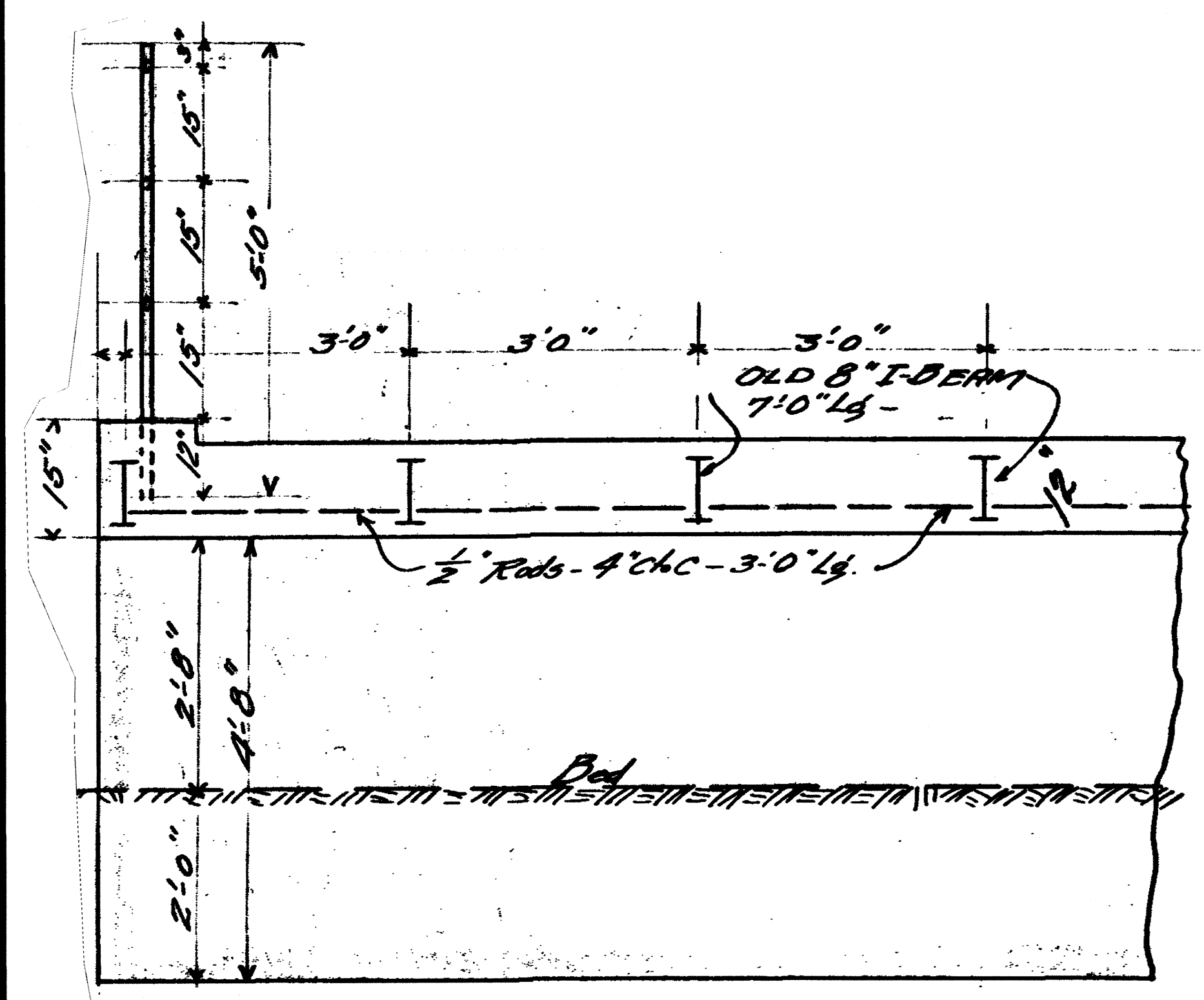
SECTION "A-A"  
N.T.S.



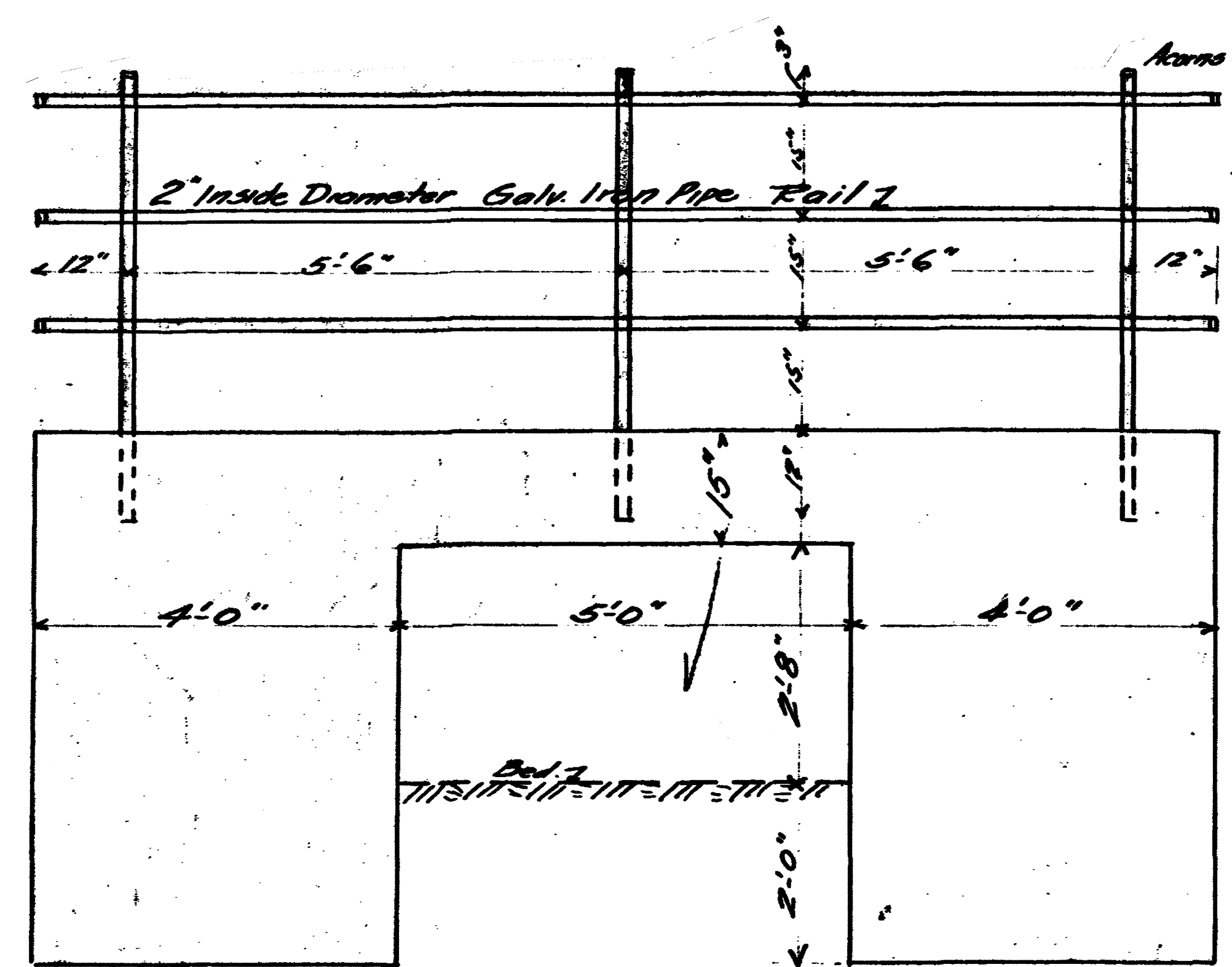
PLAN OF BASIN  
N.T.S.

SECTION OF BASIN  
N.T.S.

- NOTES:**
1. THE EXISTING BRIDGE STRUCTURE INCLUDING SUPERSTRUCTURE, ABUTMENTS, WINGWALLS, FOOTINGS, UTILITY SUPPORTS, AND PARAPETS SHALL BE DEMOLISHED IN ITS ENTIRETY AND REMOVED FROM THE SITE. PAYMENT FOR THE REMOVAL AND DISPOSAL OF THE EXISTING BRIDGE SHALL BE INCLUDED IN THE LUMP SUM FOR THE PAY ITEM ENTITLED "CLEARING SITE".
  2. THE CONTRACTOR IS ALERTED TO THE FACT THAT THERE ARE UTILITIES IN THIS AREA. THE UTILITIES HAVE BEEN LOCATED ON THE CONTRACT DRAWINGS USING THE MOST UP-TO-DATE AVAILABLE INFORMATION. THIS DOES NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF CONTACTING THE UTILITY AGENCIES AND ACCURATELY LOCATING ALL THE UTILITIES WHICH MAY INTERFERE WITH THE CONSTRUCTION OF THIS PROJECT PRIOR TO THE START OF ANY WORK. THE CONTRACTOR SHALL INCLUDE ALL THE LOCATIONS OF THE UTILITIES ON ANY APPLICABLE WORKING DRAWINGS. TEST PITS WILL BE REQUIRED AS DIRECTED BY ENGINEER. THE COSTS FOR TEST PITS SHALL BE INCLUDED IN THE VARIOUS PAY ITEMS BID FOR THE PROJECT.
  3. DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTION SO AS NOT TO DAMAGE ADJACENT EXISTING UTILITIES TO REMAIN. ANY DAMAGE DONE SHALL BE REPAIRED OR RESTORED TO THE SATISFACTION OF THE ENGINEER AT NO COST TO THE COUNTY.
  4. THE CONTRACTOR SHALL SUBMIT A DEMOLITION PLAN TO THE ENGINEER FOR APPROVAL SHOWING THE METHODS AND EQUIPMENT THAT WILL BE USED IN ORDER TO REMOVE THE EXISTING SUPERSTRUCTURE AND SUBSTRUCTURE BEFORE STARTING DEMOLITION.
  5. THE INFORMATION PRESENTED HEREON IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT GUARANTEED TO BE CORRECT. ELEVATIONS SHOWN HERE ARE FROM EXISTING PLANS. BIDDERS SHALL VISIT THE SITE BEFORE SUBMITTING BIDS TO ASCERTAIN THE EXTENT OF THE WORK.
  6. SEPARATE PAYMENT WILL NOT BE MADE FOR REMOVAL OF EXISTING UTILITIES ON THE BRIDGE.
  7. ELEVATIONS SHOWN ON THIS DRAWING ARE IN AN ASSUMED VERTICAL DATUM.
  8. THE EXISTING BRIDGE MAY CARRY MULTIPLE EXISTING UTILITY LINES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL UTILITY SERVICE FLOWS AND PRESSURES FOR THESE LINES UNLESS WRITTEN APPROVAL BY THE RESPONSIBLE UTILITY PERMITS HIM TO DO OTHERWISE. NO SEPARATE PAYMENT WILL BE MADE FOR COORDINATION WITH THE UTILITY OR FOR THE TEMPORARY SUPPORT OF EXISTING FACILITIES. ALL COSTS SHALL BE INCLUDED IN THE LUMP SUM BID FOR THE ITEM "CLEARING SITE".



LONGITUDINAL SECTION  
N.T.S.



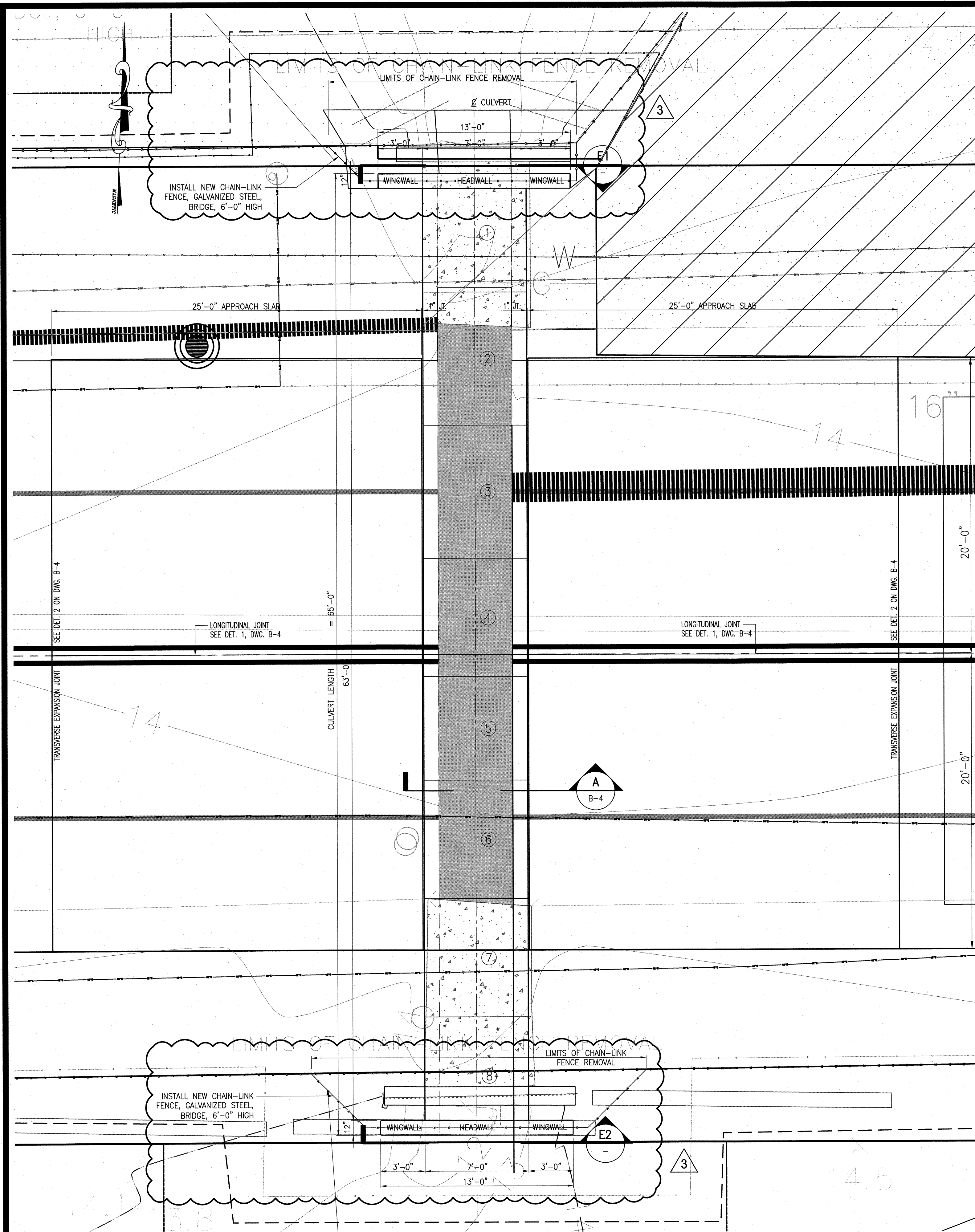
END ELEVATION  
N.T.S.

- NOTES:**
1. FOR GENERAL NOTES, SEE DRAWING NO. B-1.
  2. FOR EXISTING CULVERT PLAN, DEMOLITION PLAN AND SECTIONS, SEE THIS DRAWING.
  3. FOR PROPOSED GENERAL CULVERT PLAN AND ELEVATIONS, SEE DRAWING NO. B-3.
  4. FOR CULVERT, WINGWALL, DECK AND APPROACH SLAB SECTIONS AND DETAILS, SEE DRAWING NO. B-4.
  5. FOR ADDITIONAL CULVERT PLAN, SECTIONS, MISCELLANEOUS DETAILS, AND REINFORCEMENT SCHEDULES, SEE DRAWINGS NOS. B-5 THROUGH B-7.
  6. FOR MISCELLANEOUS STRUCTURAL DETAILS, SEE DRAWING NO. B-8.
  7. FOR LOGS OF TEST BORINGS, SEE DRAWING NO. B-9.

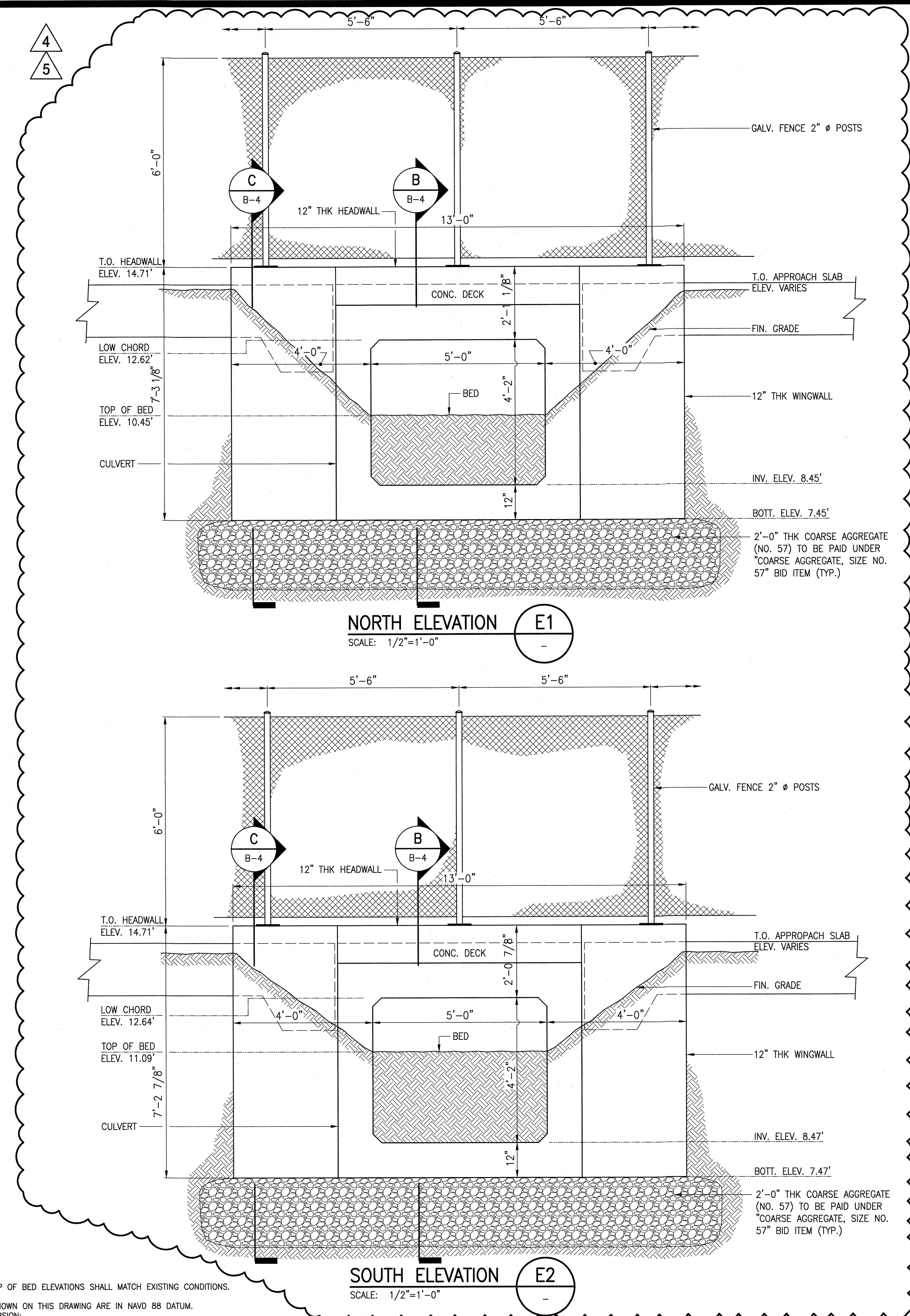
<p><b>OVE</b> ASSOCIATES CONSULTING AND MUNICIPAL ENGINEERS 2141 ROBERTSON AVENUE, FAIR HAVEN, NEW JERSEY 08009 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731</p>	Revisions		<p>County of Union Division of Engineering 2325 South Avenue, Scotch Plains, N.J. 07076</p> <p>REPLACEMENT OF LOWER ROAD MINOR BRIDGE, Li-63</p> <p>City of Linden, Union County New Jersey</p>
	No.	Date	
<p><b>MICHAEL J. McCLELLAND P.E.</b> PROFESSIONAL ENGINEER LIC. 32468</p>	Designed By	Drawn By	<p>Scale: AS SHOWN Sheet No. 16 of 23 Drawing No. B-2 Date: August 2020</p>
	Checked By	Approved By	
			<p><b>Ricardo Matias</b> County Engineer N.J.P.E. No. 24GE05154000</p>

PUN00622.01





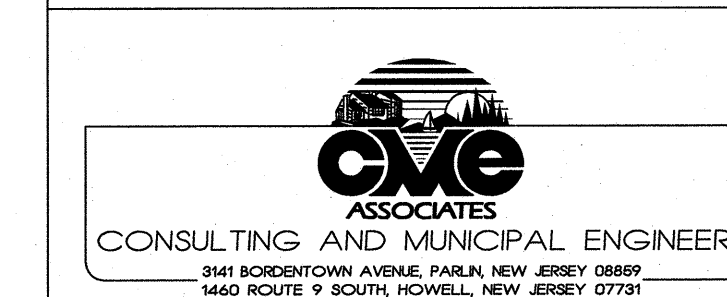
PROPOSED GENERAL CULVERT PLAN  
SCALE: 1/4"=1'-0"



NOTES:

- PROPOSED TOP OF BED ELEVATIONS SHALL MATCH EXISTING CONDITIONS.
- ELEVATIONS SHOWN ON THIS DRAWING ARE IN NAVD 88 DATUM. DATUM CONVERSION: NAVD 29 DATUM + NAVD DATUM + 1.06 FEET
- FOR GENERAL NOTES, SEE DRAWING NO. B-1.
- FOR EXISTING CULVERT PLAN, DEMOLITION PLAN AND SECTIONS, SEE DRAWING NO. B-2.
- FOR PROPOSED GENERAL CULVERT PLAN AND ELEVATIONS, SEE THIS DRAWING.
- FOR CULVERT, WINGWALL, DECK AND APPROACH SLAB SECTIONS AND DETAILS, SEE DRAWING NO. B-4.
- FOR ADDITIONAL CULVERT PLAN, SECTIONS, MISCELLANEOUS DETAILS, AND REINFORCEMENT SCHEDULES, SEE DRAWINGS NOS. B-5 THROUGH B-7.
- FOR MISCELLANEOUS STRUCTURAL DETAILS, SEE DRAWING NO. B-8.
- FOR LOGS OF TEST BORINGS, SEE DRAWING NO. B-9.
- REMOVAL OF EXISTING CHAIN-LINK FENCE IS NOT TO BE MEASURED SEPARATELY FOR PAYMENT AND SHALL BE INCLUDED IN THE CLEARING SITE ITEM.

NOTES ADDED TO ADDRESS NJDEP COMMENTS, DATED 1/28/2020



MICHAEL J. McCLELLAND P.E.  
PROFESSIONAL ENGINEER  
UC 32468

Revisions			
No.	Date	By	SP
1	1/28/20	J.S.	
2	08/02/23	J.N.	
3	11/20/23	J.S.	
4	06/20/24	J.S.	

County of Union  
Division of Engineering  
2325 South Avenue, Scotch Plains, N.J. 07076

REPLACEMENT OF LOWER ROAD  
MINOR BRIDGE, Li-63

City of Linden, Union County New Jersey

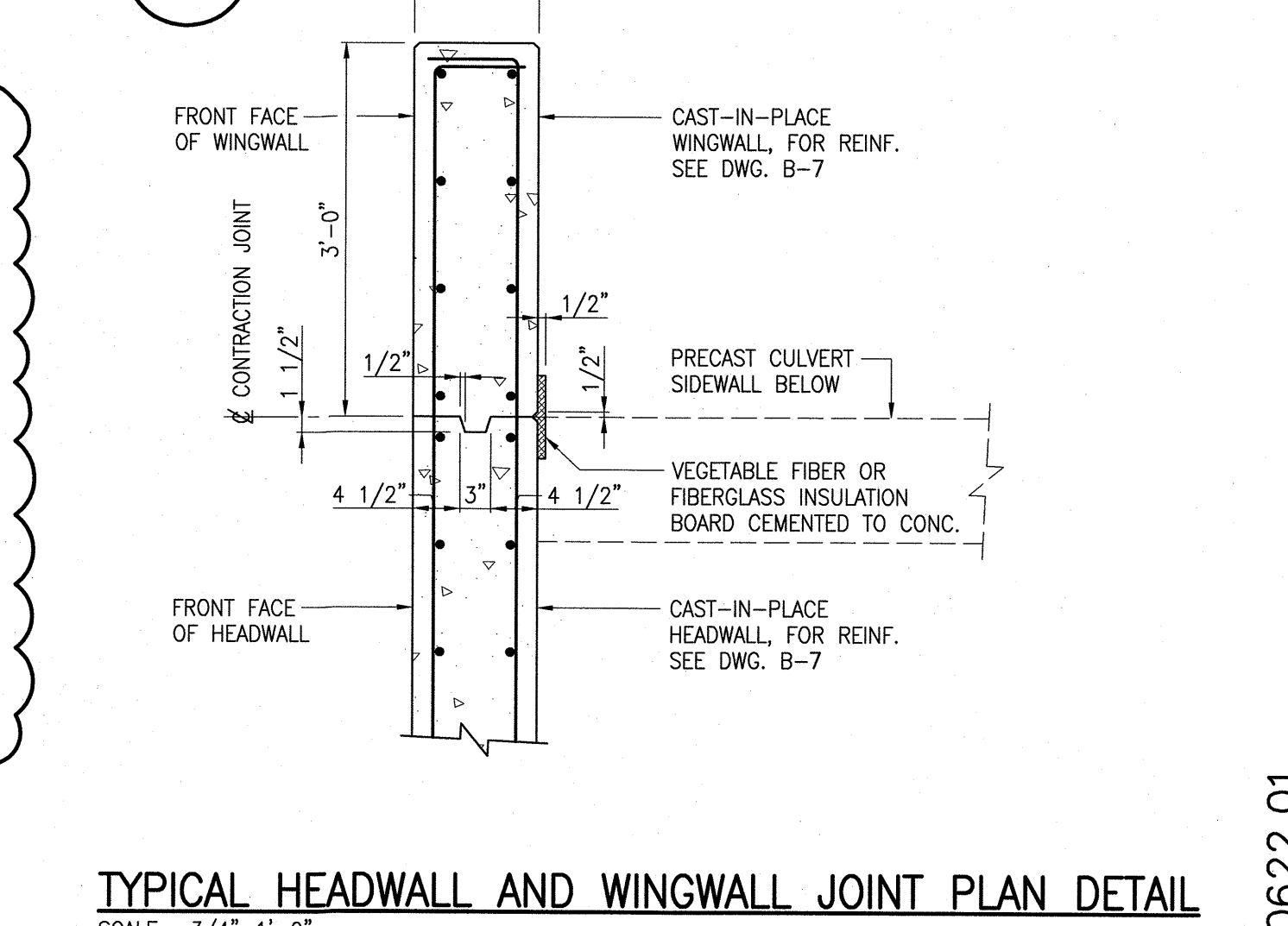
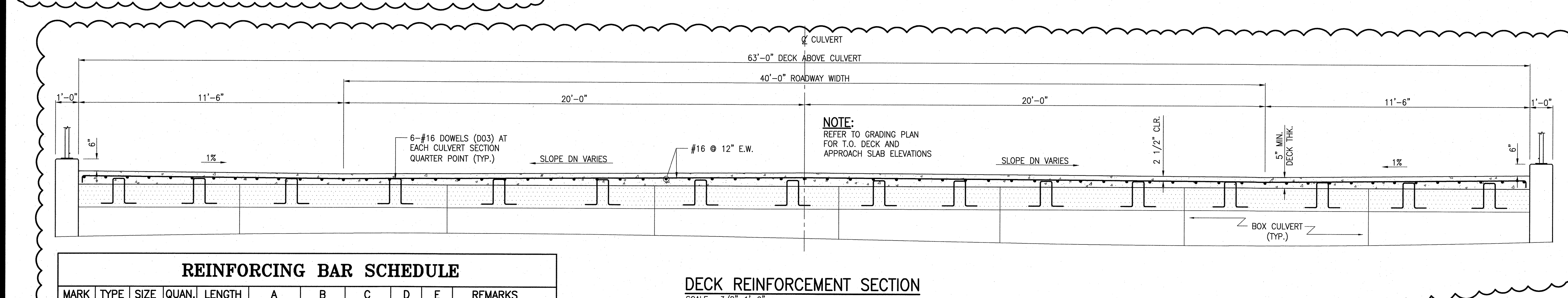
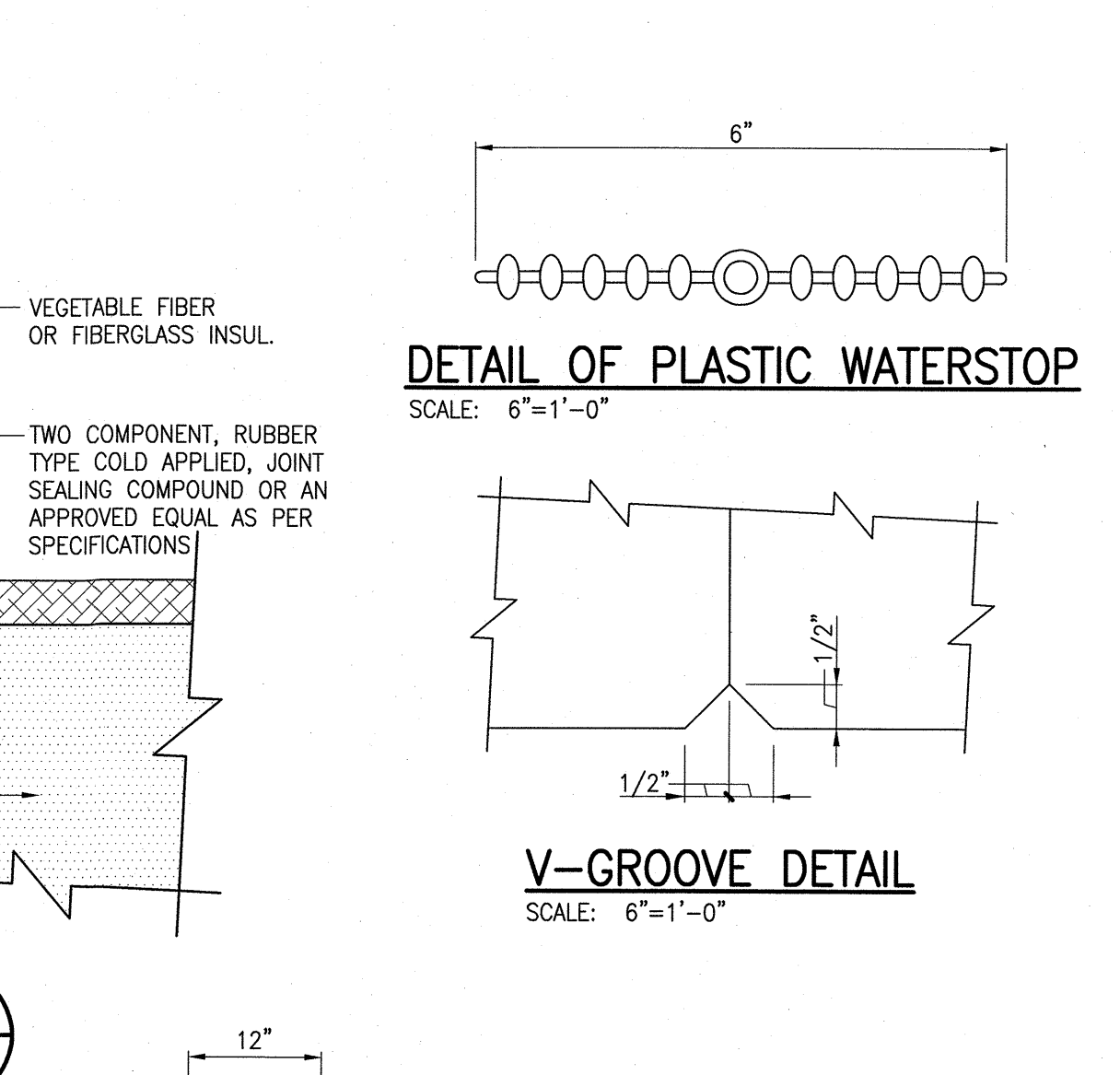
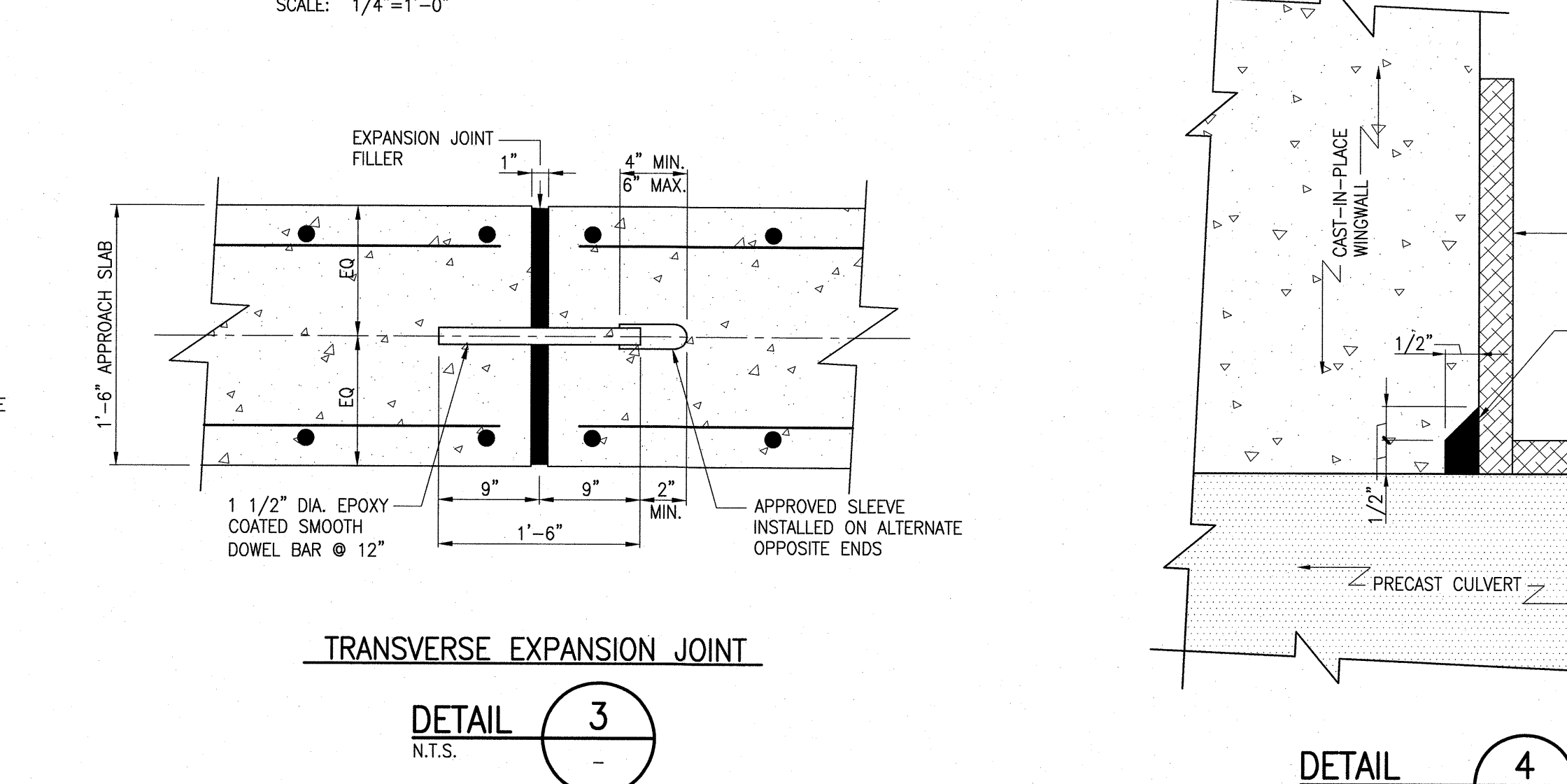
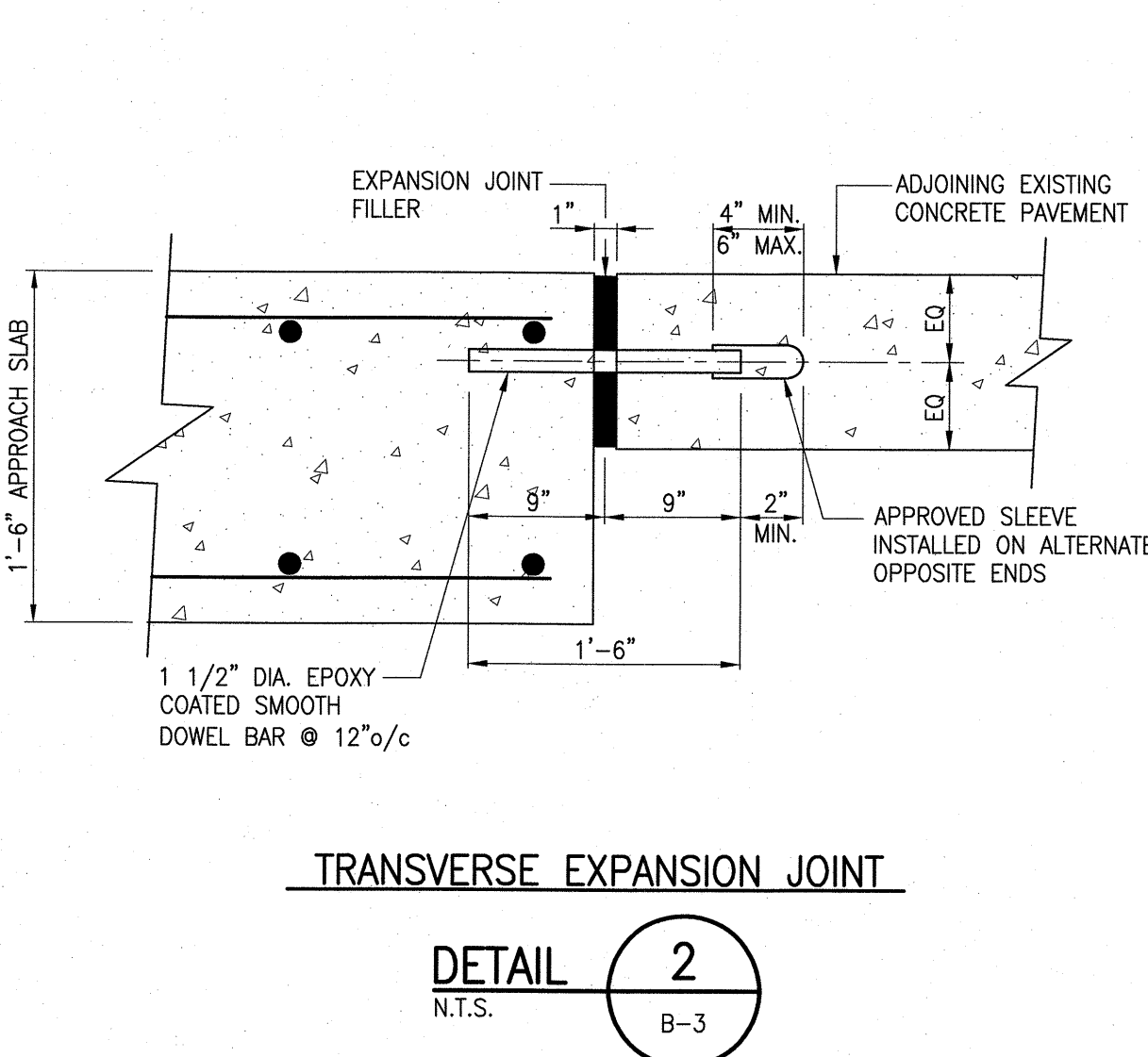
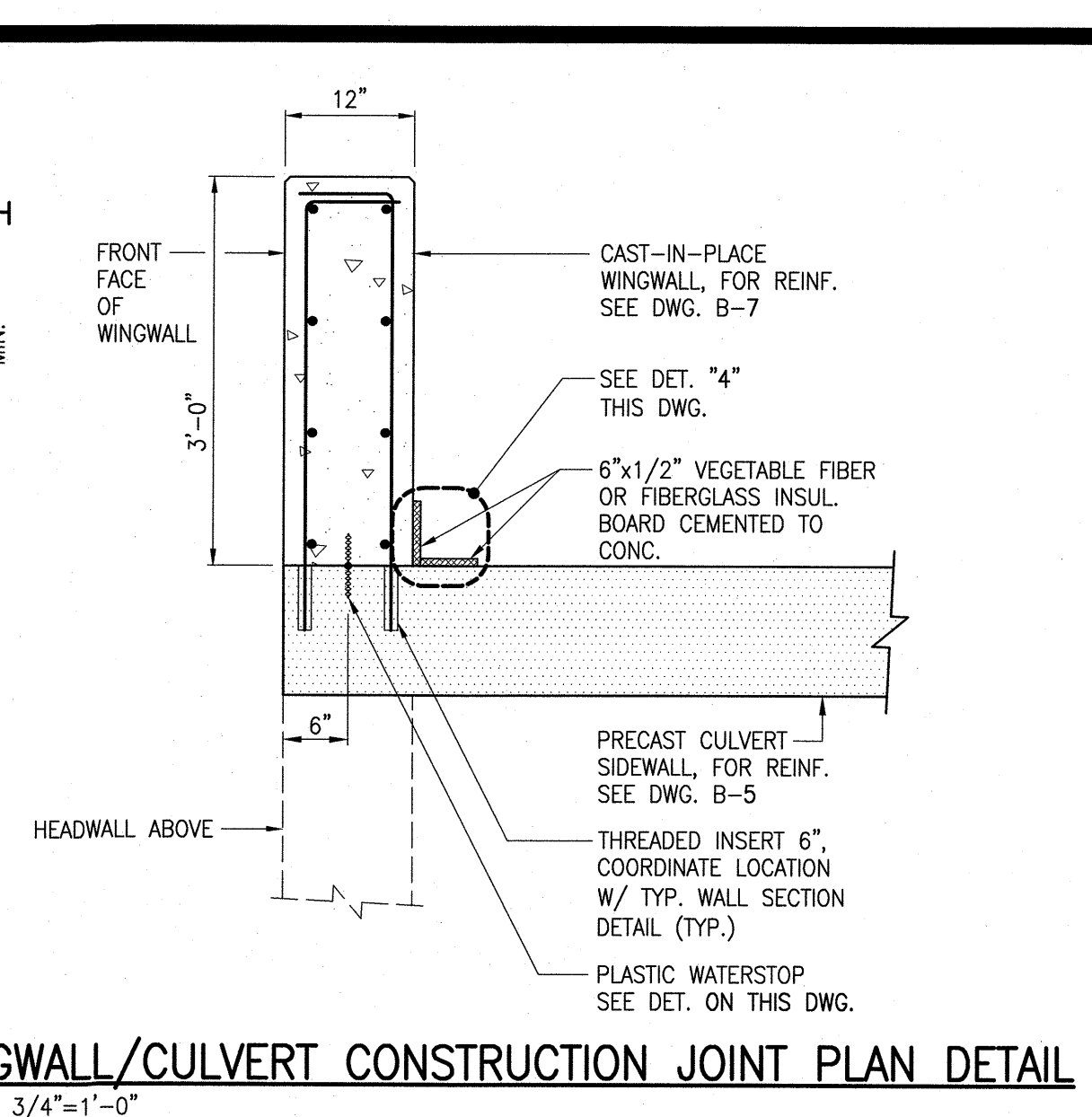
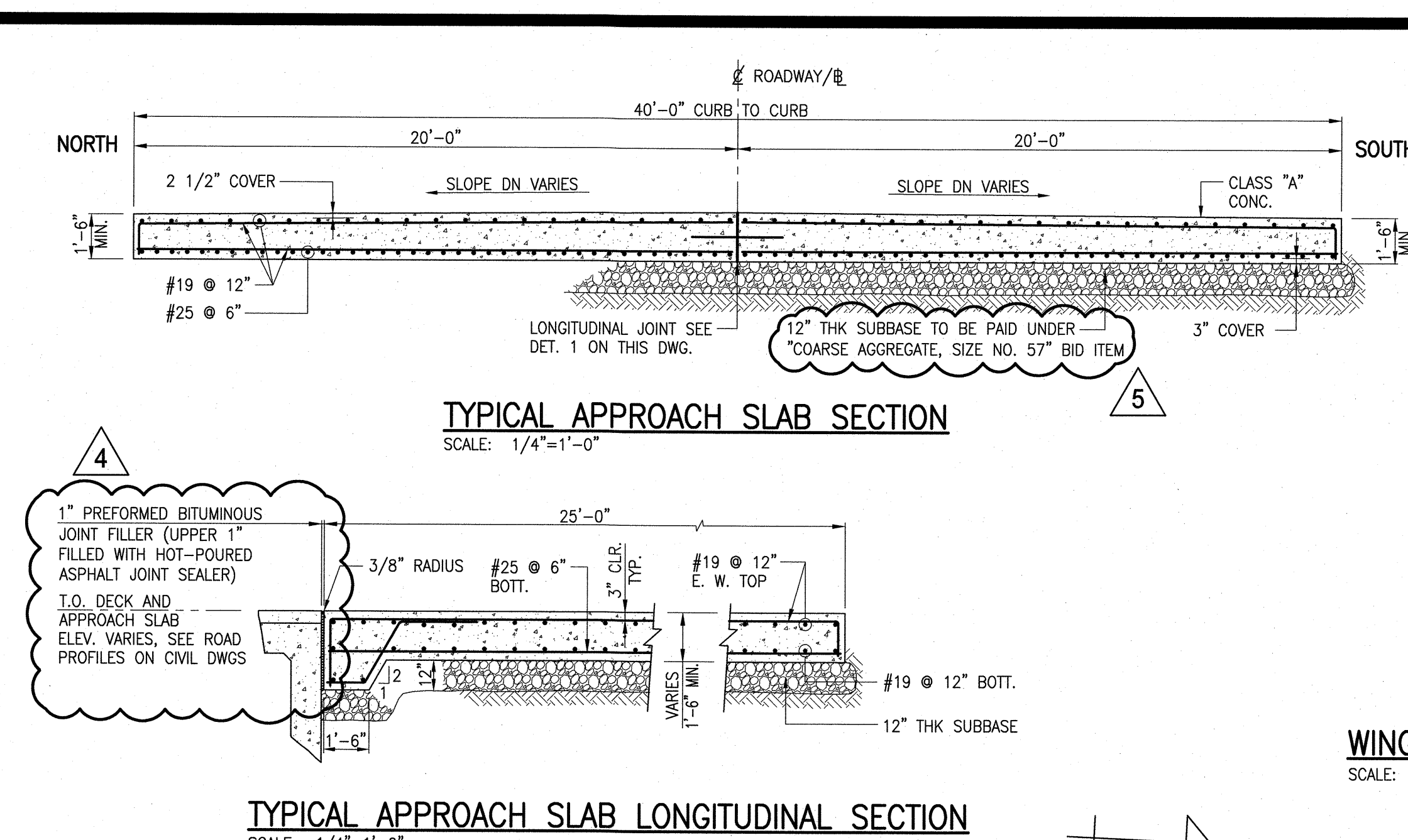
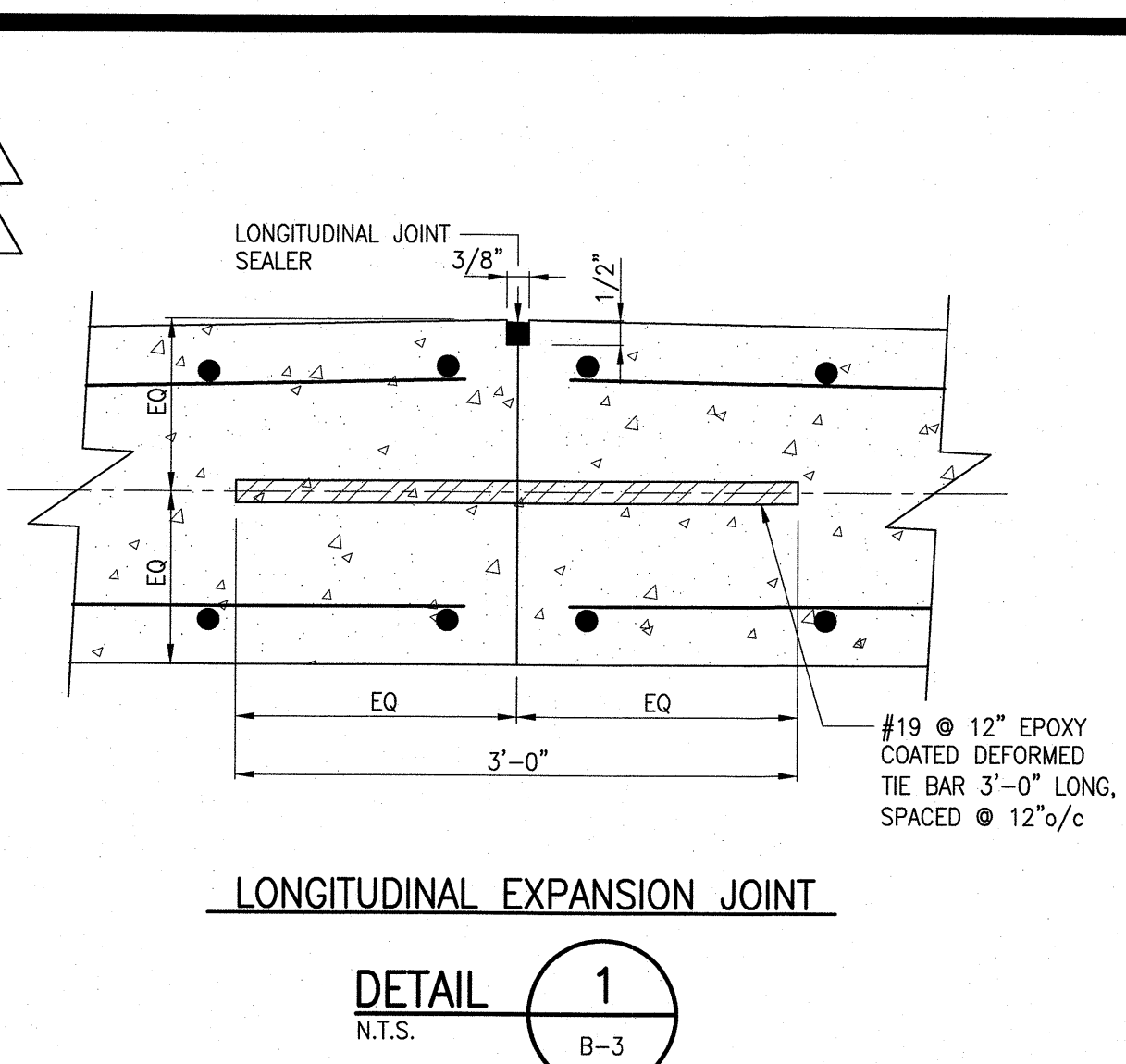
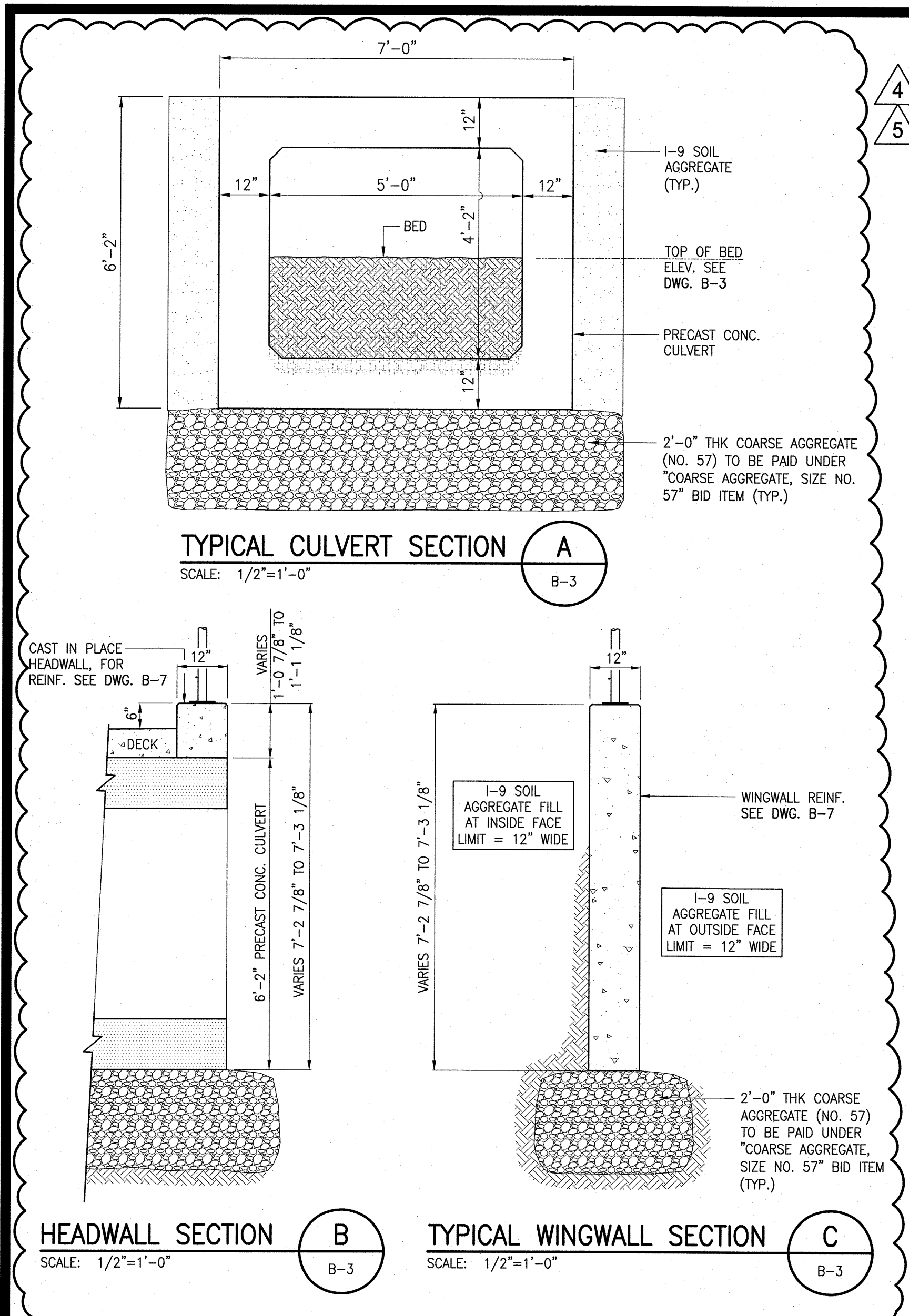
PROPOSED GENERAL CULVERT PLAN  
AND ELEVATIONS

Scale: AS SHOWN  
Sheet No. 17 of 23  
Drawing No. B-3  
Date: August 2020

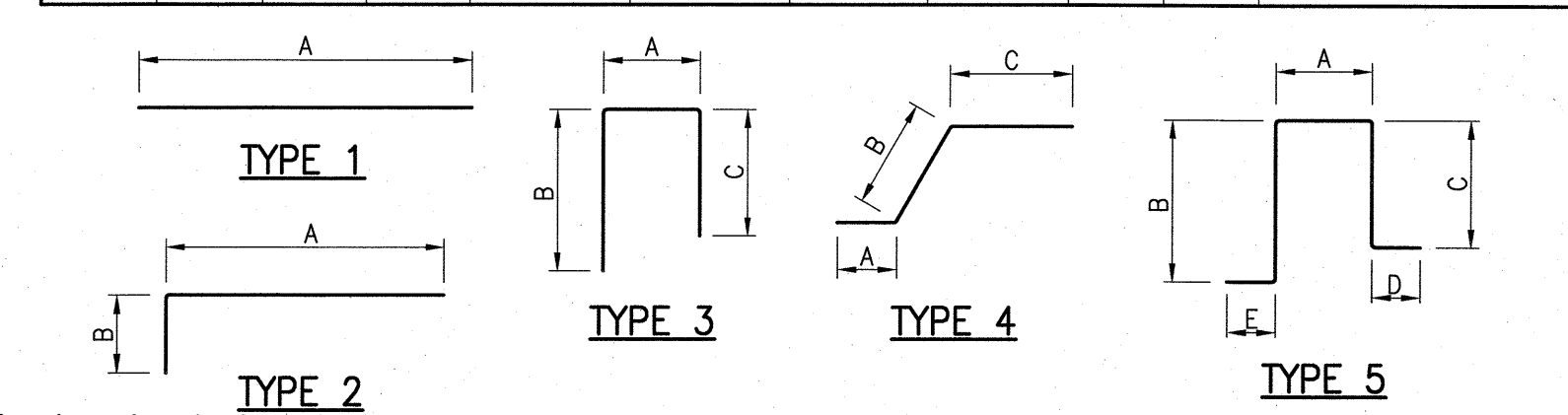
Ricardo Matias  
County Engineer  
N.J.R.E. No. 24GE05154000

PUN00622.01





REINFORCING BAR SCHEDULE										
MARK	TYPE	SIZE	QUAN.	LENGTH	A	B	C	D	E	REMARKS
<b>DECK</b>										
D01	2	16	8	63'-2"	62'-8"	2x(0'-3")				TRANSVERSE
D02	2	16	64	7'-2"	6'-8"	2x(0'-3")				LONGITUDINAL
D03	5	16	8x2x6	3'-8"	0'-8"	1'-1"	0'-6"	0'-6"	0'-6"	DWLS BY MANUF.
<b>APPROACH SLABS</b>										
A01	1	25	2x80	24'-8"	24'-8"					LONGITUDINAL - BOTTOM
A02	3	19	2x42	27'-8"	24'-8"					LONGITUDINAL - TOP
A03	1	19	2x52	19'-8"	19'-8"					TRANSVERSE - BOTTOM
A04	2	19	2x52	20'-8"	19'-8"					TRANSVERSE - TOP
A05	4	19	2x42	6'-1"	1'-2"	2'-5"	2'-6"			HAUNCH
A06	1	19	2x26	3'-0"	3'-0"					DOWELS



**NOTES:**

- FOR WINGWALL AND HEADWALL, SEE DRAWINGS NOS. B-4 THROUGH B-6.
- BEND DECK REINFORCEMENT AS REQUIRED TO MEET ROADWAY GRADES OR PROVIDE LAPPED REINFORCEMENT.
- REINFORCEMENT STEEL:
  - A. ASTM A615 (GRADE 60)
  - B. ALL REINFORCEMENT STEEL TO BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A767. ELECTRO PLATED GALVANIZING IS NOT ACCEPTABLE AND WILL BE REJECTED.

**LEGEND:**

14-#16-D01@12" F.F.

D - DECK  
A - APPROACH SLAB

**NOTES:**

- FOR GENERAL NOTES, SEE DRAWING NO. B-1.
- FOR EXISTING CULVERT PLAN, DEMOLITION PLAN AND SECTIONS, SEE DRAWING NO. B-2.
- FOR PROPOSED GENERAL CULVERT PLAN AND ELEVATIONS, SEE DRAWING NO. B-3.
- FOR CULVERT, WINGWALL, DECK AND APPROACH SLAB SECTIONS AND DETAILS, SEE THIS DRAWING.
- FOR ADDITIONAL CULVERT PLAN, SECTIONS, MISCELLANEOUS DETAILS, AND REINFORCEMENT SCHEDULES, SEE DRAWINGS NOS. B-5 THROUGH B-7.
- FOR MISCELLANEOUS STRUCTURAL DETAILS, SEE DRAWING NO. B-8.
- FOR LOGS OF TEST BORINGS, SEE DRAWING NO. B-9.

**CWE ASSOCIATES**  
CONSULTING AND MUNICIPAL ENGINEERS  
3141 ROBERTSON AVENUE, PARLIN, NEW JERSEY 08859  
1440 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731

**Revisions**

No.	Date	By
4	11/20/23	J.S.
5	06/20/24	J.S.

**County of Union**  
Division of Engineering  
2325 South Avenue, Scotch Plains, N.J. 07076

**REPLACEMENT OF LOWER ROAD MINOR BRIDGE, Li-63**

City of Linden, Union County New Jersey

**CULVERT, WINGWALL, DECK AND APPROACH SLAB SECTIONS AND DETAILS**

Scale: AS SHOWN  
Sheet No. 18 of 23  
Drawing No. B-4  
Date: August 2020

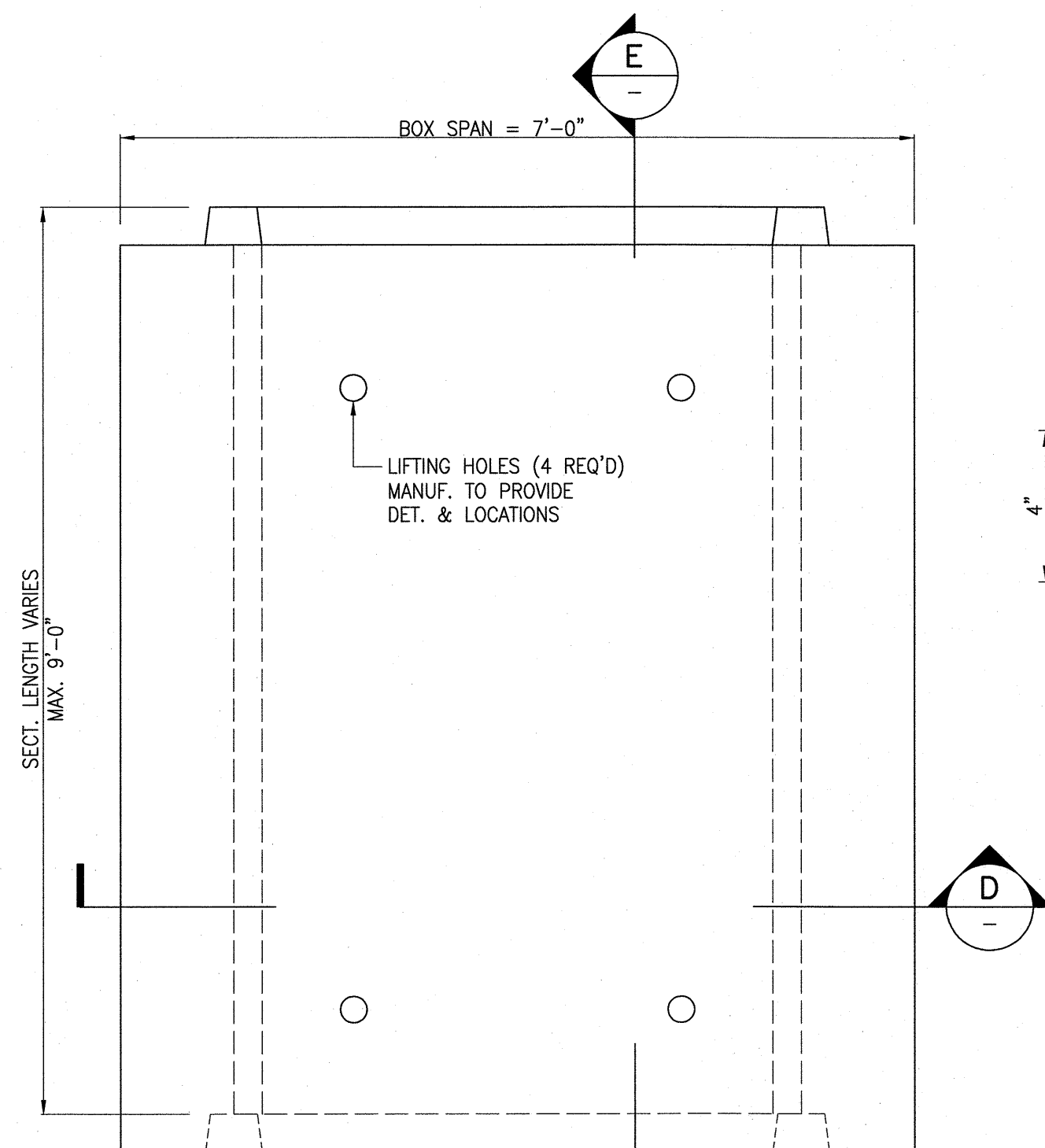
**Ricardo Matias**  
County Engineer  
N.J.P.E. No. 24GE05154000

**MICHAEL J. McCLELLAND P.E.**  
PROFESSIONAL ENGINEER  
LIC. 32468

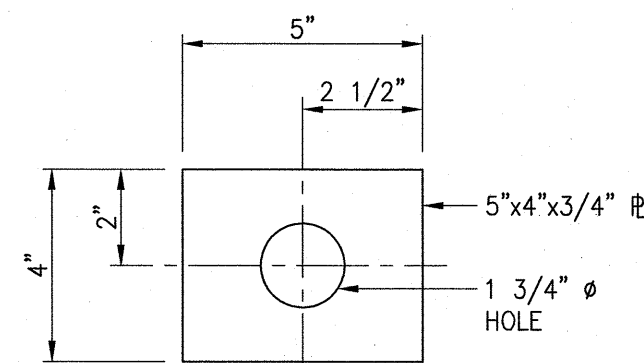
Designed By: J.N.  
Drawn By: J.N.  
Checked By: J.N.  
Approved By: J.N.

DATE: 8.20.20

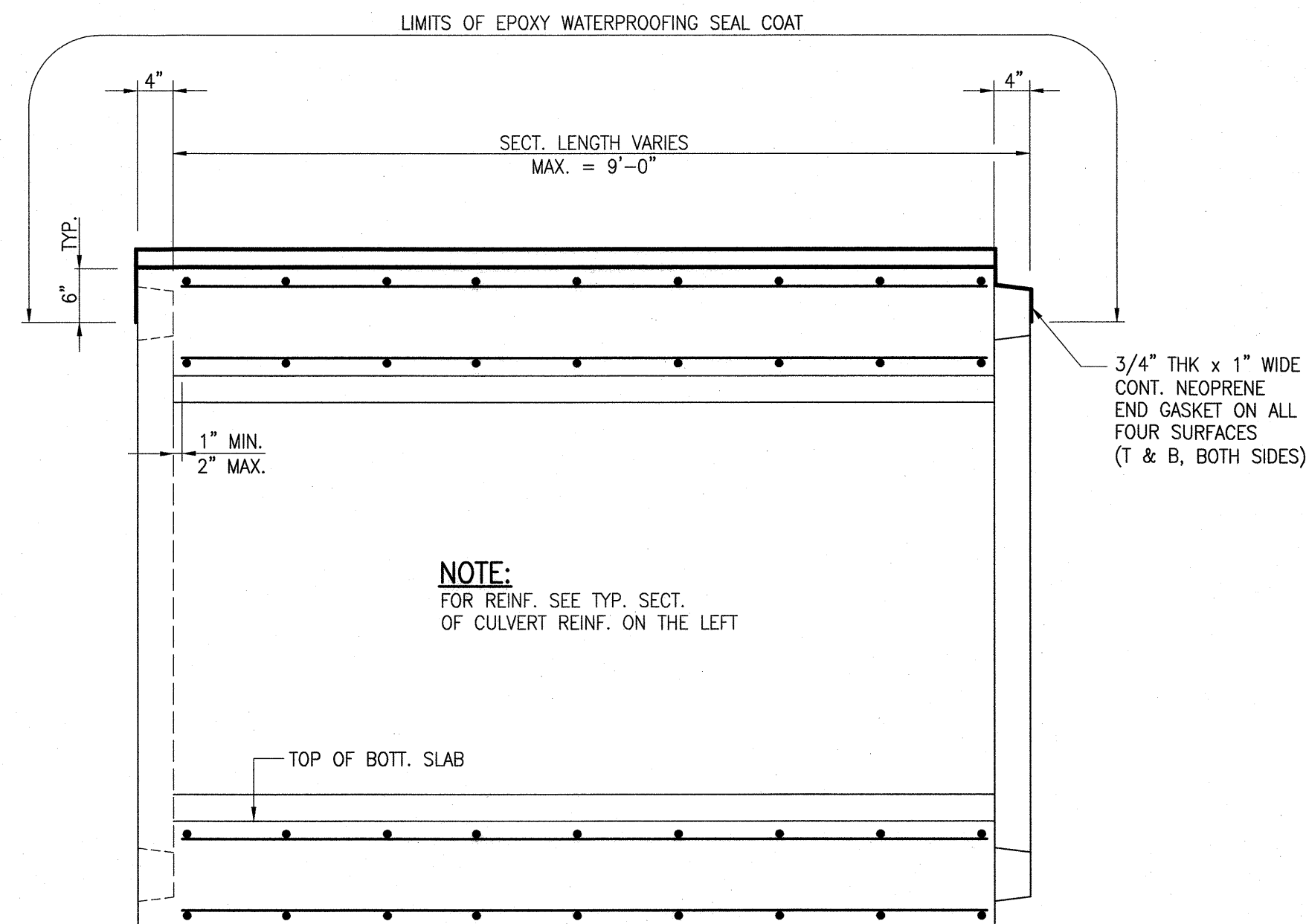




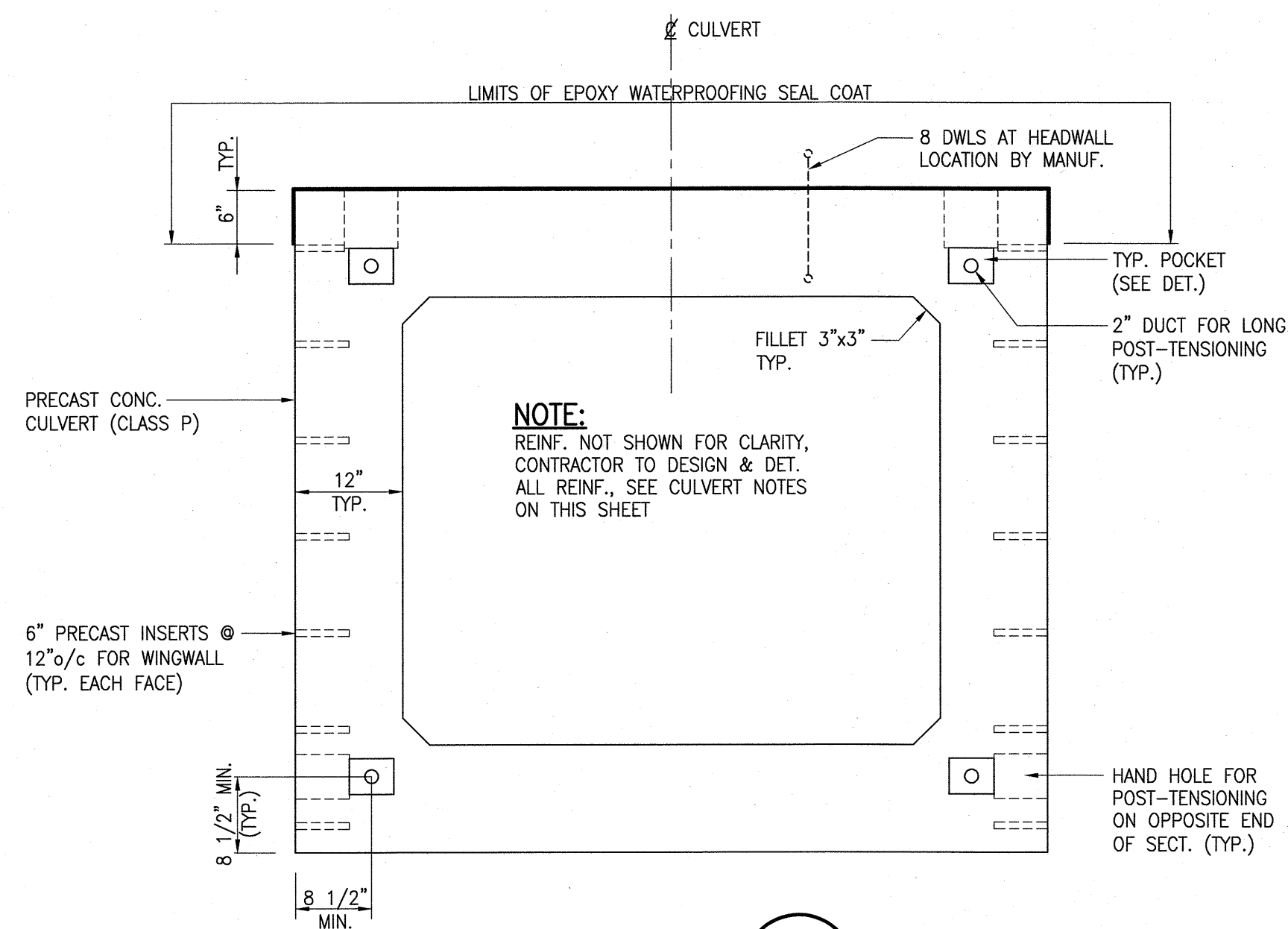
**PLAN**  
SCALE: 3/4"=1'-0"



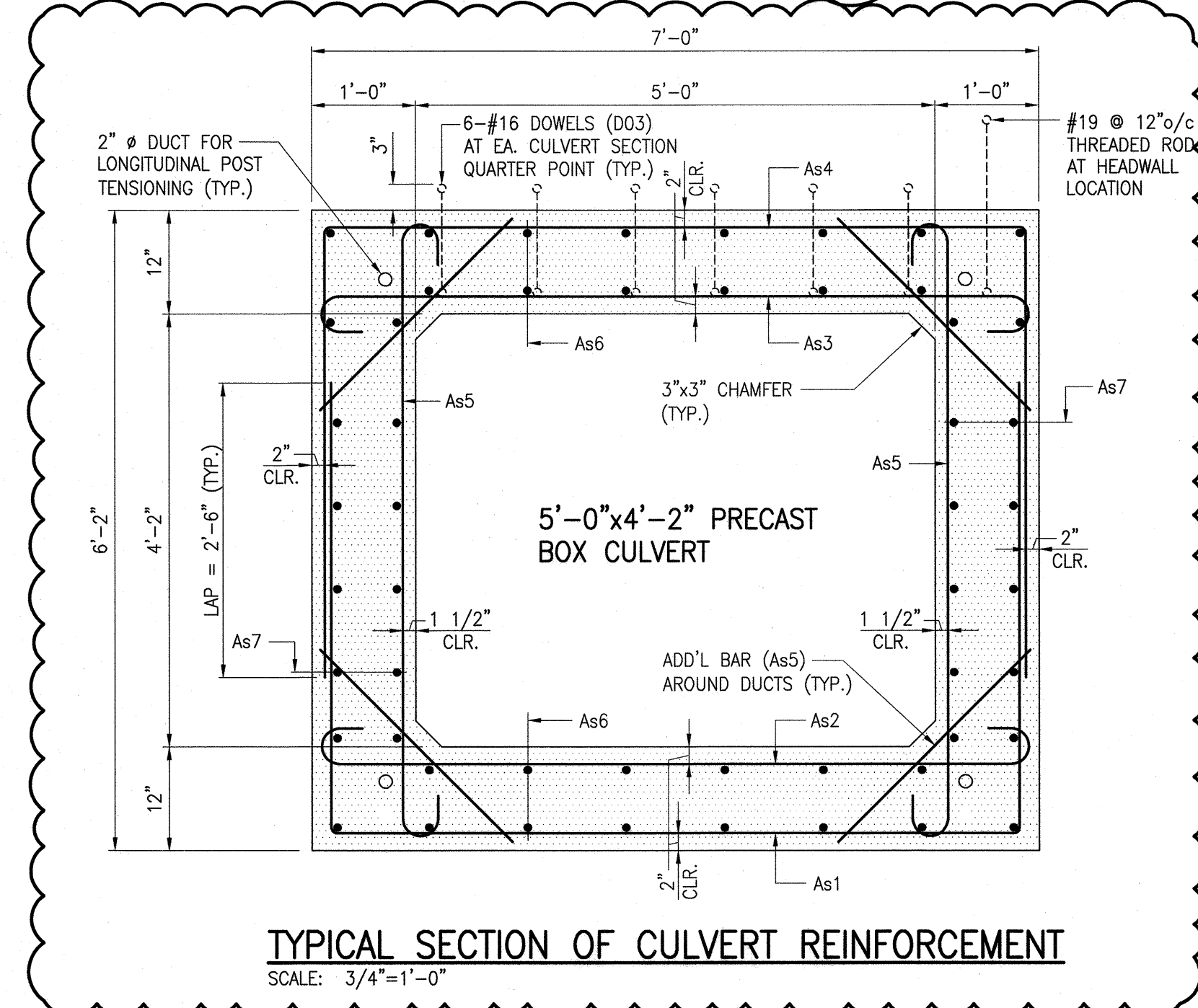
**ANCHOR PLATE**  
SCALE: 3"=1'-0"



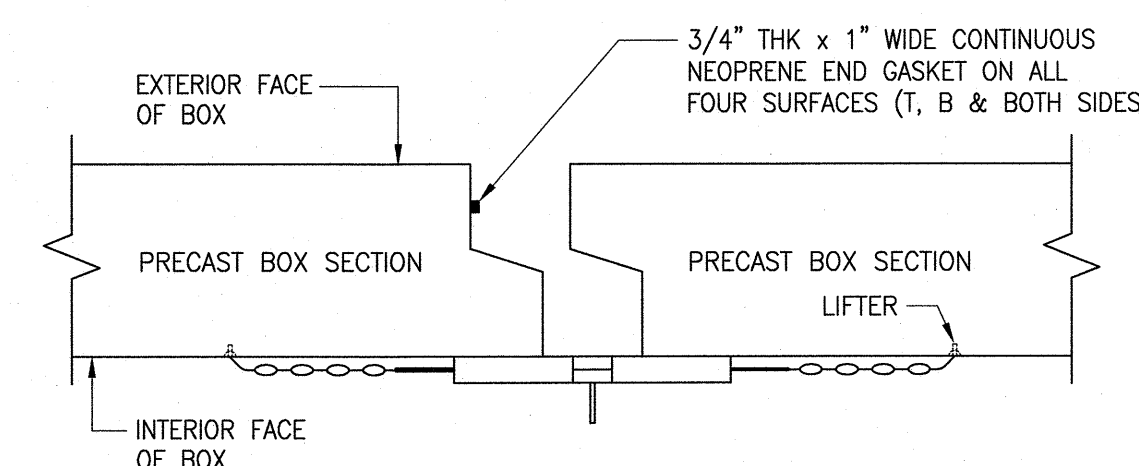
**CULVERT SECTION E**  
SCALE: 3/4"=1'-0"



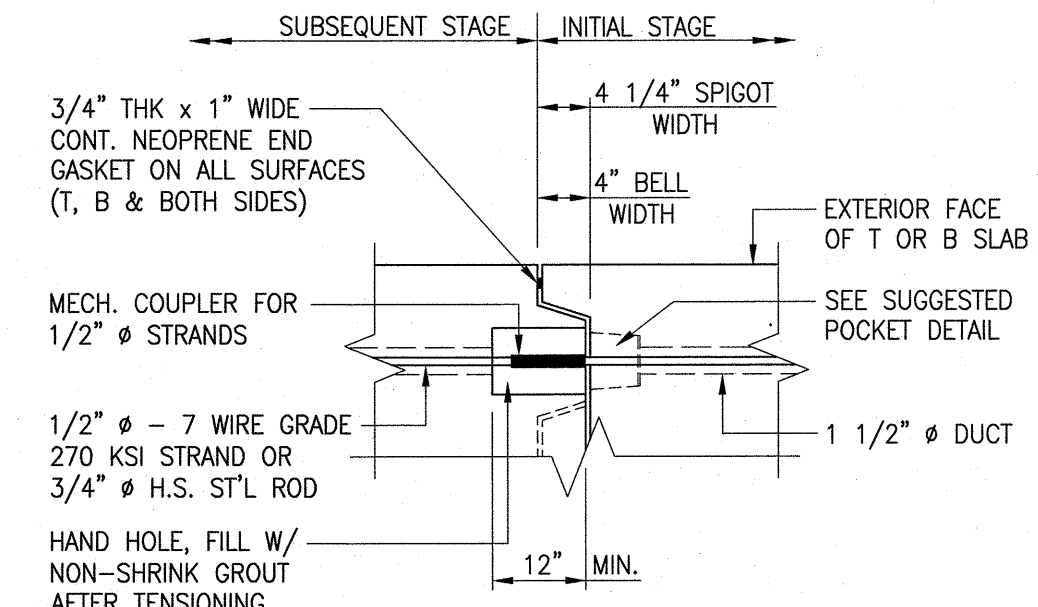
**CULVERT SECTION D**  
SCALE: 3/4"=1'-0"



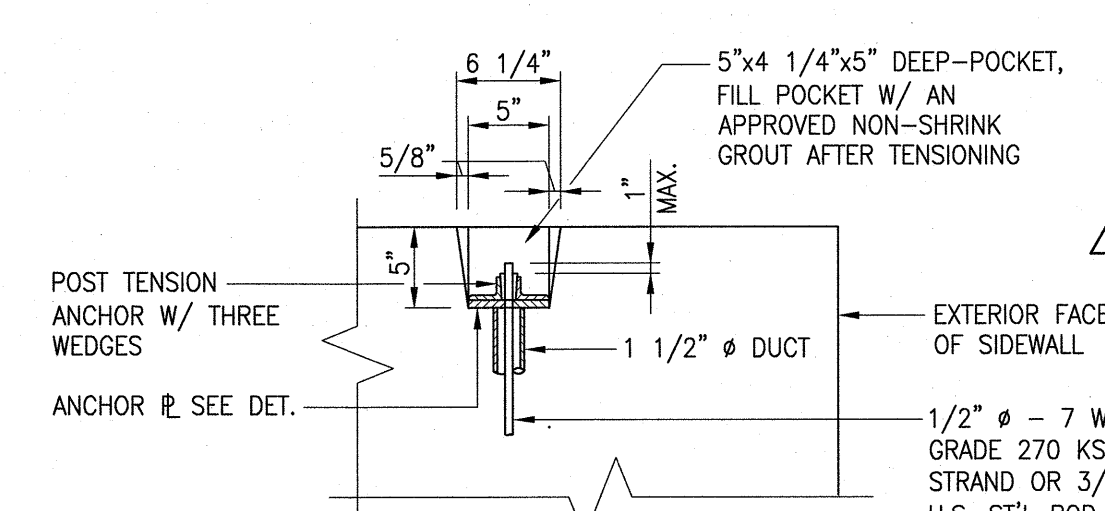
**TYPICAL SECTION OF CULVERT REINFORCEMENT**  
SCALE: 3/4"=1'-0"



**SUGGESTED PULLING DETAIL**  
N.T.S.



**CONNECTION DETAIL**  
N.T.S.



**SUGGESTED POCKET DETAIL**  
N.T.S.

LABEL	MINIMUM AREA OF STEEL REQUIRED
As1	0.31 SQ. IN PER FOOT
As2	0.31 SQ. IN PER FOOT
As3	0.31 SQ. IN PER FOOT
As4	0.31 SQ. IN PER FOOT
As5	0.31 SQ. IN PER FOOT
As6	0.31 SQ. IN PER HORIZONTAL FOOT
As7	0.31 SQ. IN PER VERTICAL FOOT

SEE CULVERT NOTE 3.

**CULVERT NOTES:**

- SEE DRAWING NO. B-1 FOR GENERAL NOTES.
- CULVERT SPAN AND RISE MUST BE MAINTAINED, NO EXCEPTIONS.
- THE PRECAST CONCRETE CULVERT MANUFACTURER SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL. THE MANUFACTURER SHALL PROVIDE STRUCTURAL DESIGN CALCULATIONS SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW JERSEY FOR THE PROPOSED CULVERT.
- LAP SPLICES AND DEVELOPMENT LENGTHS SHALL BE DETERMINED BY THE DESIGNER IN ACCORDANCE WITH CURRENT AASHTO DESIGN CRITERIA.
- THE MINIMUM CONCRETE COVER OVER THE CIRCUMFERENTIAL REINFORCEMENT SHALL BE AS SHOWN ON THE TYPICAL SECTION OF CULVERT REINFORCEMENT ON THIS DRAWING.
- WELDED DEFORMED STEEL WIRE FABRIC, CONFORMING TO AASHTO M221 AND HAVING A DIAMETER OF AT LEAST 3/8 INCHES MAY BE SUBSTITUTED FOR DEFORMED BARS, PROVIDED THE MINIMUM AREA OF STEEL REQUIRED IS SATISFIED.
- LONGITUDINAL TIE BOLTS, WHERE UTILIZED, SHALL CONFORM TO THE REQUIREMENTS OF CURRENT ASTM DESIGNATION A307 AND SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION, INCLUDING THREADING IN ACCORDANCE WITH THE REQUIREMENTS OF CURRENT ASTM A153.
- ALL LIFTING HOLES SHALL BE FILLED WITH NON-SHRINK GROUT. AFTER THE GROUT HAS CURED, THE AREA SHALL BE COATED WITH AN EPOXY WATERPROOFING SEAL COAT.
- A PLASTIC WATERSTOP SHALL BE PROVIDED TO PREVENT WATER FROM ENTERING THE VERTICAL JOINT BETWEEN THE END OF THE PRECAST CULVERT SECTIONS AND ANY CAST-IN-PLACE APPURTENANCES, SUCH AS WINGWALLS AND CAST-IN-PLACE CULVERT SECTIONS.
- PRIOR TO BACKFILLING, A 2 FOOT WIDE STRIP OF FILTER FABRIC SHALL BE PLACED OVER THE TOP AND SIDE OF ALL TRANSVERSE JOINTS.
- PRECAST SECTIONS SHALL BE 7'-0", 8'-0" or 9'-0" AS INDICATED ON DRAWING NO. B-6.
- THE EPOXY WATERPROOFING COATING ON THE ROOF SLAB SHALL BE PROVIDED AT THE PRECASTING PLANT. THE COST OF SHOP AND FIELD APPLIED WATERPROOFING SEAL COAT SHALL BE INCLUDED IN THE PRICE FOR THE BID ITEM, "EPOXY WATERPROOFING".
- PRECAST REINFORCED CONCRETE CULVERT UNITS SHALL BE MANUFACTURED IN STEEL FORMS AND STEEL CURED.
- PRECAST REINFORCED CONCRETE CULVERT UNITS SHALL NOT BE SHIPPED UNTIL 72 HOURS AFTER FABRICATION AND THE 28 DAY COMPRESSIVE STRENGTH REQUIREMENT IS MET.
- REINFORCING BARS FOR THE CULVERT SHALL BE INCLUDED IN THE ITEM "PRECAST CONCRETE CULVERT".

**POST-TENSIONING NOTES:**

- FABRICATOR SHALL PROVIDE ALL DETAILS FOR POST-TENSIONING CONNECTIONS.
- FABRICATOR SHALL SHOW POST-TENSIONING PROCEDURES INCLUDING STRESSING SEQUENCE STEPS.
- SNUG FIT ALL JOINTS BEFORE POST-TENSIONING. CONTRACTOR SHALL TAKE SPECIAL CARE TO KEEP CULVERT JOINTS CLEAN AT THE POST-TENSIONING STAGE.
- AFTER STRESSING, GROUT ALL STRAND VOIDS USING AN APPROVED COMPOUND.
- PROVIDE SEALS OR GASKETS AROUND THE DUCTS AT THE JOINT TO MAKE THE JOINTS WATERTIGHT.
- ALL POST-TENSIONING MUST BE WITNESSED AND APPROVED BY THE ENGINEER.
- AFTER POST-TENSIONING IS APPROVED, PERFORM THE FOLLOWING: CUT STRANDS TO PROVIDE A MINIMUM OF 2 1/4" CLEAR FROM OUTSIDE FACE OF CONCRETE; COAT ANCHORAGE AND STRANDS WITH A COAL TAR EPOXY; COAT RECESS WITH EPOXY BONDING COMPOUND; AND FILL RECESS WITH NON-SHRINK GROUT. THE USE OF EPOXY BONDING COMPOUNDS SHALL BE IN CONFORMANCE WITH NJDOT STANDARD SPECIFICATIONS.
- POST-TENSION AND GROUT BEFORE BACKFILLING AND ALLOWING TRAFFIC OVER THE BOX CULVERT. ALLOW GROUT TO ACHIEVE SPECIFIED MINIMUM STRENGTH BEFORE BACKFILLING.

**NOTES:**

- FOR GENERAL NOTES, SEE DRAWING NO. B-1.
- FOR EXISTING CULVERT PLAN, DEMOLITION PLAN AND SECTIONS, SEE DRAWING NO. B-2.
- FOR PROPOSED GENERAL CULVERT PLAN AND ELEVATIONS, SEE DRAWING NO. B-3.
- FOR CULVERT, WINGWALL, DECK AND APPROACH SLAB SECTIONS AND DETAILS, SEE DRAWING NO. B-4.
- FOR ADDITIONAL CULVERT PLAN, SECTIONS, MISCELLANEOUS DETAILS, AND REINFORCEMENT SCHEDULES, SEE THIS DRAWING AND DRAWINGS NOS. B-6 & B-7.
- FOR MISCELLANEOUS STRUCTURAL DETAILS, SEE DRAWING NO. B-8.
- FOR LOGS OF TEST BORINGS, SEE DRAWING NO. B-9.

**oxe ASSOCIATES**  
CONSULTING AND MUNICIPAL ENGINEERS  
3441 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859  
1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731

**MICHAEL J. McCLELLAND P.E.**  
PROFESSIONAL ENGINEER  
U.C. 32468

**6.10.20**

Revisions		
No.	Date	By
3	08/02/23	J.S.
4	11/20/23	J.S.

County of Union  
Division of Engineering  
2325 South Avenue, Scotch Plains, N.J. 07076

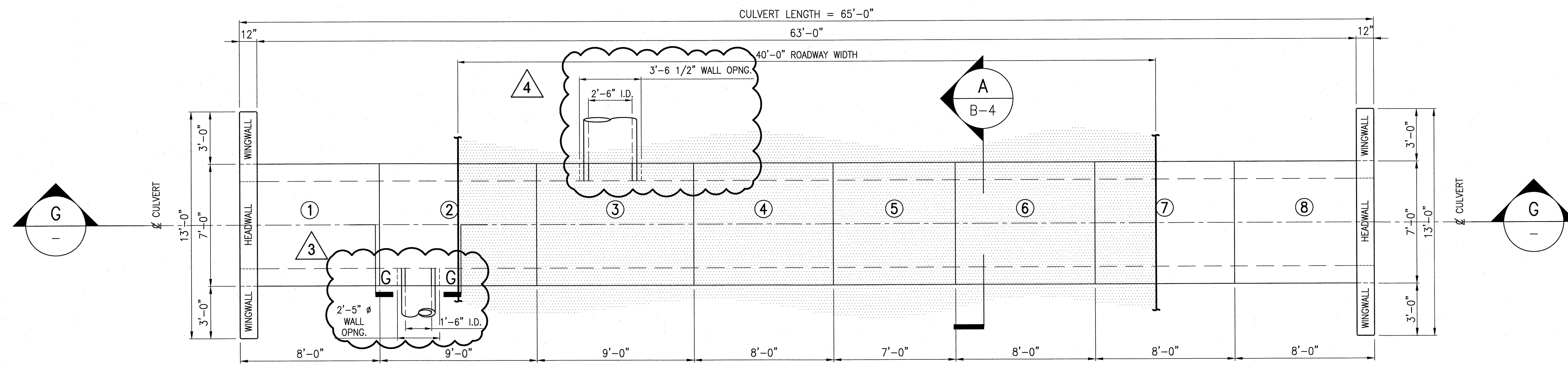
**REPLACEMENT OF LOWER ROAD  
MINOR BRIDGE, Li-63**

City of Linden, Union County New Jersey

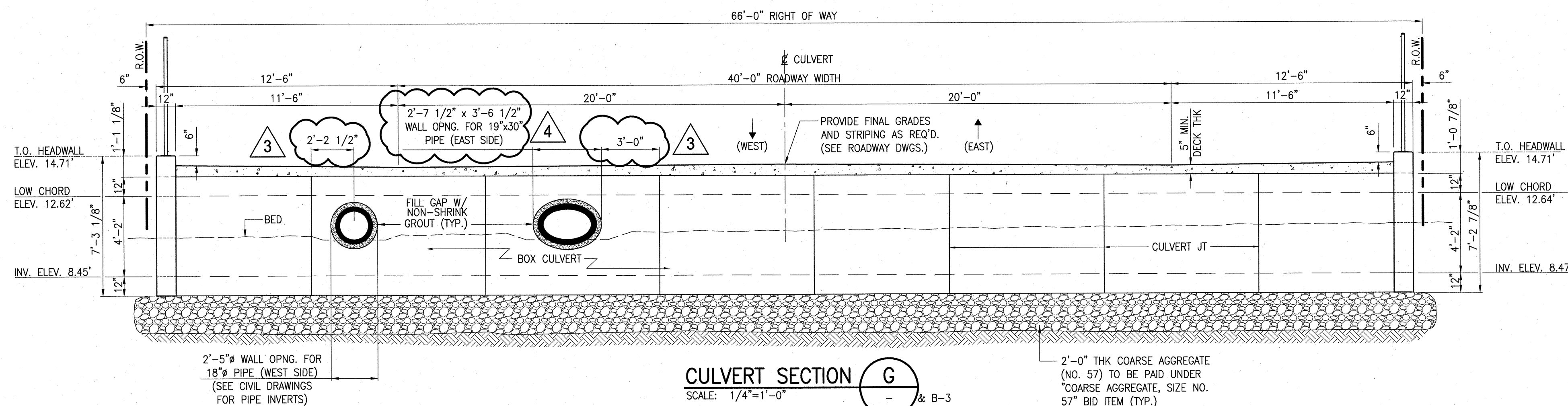
**CULVERT SECTIONS AND DETAILS**

Scale: AS SHOWN  
Sheet No. 19 of 23  
Drawing No. B-5  
Date: August 2020

**Ricardo Matias**  
County Engineer  
N.J.P.E. No. 24GE05154000



**PLAN**  
SCALE: 1/4"=1'-0"



**NOTES:**

- FOR GENERAL NOTES, SEE DRAWING NO. B-1.
- FOR EXISTING CULVERT PLAN, DEMOLITION PLAN AND SECTIONS SEE DRAWING NO. B-2.
- FOR PROPOSED GENERAL CULVERT PLAN AND ELEVATIONS, SEE DRAWING NO. B-3.
- FOR CULVERT, WINGWALL, DECK AND APPROACH SLAB SECTIONS AND DETAILS, SEE DRAWING NO. B-4.
- FOR ADDITIONAL CULVERT PLAN, SECTIONS, MISCELLANEOUS DETAILS, AND REINFORCEMENT SCHEDULES, SEE THIS DRAWING AND DRAWINGS NOS. B-5 & B-7.
- FOR MISCELLANEOUS STRUCTURAL DETAILS, SEE DRAWING NO. B-8.
- FOR LOGS OF TEST BORINGS, SEE DRAWING NO. B-9.

**CONSULTING AND MUNICIPAL ENGINEERS**

341 BORDENTOWN AVENUE, PARLIN, NEW JERSEY 08859  
1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731

**MICHAEL J. McCLELLAND P.E.**  
PROFESSIONAL ENGINEER  
LIC. 32468

DATE: 8.10.20

Revisions		
No.	Date	By
3	08/02/23	J.S.
4	11/20/23	J.S.
5	06/20/24	J.S.
Designed By: J.N.		
Drawn By: J.N.		
Checked By: J.N.		
Approved By: J.N.		

County of Union  
Division of Engineering  
2325 South Avenue, Scotch Plains, N.J. 07076

**REPLACEMENT OF LOWER ROAD  
MINOR BRIDGE, Li-63**

City of Linden, Union County New Jersey

**CULVERT PLAN AND SECTION**

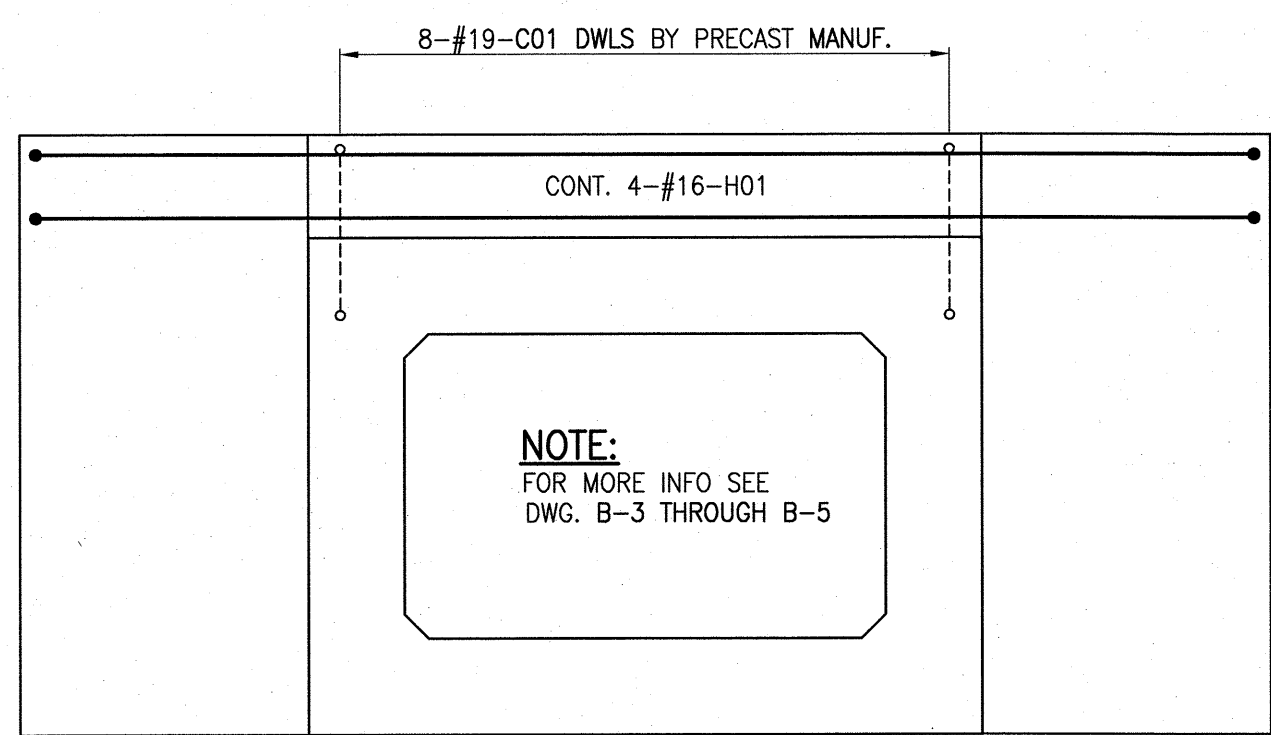
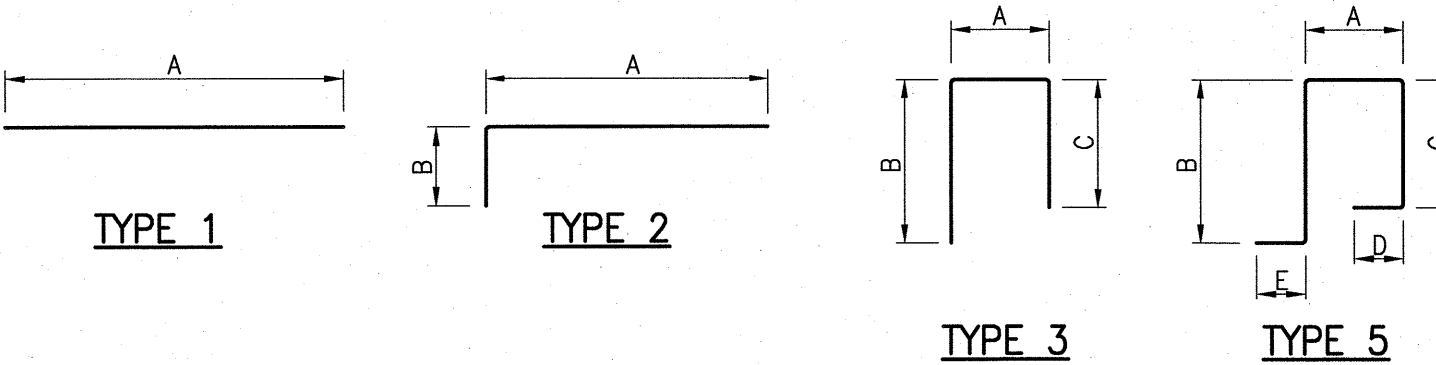
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Sheet No. 20 of 23  
Drawing No. B-6  
Date: August 2020

**Ricardo Matias**  
County Engineer  
N.J.P.E. No. 24GE05154000

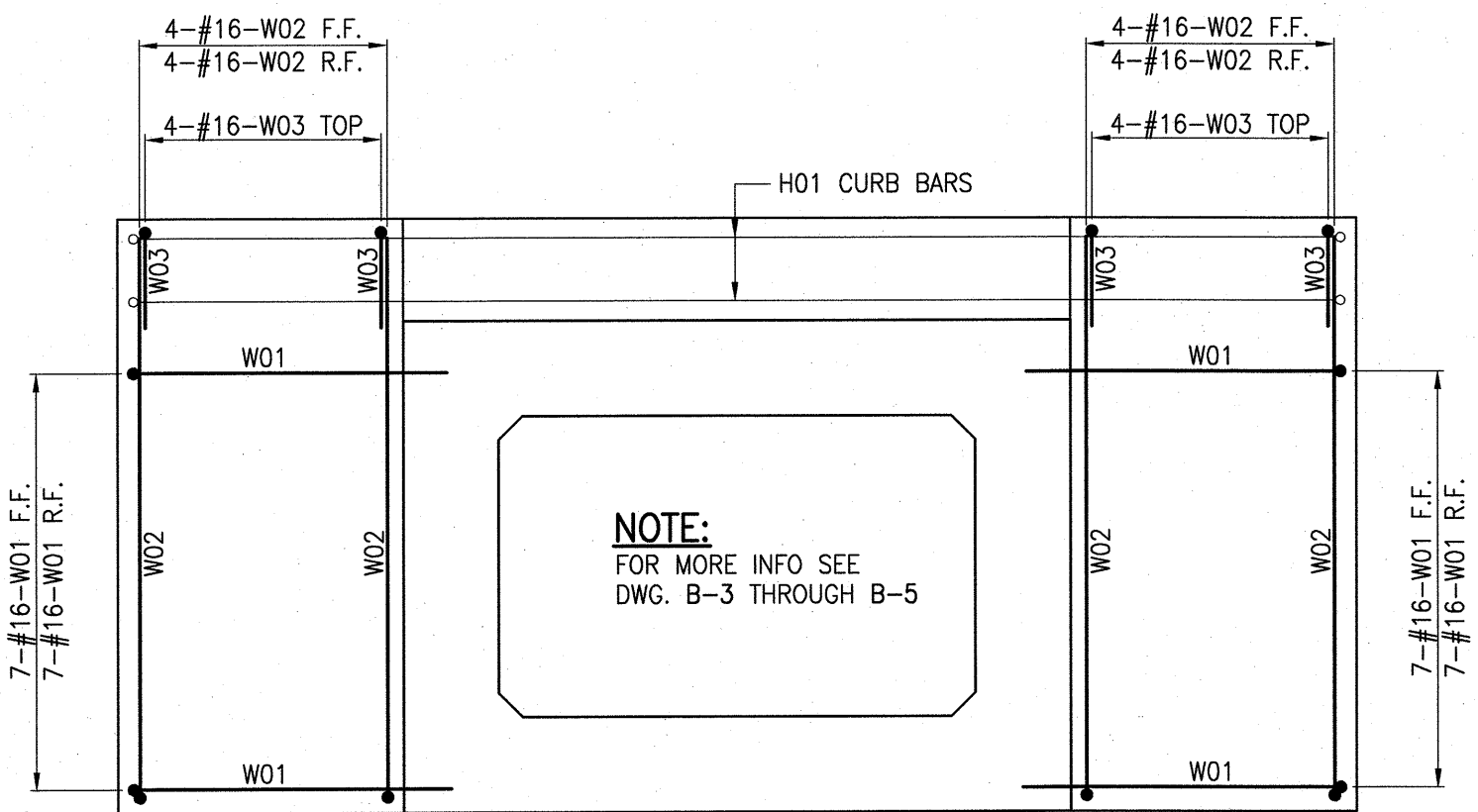
PUN00622.01



REINFORCING BAR SCHEDULE										
MARK	TYPE	SIZE	QUAN.	LENGTH	A	B	C	D	E	REMARKS
NORTH HEADWALL										
C01	5	19	8	5'-2"	0'-8"	1'-9"	1'-9"	0'-6"	0'-6"	DWLS BY MANUF.
H01	3	16	4	13'-10"	12'-8"	0'-7"	0'-7"			HORIZ.
SOUTH HEADWALL										
C01	5	19	8	5'-2"	0'-8"	1'-9"	1'-9"	0'-6"	0'-6"	DWLS BY MANUF.
H01	3	16	4	13'-10"	12'-8"	0'-7"	0'-7"			HORIZ.
NORTH WINGWALL										
W01	2	16	2x14	3'-11"	3'-4"	0'-7"				HORIZ.
W02	2	16	2x8	7'-6"	6'-11"	0'-7"				VERT.
W03	3	16	2x4	2'-8"	0'-8"	1'-0"	1'-0"			TOP
SOUTH WINGWALL										
W01	2	16	2x14	3'-11"	3'-4"	0'-7"				HORIZ.
W02	2	16	2x8	7'-6"	6'-11"	0'-7"				VERT.
W03	3	16	2x4	2'-8"	0'-8"	1'-0"	1'-0"			TOP



**NORTH AND SOUTH CURB  
REINFORCEMENT ELEVATION**  
SCALE: 1/2"=1'-0"



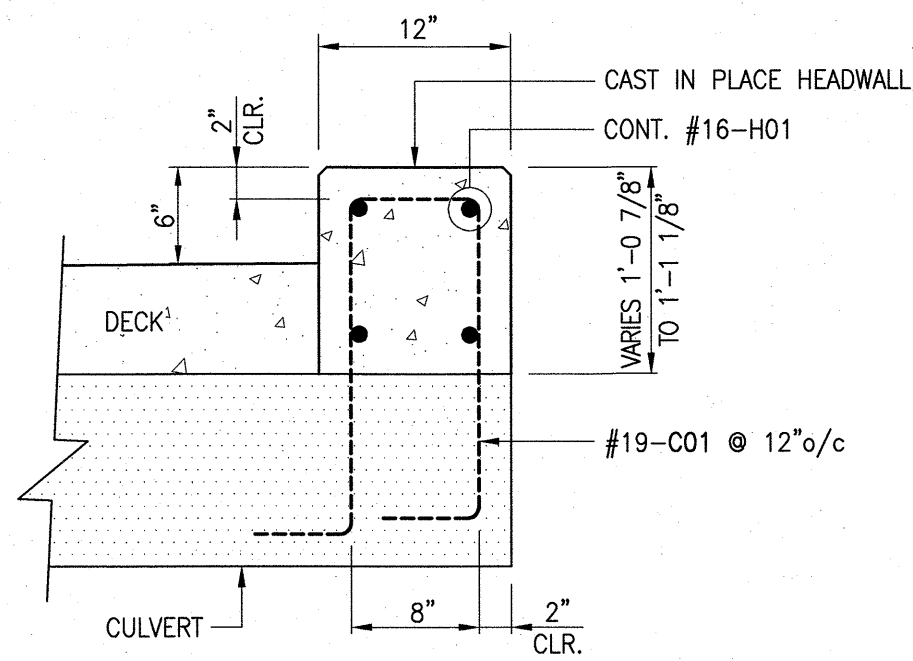
**NORTH AND SOUTH WINGWALLS  
REINFORCEMENT ELEVATION**  
SCALE: 1/2"=1'-0"

**NOTES:**

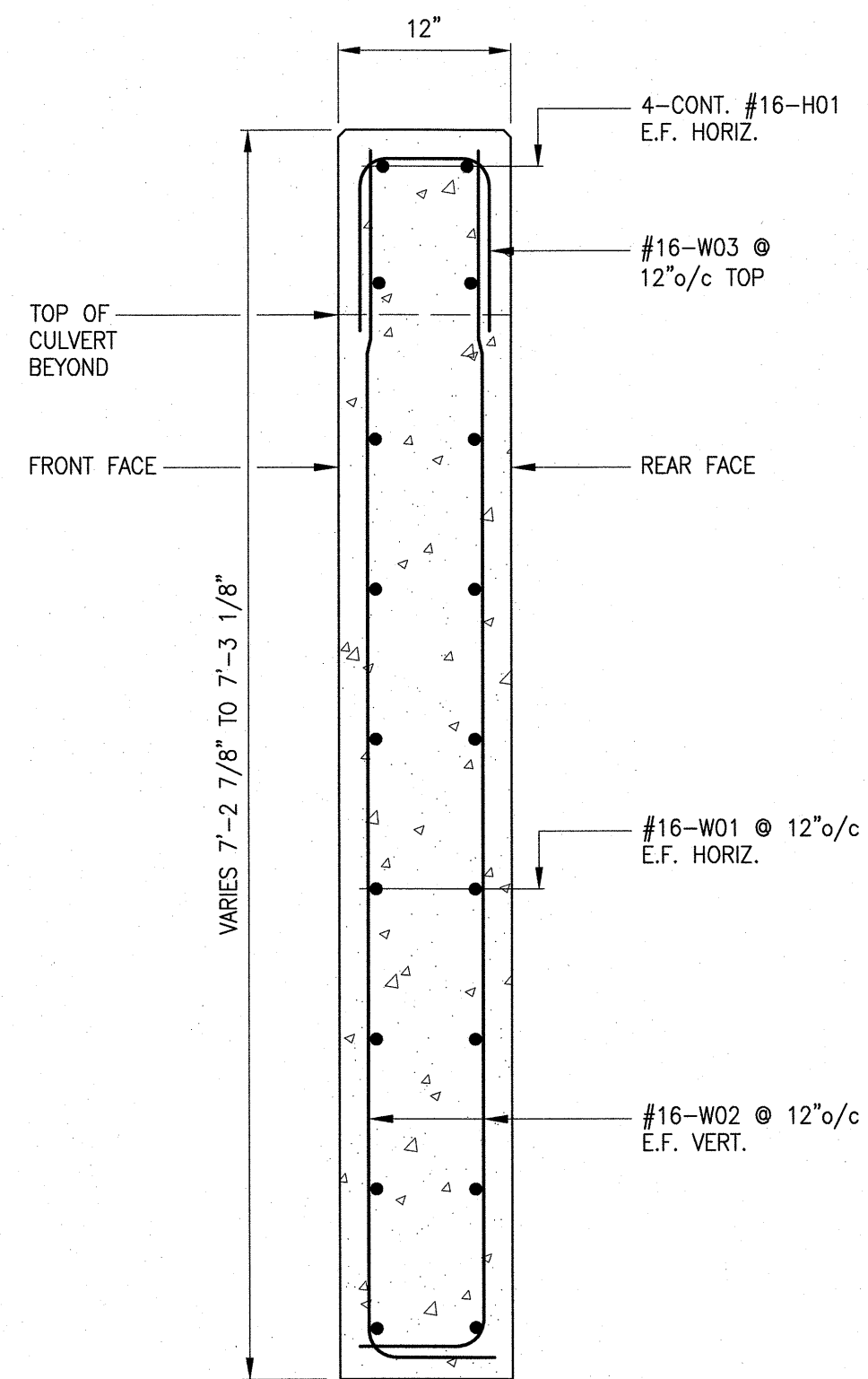
- FOR WINGWALL AND HEADWALL, SEE DRAWINGS NOS. B-4 THROUGH B-6.
- REINFORCEMENT STEEL:  
A. ASTM A615 (GRADE 60)  
B. ALL REINFORCEMENT STEEL TO BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A767. ELECTRO PLATED GALVANIZING IS NOT ACCEPTABLE AND WILL BE REJECTED.
- FOR DIAGRAMS OF BAR TYPES LISTED IN SCHEDULE, SEE THIS DRAWING.

**LEGEND:**

- 14-#16-W01@12" F.F.
- Q - QUANTITY  
S - SIZE  
W - WINGWALL  
H - HEADWALL  
M - MANUFACTURER  
C - CULVERT  
W - WINGWALL

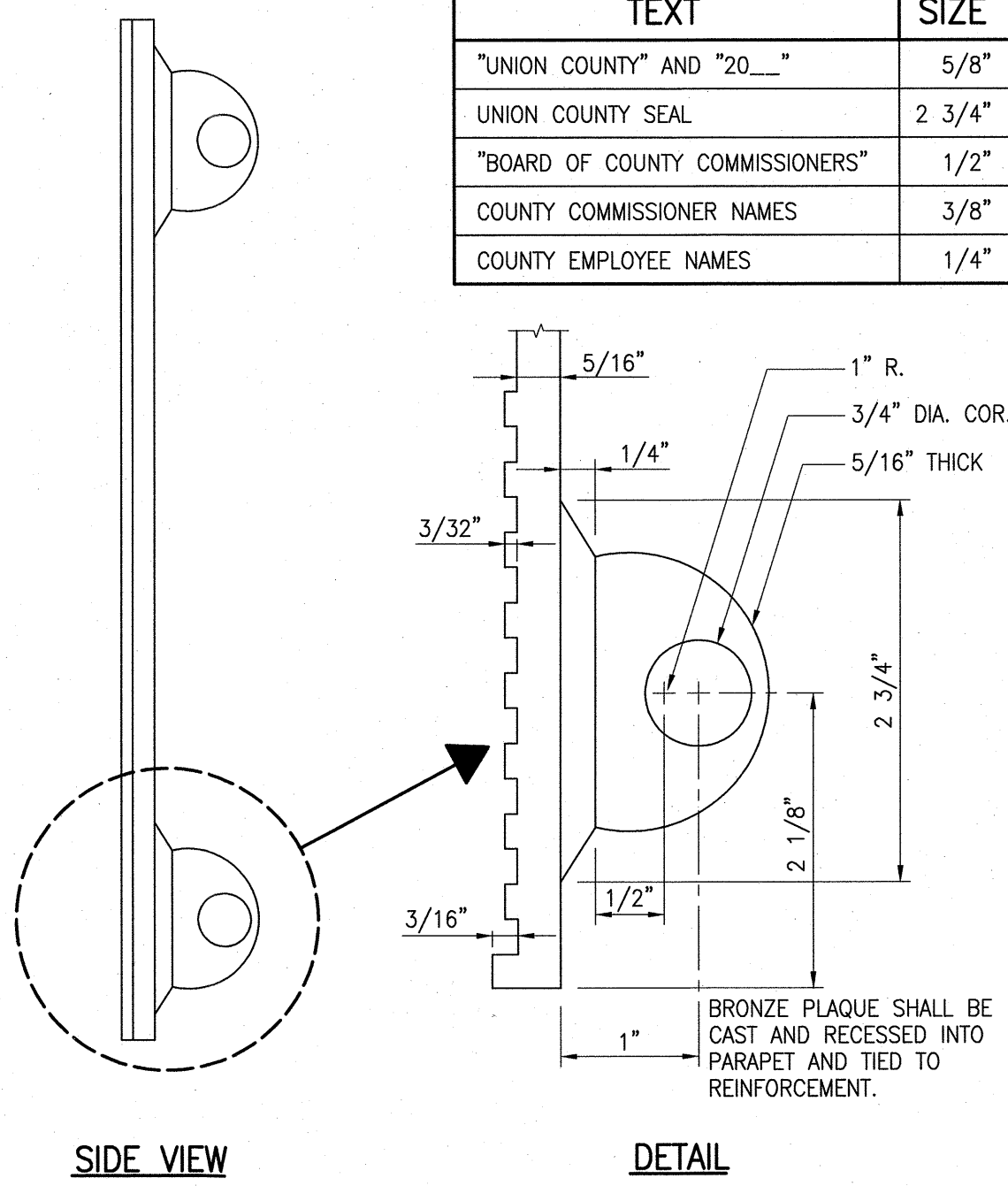


**NORTH AND SOUTH HEADWALL  
REINFORCEMENT SECTION**  
SCALE: 1"=1'-0"



**NORTH AND SOUTH WINGWALL  
REINFORCEMENT SECTION**  
SCALE: 1"=1'-0"

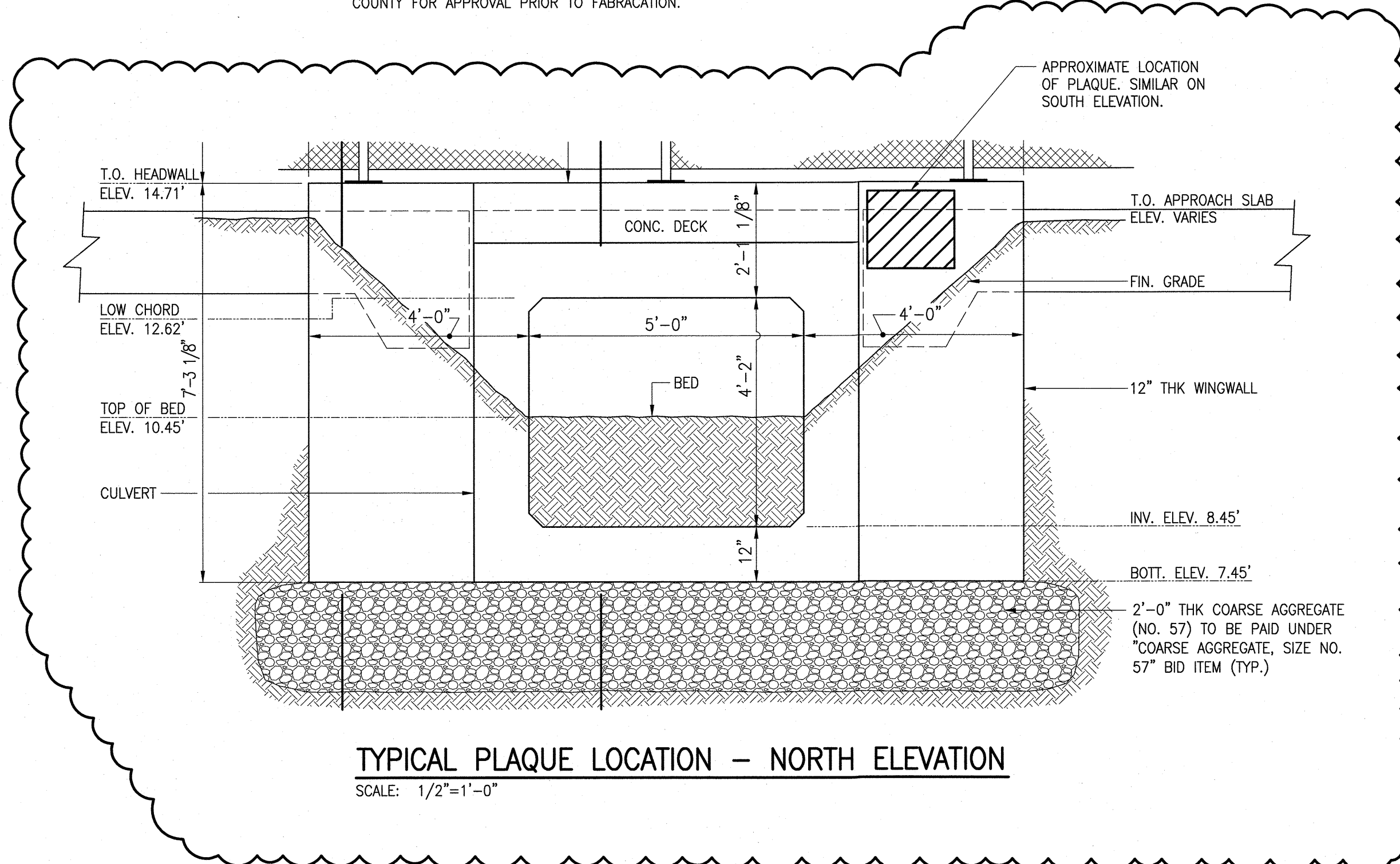
4



**DETAILS OF BRONZE BRIDGE PLAQUE**  
N.T.S.

**NOTES:**

- TWO (2) PLAQUES TO BE SET FLUSH IN THE WINGWALLS AT THE SOUTHEAST AND NORTHWEST WINGWALLS.
- THE CONTRACTOR MAY SUBMIT AN ALTERNATE ANCHORAGE SYSTEM TO THE COUNTY FOR APPROVAL.
- EXISTING BRONZE PLAQUE SHALL BE CLEANED AND INSTALLED IN THE NORTHEAST PYLON.
- SUBMIT PROPOSED PLAQUE TEXT (I.E. NAMES, DATES, TILES, ETC.) TO THE COUNTY FOR APPROVAL PRIOR TO FABRICATION.



**TYPICAL PLAQUE LOCATION - NORTH ELEVATION**  
SCALE: 1/2"=1'-0"

**NOTES:**

- FOR GENERAL NOTES, SEE DRAWING NO. B-1.
- FOR EXISTING CULVERT PLAN, DEMOLITION PLAN AND SECTIONS SEE DRAWING NO. B-2.
- FOR PROPOSED GENERAL CULVERT PLAN AND ELEVATIONS, SEE DRAWING NO. B-3.
- FOR CULVERT, WINGWALL, DECK AND APPROACH SLAB SECTIONS AND DETAILS, SEE DRAWING NO. B-4.
- FOR ADDITIONAL CULVERT PLAN, SECTIONS, MISCELLANEOUS DETAILS, AND REINFORCEMENT SCHEDULES, SEE THIS DRAWING AND DRAWINGS NOS. B-5 & B-6.
- FOR MISCELLANEOUS STRUCTURAL DETAILS, SEE DRAWING NO. B-8.
- FOR LOGS OF TEST BORINGS, SEE DRAWING NO. B-9.

**CONSULTING AND MUNICIPAL ENGINEERS**

**Michael J. McClelland P.E.**  
PROFESSIONAL ENGINEER  
LIC. 32468

DATE: 8.10.20

Revisions		
No.	Date	By
4	11/20/23	J.S.
5	06/20/24	J.S.

County of Union  
Division of Engineering  
2325 South Avenue, Scotch Plains, N.J. 07076

**REPLACEMENT OF LOWER ROAD  
MINOR BRIDGE, Li-63**

City of Linden, Union County New Jersey

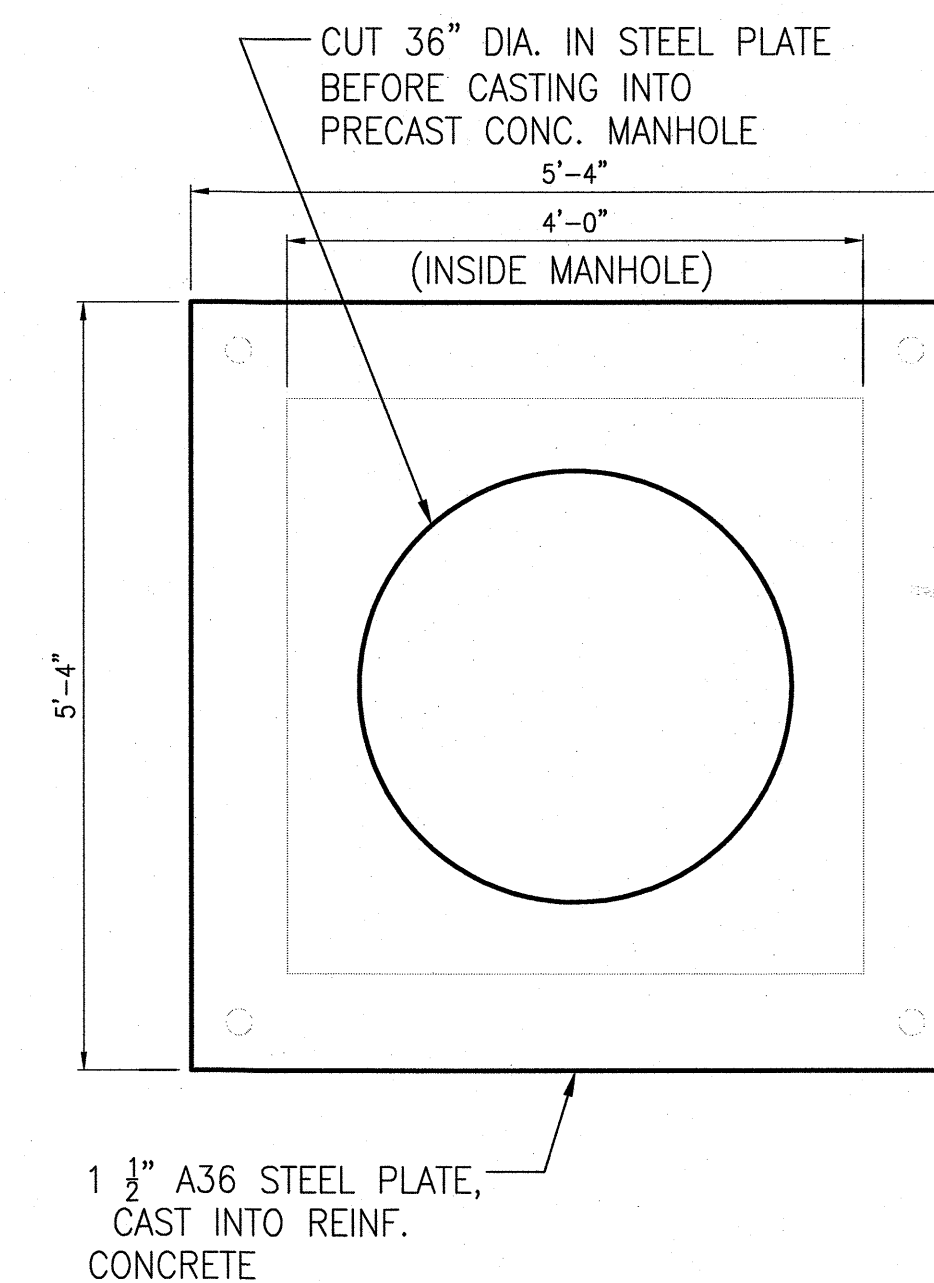
**REINFORCING BAR SCHEDULE, ELEVATION,  
SECTIONS AND PLAQUE DETAILS**

Scale: AS SHOWN  
Sheet No. 21 of 23  
Drawing No. B-7  
Date: August 2020

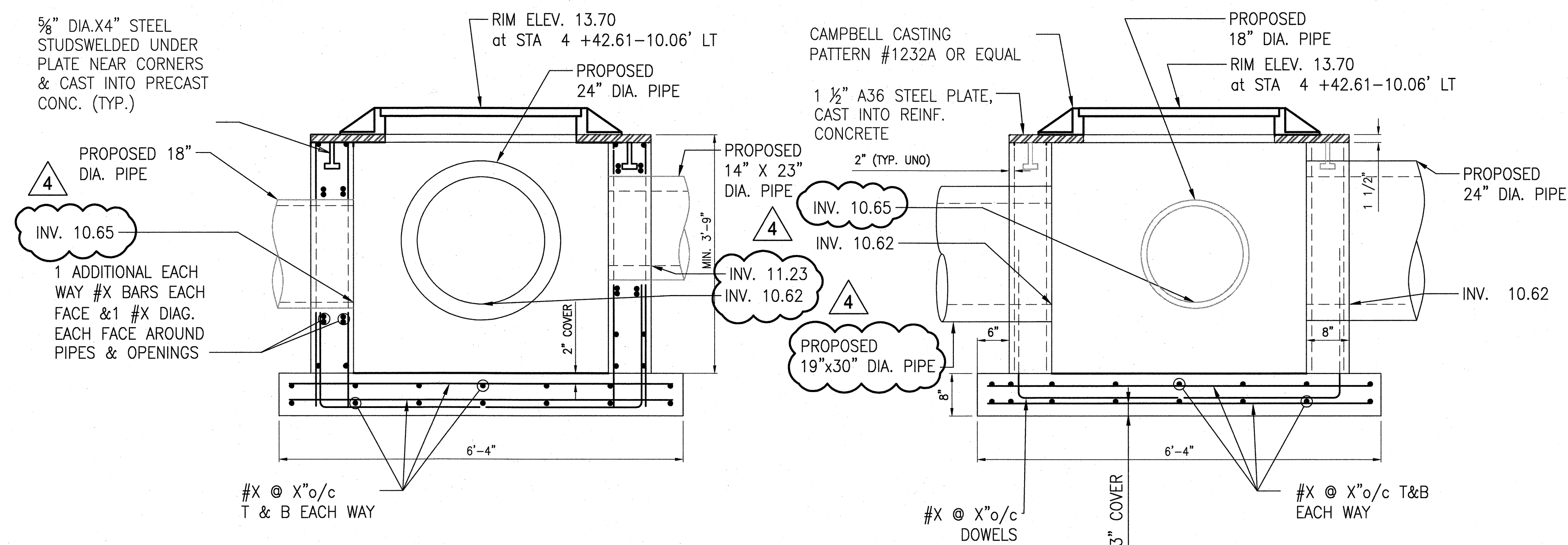
**Ricardo Matias**  
County Engineer  
N.J.P.E. No. 24GE05154000

5

PUN00622.01



MANHOLE WALL PLAN  
at STA.4+42.61-10.06' LT.  
SCALE: 3/4"=1'-0"



**SECTION B**  
SCALE: 3/4"=1'-0"

1. THE CONTRACTOR IS HEREBIN ADVISED THAT THE DETAILS FOR THE 4' SQUARE MAN-HOLE STORM SEWER ARE CONCEPTUAL PLANS THAT PROVIDE MINIMUM DIMENSIONAL REQUIREMENTS IN CONJUNCTION WITH THIS PROJECT. AS PART OF THE BID FOR THIS PROJECT, THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT ALL SHOP DRAWINGS AND CALCULATIONS FOR THE 4' SQUARE MANHOLE STORM SEWER, SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER. THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT ALL SHOP DRAWINGS AND CALCULATIONS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND CONSTRUCTION.

2. ALL CAST-IN-PLACE CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH,  $f_c=4,000$  PSI.

3. ALL REINFORCING STEEL BARS, DOWELS & WELDED WIRE FABRIC SHALL BE EPOXY COATED.

4. ALL CONCRETE SHALL BE CURED WITH WET HOPS AND DOWELS SHALL BE PROTECTED WITH WET HOPS.

5. SEE DWG. NO. B-1 FOR ALLOWABLE BEARING CAPACITY FOR BURIED STRUCTURES.

Revisions					
No.	Date	By			
4	11/20/23	J.S.			
Designed By		Drawn By			
—		S.P.			
Checked By		Approved By			
N.H.		(Signature)			

Ricardo Matias  
County Engineer  
N.J.P.E. No. 24GE05154000



<b>Project: Lower Road Minor Bridge</b> <b>Linden, New Jersey</b>		Sheet: 1 of 2	
Samp: 2" split spoon Hammer/Fall: 140lb/30" Automatic Hammer Rig Type/Drilling Method: Truck Mounted Mud Rotary		Boring No.: B-1 Location Plan: See Plan Drilling Company: Environmental Technical Drilling, Inc. Driller: S. Taczovsky Helper: R. Pitale	
Project#: PUN00622.01 Start Date: 6/1/2018 End Date: 6/1/2018		Ground Elevation: +14.0' Depth To Water: -8.0' to 10.0' (est.) Ground Water Elev: -4.0' to +8.0'	
Date/Time: 6/1/2018		Drilling Inspector: A. Pant Sole Engineer: L.P. Singh, P.E.	
Depth Below Surface (ft)	Casing per ft.	Blows Sampler per 6 inches	Identification of Soils/Remarks
1	8	9	S-1 Reddish Brown-Gray Clayey SILT, trace stone fragments R=12"
2		8	S-2 Gray Silty CLAY, trace Organics R=12"
3	6	2	S-3 Gray CLAY & SILT R=24"
4	3	3	S-4 Gray-Brown Clayey SILT R=24"
5	3	4	S-5 Same as S-4 R=20"
6	7	5	S-6 Reddish Brown cm" SAND, trace SIL & Clay, trace m" Gravel R=1"
7	4	6	S-7 Reddish Brown cmf SAND, little SIL & Clay, some mf Gravel R=18"
8	4	8	S-8 Reddish Brown Clayey SILT R=18"
9	4	8	S-9 Reddish Brown SILT & CLAY R=12"
10	4	6	S-10 Reddish Brown SHALE R=1"
11	4	6	S-11 Same as S-10 R=1"
12	4	6	S-12 Same as S-10 R=1"
13			
14			
15	5	5	
16			
17			
18			
19			
20			
21	7	8	
22		8	
23			
24			
25	5	5	
26		8	
27			
28			
29			
30			
31	50"		
32			
33			
34			
35	50"		
36			
37			
38			
39			
40	50"		
41			
42			

<b>Project: Lower Road Minor Bridge</b> <b>Linden, New Jersey</b>		Sheet: 2 of 2	
Samp: 2" split spoon Hammer/Fall: 140lb/30" Automatic Hammer Rig Type/Drilling Method: Truck Mounted Mud Rotary		Boring No.: B-1 Location Plan: See Plan Drilling Company: Environmental Technical Drilling, Inc. Driller: S. Taczovsky Helper: R. Pitale	
Project#: PUN00622.01 Start Date: 6/1/2018 End Date: 6/1/2018		Ground Elevation: +14.0' Depth To Water: -8.0' to 10.0' (est.) Ground Water Elev: -4.0' to +8.0'	
Date/Time: 6/1/2018		Drilling Inspector: A. Pant Sole Engineer: L.P. Singh, P.E.	
Depth Below Surface (ft)	Casing per ft.	Blows Sampler per 6 inches	Identification of Soils/Remarks
43			
44			
45			
46	50"		S-13 Same as S-10 R=1"
47			
48			
49	50"		S-14 Same as S-10 R=1"
50			End of Test Boring @ 49.0'
51			
52			
53			
54			
55			
56			
57			
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### ENGINEERING CLASSIFICATION SYSTEM FOR RESIDUAL SOIL FORMATIONS AND ROCK

I. RESIDUAL SOIL CLASSIFICATION SYSTEM (1)	
STANDARD PENETRATION TEST "N" VALUES (ASTM D1586)	CLASSIFICATION
0 TO 60 BLOWS/FOOT	RESIDUAL SOIL-CLASSIFICATION IN ACCORDANCE WITH ENGINEERING SOIL CLASSIFICATION SYSTEM
60 BLOWS/FOOT TO 50 BLOWS/INCH	DISINTEGRATED ROCK - PARENT FORMATION
GREATER THAN 50 BLOWS/INCH	ROCK - FORMATION

II. DESCRIPTION OF ROCK STRENGTH (2)		
ROCK STRENGTH CLASS	RANGE OF UNCONFINED COMPRESSIVE STRENGTH POUNDS/SQUARE INCH	REACTION OF HAND-HELD SPECIMEN TO IMPACT FROM 1 LB. BALL PEEN HAMMER
A	GREATER THAN 32,000	ELASTIC REBOUND
B	16,000 TO 32,000	PITS
C	8,000 TO 16,000	DENTS
D	4,000 TO 8,000	CRACKS OR SHEARS
E	LESS THAN 4,000	MOLDABLE - FRIABLE

III. DESCRIPTIVE TERMINOLOGY FOR JOINT SPACING (3)	
DESCRIPTIVE TERM	SPACING OF JOINTS
VERY CLOSE	LESS THAN 2 INCHES
CLOSE	2 INCHES TO 1 FOOT
MODERATELY CLOSE	1 FOOT TO 3 FEET
WIDE	3 FEET TO 10 FEET
VERY WIDE	GREATER THAN 10 FEET

IV. RELATIONSHIP OF ROCK QUALITY DESIGNATION (RQD) AND ROCK QUALITY	
ROCK QUALITY DESIGNATION (RQD)	DESCRIPTION OF ROCK QUALITY
0 TO 25 PERCENT	VERY POOR
25 TO 50 PERCENT	POOR
50 TO 75 PERCENT	FAIR
75 TO 90 PERCENT	GOOD
90 TO 100 PERCENT	EXCELLENT

V. RESIDUAL SOIL AND ROCK CLASSIFICATION SYSTEM REFERENCES	
1. Residual soil classification system based on recommendations contained in ASCE Journal of the Geotechnical Engineering Division of March 1977 entitled: "Estimating Foundation Settlements on Residual Soils", R. E. Martin.	
2. Rock hardness classification system based generally on system proposed in the "Engineering Classification and Index Properties for Intact Rock", D.U. Deere and R.P. Miller, 1966 and hammer index test criteria taken from article entitled "Unified Rock Classification System", as contained in the Bulletin of the Association of Engineering Geologists, Volume XXI, November, 1964.	
3. Core description system is based on suggested system contained in the ASCE Rock Mechanics Seminar in April and May of 1965, entitled "Geologic Considerations in Rock Mechanics", as prepared by Don V. Deere.	
4. Rock Quality Designation (RQD) is defined as a modified core recovery ratio considering only pieces of core that are greater than 4 inches in length. Obvious fractures induced by drilling are ignored in this system.	

SOIL CLASSIFICATION CHART					
MAJOR DIVISIONS			GROUP SYMBOLS ASTM D2487	TYPICAL DESCRIPTIONS	
COARSE GRAINED SOILS  MORE THAN 50% RETAINED ON NO. 200 SIEVE	GRAVELS  50% OR MORE OF COARSE FRACTION RETAINED ON NO.4 SIEVE	CLEAN GRAVELS  ***	GW	WELL GRADED GRAVELS & GRAVEL-SAND MIXTURES, LITTLE OR NO FINES	
			GP	POORLY GRADED GRAVELS & GRAVEL-SAND MIXTURES, LITTLE OR NO FINES	
		GRAVELS WITH FINES	GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES	
			GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES	
	SANDS MORE THAN 50% OF COARSE FRACTION PASSES NO.4 SIEVE	CLEAN SANDS  ***	SW	WELL GRADED SANDS & GRAVELLY SANDS, LITTLE OR NO FINES	
			SP	POORLY GRADED SANDS & GRAVELLY SANDS, LITTLE OR NO FINES	
		SANDS WITH FINES ***	SM	SILTY SANDS, SAND-SILT MIXTURES	
			SC	CLAYEY SANDS, SAND - CLAY MIXTURES	
FINE GRAINED SOILS  50% OR MORE PASSES NO. 200 SIEVE *	SILTS AND CLAYS  LIQUID LIMIT 50 % OR LESS		ML	INORGANIC SILTS, VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY	
			CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, SANDY OR GRAVELLY CLAYS, SILTY CLAYS, LEAN CLAYS	
			OL	ORGANIC SILTS & ORGANIC SILTY CLAYS OF LOW PLASTICITY	
	SILTS & CLAYS  LIQUID LIMIT GREATER THAN 50 %		MH	INORGANIC SILTS OF HIGH PLASTICITY, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILTS	
			CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS	
			OH	ORGANIC CLAYS OR SILTS OF HIGH PLASTICITY	
	HIGHLY ORGANIC SOILS		PT	PEAT AND OTHER HIGHLY ORGANIC SILTS	
* BASED ON MATERIAL PASSING THE 3 INCH (75MM) SIEVE GRADATION TERM                      % BY WEIGHT *** COMBINED SYMBOLS (GP-GM, SP-SM, GW-GM, SW-SM) INDICATE BETWEEN 6 AND 12 % FINES TRACE .....                      1 TO 12 CL-ML COMBINED SYMBOL INDICATES BORDERLINE CASE FINE GRAINED ABOVE "A" LINE PI BETWEEN 4 AND 7 PERCENT SOME .....                      12 TO 30 GW - D60/D10 GREATER THAN 4 AND (D30**2)/(D60) (D10) BETWEEN 1 AND 3 ADD "Y" .....                      OVER 30 SW - D60/D10 GREATER THAN 6 AND (D30**2)/(D60) (D10) BETWEEN 1 AND 3					
CME ASSOCIATES					

\* BASED ON MATERIAL PASSING THE 3 INCH (75MM) SIEVE  
GRADATION TERM % BY WEIGHT  
\*\*\* COMBINED SYMBOLS (GP-GM, SP-SM, GW-GM, SW-SM) INDICATE BETWEEN 6 AND 12 % FINES  
TRACE ..... 1 TO 12  
CL-ML COMBINED SYMBOL INDICATES BORDERLINE CASE FINE GRAINED ABOVE "A" LINE PI BETWEEN 4 AND 7 PERCENT SOME ..... 12 TO 30  
GW - D60/D10 GREATER THAN 4 AND (D30\*\*2)/(D60) (D10) BETWEEN 1 AND 3  
ADD "Y" ..... OVER 30  
SW - D60/D10 GREATER THAN 6 AND (D30\*\*2)/(D60) (D10) BETWEEN 1 AND 3

CME ASSOCIATES

### CME ASSOCIATES

#### BURMISTER SOIL SAMPLE CLASSIFICATION SYSTEM

Soils were classified in accordance with the American Society for Engineering Education System of Definition as proposed by Burmister

#### DEFINITION OF SOIL COMPONENTS AND FRACTIONS

MATERIALS	FRACTION	SIEVE SIZE	DEFINITION
Boulders	N.A.	9" +	Material ret. on 9" sieve
Cobbles	N.A.	3" to 9"	Material passing 9" and retained on 3" sieve
Gravel	coarse medium fine	1" to 3" 3/8" to 1" no.10 to 3/8	Material passing 3" and retained on the No. 10 sieve
Sand	Coarse medium fine	No.30 to No.10 No.60 to No. 30 No.200 to No. 60	Material passing the No. 30 sieve and retained on No. 200
Silt	N.A.	Passing No. 200	Definition below

Silt is further defined as that material passing the No. 200 Sieve that is non-plastic and exhibits little or no strength when air dried.

MATERIAL	PLASTICITY	PLASTICITY INDEX	
Clayey Silt	slight	1 to 5	
Silt & Clay	low	5 to 10	Clay Soil (definition)
Clay & Silt	Medium	10 to 20	
Silty Clay	High	20 to 40	
Clay	Very High	40 (+)	

Clay-soil is defined as material passing the No. 200 sieve that can be made to exhibit plasticity and clay qualifies within a certain range of moisture content and which exhibits considerable strength when air dried.

Organic Silt is defined as the material passing the No. 200 Sieve which exhibits plastic properties within a certain range of moisture content and exhibits fine granular and organic characteristics and is further described as low to very high plasticity based on Plasticity Index.

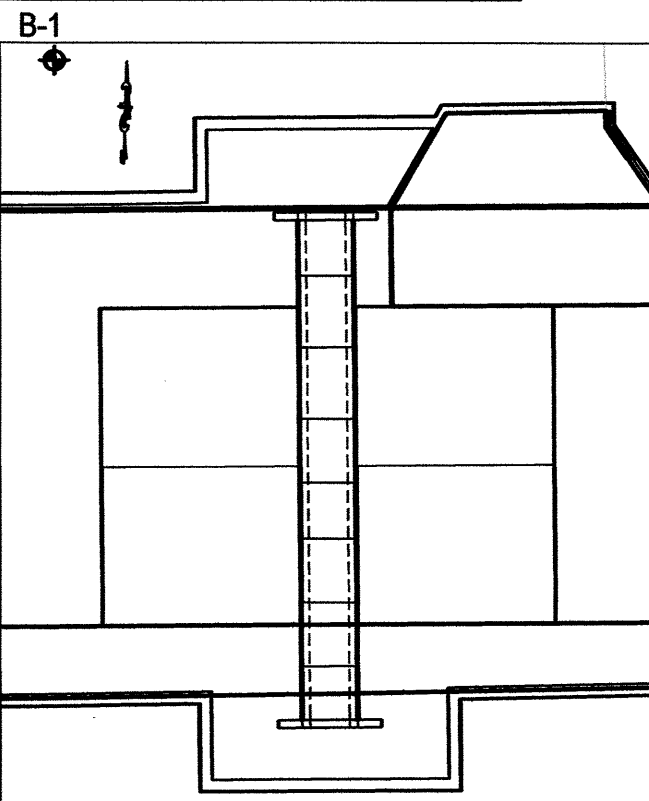
### BURMISTER SOIL CLASSIFICATION SYSTEM (CONTINUED)

#### DEFINITION OF COMPONENT PROPORTIONS

COMPONENT	WRITTEN FORM	PROPORTIONS	PERCENTAGE RANGE BY WEIGHT
PRINCIPAL	CAPITALS	N.A.	50 and more
Minor	Lower case	and some little trace	35 to 50 20 to 35 10 to 20 1 to 10

### NOTES:

- FOR GENERAL NOTES, SEE DRAWING NO. B-1.
- FOR EXISTING CULVERT PLAN, DEMOLITION PLAN AND SECTIONS, SEE DRAWING NO. B-2.
- FOR PROPOSED GENERAL CULVERT PLAN AND ELEVATIONS, SEE DRAWING NO. B-3.
- FOR CULVERT, WINGWALL, DECK AND APPROACH SLAB SECTIONS AND DETAILS, SEE DRAWING NO. B-4.
- FOR ADDITIONAL CULVERT PLAN, SECTIONS, MISCELLANEOUS DETAILS, AND REINFORCEMENT SCHEDULES, SEE DRAWINGS NOS. B-5 THROUGH B-7.
- FOR MISCELLANEOUS STRUCTURAL DETAILS, SEE DRAWING NO. B-8.
- FOR LOGS OF TEST BORINGS, SEE THIS DRAWING.
- THE BORING LOGS AND RELATED INFORMATION DEPICT SUBSURFACE CONDITIONS ONLY AT THE SPECIFIC LOCATIONS AND DATES INDICATED.



BRIDGE KEY PLAN  
N.T.S.

<p>CONSULTING AND MUNICIPAL ENGINEERS 3441 ROBERTSON AVENUE, PARLIN, NEW JERSEY 08859 1460 ROUTE 9 SOUTH, HOWELL, NEW JERSEY 07731</p>		<p>County of Union Division of Engineering 2325 South Avenue, Scotch Plains, N.J. 07076</p> <p>REPLACEMENT OF LOWER ROAD MINOR BRIDGE, Li-63</p> <p>City of Linden, Union County</p>																															
<p>Revisions</p> <table> <tr> <th>No.</th> <th>Date</th> <th>By</th> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>		No.	Date	By																												<p>LOGS OF TEST BORINGS</p>	
No.	Date	By																															
<p>Designed By: J.N. Checked By: J.N. N.T.S.</p>		<p>Drawn By: J.N. Approved By: J.N. N.T.S.</p>																															
<p>Scale: AS SHOWN Sheet No. 23 of 23 Drawing No. B-9 Date: August 2020</p>		<p>Ricardo Matias County Engineer N.J.P.E. No. 24GE0514000</p>																															

PUN00622.01

**APPENDIX A –**  
**ENVIRONMENTAL PERMITS**

**(Minor Modification request  
currently under NJDEP review)**





STATE OF NEW JERSEY  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF LAND USE REGULATION  
Mail Code 501-02A, P.O. Box 420, Trenton, New Jersey 08625-0420  
Telephone: (609) 777-0454 or Fax: (609) 777-3656  
www.nj.gov/dep/landuse



## PERMIT

<p>In accordance with the laws and regulations of the State of New Jersey, the Department of Environmental Protection hereby grants this permit to perform the activities described below. This permit is revocable with due cause and is subject to the terms, conditions, and limitations listed below and on the attached pages. For the purpose of this document, "permit" means "approval, certification, registration, authorization, waiver, etc." Violation of any term, condition, or limitation of this permit is a violation of the implementing rules and may subject the permittee to enforcement action.</p>		Approval Date <b>February 25, 2020</b>
		Expiration Date <b>February 24, 2025</b>
Permit Number(s): 2009-05-0006.10 LUP190001	Type of Approval(s): Flood Hazard Area General Permit #10	Enabling Statute(s): N.J.S.A. 13:1D-1 et seq. N.J.S.A. 13:1D-29 et seq. N.J.S.A. 58:10A-1 et seq. N.J.S.A. 58:16A-50 et seq.
Permittee: Union County c/o Thomas O. Mineo, PE, County Engineer 2325 South Ave. Scotch Plains, NJ 07076	Site Location: Block(s) & Lot(s): [580, 45] [581, 14] [ROW] Municipality: Linden City County: Union	
Description of Authorized Activities:  This document authorizes the replacement of a bridge spanning a drainage ditch crossing Lower Road with a 4'-6" x 5' concrete box culvert, adjacent to Block 580 of Lot 45 and Block 481 of Lot 14 within a right-of-way, in the City of Linden, Union County. This document also authorizes the reconstruction of two existing stormwater outfalls and associated stormwater pipes and inlets as referenced on the plans listed on the last page of this permit. The authorized activities allow for the permittee to undertake impacts to regulated areas as described below. Additional impacts to regulated areas without prior Department approval shall constitute a violation of the rules under which this document is issued and may subject the permittee and/or property owner to enforcement action, pursuant to N.J.A.C. 7:13-21.7; N.J.A.C. 7:7A-19.10		
Prepared by:  Michael Girard	Received and/or Recorded by County Clerk:	
If the permittee undertakes any regulated activity, project, or development authorized under this permit, such action shall constitute the permittee's acceptance of the permit in its entirety as well as the permittee's agreement to abide by the requirements of the permit and all conditions therein.		
This permit is not valid unless authorizing signature appears on the last page.		

**PRE-CONSTRUCTION CONDITIONS:**

1. Before any construction may begin, the permittee must submit to the Division written authorization for any work or access done on property not owned by the permittee.

**SPECIAL CONDITIONS:**

1. All excavated material and dredged material shall be disposed of in a lawful manner outside of any flood hazard area riparian zone, open water, freshwater wetland and adjacent transition area, and in such a way as to not interfere with the positive drainage of the receiving area.
2. Construction equipment shall not be stored, staged or driven within any channel, freshwater wetland or transition area, unless expressly approved by this permit and/or described on the approved plans.
3. All sediment barriers and other soil erosion control measures shall be installed prior to commencing any clearing, grading or construction onsite, and shall be maintained in proper working condition throughout the entire duration of the project.
4. The regulated activity shall not expose unset or raw cement to flowing water within any channel or regulated water during construction.
5. Construction may only be performed only under conditions where the stream area is dry or de-watered conditions. No work may be performed where the stream channel is wet.

**STANDARD CONDITIONS:**

1. The issuance of a permit shall in no way expose the State of New Jersey or the Department to liability for the sufficiency or correctness of the design of any construction or structure(s). Neither the State nor the Department shall, in any way, be liable for any loss of life or property that may occur by virtue of the activity or project conducted as authorized under a permit.
2. The issuance of a permit does not convey any property rights or any exclusive privilege.
3. The permittee shall obtain all applicable Federal, State, and local approvals prior to commencement of regulated activities authorized under a permit.
4. A permittee conducting an activity involving soil disturbance, the creation of drainage structures, or changes in natural contours shall obtain any required approvals from the Soil Conservation District or designee having jurisdiction over the site.
5. The permittee shall take all reasonable steps to prevent, minimize, or correct any adverse impact on the environment resulting from activities conducted pursuant to the permit, or from noncompliance with the permit.
6. The permittee shall immediately inform the Department of any unanticipated adverse effects on the environment not described in the application or in the conditions of the permit. The Department may, upon discovery of such unanticipated adverse effects, and upon the failure of the permittee to submit a report thereon, notify the permittee of its intent to suspend the permit.

7. The permittee shall immediately inform the Department by telephone at (877) 927-6337 (WARN DEP hotline) of any noncompliance that may endanger public health, safety, and welfare, or the environment. The permittee shall inform the Division of Land Use Regulation by telephone at (609) 777-0454 of any other noncompliance within two working days of the time the permittee becomes aware of the noncompliance, and in writing within five working days of the time the permittee becomes aware of the noncompliance. Such notice shall not, however, serve as a defense to enforcement action if the project is found to be in violation of this chapter. The written notice shall include:
  - i. A description of the noncompliance and its cause;
  - ii. The period of noncompliance, including exact dates and times;
  - iii. If the noncompliance has not been corrected, the anticipated length of time it is expected to continue; and
  - iv. The steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
8. Any noncompliance with a permit constitutes a violation of this chapter and is grounds for enforcement action, as well as, in the appropriate case, suspension and/or termination of the permit.
9. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the authorized activity in order to maintain compliance with the conditions of the permit.
10. The permittee shall employ appropriate measures to minimize noise where necessary during construction, as specified in N.J.S.A. 13:1G-1 et seq. and N.J.A.C. 7:29.
11. The issuance of a permit does not relinquish the State's tidelands ownership or claim to any portion of the subject property or adjacent properties.
12. The issuance of a permit does not relinquish public rights to access and use tidal waterways and their shores.
13. The permittee shall allow an authorized representative of the Department, upon the presentation of credentials, to:
  - i. Enter upon the permittee's premises where a regulated activity, project, or development is located or conducted, or where records must be kept under the conditions of the permit;
  - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit; and
  - iii. Inspect, at reasonable times, any facilities, equipment, practices, or operations regulated or required under the permit. Failure to allow reasonable access under this paragraph shall be considered a violation of this chapter and subject the permittee to enforcement action.
14. The permittee shall not cause or allow any unreasonable interference with the free flow of a regulated water by placing or dumping any materials, equipment, debris or structures within or adjacent to the channel while the regulated activity, project, or development is being undertaken. Upon completion of the regulated activity, project, or development, the permittee shall remove and

dispose of in a lawful manner all excess materials, debris, equipment, and silt fences and other temporary soil erosion and sediment control devices from all regulated areas.

15. The permittee and its contractors and subcontractors shall comply with all conditions, site plans, and supporting documents approved by the permit.
16. All conditions, site plans, and supporting documents approved by a permit shall remain in full force and effect, so long as the regulated activity, project, or development, or any portion thereof, is in existence, unless the permit is modified pursuant to the rules governing the herein approved permits.
17. The permittee shall perform any mitigation required under the permit in accordance with the rules governing the herein approved permits.
18. If any condition or permit is determined to be legally unenforceable, modifications and additional conditions may be imposed by the Department as necessary to protect public health, safety, and welfare, or the environment.
19. Any permit condition that does not establish a specific timeframe within which the condition must be satisfied (for example, prior to commencement of construction) shall be satisfied within six months of the effective date of the permit.
20. A copy of the permit and all approved site plans and supporting documents shall be maintained at the site at all times and made available to Department representatives or their designated agents immediately upon request.
21. The permittee shall provide monitoring results to the Department at the intervals specified in the permit.
22. A permit shall be transferred to another person only in accordance with the rules governing the herein approved permits.
23. A permit can be modified, suspended, or terminated by the Department for cause.
24. The submittal of a request to modify a permit by the permittee, or a notification of planned changes or anticipated noncompliance, does not stay any condition of a permit.
25. Where the permittee becomes aware that it failed to submit any relevant facts in an application or submitted incorrect information in an application or in any report to the Department, it shall promptly submit such facts or information.
26. The permittee shall submit written notification to the Bureau of Coastal and Land Use Compliance and Enforcement, 401 East State Street, 4th Floor, PO Box 420, Mail Code 401-04C, Trenton, NJ 08625, at least three working days prior to the commencement of regulated activities.
27. The permittee shall record the permit, including all conditions listed therein, with the Office of the County Clerk (the Registrar of Deeds and Mortgages, if applicable) of each county in which the site is located. The permit shall be recorded within 30 calendar days of receipt by the permittee, unless the permit authorizes activities within two or more counties, in which case the permit shall be recorded within 90 calendar days of receipt. Upon completion of all recording, a copy of the recorded permit shall be forwarded to the Division of Land Use Regulation at the address listed on page one of this permit.

**APPROVED PLAN(S):**

The drawing(s) hereby approved consist of Nine (9) sheets prepared by CME Associates, dated October 2019, unrevised, unless otherwise noted, and entitled:

“COUNTY OF UNION, DIVISION OF ENGINEERING, 2325 SOUTH AVENUE, SCOTCH PLAINS, N.J., 07076, REPLACEMENT OF LOWER ROAD MINOR BRIDGE, LI-63, CITY OF LINDEN, UNION COUNTY, NEW JERSEY”,

“SOIL EROSION & SEDIMENT CONTROL NOTES AND DETAILS”, sheet no. 3 of 13,  
“CONSTRUCTION AND SOIL EROSION AND SEDIMENT CONTROL PLAN”, sheet no. 4 of 13,  
“GRADING PLAN”, sheet no. 5 of 13,  
“PROFILE”, sheet no. 6 of 13,  
“CROSS SECTIONS AND CRITICAL CROSS SECTIONS”, sheet no. 7 of 13,  
“CONSTRUCTION DETAILS”, sheet no. 8 of 13,  
“PROPOSED GENERAL BRIDGE PLAN AND ELEVATIONS”, sheet no. 11 of 13,  
last revised January 28, 2020,  
“BRIDGE, WINGWALL AND APPROACH SLAB SECTIONS AND DETAILS”, sheet no. 12 of 13,  
“NJDEP PERMIT PLAN”, sheet no. 13 of 13, last revised January 13, 2020.

**APPEAL OF DECISION:**

Any person who is aggrieved by this decision may submit an adjudicatory hearing request within 30 calendar days after public notice of the decision is published in the DEP Bulletin (available at [www.nj.gov/dep/bulletin](http://www.nj.gov/dep/bulletin)). If a person submits the hearing request after this time, the Department shall deny the request. The hearing request must include a completed copy of the Administrative Hearing Request Checklist (available at [www.nj.gov/dep/landuse/forms.html](http://www.nj.gov/dep/landuse/forms.html)). A person requesting an adjudicatory hearing shall submit the original hearing request to: NJDEP Office of Legal Affairs, Attention: Adjudicatory Hearing Requests, Mail Code 401-04L, P.O. Box 402, 401 East State Street, 7th Floor, Trenton, NJ 08625-0402. Additionally, a copy of the hearing request shall be submitted to the Director of the Division of Land Use Regulation at the address listed on page one of this permit. In addition to your hearing request, you may file a request with the Office of Dispute Resolution to engage in alternative dispute resolution. Please see [www.nj.gov/dep/odr](http://www.nj.gov/dep/odr) for more information on this process.

If you need clarification on any section of this permit or conditions, please contact the Division of Land Use Regulation's Technical Support Call Center at (609) 777-0454.

Approved By:



Keith P. Stampfel, P.E., Section Chief  
Division of Land Use Regulation

c: Municipal Clerk, Linden City  
Municipal Construction Official, Linden City  
Agent (original) – Allyson Rooke

**APPENDIX B –**  
**SOIL EROSION AND SEDIMENT CONTROL**  
**APPROVAL**





County of Union  
Thomas Mineo  
2325 South Avenue  
Scotch Plains, NJ 07076

## SOMERSET - UNION SOIL CONSERVATION DISTRICT

Somerset County 4-H Center  
308 Milltown Road • Bridgewater, NJ 08807  
(908) 526-2701 Fax (908) 575-3977  
July 28, 2020

RECEIVED  
JUL 30 2020

CME

**RE: Bridge Replacement Lower Road LI-63**  
**(plan revised 7/8/2020)**  
**Block ROW, Lot ROW**  
**City of Linden**  
**Application #2020-4303**

Dear Sir or Madam:

The Somerset-Union Soil Conservation District has reviewed the above erosion control plan and certifies that the plan is in accordance with the N.J. Erosion and Sediment Control Act, Chapter 251, P.L. 1975.

This approval is limited to the soil erosion and sedimentation controls specified in this plan. It is not authorization to engage in the proposed land use unless such use has been previously approved by the municipality or other controlling agency.

All revisions and municipal renewals of this project will require resubmission and approval by the District. Any conveyance of the project (or portion thereof) will transfer full responsibility for compliance to subsequent owner(s). The District must be notified in writing of any change of ownership.

The District requires written notification prior to the start of land disturbance. Please be advised that failure to do so is considered a violation of State Law and a fine will be imposed.

If there are any questions, please feel free to call our office.

Very truly yours,

**SOMERSET-UNION S.C.D.**

Mark Kirby  
District Supervisor

MK/FC/JK J:\Access\MASTERS\CertLet-35-SU.doc

Enclosure

cc: City of Linden Const. Off.  
Mun. Planning Board  
Mun. Engineer  
CME Associates



## SOMERSET - UNION SOIL CONSERVATION DISTRICT

Somerset County 4-H Center  
308 Milltown Road • Bridgewater, NJ 08807  
(908) 526-2701 Fax (908) 575-3977

February 20, 2024

County of Union  
c/o Thomas Mineo  
2325 South Avenue  
Scotch Plains, NJ 07076

**RECEIVED**  
FEB 22 2024  
**CME Associates**

RE: Bridge Replacement Lower Road LI-63  
(Plan revised 11/20/23)  
Block ROW, Lot ROW  
City of Linden  
App# 2020-4303

To whom it may concern:

The Somerset-Union Soil Conservation District has reviewed the revised plan for the above referenced project and finds the plan remains certified in accordance with the N.J. Soil Erosion and Sediment Control Act, Chapter 251, 1975 as stated in the most recent SESC certification letter dated July 28, 2020.

This approval is limited to the soil erosion and sedimentation controls specified in this plan. It is not authorization to engage in the proposed land use unless such use has been previously approved by the municipality or other controlling agency.

If there are any questions, please feel free to call our office.

Very truly yours,  
**SOMERSET-UNION S.C.D.**

A handwritten signature in black ink, appearing to read "M. D'Alessandro".

Matthew D'Alessandro  
**District Manager**

MD/LB J:\Remains Certified\REMAINS CERTIFIED-SUSCD-40-MASTER-.doc

Enclosures

cc: Construction Official  
Municipal Planning Board  
Municipal Engineer  
CME Associates



**APPENDIX C –**  
**EXEMPTION LETTER**



# State of New Jersey

DEPARTMENT OF TRANSPORTATION

P.O. Box 600

Trenton, New Jersey 08625-0600

PHILIP D. MURPHY  
*Governor*

DIANE GUTIERREZ-SCACCETTI  
*Commissioner*

SHEILA Y. OLIVER  
*Lt. Governor*

January 27, 2021

Thomas Mineo  
Union County Engineer  
2325 South Avenue  
South Plains, New Jersey 07076

RE: Lower Road Culvert  
Linden City, Union County  
E.O. 215 Exemption Letter

Dear Mr. Mineo:

The proposed project involves the replacement of the existing culvert (Minor Bridge, Li-63) on Lower Road spanning Stream #10-3. The project has an anticipated construction cost of \$1,210,021.00, with approximately \$1,000,000.00 being funded through the State Aid Program. As such, the project requires review for compliance with the State's Executive Order #215 (EO215). We have reviewed the proposed bridge replacement project and determined that **the project meets the bridge replacement exemption** referenced in Section 7(a) of EO 215, which is further defined in the September 1992 Memorandum of Agreement (MOA) between the New Jersey Department of Transportation (NJDOT) and the New Jersey Department of Environmental Protection (NJDEP) regarding *EO215 Applicability to State Aid Projects as:*

*Section 2(3) – Bridge rehabilitation, reconstruction, or replacement on essentially the same alignment*

This determination is based on the review of project documentation provided to the NJDOT, and any subsequent discussions with the project sponsor. Issuance of this exemption does not relieve you of your responsibility to comply with the requirements of any other Federal, State, or local agency who may have jurisdiction over any aspect of the project. Questions regarding this assessment may be directed to Pamela Garrett at 609-963-2063 or Lauralee Rappleye 609-963-2069 of the Bureau of Environmental Program Resources.

Sincerely

A handwritten signature in blue ink, appearing to read "Elkins Q. Green".

Elkins Q. Green, Director  
Division of Environmental Resources

cc: Megan Brunatti – NJDEP, Environmental Review  
Ruth W. Foster – NJDEP, Environmental Review  
Ray Sullivan – Union County Engineering  
Nelson Hernandez – CME Associates  
Eileen Schack - Local Aid, District 2  
Girgis Baher – Local Aid, District 2  
Alain Noupin – Local Aid, District 2