Local Agency Basic Contract Administration 2016

Introduction:

This course will provide you with an understanding of the roles and responsibilities of construction technicians involved with inspecting highway construction projects. The course materials include an example of a contract, bid proposal, and Standard Specifications that illustrate contract requirements and inspection responsibilities associated with a typical construction project. The new Instructional Memorandum (IM) for Local Public Agencies (LPA's) 3.805, Construction Inspection and the appendices that accompany it (including Attachment D which was formerly Chapter 2 of the Construction Manual) are included as a separate book and will provide the directions for the course. The scope of this training focuses on general contract administration requirements. It does not include technical training on material test procedures or computer documentation.

This course has been developed to answer the following questions:

Where are the requirements of the contract described?

Who is responsible for ensuring compliance with the contract requirements?

What are the key functions of construction inspectors?

What should an inspector do if non-complying work is performed?

What information must be documented?

Where do I look to find the material requirements for items of work?

This **Basic Contract Administration** workbook is divided into four Sections: Roles and Responsibilities, Contract Documents, Record Keeping and Field Book Forms. I M 3.805, Construction Inspection, will be used in conjunction with this workbook to provide guidance on proper documentation procedures. Information on how to use the Materials IM's, especially Materials IM 204, Inspection of Construction Project Sampling & Testing, and a plan-reading course is offered separately through the on line training program.

Section 1: Roles and Responsibilities

This section describes the basic responsibilities of construction technicians and contractor personnel. Through examination of contractor and owner contractual obligations, the specific requirements of each party of the contract are highlighted.

Project Administrator

- Knowledge of plans and specifications
  - Read all notes
  - Review contract period
  - Determine accuracy of design quantities
    - ✓ Check plans for locations of work
    - ✓ Identify any field changes
  - Ensure proper units of measure
  - Get interpretation if you are unsure

- ❑ Testing

- ❑ Evaluate compliance with contract requirements

- ❑ Inform Contractor of work deficiencies immediately
  - Issue Non-Compliance notice
  - Discuss corrective actions required

- ❑ Measurement and Payment for items of work

- ❑ Documentation of day's activities

- ❑ Assess environmental impacts- BE PROACTIVE
  - Erosion Control Measures
  - Dust

- ❑ Promote SAFETY
  - Watch for traffic operational problems
  - Watch for safety violations
    - ✓ Report violations to Superintendent
    - ✓ Record information in daily diary
  - Stay off equipment

- ❑ Maintain positive Public Relations
  - Respect private property
    - ✓ Has all ROW been acquired
    - ✓ Check for temporary easements and requirements
  - Keep property owners/businesses informed of progress
  - Ensure contractor maintains reasonable access for public

- ❑ Be a Professional!!
  - Do not accept Gifts
  - Use common sense
  - Remain calm and composed
  - Be firm but fair
  - Offer suggestions-Do not direct contractors operations

Contractor

- ❑ Knowledge of plans and specifications
- ❑ Perform work in compliance with Contract
- ❑ Supervision of Subcontractors
- ❑ Comply with environmental and safety regulations
- ❑ Monitor and Document Traffic Control
- ❑ Provide material approval documentation
- ❑ Identify work not covered by the Contract

Section 2: Contract Documents

- Plans (To be covered in Plan Reading Course)
  - Typical Sections
  - Plan Notes
  - Estimate Reference Information
  - Road Standards
  - Tabulations

- Specifications
  - Standard Specifications
  - General Supplemental Specification
  - Special Provisions
  - Developmental Specifications
  - SUDAS
    - Iowa Statewide Urban Design & Specifications

- Proposal
  - Items
  - Contract Period
  - Addenda
  - Federal Aid Requirements

- Material IM's

Section 3: Record Keeping

Daily diaries must be legible and complete. Inspector's diaries are legal documents and may be used to resolve claims and disputes. Entries should be strictly factual and remain objective in nature. Do not include opinions. Your documentation may be used in a court of law. Documentation formats are standardized for pay quantities and plant reports. Each inspector must also keep a diary that includes a description of activities accomplished during each day. FieldBook2 is an automated record keeping system that is used by field staff to document construction progress. It is a PC "front-end" to the FieldManager component that interfaces with the mainframe contractor payment system. Training on the use of FieldBook2 will be offered separately later this spring. The principles of record keeping discussed in this training apply to all types of documentation, regardless of the media used to save the information.

- Preparing a Daily Report
  - Who-Contractor, Subcontractors, Utilities,
  - What-Items of work, Weather, Problems encountered
  - Where- Exact Location by station and offset
  - When-Time of major event
  - How-Specialized Equipment, Methods used,
  - Sketches and Computations-Dimensions are critical, neatness counts
  - Visitors-Name, Purpose of visit, conversations
  - Changes-Authorization for changes to plans, Substitutions allowed
  - Signature

- Pay Quantities
  - Pay item formats
  - Method of Measurement & Basis of Payments
  - Plan Quantities
  - Computed (show calculations)
  - Prompt Payment is required by the Contract!
    - ✓ Materials approvals must be provided before payment for work is allowed
    - ✓ Payments may be withheld for non-complying work. Project Engineer.

ROLES

&

RESPONSIBILITIES

Roles & Responsibilities

Instructional Memorandum to Local Public Agencies 3.805, Construction Inspection, Attachment D provides descriptions of the responsibilities of all parties involved with the administration of Federal Aid projects. Please consult with that document for more detailed instructions of roles and responsibilities for individual tasks associated with the administration of Local Agency Federal Aid projects.

Responsibilities of the Project Engineer

1105.01 AUTHORITY OF ENGINEER.

A. The Engineer will decide all questions which may arise as to the quality and acceptability of materials furnished and work performed and as to the rate of progress of the work, all disputed and mutual rights between contractor, all contract documents, and all questions as to the acceptable fulfillment of the contract on the part of the Contractor. Except as provided in Article 1109.12, the Engineer's decisions will be final.

1105.06 AUTHORITY AND DUTIES OF INSPECTOR

The Contracting Authority may appoint inspectors to represent the Engineer in the inspection of materials used in and work done under the contract. Such inspection may extend to any part of the work and to preparation or manufacture of materials to be used. The inspector will not be permitted to modify in any way the provisions of the contract documents or to delay the work by failing to inspect materials and work with reasonable promptness. An inspector is placed on the work to keep the Engineer informed as to its progress and the manner in which it is being performed. Results of inspection tests and examinations will be available to the Contractor on an informational basis. Absence or presence of representative test data does not alter the Contractor's responsibility for compliance with the contract documents in accordance with Article 1104.01. The inspector will not act as supervisor or perform other duties for the Contractor, nor improperly interfere with management of the work. The inspector will not be authorized to approve or accept any portion of the work. In case of dispute between the Contractor and inspector as to quality of materials or manner of performing the work, the inspector has authority to reject materials or suspend the work until the question at issue can be decided by the Engineer. Written notice of suspension of work will be given to the Engineer and Contractor by the inspector.

1105.07 INSPECTION OF WORK

A. The Contractor shall furnish the Engineer with every reasonable facility for ascertaining whether the work is being performed in conformance with the contract documents. At any time before acceptance of the work, upon request of the Engineer, the Contractor shall remove or uncover such portions of finished work as the Engineer may direct. After examination has been made, the Contractor shall restore such portions of the work to the standard required by the contract documents.

B. If work thus exposed or examined proves acceptable, the uncovering or removing and replacing of covering, or the restoring of parts removed, will be paid for as extra work, except that no payment will be made for work involved in checking smoothness of pavement surfaces. If work thus exposed and examined proves unacceptable, the Contractor shall replace the defective work in accordance with the specifications. If work thus exposed and examined proves either unacceptable or deficient, the Contractor will be paid only for work as finally accepted.

C. Work done without the Engineer having been afforded ample opportunity to provide suitable inspection, or unauthorized work, may be ordered removed and replaced at the Contractor's expense, or may be excluded from the quantities measured for payment.

1101.03 DEFINITION OF TERMS

Reasonably Acceptable
Reasonably acceptable means acceptance with price adjustment of material or finished work that is incorporated and is not within reasonably close conformity with the contract documents, but at the discretion of the Engineer, it is determined that acceptable work has been produced. This is material or work for which a determination has been made to be accepted and remain in place.

Reasonably Close Conformity
Reasonably close conformity means compliance with reasonable and customary manufacturing and construction tolerances where working tolerances are not specified. Where working tolerances are specified, reasonably close conformity means compliance with such working tolerances. Without detracting from the complete and absolute discretion of the Engineer to insist upon such working tolerances as establishing reasonably close conformity, the Engineer may accept variations beyond such tolerances as reasonably close conformity where they will not materially affect the value or utility of the work and the interests of the State.

Unacceptable Work (Also Defective Work)
Work not in reasonably close conformance with the contract requirements and ordered to be removed and replaced.

Unauthorized Work
Work neither contemplated by the contract documents nor authorized by the Engineer, and work done contrary to the instructions of the Engineer.

See IM 3.805, Attachment D, Section 2.02 RESPONSIBILITY OF PROJECT ENGINEER

See IM 3.805, Attachment D, Section 2.03 DELEGATION OF RESPONSIBILITY

3.01 INSPECTION PERSONNEL

Inspection is one of the most important processes in any highway project. Even though much care is used in preparing contract documents, the quality of the finished product generally reflects the quality of the inspection performed.

An inspector must be honest and fair, exercising responsibilities with firmness and good nature. Inspectors must work cooperatively with fellow employees, supervisors, and contractors. The inspector must avoid supervising the contractor's work operations or performing any other activity that could be construed as a responsibility of the contractor; otherwise, the contracting authority's position could be jeopardized in the event of a dispute or claim.

Responsibilities

The inspector, as a member of the construction team, must perform assigned duties in a manner that will promote the progress of the project. The inspector should be familiar with the construction schedule and know how the work to be inspected fits into that overall schedule. Completion of the work within the contract time is important to both the contracting authority and the contractor.

Inspectors are accountable to the project engineer for satisfactory performance of their duties. In performing assigned duties, an inspector has the following responsibilities:

- **Plan Familiarity**
  An inspector should become thoroughly familiar with project plans, specifications, special provisions, and standard road plans that apply to the work being inspected. The inspector must be capable of recognizing if the work being inspected conforms with the contract requirements.
- **Work Done Without Inspection**
  Specifications 1105.07 and 1105.08 discuss appropriate situations where work is done without inspection. Good inspection practices include developing a working arrangement with the contractor that allows for being at the right place at the right time for prompt and adequate inspection.
- **Contract Compliance**
  Inspectors must assure themselves that all materials furnished and work performed by the contractor are in compliance with contract requirements. Contractor's operations must be observed and appropriate tests and measurements must be performed to determine the progress and the quality of work. All reasonable facilities for such inspection must be furnished by the contractor. Documentation of inspected work and computations should be complete.
- **Unacceptable Work**
  Unacceptable work should be recognized early and reported to the contractor before it develops into expensive and time consuming corrections. Notification should be confirmed in writing if necessary. For example, if the contractor is using wrong sizes or types of materials, the contractor should be informed of this at the first opportunity.
- **Testing**
  Materials quality tests should be performed expeditiously and carefully. Test samples should be carefully handled and protected. Test failures should be promptly reported. The inspector should notify the contractor of failures or when materials are rejected before being incorporated into the work.
- **Daily Diary**
  The inspector's daily diary should include a record of the day's happenings, contractor activity on the project, instructions given the contractor, and extra work order agreements made. Daily diaries can assume legal importance.

  If a project diary is lost, stolen, or otherwise misplaced, a new diary should be started immediately. The first entry in the replacement diary should document the conditions relative to the loss of the original diary and then continue with the usual diary entries for the remainder of the project.

Authority

The inspector has the authority to reject materials or suspend work if the quality of either is in dispute with the contractor. Settlement of a dispute is decided by the project engineer.

An inspector's authority does not extend to modification of any of the provisions of the contract documents, acceptance of the work, acting as a supervisor for the contractor, or improper interference in the contractor's project management.

1109.05 PARTIAL PAYMENT

A. Progress Payments.

1. For work extending over a period of more than one month, the Contractor will receive monthly progress estimate payments based on the amount of work completed. For Primary and Secondary projects in which the Contracting Authority is the Department or a county Board of Supervisors, these progress payments will be bi-weekly if requested by the Contractor. For late payment, the Contracting Authority will pay a penalty of 1.0% per month (or part of a month), or a minimum of $250, whichever is the greater amount, on any work completed but not processed for payment within 14 calendar days after completion of the work. Completion of the work includes physical completion of the work and submittal of all paperwork required by the contract.

2. On contracts for which the contract sum is $10,000 or more, payments may be allowed based on value of processed or fabricated materials or rolled steel products which have been delivered on the work or 90% of the value of processed or fabricated material, or rolled steel products, reserved for the project and stored elsewhere ~~within Iowa or in other locations where there is routine inspection by Departmental personnel~~, provided the materials ~~are of acceptable quality~~ conform to the requirements of the contract and the manner of storage is satisfactory to the Engineer. Contractor is responsible for damages and material losses until the material is incorporated into the work and the work is accepted.

3. Should a reasonable doubt arise as to the integrity of any part of the completed work, the payment for that portion will not be allowed until the cause for such doubt has been removed. The Engineer's estimates of work completed will result in partial payments on the contract sum, and the allowance of a progress payment by the Contracting Authority does not constitute final acceptance of the work upon which the payments are based.

4. The Contractor shall sign the final voucher certifying the quantities are just and unpaid.

B. Prompt Payment to Subcontractors

1. The Contractor shall promptly pay each subcontractor. Any delay or postponement of payment among the parties may take place only for good cause, with written notification to the subcontractor. A payment, excluding retainage, to a subcontractor for satisfactory performance of the subcontractor's work shall be made by the Contractor no later than one of the following, as applicable:
   - **a.** 7 calendar days after the Contractor receives payment for the subcontractor's work.
   - **b.** 7 calendar days after the Contractor could have received payment for the subcontractor's work, if the reason for nonpayment is not the subcontractor's fault.

2. The Contractor may withhold up to 5% of each progress estimate on work performed by subcontractors.

3. Retained funds due a subcontractor shall be payable by the Contractor within 30 calendar days after satisfactory completion of the work by the subcontractor. Subcontractor's work is satisfactorily completed when all requirements called for in the subcontract have been accomplished and required documentation provided by subcontractor. Non-bonded subcontractors may be required to submit proof of payment for all material bills and wages to the Contractor before the Contractor is required to pay the retainage.

4. The use of joint checks for payment to subcontractors for their materials is acceptable under the following conditions:
   - **a.** The request for a joint check from the prime contractor is made by the materials supplier.
   - **b.** The joint check issued by the prime contractor is for an amount not to exceed the cost of unpaid invoice(s) from the materials supplier to a subcontractor on that contract.
   - **c.** The joint check is given to the subcontractor and the subcontractor must release the joint check to the materials supplier.
   - **d.** The use of a joint check by the prime contractor is applicable to all their subcontractors.

C. Retainage.

1. Three percent of each progress estimate will be deducted and held as retainage on the first $1,000,000 paid on a contract. Additional retainage will be withheld to a maximum of $30,000 following retainage release if subsequent work is performed. This retainage is held exclusively for claims filed in accordance with Iowa Code 573 and shall not be considered as an encumbrance on work performed by a subcontractor.

2. The retained funds held by the Contracting Authority for the contract will not be due and payable prior to 30 calendar days after the date of final acceptance of the entire contract or following the release of adjudication of claims that may have been filed, or until the Contractor has filed the signed final voucher with the Contracting Authority.

D. Complaints

1. Compliance with prompt payment is the responsibility of both the Contracting Authority and Contractor.

2. If the Contractor feels the Contracting Authority has not complied with the prompt payment provisions, the initial attempt to resolve the issue shall be with the Project Engineer, stating the project number, items of work, quantities, unit prices, dates work was performed, total amount owed, and signature of a representative of the Contractor.

3. If a subcontractor feels the Contractor has not complied with the prompt payment provisions, the initial attempt to resolve the issue shall occur with the Contractor. The attempt to resolve the issue shall include at least one written request to the Contractor, stating the project number, items of work, quantities, unit prices, dates work was performed, total amount owed, and signature of a representative of the subcontractor.

4. If the initial attempt to resolve the issue does not result in satisfactory payment for completed work, the Contractor or subcontractor shall submit a written complaint to the OES-Civil Rights on Form 650197. The written complaint shall include copies of the correspondence with the Project Engineer or Contractor that provides the details stated above. The Department will investigate and provide written response to the complainant within 15 business days of receipt of the complaint.

E. Required Records

The Contractor shall maintain a system for tracking the status of subcontractor work and payments. The Contractor shall retain records that document the date of field completion, date of satisfactory completion of the work and the date of final payment (including funds retained in accordance with Article 1109.05. B. 2) to each subcontractor. Copies of the records to verify compliance with Article 1109.05, B shall be provided to the Contracting Authority, if requested.

Prior to receiving final payment, the Contractor shall provide to the Engineer the "Certification of Subcontractor Payments" (Form 518002). This form shall include the names of each approved subcontractor, the date of field completion, the date of satisfactory completion of the work, the date of final payment, the number of days between satisfactory completion and final payment, and the date of payment by the Contracting Authority. Explanations for any final payments made after the 30 calendar day period following field completion shall be included with Form 518002.

Failure to comply with Article 1109.05. B may result in price adjustment credits, or suspension of bidding qualification in accord with Article 1102.03. A. 2.

The Iowa Department of Transportation has Electronic Posting of Contractor Payments made by the Department available on the web at the following address:

http://www.iowadot.gov/civilrights/documents.html

Once at this site, click on “Contracts Payments Search” under the heading “Contractor resources”.

Next click on your method of search choice: “Awarded Contractor”, “County Name”, “Payment Posted”, or “Project Number”. Then type in the particular selection identification that you are searching for; i.e. if you selected “County Name”, type in the name of the county in which the project is located.

Finally, select the contract number for the project you are interested in.

You should see a .pdf version of the most recent Payment Voucher that was issued for that project.

If you have difficulties accessing this information or have any questions, please contact Margaret (Peg) Muxfeldt in the Office of Employee Services at 515-239-1422, or e-mail your question to **margaret.muxfeldt@dot.iowa.gov**

Responsibilities of the Contractor

1103.08 DISCLOSURE OF SUBCONTRACTOR.

A. A bidder awarded a contract with the Department shall disclose the names of all subcontractors who will work on the project or projects, or who the bidder anticipates will work on the project or projects. If a subcontractor named by a bidder awarded a contract is replaced, or if the cost of work to be done by a subcontractor is reduced, the bidder shall disclose the name of the new subcontractor or the amount of the reduced cost. If a subcontractor is added by a bidder awarded a contract, the bidder shall disclose the name of the new subcontractor.

1104.01 INTENT OF PLANS AND SPECIFICATIONS.

A. The intent of the plans and specifications is to provide for the construction and completion of every detail of the work described therein. It shall be understood by the Contractor that the Contractor shall furnish all labor, material, tools, transportation, and supplies required for all or any part of the work to make each item complete in accordance with the spirit of the contract. It is understood that the apparent silence of the specifications as to any detail or the apparent omission of a detailed description concerning any point shall be regarded as meaning that only the best general practice is to prevail and that only first quality materials and first quality work are to be used.

1105.05 SUPERVISION BY CONTRACTOR

The Contractor or a competent Superintendent must be on the project when construction activities are taking place. This representative must be capable of reading and thoroughly understanding the contract documents and experienced in the type of work being performed. The Superintendent shall supervise, direct, and control the Contractor's operations, personnel, work, and the subcontractor's operations. The Superintendent shall have full authority to execute orders or directions of the Engineer without delay and to promptly supply such materials, equipment, tools, labor, and incidentals as may be required. The Contractor shall give the Engineer written notification of the name of the Superintendent. A copy of the official plans and specifications shall be available on the project site at all times.

1107.01 LAWS TO BE OBSERVED

A. The Contractor is presumed to be familiar with all laws, ordinances, and regulations that may in any manner affect those engaged or employed upon the work, or materials or equipment used in or upon the work, or that may in any way affect the conduct of the work. The Contractor shall so conduct the work that conflict with any such laws, ordinances, or regulations will be avoided, and the Contractor shall save harmless the Contracting Authority and its representatives against any claims arising from violation thereof.

1107.02 INSURANCE

A. It shall be the Contractor's responsibility to have liability insurance covering all of the construction operations incident to contract completion and the Contractor must have on file with the Contracting Authority a current "Certificate of Insurance" prior to award of contract. The certificate shall identify the insurance company firm name and address, Contractor firm name, policy period, type of policy, limits of coverage, and scope of work covered (single contract or statewide). This requirement shall apply with equal force, whether the work is performed by persons employed directly by the Contractor including a subcontractor, persons employed by a subcontractor, or by an independent contractor.

B. In addition to the above, the Contracting Authority shall be included as an insured party, or a separate owner's protective policy shall be filed showing the Contracting Authority as an insured party.

1107.07 SAFETY, HEALTH, POLLUTION, AND SANITATION

A. In the performance of the contract, the Contractor shall comply with all applicable laws, rules, regulations, and ordinances governing safety, health, pollution, sanitation, noise control, and disposal of waste materials. The Contractor shall also make available such additional safeguards, safety devices, protective equipment, and take such actions as are reasonably necessary to protect the life and health of employees and the public. Violations of properly promulgated laws, rules, regulations, and ordinances reported to the Engineer by responsible agencies may result in the issuance of a suspension order until such time as the violation is corrected.

B. The Contractor shall make adequate provisions satisfactory to the Engineer for safety of inspectors, particularly at sampling locations. Provisions shall include guards for moving belts, pulleys, and wheels near the sampling point and a stable platform when sampling is to be done from an elevated location.

C. There shall be suitable retention dams in areas where approved liquid asphalt materials or asphalt binder are stored and used, to minimize pollution of nearby areas from effects of normal rains. The Contractor shall take other necessary precautions to prevent pollution of streams, lakes, ponds, reservoirs, and other areas with fuels, oil, bitumens, chemicals, or other harmful materials and to prevent pollution of the atmosphere from particulate and gaseous matter.

D. Machinery must be properly maintained at all times in order to limit engine noise as well as other extraneous noise.

E. When directed by the Engineer, and with no additional compensation, the Contractor shall apply water to the construction area and haul routes, as necessary, to prevent the spread of dust. On Primary Roads and Primary Road extensions, on temporary Primary Road haul roads, and when designated in the contract documents construction areas adjacent to Primary Roads on which traffic is maintained, the Contractor will be paid for watering ordered by the Engineer at the rate of $~~15~~ 60 per thousand gallons ($~~4~~ 16 per kL).

1107.08 PUBLIC CONVENIENCE AND SAFETY

A. The schedule for removal of existing guardrail, warning devices, and other traffic control devices requires Engineer's approval. The Contractor may be required to place temporary warning devices at locations where replacement features are not installed the same day as removal takes place.

B. The Contractor shall conduct the work to assure the least possible obstruction to access by the residents along the project. The Contractor shall schedule and conduct the work in such a way as to provide for their safety and convenience. The Contractor shall submit a construction staging plan to the Engineer for local access required to remain open. Relocated accesses shall be completed prior to removal of existing accesses. If a permanent access cannot be completed prior to removal of an existing access, the Contractor shall provide and maintain an alternate access. Work and materials required by the Engineer for public convenience and safety in excess of that provided for in the contract documents will be paid for per Article 1109.03. B.

C. Whenever it is practical to do so, the Contracting Authority will close the portion of the road under construction, provide a detour, and cause suitable detour signs to be erected to mark such detour.

D. When it is not practical for the Contracting Authority to close the road for construction, the Contractor will be expected to perform the work under traffic. The contract documents will indicate this fact and provide instruction for handling traffic through the work. Unless otherwise stated in the contract documents, all work shall be performed by the Contractor between the hours of 30 minutes after sunrise to 30 minutes before sunset.

E. Except when the contract documents indicate the road is to be closed, during all pavement widening, base widening, and HMA resurfacing work, traffic will be permitted to use the routes involved at all times and shall not be delayed unnecessarily. Where a pavement or base is being widened, the machine depositing material shall operate within the designated work area. Construction equipment may be stored within the right-of-way, as far from the traveled way as is practical, but the roadbed shall be free of Contractor's equipment during non-working hours. The work shall be planned and conducted to cause a minimum delay or interference with traffic.

F. When work on a traveled way necessitates diverting traffic from a work lane to another lane, material, mobile equipment, and vehicles shall occupy the work lane to the minimum extent and for the minimum time necessary, and non-mobile equipment shall be removed from the work lane promptly after its operation is completed in that lane.

G. On two-lane roadways, a work area shall be established only on one side of the roadway and there shall be no parking of vehicles or equipment on the opposite shoulder within 500 feet (150 m) of the work area.

H. The location for storage of equipment by the Contractor during nonworking hours shall be as reviewed and approved by the Engineer prior to use.

I. Parking of private vehicles on Interstate right-of-way will not be allowed. Parking of unattended equipment within the median or storage of equipment within 50 feet (15 m) of the edge of pavement will not be allowed.

J. Materials stored within the highway right-of-way shall be placed to cause a minimum obstruction to traffic. Sidewalks, gutters, sewer inlets, and portions of highway adjoining the roadway under construction shall not be obstructed more than is necessary.

K. When the shoulder work is a part of the contract for work on a project open to public traffic during construction, the Contractor shall coordinate the operations so that the length and degree of pavement edge drop-off caused or partly caused by the operations are minimized.

L. Shoulder construction in conjunction with PCC overlay or HMA resurfacing shall meet the following:

1. **Paved Shoulder (Partial or Full Width).**
   Construction shall be staged so no drop-offs exist at the pavement or shoulder edge when the adjacent lane is to be opened to traffic. The pavement edge drop-off requirement shall be satisfied with an HMA shoulder fillet. This fillet shall extend into the shoulder area a minimum of six times the thickness of the drop-off and shall be placed prior to the adjacent lane being opened to traffic. Compaction of the HMA fillet shall be a minimum of one coverage with pneumatic tired roller per 1 inch (25 mm) of thickness. The fillet shall be removed prior to start of shoulder paving. The shoulder edge drop-off requirement shall be satisfied with a granular fillet, meeting the requirements of the following paragraph.

2. **Granular Shoulders.**
   Construction shall be staged so no drop-offs exist at the pavement edge when the adjacent lane is to be opened to traffic. The drop-off requirements shall be satisfied with a shoulder fillet or full shoulder width of granular material according to Article 2121.03. The fillet shall extend into the shoulder area a minimum of six times the thickness of the drop-off and shall be placed prior to the adjacent lane being opened to traffic. Compaction of the fillet shall be a minimum of one coverage with a pneumatic tired roller per 1 inch (25 mm) of thickness.

M. Paved shoulder construction adjacent to existing travel lanes shall meet the following:

1. **HMA Shoulder.**
   - Drop-offs greater than 2 inches (50 mm) will not be allowed when the adjacent lane is open to traffic,
   - Place the final lift of HMA shoulder material within 48 hours of the previous lift.

2. **PCC Shoulder.**
   Do not open adjacent lane until PCC shoulder is cured enough to support traffic control devices.

N. When the Contractor works on a bridge spanning a roadway or passageway, the Contractor shall take all necessary steps to protect the public using the facility below the bridge from falling debris, material, or construction equipment. The Contractor shall submit a safety procedure written plan to the Engineer prior to starting work. The plan shall include the following:

- Design of the means and methods used to provide protection.
- All assumptions used in the design.

Evaluation of the plan and design may require its preparation by a Professional Engineer licensed in the State of Iowa. If so, the costs will be paid for in accordance with Article 1109.03, B.

1107.09 BARRICADES AND WARNING SIGNS

A. Barricades, warning signs, and other aspects of traffic control shall be in accordance with the contract documents. In providing adequate and proper traffic control, both the Contracting Authority and the Contractor have certain responsibilities.

1. Responsibilities of the Contracting Authority.

a. Advance Notification.

Whether a road is closed for construction or traffic is to be maintained during construction, the Contracting Authority will furnish, erect, and maintain such suitable advance warning signs, warning lights, and barricades as it deems appropriate outside the project area, in addition to those barricades and signs required to be erected by the Contractor. If necessary, where a road is closed for construction, a marked detour will be established.

b. Primary Road Intersections.

The Department will furnish, erect, and maintain such suitable advance warning signs, warning lights, and barricades as it deems appropriate where a Primary Road intersects a Primary project to provide a marked detour for through traffic using the intersecting Primary route or to provide advance notification to through traffic using the intersecting Primary Road and passing through the intersection. A marked detour may allow public traffic to use the intersection.

c. Secondary Projects.

Where a Secondary Road project requires work within a Primary Road right-of-way or extension of the right-of-way across the Secondary Road, the Primary Road shall be protected as a Primary project through which traffic is maintained. The Department will furnish, erect, and maintain such suitable advance warning signs, warning lights, and barricades as it deems appropriate. The County will notify the Department so this protection can be provided for Secondary projects.

d. Availability.

Except when there is an item for traffic control, all signs and traffic control devices (except pilot car signs and flagger signs) will be made available to the Contractor at a nearby site designated by the Engineer. They will be furnished by the Contracting Authority. Replacement materials will also be furnished as necessary.

e. Additional Notification.

Any additional signs, barricades, or notification beyond the project area deemed appropriate by the Engineer will be the responsibility of the Contracting Authority.

f. Regulatory and Warning Signs.

The Contracting Authority will erect prior to construction any additional special regulatory or warning signs required due to construction that are located outside of the project limits. This does not apply to warning and regulatory signs specifically required for traffic control zones necessary for construction activities defined in the contract documents.

g. Suspensions.

By agreement, the Contracting Authority will accept responsibility for maintenance of signs and barricades when work is suspended for 30 calendar days or more, or when such time of suspension is anticipated.

2. Responsibilities of the Contractor.

a. General.

1) The Contractor shall be responsible for placing and maintaining proper barricades, warning signs, and other traffic control devices on the project, and the Contractor shall take every reasonable precaution to prevent traffic from interfering with the work and to prevent the work from interfering with the traffic; and shall take every reasonable precaution to provide for safety of the general public traveling to, through, within, along, and across the project. Where the road is closed for construction, the Contractor shall take every reasonable precaution to protect the work and equipment and to provide for safety of the public. When traffic is to be maintained through the construction, the Contractor shall erect and maintain all signs; furnish, erect, and maintain all other traffic control devices and other safeguards; provide all flaggers necessary to protect the traveling public. Payment for this work will be in accordance with Article 2528.05.

2) The Contractor shall furnish, erect, and maintain ROAD WORK AHEAD and END ROAD WORK signs at the mainline limits of individual work areas on highway construction or contract maintenance projects where traffic is maintained through a traffic control zone. The ROAD WORK AHEAD sign shall be placed to identify where traffic enters a traffic control zone. The END ROAD WORK sign shall be placed to identify where traffic leaves a traffic control zone and be located at least 500 feet (150 m) beyond the work area. Should more than one contractor be working on the project, the Engineer will assign the responsibility for these signs.

b. Intersecting Local Public Roads.

1) When a road closed for construction intersects other local public roads within a project, the Contractor shall erect and maintain barricades and warning signs in accordance with the contract documents. Payment for this work will be in accordance with Article 2528.05.

2) The responsibility described in the previous paragraph is intended to be in addition to actions of the Department described in Paragraph A, 1, b.

c. Entrance from Local Public Roads.

On local public roads open to traffic during construction, the Contractor shall erect and maintain signs in accordance with the contract documents. When scarification is part of the contract, ROUGH ROAD signs shall also be erected on the shoulder of the road under construction at local public road intersections. These signs shall be erected, moved when appropriate, and maintained by the Contractor until the scarified areas are covered with the new surface material. Payment for this work will be in accordance with Article 2528.05.

d. Shoulder Drop-Offs.

Drop-offs at paved and granular shoulders shall be treated as provided in Article 1107.08. All other drop-offs shall be handled in accordance with project plan requirements.

e. Sign Removal.

1) The Contractor shall not remove, move, or obstruct any regulatory, guide, or warning sign without approval of the Engineer. If these signs interfere with construction, approval of the Engineer shall be obtained prior to removal; temporary re-erection, if appropriate; and re-erection by the Contractor.

2) The Contractor shall be responsible for erecting, moving, maintenance, and removal of all signs necessary to protect the work area and uncompleted work and signs required elsewhere by the contract documents.

3) If the Contractor inadvertently damages a regulatory, guide, or warning sign, or makes it ineffective, the Contractor shall correct it and promptly notify the Engineer.

f. Availability of Signs.

The Contractor shall pick up signs and barricades furnished by the Contracting Authority at the site designated and shall return them when the work is completed.

g. Traffic Control Item.

When there is a contract item for traffic control, the Contractor shall furnish all signs, barricades, channelizing devices, and other traffic control identified in the contract documents.

h. Commencement of Responsibility.

The Contractor shall assume the responsibility required by this article because of the operations concurrent with possession of the work site or right-of-way through moving of equipment, machinery, tools, or materials thereon and in all cases when the work is commenced.

i. Cleaning.

The reflective surfaces of signs and traffic control devices shall be washed, as described in Article 2528.03, L, and shall be clean at the time of initial installation on a project.

k. Traffic Control in Place.

At any time signs, barricades, or other traffic control devices are in place, for which the Contractor is responsible, the Contractor provide the Engineer the following information at the preconstruction conference or before work commences:

1) The name and telephone number of a 24 hour emergency response person for traffic control (answering services are not acceptable); so that repair or maintenance of these devices can occur promptly, within 2 hours and
2) The name and telephone number of the traffic control technician in responsible charge of the traffic control for the project per Article 2528.01, C.

B. The contract documents may require placement, maintenance, and removal of temporary and permanent pavement marking and temporary delineators. This work shall be in accordance with requirements of Section 2527.

C. An additional flagger shall be stationed at public road intersections or crossings within the work area, if necessary, to prevent vehicles from entering the work area against the flow of traffic. When traffic control is incidental, additional flaggers will not be paid for separately.

D. The Engineer may require additional flaggers or other safeguards because of unusual or changed conditions, including suspensions and delays. Except when the need arises from the Contractor's actions or inactions, this will be paid for in accordance with Article 1109.03.

1107.11 PROTECTION AND RESTORATION OF PROPERTY

A. The Contractor shall replace or renew fences, sidewalks, or other property damaged by performance of the work or the negligence of the Contractor's employees.

B. The Contractor shall take suitable precautions to prevent damage to telephone, telegraph, and electric transmission lines along the highway and to pipes, conduits, and other underground structures.

C. Unnecessary breaks in tile lines due to the Contractor's operations shall be replaced at no additional cost to the Contracting Authority.

D. The Contractor shall be responsible for damage to property resulting from the performance of the work; however, this responsibility shall not extend to damage to fences, telephone, telegraph, or electric lines occupying the right-of-way unlawfully, provided due caution has been used in removing them.

E. The Contractor shall carefully protect from disturbance all land monuments and property marks until an authorized agent has witnessed or otherwise referenced their location, and the Contractor shall not remove them until so directed.

F. The Contractor's responsibility shall not be released until the work under the Contractor's contract is completed and accepted.

1107.15 CONTRACTOR'S RESPONSIBILITY FOR UTILITY FACILITY AND SERVICES

A. The Contracting Authority will endeavor to have all necessary adjustments made to public or private utilities within or adjacent to the limits of construction prior to construction activities, except those requiring coordination with the Contractor. Utility facilities have been plotted from available surveys and records, and shall be considered approximate. Other utilities may exist and their location may not be presently known or identified on the plans. The Contractor shall notify Iowa One-Call at 1.800.292.8989 to identify the location of all underground utility facilities within the construction area.

B. The Contractor shall determine the exact location of all public and private utility facilities located within the construction area to avoid damage in accordance with Section 480.4, Code of Iowa. The Contractor shall have considered in their bid all permanent and temporary utility appurtenances in their present or adjusted positions as shown in the contract documents. For projects not developed under 761 IAC, Chapter 115.25 and not designated as POINT 25 projects in the contract documents, additional compensation will not be allowed for any delays, inconvenience, or damage sustained by the Contractor due to any interference from the utility appurtenances or their operation or relocation.

C. Where existing utility facilities are shown in the contract documents or encountered within the construction area, the Contractor shall notify the utility company prior to beginning construction activities. The Contractor shall be responsible for notifying utilities and conducting work near utility facilities, required by Iowa Code 480.4.

D. Any system for supplying water, gas, power, or communications; a storm sewer, sanitary sewer, drainage tile, or other system for transmitting liquids; a pipeline system; traffic signalization system; and lighting systems within the limits of the proposed construction, which are to be adjusted, are to be moved by the utility company at their expense, except as otherwise provided for in the contract documents.

E. The Contractor shall cooperate with utility companies in their adjustment operations so that these operations may progress, the duplication of adjustment work may be reduced, and that services rendered by those parties will not be interrupted.

F. Where the Contractor's operations are adjacent to properties of railway, communication, or power companies, or are adjacent to other utility facilities where damage might result in considerable expense, loss, or inconvenience, work shall not begin until all arrangements necessary for protection of the facilities have been made.

G. In the event of interruption to utility services as a result of accidental breakage or as a result of being exposed or unsupported, the Contractor shall promptly notify the proper authority and shall cooperate with the authority in restoration of service. If a utility service is interrupted, repair work shall be continuous until service is restored.

1107.17 NO WAIVER OF LEGAL RIGHTS

A. The Contracting Authority shall not be prevented by any measurement, estimate, or certificate made either before or after the completion and acceptance of the work and payment therefore from showing the true amount and character of the work performed and materials furnished by the Contractor, or from showing that any such measurement, estimate, or certificate is untrue or incorrectly made, or that the work or materials do not, in fact, conform to the contract.

B. The Contracting Authority shall not be prevented, notwithstanding any such measurement, estimate, or certificate and payment in accordance therewith, from recovering from the Contractor and the Contractor’s sureties such damages as it may sustain by reason of the Contractor’s failure to comply with the terms of the contract. Neither acceptance by the Contracting Authority, or any representative of the Contracting Authority, nor any payment for or acceptance of the whole or any part of the work, nor any extension of time, nor any possession taken by the Contracting Authority, shall operate as a waiver of any portion of the contract, or for any power herein reserved, or any right to damages herein provided. A waiver of any breach of contract shall not be held to be a waiver of any other or subsequent breach.

1108.01 SUBLETTING OF CONTRACT

A. The Contractor's own organization shall perform work amounting to not less than 30% of the total contract cost unless otherwise specified in the contract documents. The percent total contract subcontracted will be computed on Contract Unit Prices for the work performed by the subcontractor, unless the subcontractor is only doing partial work on the contract item. In order to meet this 30% requirement, the Contractor shall not purchase any materials for a subcontracted item nor shall they place other contractor's employees on their payroll. Employees must be hired in accordance with the AA hiring process as detailed elsewhere in the contract documents. Any item designated as a specialty item may be performed by subcontract, and the cost of any such specialty item as performed by subcontract may be deducted from the total cost before computing the amount of work required by the Contractor's organization. Any items that have been selected as specialty items for the contract are listed as such in the contract documents.

B. Except for the furnishing and transportation of materials, no portion of a contract let through the Department shall be sublet, assigned, or otherwise disposed of except with written authorization of the Department. Where a subcontract has been authorized, the subcontractor shall be responsible to complete that portion of the contract with its own organization. On contracts involving federal aid, the agreement between the Contractor and subcontractor shall be in writing, and Form FHWA-1273 shall be physically attached to each such agreement.

C. Work performed by a DBE firm not otherwise required to be authorized as a subcontractor shall be described and documented on the Subcontract Request form (Form 830231). This will assure the Engineer that a Contractor is meeting commitments previously stated on the Statement of DBE Commitments form (Form 102115). This dollar value will not be used to determine the percent subcontracted as specified previously. Where Davis/Bacon wage requirements apply, the Contractor shall be responsible for collecting and submitting certified payrolls for all drivers. Owner/operators shall be listed on the certified payrolls as owner/operators.

D. Request for permission to subcontract, assign, or otherwise dispose of any portion of any contract shall be documented on a Subcontract Request form (Form 830231). This form shall be prepared using the software furnished by the Department~~.~~ and submitted electronically to the Office of Contracts at the time the signed contract is returned to the Contracting Authority. On contracts where the Department is not the Contracting Authority, also provide a copy to the Engineer. In certain situations, with approval of the Department, the Contractor may request an extension of up to 30 calendar days to submit the Subcontract Request form.

E. Either the Contractor or approved subcontractors can use leased employees from a firm that does not perform highway construction with its own organization. Work performed by a DBE firm using leased employees will not count towards meeting the Department’s annual DBE goal.

When used, leased employees will be considered part of the Contractor's "own organization" if:

- The use of the employee leasing company is documented with the submittal of a Request to Subcontract.
- The Contractor maintains supervisory control over day-to-day activities of leased employees.
- The Contractor remains responsible for the quality of work of leased employees.
- The leasing company is responsible for customary employer responsibilities including EEO/AA in hiring, training, promotions, and submittal of required employee information to the Department and other governmental agencies.
- The Contractor retains power to accept or exclude individual employees from work on the project.
- The employee leasing company prepares and submits required certified payrolls. The Contractor remains ultimately responsible for payment of predetermined minimum wages and submission of payrolls.
- The Contractor retains responsibility for compliance with contract requirements.

1109.10 DISPUTED CLAIMS FOR EXTRA COMPENSATION.

A. In any case where the Contractor deems that extra compensation is due for work or material not clearly covered in the contract and not ordered by the Engineer as extra work as defined herein, the Contractor shall notify the Engineer in writing to make claim for this extra compensation before work begins on which the claim is based.

B. The Contracting Authority will be responsible for damages attributable to the performance, nonperformance, or delay, of any other contractor, governmental agency, utility, firm, corporation, or individual authorized to do work on the project, only when these damages result from negligence on the part of the Contracting Authority, its Engineer, or any of its officers or employees. In any case where the Contractor deems that extra compensation is due from the Contracting Authority as damages resulting from these performances, non-performances, or delays, the Contractor shall notify the Engineer in writing at the time the delay occurs.

C. In all cases, if this notification is not given, or if after the notification is given, the Engineer is not afforded facilities for keeping strict account of actual costs as defined for force account construction, the Contractor thereby agrees to waive the claim for extra compensation for this work. This notice by the Contractor, and the fact that the Engineer has kept account of the cost as aforesaid, shall not be construed as establishing the validity of the claim. The claim, when filed, shall be in writing and in sufficient detail to permit auditing and an intelligent evaluation by the Engineer. The claim shall be supported by such documentary evidence as the claimant has available and shall be verified by affidavit of the claimant or other persons having knowledge of the facts. If the claimant wishes an opportunity to present the claim in person, then the claim shall be accompanied by a written request to do so. Where the claimant asks an opportunity to present the claim in person, the Engineer, within 30 calendar days of the filing of the claim, will fix a time and place for a meeting between the claimant and the Engineer. The Engineer will, within a reasonable time from the filing of the claim or the meeting above referred to, whichever is later, rule upon the validity of the claim and notify the claimant, in writing, of the ruling together with the reasons

therefore. In case the claim is found to be just, in whole or in part, it will be allowed and paid to the extent so found.

D. The Contractor shall not institute any court action against the Contracting Authority for the adjudication of any claims until the claim has been first presented to the Engineer, pursuant to this article, and either submitted to arbitration or a request for arbitration is denied pursuant to Article 1109.12.

2528.01 TRAFFIC QUALITY CONTROL

C. Traffic Quality Control.

1. Maintain a Traffic Control Technician on staff, even though the traffic control portion of the contract may be subcontracted. The Traffic Control Technician is required to have attended and passed the exam in an ATSSA Traffic Control Technician, IMSA Work Zone Traffic Control, or Minnesota DOT Traffic Control Supervisor training class. This Traffic Control Technician is responsible for overall management of the Contractor's quality control program for traffic control.

2. On a daily basis as the project is constructed, perform the following quality control work associated with monitoring and documenting traffic control conditions:

a. Review all traffic control operations for compliance with contract documents and maintain a project traffic control daily diary in a format provided by the Contracting Authority. Submit this diary to the Engineer. It will become a part of the Contracting Authority's permanent project records. The Engineer may require submission of completed portions of the daily diary at routine intervals during construction of the project. In the diary include:

- Listing and station location of traffic control used each day referenced to the appropriate Standard Road Plan, project plan sheet, etc.,
- All reviews of traffic control devices and operations, whether satisfactory or unsatisfactory, and corrections made,
- Approved changes to the contract document’s traffic control,
- Incidentals affecting the efficiency and safety of traffic, and
- A daily list of trained flaggers used, including hours worked.

b. Monitor traffic operations and submit proposed Traffic Control Plan changes to the Engineer for approval.

c. Coordinate all changes to the Traffic Control Plan.

d. Coordinate all traffic control operations, including those of subcontractors and suppliers.

2528.03 SIGNS AND DEVICES.

K. Flaggers.

1. Prior to flagging operations, ensure the flaggers are trained in safe flagging operations that comply with Iowa DOT Flagger's Handbook, Part 6 of the MUTCD, and the Standard Specifications. Ensure training of flaggers includes the following:
   a. Issuing and reviewing the current Iowa DOT Flagger's Handbook,
   b. Presentation of the current Iowa Professional Flagging Video,
   c. Issuing flagger training cards including the information below. Ensure the flaggers carry their flagger training card at all times and show it upon request.
      1) Employee name,
      2) Date of training,
      3) Name of Instructor, and
      4) Expiration date of December 31 of the year following the training date.

2. Maintain a list of the flaggers trained and the date of the training.

3. Training is not required for short time, emergency, or relief assignment of employees to flagging operations. Payment will not be made in accordance with Article 2528.05, I.

4. Ensure flagger operations, equipment, and apparel comply with the current Iowa DOT Flagger's Handbook.

5. When nighttime flagging is required, provide auxiliary lighting to illuminate the flagging stations according to the current Iowa DOT Flagger's Handbook. Set up this lighting in such a manner to minimize glare to motorists. The cost of furnishing nighttime flagging stations is included in the lump sum price bid for Traffic Control.

L. Limitations.

1. Use sandbags to anchor all traffic control devices subject to movement by wind.

2. When a two way road is open to public traffic during contract work, do not control one way traffic through the work area by means of a carry through flag or other token, except during equipment failure or emergency. Use other means when voice or signal communication between flaggers at control points is difficult or not effective because of distance, sight, or noise. Other means may be two way radio, pilot cars, or traffic signals.

3. Use pilot cars when the normal work area exceeds 1/4 mile (0.4 km) on Primary projects. Where necessary for short durations, the distance may be extended to 1/2 mile (0.8 km) for better sight distance or to clear intersections or other safety considerations with approval of the Engineer, provided a two way radio is used for communication between flaggers.

4. During non-working hours, remove, cover, or turn down traffic control devices intended for working hours only, unless a drop-off or physical obstruction remains within 15 feet (4.5 m) of a lane open to traffic. Signs or barricades are not required for work beyond 15 feet (4.5 m) of a lane open to traffic. When traffic control devices are no longer needed, remove them.

5. Personnel in the highway right-of-way shall wear orange or strong yellow green ANSI 107 Class 2 apparel when exposed to traffic or construction equipment. Orange or strong yellow green ANSI 107 Class E pants or shin reflectors/gaiters are also required to be worn at night. Shin reflectors/gaiters shall have a minimum of two 2 inch bands of retroreflective material spaced at least 6 inches apart. Background material shall extend at least 2 inches above and below retroreflective bands and continue through the length of shin reflector/gaiter. Shin reflector/gaiter shall completely encircle the leg and be worn on lower leg between knee and ankle.

6. The Engineer may require traffic control devices to be recleaned by washing. Use a brush and water, and detergent or solvent as necessary. Include the entire target area or sign face, supplemental or auxiliary signs, if any, all reflectors, and faces of warning lights which are part of that device.

7. Ensure entry to and exit from work areas is in the direction of public traffic and does not cross open traffic lanes at other than designated locations.

8. During hours of darkness, operate equipment in the traffic control zone facing in the direction of traffic flow unless specified otherwise in the Traffic Control Plan. Darkness will include the period from sunset to sunrise and other times when conditions such as fog, snow, sleet or rain provide insufficient lighting to clearly identify persons and vehicles on the highway at a distance of 500 feet (150 m) ahead.

9. Unless stated otherwise in the traffic control plan, provide for a minimum of 2 miles (3 km) between traffic control zones on rural roadways. The Engineer will determine minimum distances between traffic control zones on urban roadways.

10. Submit Traffic Control Plan modifications to the Engineer for review and approval prior to any changes being made. The Engineer may modify sign spacing to meet existing field conditions or to prevent obstruction of the motorist's view of permanent signing.

11. Ensure vehicles (except ready mix trucks) hauling soil, aggregate, and paving material to or from work area display a minimum 16 inch by 48 inch (400 mm by 1200 mm) sign with the legend "DO NOT FOLLOW - INTO WORK AREA" as shown in the contract documents. Comply with the following requirements for the sign:
    - Orange with black lettering using Type VII (Iowa) sheeting.
    - Keep clean to maintain its visibility.

12. For lanes closed to traffic, place two drums meeting the requirements of Article 2528.03, C, every 1000 feet (300 m). For full depth excavations in a closed lane, place two drums in front of each location. Additional drums need not be placed for full depth excavations spaced closer than 150 feet (45 m).

13. When milled or scarified surfaces exist, sign approaches to scarified areas using ROUGH ROAD (W8-8) signs. Place signs at least 250 feet (75 m) in advance of milled or scarified areas. Repeat signs for traffic that may enter within the scarified area from intersecting public roads. At locations where milled or scarified areas end at project limits, bridges, or end of day's work; place BUMP (W8-1) signs within 50 feet (15 m) in advance of each location. Erect, move, and maintain these signs until milled or scarified areas have been covered with new HMA or PCC pavement.

Section 2602. Water Pollution Control (Soil Erosion)

2602.01 DESCRIPTION.

A. Temporary control measures for projects to control water pollution caused by soil erosion. Additional measures are described in Section 2601.

B. Projects that are regulated by the requirements of Iowa DNR National Pollutant Discharge Elimination System (NPDES), General Permit No. 2, for Storm Water Discharge Associated with Industrial Activity for Construction Activities, will be identified in the contract documents. The Prime Contractor for these projects will be required to complete, sign, and return, along with the signed contract, a certification statement for storm water discharge associated with industrial activity for construction activities. Affected Subcontractors for the project will be required to sign and return an affidavit identifying them as co-permittees with the Contracting Authority prior to starting work.

C. Coordinate temporary water pollution control work with permanent erosion control work to ensure economical, effective, and continuous erosion control throughout the construction and post construction period.

D. Water Pollution Control Quality Control.

1. For projects regulated by a NPDES storm water permit, maintain an individual that will be onsite daily during construction activities. This individual shall have completed Iowa DOT Erosion & Sediment Control Basics (ESC Basics) web-based training, which will be valid for 2 years. This individual shall be responsible for coordinating all erosion and sediment control operations. For this daily requirement, the Contractor may subcontract this responsibility.

2. Additional responsibilities of an ESC Basics trained individual that shall not be subcontracted include:

- Attend required storm water inspections with the Contracting Authority.
- Prepare required initial Erosion Control Implementation Plan (ECIP) submittal and ECIP updates.
- Attend construction progress meetings to discuss erosion and sediment control issues.

3. For projects regulated by a NPDES storm water permit, maintain an Erosion Control Technician (ECT) on staff, even though the erosion and sediment control portion of the contract may be subcontracted. This individual shall be responsible for overall management of Contractor's quality control program for erosion and sediment control. The ECT is required to obtain certification through the Technical Training and Certification Program (TTCP) of the Department

2602.03 CONSTRUCTION.

A. Prior to the preconstruction conference furnish the Engineer an initial Erosion Control Implementation Plan (ECIP) for accomplishment of temporary and permanent erosion control.

In the ECIP, include stages for erosion control work to address Contractor's timetable and sequence for major activities or stages on the contract, including:
• Initial controls required prior to land disturbing activities,
• Number of earthwork balances for the contract,
• Sensitive areas requiring special consideration,
• Anticipated suspension of work,
• Compliance with Pollution Prevention Plan (PPP),
• Method of erosion control on haul roads and borrow pits, and
• Removal of excess materials from project.

B. Obtain the Engineer's acceptance for the ECIP and methods before commencing work. Schedule and perform all operations so erosion control features are placed according to accepted ECIP. Update ECIP as needed to address changes in schedule of operations or staging, weather changes, or other changes required in order to comply with applicable permit requirements.

C. Provide immediate, permanent or temporary, water pollution control measures to prevent contamination of adjacent watercourses and property. This work may involve:

- Constructing or installing silt fence, silt fence for ditch checks, silt ditches, silt dikes, silt basins, and slope drains,
- Constructing or installing perimeter and slope sediment control devices (straw wattles, wood excelsior logs, or filter socks filled with compost filter material), and
- Using temporary mulches, mats, seeding, or other control devices or methods, as necessary to control erosion and sediment pollution.

D. Unless otherwise specified, use compost as a filter medium in filter socks, filter berms, or filter blankets for sediment control.

E. Stabilize disturbed areas, in which construction activity will not occur for a period of 21 calendar days, no later than the 14th calendar day after no construction activity has occurred. Stabilization measures include temporary seeding, permanent seeding, mulching, sod, or other methods the Engineer approves.

F. Incorporate all erosion control features into the project at the earliest practical time, as outlined in the accepted schedule. Construct water pollution control measures:

- At locations shown in the contract documents and as determined by the Contractor,
- At locations where conditions develop during construction that were unforeseen during design, or
- Where needed to control water pollution that develops during normal construction practices.

G. Maintain water pollution control features in appropriate functional condition from initial construction through completion of the project. Restore siltation control features to their original condition where siltation has reduced their capacity by 50% or more.

H. Maintenance of Silt Fence and Silt Fence for Ditch Check includes excavation and disposal of silt material trapped by the silt fence or silt fence for ditch checks. Shaping of the ditch bottom to the original ditch template is incidental to this item. Dispose of the silt material off the project unless Engineer approves a suitable site within the project limits. Maintenance also includes repair of silt fence due to undermining, leaning, or fabric becoming unattached from posts. Repair requiring new fabric will be paid for under type of silt fence properly installed and will not be considered maintenance.

I. Limit clearing and grubbing, excavation, borrow, and embankment operations in progress to an area commensurate with their capability. Progress in keeping the finish grading, mulching, seeding, and other pollution control measures current according to the accepted work schedule. The Engineer may suspend operations if the Contractor fails to provide adequate erosion control measures in a timely manner.

J. In the event of conflict between these requirements and water pollution control laws, rules, or regulations of other Federal, State, or local agencies, the more restrictive laws, rules, or regulations will apply.

K. The Contractor is responsible for water pollution control for work outside the right-of-way or easement obtained by the Contracting Authority.

L. Mobilizations, Erosion Control.

1. Mobilizations, Erosion Control, applies to projects not identified as erosion control or landscaping and ~~containing at least one of the following items:~~ contain a Storm Water Pollution Prevention Plan (SWPPP).

- ~~Stabilizing crop seeding and fertilizing: 1 acre or more,~~
- ~~Stabilizing crop seeding and fertilizing (urban): 1 acre or more,~~
- ~~Silt fence: 250 feet or more, or~~
- ~~Silt fence for ditch checks: 250 feet or more.~~

2. Only one mobilization will be paid for each stage of work described in the ECIP. Within the scope of work defined for each single mobilization described in the ECIP, additional movement due to weather delays or at the option of the Contractor will not be counted as a mobilization.

3. Separate mobilizations needed for different crews performing work such as silt fence, seeding, or ditch checks will be counted, however, multiple mobilizations will not be paid for a single crew performing different items of erosion control work.

4. Payment for mobilization applies to contract items from Sections 2601 and 2602, excluding watering, mowing, debris pickup, monitoring well, or removal items.

5. Additional mobilizations not outlined in the ECIP must be approved by the Engineer.

6. Payment for mobilization to correct items not properly installed will not be approved. Payment for mobilization will also not be approved if labor, equipment, and materials to perform erosion control are used for other non-erosion control work onsite.

7. Mobilize with sufficient labor, equipment, and materials to perform erosion control included in ECIP or as ordered or approved by Engineer. Failure to mobilize when erosion control work is needed to comply with the ECIP or PPP, will result in the Engineer, by written order, direct mobilization within 72 hours of a written order.

8. Failure to mobilize within such time period, will result in a deduction of $750.00 per calendar day from payment due under the contract, except when Engineer extends such time period.

9. Mobilizations, Erosion Control, will not include work provided under the item of Mobilizations, Emergency Erosion Control.

M. Mobilizations, Emergency Erosion Control.
An emergency will be considered to be a sudden occurrence of a serious and urgent nature which is beyond normal maintenance of erosion control items. Emergency work requires immediate mobilization and movement of necessary labor, equipment, and materials to the emergency site, followed by immediate installation of temporary erosion control measures.

1. Mobilize with sufficient labor, equipment, and materials on job site within eight hours of Engineer's written order to install temporary erosion control items on an emergency basis. Engineer's written order will include a description of required work. Only one mobilization will be paid for work described in the written order.

2. Failure to mobilize within eight hours of written order, will result in a deduction of $1500.00 per calendar day from payment due under the contract, except when Engineer extends such time period.

2602.04 METHOD OF MEASUREMENT.
Measurement for water pollution control items will be as follows:

K. Mobilizations, Erosion Control.
By count for each mobilization in the accepted ECIP and acceptably performed, as well as additional mobilizations ordered or approved by Engineer and acceptably performed.

L. Mobilizations, Emergency Erosion Control.
By count for each mobilization directed in writing by Engineer and acceptably performed.

2602.05 BASIS OF PAYMENT.

B. Payment for Mobilizations, Erosion Control, and Mobilizations, Emergency Erosion Control, will be at unit prices stipulated in the proposal. If bid items are not included in the proposal then mobilizations for erosion control will paid at unit prices stipulated below. Mobilization for Erosion Control costs are not included as part of the contract item for "Mobilization" described in Section 2533.

1. **Mobilizations, Erosion Control.**
   The quantity will be paid for at the unit price of $500.00 each for Mobilizations, Erosion Control, which is full compensation for staged movement of labor, equipment, and materials; and labor, tools, equipment, and incidentals necessary to complete the movement.
2. **Mobilizations, Emergency Erosion Control.**
   The quantity will be paid for at the unit price of $1000.00 each for Mobilizations, Emergency Erosion Control, which is full compensation for movement of labor, equipment and materials; and for labor, tools, equipment, and incidentals necessary to complete the movement.

Erosion Control Implementation Plan (ECIP) Worksheet

Project No.: _____

County: _____

Type of Work: _____

Prime Contractor: _____

Contact Person: _____

Phone: _____

Erosion Control Technician (ECT) and Certification Number:

_____

_____

ESC Basics Trained Individual(s) and Company:

_____

_____

_____

_____

Contact of the subcontractor responsible for installation & maintenance of erosion/sediment controls:

Name: _____

Company: _____

Address: _____

Phone: _____

Description of intended schedule and sequence of major land disturbing and erosion/sediment control activities (include number of mobilizations if required by specification):

Include staging and maintenance, method for winter shutdown and removal of temporary measures (if required for the project). Describe any additional measures that are needed due to late season work.

Describe measures necessary to control erosion based on your schedule or sequence of operations. Explain how you plan to implement erosion control plan in stages. Indicate measures that must be in place before grading begins.

Based on your staging, are there areas where additional erosion control beyond that shown in the plans is anticipated? If so, provide information.

Other:

Describe dewatering methods and locations. What controls will be used at the outlet?

Provide information regarding location and protection of stockpiles.

Updates:

Update ECIP to address changes in the order of operations or staging, weather changes, or any other changes required to comply with permit requirements.

Update ECIP to address changes in the number of mobilizations.

ECIP UPDATE CHECKLIST

	Install	Maintain	Remove	Location(s) and Schedule
Silt Fence	☐	☐	☐	
Silt Fence Ditch Check	☐	☐	☐	
Perimeter & Slope Sediment Control Device	☐	☐	☐	
Rock	☐	☐	☐	
Silt Basin	☐	☐	☐	
Stabilizing Seeding & Mulching	☐	☐	☐	
Permanent Seeding & Mulching	☐	☐	☐	
Other: _____	☐	☐	☐	
Other: _____	☐	☐	☐	

FHWA-1273

REQUIRED CONTRACT PROVISIONS
FEDERAL-AID CONSTRUCTION CONTRACTS

I. General
II. Nondiscrimination
III. Nonsegregated Facilities
IV. Davis-Bacon and Related Act Provisions
V. Contract Work Hours and Safety Standards Act Provisions
VI. Subletting or Assigning the Contract
VII. Safety: Accident Prevention
VIII. False Statements Concerning Highway Projects
IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
X. Compliance with Governmentwide Suspension and Debarment Requirements
XI. Certification Regarding Use of Contract Funds for Lobbying

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of $10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding $10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under

this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: 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, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are

applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurance Required by 49 CFR 26.13(b):

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on Form FHWA-1391. The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor

will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of $10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding $2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 “Contract provisions and related matters” with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH–1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b.(1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

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

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

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

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or

will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and basic records

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b.(1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g. , the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH–347 is available for this purpose from the Wage and Hour Division Web site at http://www.dol.gov/esa/whd/forms/wh347instr.htm or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..

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

(i) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

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

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH–347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and trainees

a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

6. Subcontracts. The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility.

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

The following clauses apply to any Federal-aid construction contract in an amount in excess of $100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which 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 (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 (1.) of this section, in the sum of $10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

3. Withholding for unpaid wages and liquidated damages. The FHWA or the contacting agency 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 (2.) of this section.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (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 (1.) through (4.) of this section.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term “perform work with its own organization” refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

(1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;
(2) the prime contractor remains responsible for the quality of the work of the leased employees;
(3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and
(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.
2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost $25,000 or more – as defined in 2 CFR Parts 180 and 1200.

1**. Instructions for Certification – First Tier Participants:**

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. “First Tier Covered Transactions” refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). “Lower Tier Covered Transactions” refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). “First Tier Participant” refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). “Lower Tier Participant” refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the $25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (https://www.epls.gov/), which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

* * * * *

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency;

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

2. **Instructions for Certification - Lower Tier Participants:**

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost $25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. “First Tier Covered Transactions” refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). “Lower Tier Covered Transactions” refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). “First Tier Participant” refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). “Lower Tier Participant” refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the $25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (https://www.epls.gov/), which is compiled by the General Services Administration.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the

department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

* * * * *

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed $100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. 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 Federal 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.

b. 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 Federal 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.

2. 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. 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.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed $100,000 and that all such recipients shall certify and disclose accordingly.

ATTACHMENT A - EMPLOYMENT AND MATERIALS PREFERENCE FOR APPALACHIAN DEVELOPMENT HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS ROAD CONTRACTS

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

CONTRACT DOCUMENTS

Contract Documents

1104.01 INTENT OF PLANS AND SPECIFICATIONS.

A. The intent of the plans and specifications is to provide for the construction and completion of every detail of the work described therein. …

1105.04 CONFORMITY WITH AND COORDINATION OF THE CONTRACT DOCUMENTS

A. In case of a discrepancy between contents of the contract documents, the following items listed by descending order shall prevail:

1. Addendum
2. Proposal Form
3. Special Provision
4. Plans
5. Standard Bridge Plans, Standard Culvert Plans, and Standard Road Plans.
6. Developmental Specifications
7. Supplemental Specifications
8. General Supplemental Specifications
9. Standard Specifications
10. Materials I.M.
11. Notice to Bidders

B. Electronic support files, if available, will be provided prior to letting and are for information only. Should there be a discrepancy between an electronic support file and a contract document, the contract document shall govern.

C. Should there be a discrepancy between figures and drawings on any of the contract documents, the figures shall govern unless they are obviously incorrect.

D. The Contractor shall not take advantage of any apparent error, omission, or discrepancy in the contract documents. The Engineer will be permitted to make such correction in interpretation as may be deemed necessary for the fulfillment of the intent of the contract documents subject to compensation as provided in Articles 1109.03, 1109.04 and 1109.16. Written notice of changes in the contract documents will be given to the Contractor by the Engineer.

E. All work performed and all materials furnished shall be in reasonably close conformity with the lines, grades, cross sections, dimensions, and material requirements, including tolerances, shown in the contract documents.

F. If the Engineer finds the material or the finished product in which the material is used is not within reasonably close conformity with the contract documents but that reasonably acceptable work has been produced, the Engineer will then make a determination if the work shall be accepted and remain in place. In this event, the Engineer will document the basis of acceptance by contract modification which will provide for an appropriate adjustment in the contract price for such work or materials as is necessary to conform to the determination based on engineering judgment.

A. If the Engineer finds the material or the finished product in which the material is used or the work performed is not in reasonably close conformity with the contract documents and has resulted in an inferior or unsatisfactory product, the work or material shall be considered unacceptable work and shall be removed and replaced or otherwise corrected by and at the expense of the Contractor.

To be an effective inspector it is essential that the inspector be thoroughly familiar with the Contract, Special Provisions, Specifications, Plans, Supplemental Specifications and Materials I.M's (Instructional Memorandums), that apply to the project they are working on. In addition, the inspector needs to be able to crosscheck the documents to make sure that there are no discrepancies between them.

Project Documents

Estimating Proposal.
The Estimating proposal contains a cover sheet where you will notice that the proposal ID No. on this project is 06-C006-060. This is the number that is used by the Contracting Authority and the Finance Department to identify the specific project.

To understand this Proposal ID number, it needs to be broken down.

77 Is the 2-digit County Number (Polk)
3827 The four digit number indicates that this is a city project, and the numbers 3827 show that this is the City of Johnston.
611 Is the paren number representing a chronological sequence of the assignment of federal aid projects for this county.

This page also gives the type of work on the project, whether the project is in English or Metric units, project Number and a general location description of the project.

You will notice at the bottom of the page that it says the "Predetermined Wages Are in Effect" what this means is that Prevailing federal wages are to be paid to the contractors personnel working on this project as part of the project requirements. The Contractor(s) are also required to submit weekly payrolls to the Project Engineer's office administrating the project.
On Federal-aid projects with predetermined goals, all bidders will be required to submit a "Statement of DBE Commitment" with their bid. This form identifies DBE subcontractors, suppliers, transporters, and /or manufacturers that will be used to satisfy the DBE commitment.

*DBE (Disadvantaged Business Enterprise)

These are small businesses owned and controlled by one or more socially and economically disadvantaged persons.

Definitions: A socially disadvantaged person is one who is a U. S. citizen or legal resident, has been subject to discrimination in education or business, has documented such discrimination and is:
1. Black American
2. Hispanic American
3. Native American
4. Asian-Pacific American
5. Subcontinent-Asian American
6. Woman
7. Others determined to be disadvantaged

An economically disadvantaged person is one who is a member of one of the above protected groups and who has a personal net worth of less than $750,000.00 excluding the value of one personal residence and the value of the ownership in the applicant firm. An eligible firm is an existing small business (in business over 1 year) at least 51% owned and controlled by one or more socially and economically disadvantaged persons.

The proposal will specify if the proposed contract has an established DBE goal or has no established DBE goal. The established DBE goal will be shown on the proposal as a percent of

the total amount bid. The proposal may also designate the items that are over utilized by DBE firms and can not be used for DBE commitments.

Page 2 (See Page 50) The Proposal Detail sheet gives the "Late Start Date of 05/24/04" which is defined in Article 1108.02 C. 3. A. of the current Standard Specification Book.

> "Unless otherwise noted in the proposal form, the Contractor may commence work any time after receipt of the signed contract, weather and specifications permitting. Except as noted in Article 1108.02, F, working days will begin to be charged whenever the Contractor starts work. Charging of working days will begin on the Late Start Date if the Contractor has not started work prior to this date."

This sheet shows 100 working days, the number of working days in which the Contractor has to complete the project. This sheet also shows $600.00 Liquidated Damages, the dollar amount of Liquidated Damages for each working day charged beyond the specified working days the Contractor took to complete the project.

Contract Period

Working Day

1101.03 DEFINITION OF TERMS.

Working Day
Any calendar day, exclusive of Saturdays, Sundays, or a recognized legal holidays, on which weather or other conditions (not under control of the Contractor) will permit construction operations to proceed for not less that ¾ of a normal work day in the performance of a controlling item of work.

Working days are charged on the contract as work progresses. The contract has a specific number of days allowed in which to complete the work.

See IM 3.805, Attachment D, Section 2.31 ADMINISTRATION OF THE CONTRACT PERIOD, Contract Types page 2-41

1108.02 PROSECUTION OF WORK

C. Working Day Contracts.
The three types of start dates are as follows:

1. Specified Start Date.
Except as noted in Article 1108.02, E, 2, f, ~~W~~working days will be charged to the Contractor starting on the Specified Start Date~~, but not prior to 15 calendar days after the contract has been signed by the Contracting Authority~~. Starting work prior to the Specified Start Date will be considered upon request, and working days will be charged when work starts.

When a contract includes a specified start date, the contractor can expect the site to be available by the start date specified. The guidelines for charging working days are covered in the applicable specifications. Starting work after the specified start date, except as noted in the specifications, is unacceptable. Therefore, a contractor is expected to have a sufficient work force available to start work no later than the specified date.

2. **Approximate Start Date.**
   It is expected the site will be available by the Approximate Start Date. If it appears the site will not be available by the Approximate Start Date, the Engineer will inform the Contractor of the delay and if possible the duration of the delay. The Contractor may commence work, weather and specifications permitting, any time after execution of the contract and on or after the Approximate Start Date provided the site has become available. If work is started under these conditions, working days will be charged. Starting work before the Approximate Start Date and before the site is available, will be considered only after the Contractor has submitted a signed waiver of any right to claim extra compensation for damages due to delays from any cause related to early commencement. If approved, working days will not be charged when working prior to the date of site availability. If the Contractor is working on the project when the site becomes available, working days will be first charged on the following day.

An approximate start date is designated for the purpose of allowing a contractor some leeway in planning their work. The contractor and project engineer are to develop an agreed starting date.

A contractor may request to start work anytime after execution of the contract and before the approximate start date. This request is subject to approval by the project engineer and if approved, working days will be charged when work is actually started. If approval is given, contractors will be required to sign a waiver giving up any right to claim extra compensation for damages due to delays related to their early commencement. Any contractor asking to start early, shall not interfere with operations of other contractors who have first right to the site.

3. **Late Start Date.**
   a. Unless noted otherwise in the proposal form, the Contractor may commence work any time after receipt of the signed contract, weather and specifications permitting. Except as noted in Article 1108.02, F, working days will begin to be charged whenever the Contractor starts work. Charging of working days will begin on the Late Start Date if the Contractor has not started work prior to this date.
   b. If the Contractor wishes to start preliminary work prior to the Late Start Date and move out intending to return at a later date to complete the project, the Contractor shall request approval from the Engineer for temporary suspension of work in accordance with Article 1108.06. Approval of suspension of work in this circumstance will be based on if the road is open to traffic and the roadway is in a condition that is at least as safe as it was before the start of the preliminary work. The Engineer will submit in writing to the Contractor approval for suspension of work and a computed revised Late Start Date. The revised Late Start Date will be computed by adding the working days used for the preliminary work to the Late Start Date listed on the proposal form. The charging of the remainder of the working days will resume on the revised Late Start Date or when the Contractor recommences work prior to the revised Late Start Date.

When a contract includes a late start date, the contractor may start work any time after execution of the contract if permitted by specifications and weather. If an early start is allowed, working days will be charged commencing when work is actually started. Otherwise, working days will be charged starting on the late start date.

Occasionally a contractor will start a project, complete several items of work, and then request that working days be suspended. The charging of working days may be suspended only when the contractor begins work on the project before the late start date and with the approval of the project engineer. Project suspensions should normally not be allowed after the late start date, unless the project has been opened to traffic. See "Project Suspensions" that follows.

1108.06 TEMPORARY SUSPENSION OF WORK.

A. Work shall be suspended wholly or in part when, in the opinion of the Engineer, weather or other conditions are unfavorable to its satisfactory prosecution. Work shall also be suspended at the direction of the Engineer pending settlement of disputes arising out of failure of the Contractor to comply with provisions of the contract.

B. The start of work may be delayed or work may be suspended upon request of the Contractor and with approval of the Engineer. The Engineer may require the request to be in writing and also may require the Contractor to include with the request a schedule for satisfactory completion of the work. Prior to temporary suspension of work, all obstructions or hazards that prevent safe travel by public traffic shall be removed from the project.

C. The Engineer will notify the Contractor in writing of directed or approved temporary suspension of work. Working days will not be charged during periods of suspension of work directed or approved by the Engineer except when the suspension is a result of a violation of terms of the contract.

Example of an intermediate project suspension:

Usually the road will not be closed and construction work will be accomplished while maintaining traffic. Before work is suspended, the road must be left in a condition that is at least as safe as it was before the start of any preliminary work. (Refer to "Project Suspensions" in the following section.) After suspending work, a new late start date is calculated using the number of working days remaining at the time of suspension. A statement indicating work is suspended and the new late start date should be reported on the appropriate "Weekly Report of Working Days." The charging of working days would be resumed starting on the new date or when the contractor resumes work, if earlier.

The guidelines for charging working days are explained in *Specifications 1108.02 and 1108.06* and in the following case:

Frequently a paving contract is let following a grading or structure contract which has not been completed when expected.

The policy on charging of working days in this situation is as follows: Whenever paving operations are in progress, working days are charged when paving is identified as the controlling operation, even though there may be a section of the project that cannot be paved because of some uncompleted work. If paving operations must be suspended or cannot start because of this uncompleted work, charging of working days should also be suspended. The contractor and project engineer shall agree on a date for resuming paving operations.

The site is considered not available if the contractor's operation would be restricted or curtailed to the extent that production is reduced because of insufficient or excluded areas. Examples of contracts often delayed are:

- *Bridges delayed due to uncompleted berms*
- *Paving work delayed because of grading construction*

Working days will be charged whenever the contractor is working on the controlling operation, whether before or after the approximate start date. A "Notice to Proceed" shall be issued if the project engineer determines there are sufficient reasons and available areas to expect the contractor to be working. If the contractor does not start on or before the 15th day following a "Notice to Proceed," charging of working days will begin on the 15th day.

Factors to be considered are amount of work available to the contractor, safety, other contracts, other work, opening the road to traffic, etc.

Examples of this type of contract are interstate fencing and signing. In either case, a contractor will only be able to work as areas are completed and become available. Contractors may be expected to work in somewhat confined or limited areas due to other contractors.

1103.07 FAILURE TO EXECUTE CONTRACT.

Unless the time limit is modified by the contract documents, failure to execute a contract and file an acceptable bond within 30 calendar days of the date of the approval for award, herein provided, will be just and sufficient cause for annulment of the approval for award and for forfeiture of the proposed guaranty to the Contracting Authority.

Estimating Proposal

The next section is the Proposal Schedule of Prices. They show the bid items numbers, bid item descriptions and bid item quantities for each bid item at the time the project was prepared and advertised for letting. Some of these bid item descriptions and quantities may change by project Addenda issued prior to the letting the project.

We will discuss some of the specific Bid Items in detail later in this course.

The last part of the Proposal is the Proposal Special Provisions List section. This portion of the proposal define additional requirements, special provisions, and supplemental specifications apply to this project. On the following pages are text that provide further clarification of the notifications on the list.

The first note, 001.2009, notifies the contractor which version of the Standard Specifications applies to the contract, in this case the 2009 version.

The second and third notes were for the projects let under the American Recovery and Reinvestment Act (ARRA). The second note, 005.0007 notifies the contractor that there will be reduced bidder qualification restrictions, which was used to allow contractors to exceed their bidding thresholds due to the large number of projects let for the ARRA program. The third note, 005.0008 informs the agencies and contractors that there will be an increased level of scrutiny for their projects involving extensive interviews and auditing by the Federal Highway Administration representing the Comptroller General.

Due to the steel shortage in the time period in which this project was done, by note 005.09000.01, contractors were allowed to use shorter posts, 4' instead of 5', for their silt fence installation for certain applications.

Note 410.11 tells us that there is a Storm Water Pollution Prevention Plan that applies to this project. Further details for that item can be found in the project plans. We will discuss this in more detail later on in the course.

There is a "no winter free time" note, it means that working days will be charged after Nov. 15 until the project is completed, if it is not completed by that date.

The DBE notes are used to notify the potential bidders that they have to make a reasonable attempt to sublet a portion of the work on this project to a DBE certified Contractor the DBE—2009 is the current Directory list of the DBE Contractors who are certified in Iowa. The DBE-091215 is letting specific, it reflects current additions or deletions of Certified DBE Contractors to the DBE—2009. These documents are seldom used by anyone besides the contractors and The Office of Contracts at the time of the letting.

Since this project was let under the American Recovery and Reinvestment Act (ARRA), there we specific rules for monthly labor reporting that were associated with those projects. The DS-09026 outlines the rules for that reporting. This requirement was only for those projects let under the ARRA program.

Since this is an urban project, there are certain items that are specific to urban roadways and specifications for these items are not included in the IDOT Standard Specifications. The Statewide Urban Design and Specification (SUDAS) manual addresses these urban issues. On this contract, there are traffic signals that are to be installed. When SUDAS specifications are needed for urban projects, they are attached to the project as a Special Provision (or for the traffic signal item they are currently a Developmental Specification). So, for this contract DS-09030 was attached to the contract for the Traffic Signal items.

FHWA-1273.XX is the Federal Required Contract Provisions as they apply to Federal – Aid Contracts. Some of the key points of the document include nondiscrimination, nonsegregated facilities, wage rates, statements of payrolls, safety, false statements, clean-air act and water pollution control act. The inspector should read and keep a copy of this document on the project for references if needed.

The IA08-1.2 is specified as the minimum federal wage scale (rates) the contractor has to pay his employees on this project. The inspector should look this document over and become familiar with which wage rates apply to the project. The Contractors' employees may come to the inspector to ask question on what they should be receiving for pay on the project. The proper and current schedule of federal wage rates should also be posted on the Contractors Project Bulletin Board.

This project specifies SS-09004, the Erosion Control Mobilization Supplemental Specification applies to the project. This is a reminder to you that the contractor MUST submit an Erosion Control Implementation Plan. This plan notifies the contract administrator of the number of planned mobilization to install or remove erosion control measures at different stages on the project. These planned mobilizations are paid at the dollar amount specified in the Supplemental Specification. If the contractor has to mobilize to the project to do an emergency installation or repair to the erosion control methods, that mobilization is paid at a higher rate specified in the Supplemental Specification.

The GS-XXXXX is the General Specification that is applied to projects. This document indicates changes and updates to the Standard Specification Book. The inspector must become familiar with what changes if any in this specification applies to any of the items on the project. Since this project was let under a new 2009 Specification, there was no GS applicable for this letting. Instead, the updates to the book were done by a Supplemental Specification, SS-09007. It is very important that, in addition to the Standard Specifications book, the inspector have a copy in the field of this document of the applicable updates.

If a smoothness requirement applied to the project, there would be a standard proposal note to add an additional smoothness requirement to the project.

For bidding information, see Preparation of Proposals in the Standard Specifications for Highway and Bridge Construction.

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*****************************************************************************
*                                        Bid Order No.: 106                 *
* Proposal ID No.: 77-3827-611            Letting Date: December 15, 2009   *
*                                                       10:00 A.M.          *
*    Type of Work: PCC PAVEMENT WIDENING                                    *
*  Primary County: POLK                        Design: ENGLISH              *
*        DBE Goal:   5.0 %              Std Spec Series: 2009               *
*  Pre-Qual Group: PCC PAVEMENT                                             *
*                                                                           *
* Contracting Authority: CITY OF JOHNSTON                                   *
*     Proposal Guaranty: $  75,000.00                                       *
*****************************************************************************
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This Proposal Includes The Following Project(s):

- -

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    Project: ESL-3827(611)--7S-77                      County: POLK
  Work Type: PCC PAVEMENT WIDENING                      Plans: Yes
      Route: NW 86TH ST                                Design: ENGLISH
   Location: FROM CHAMBERRY BOULEVARD TO
             NW 62ND AVENUE IN THE CITY OF JOHNSTON
Road System: URBAN
     Length:   0.77 Miles
Federal Aid - Predetermined Wages Are In Effect
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Bid Order No.: 106

Proposal ID No.: 77-3827-611 Letting Date: December 15, 2009

Primary Work Type: PCC PAVEMENT WIDENING 10:00 A.M.

Site Number	Contract Period/ Site Description		Liquidated Damages
CONTRACT	LATE START DATE: 05/17/10	100 WORKING DAYS	$ 500.00

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PROPOSAL NOTES

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Bid Order No.: 106
Proposal ID No.: 77-3827-611 Letting Date: December 15, 2009
Primary Work Type: PCC PAVEMENT WIDENING 10:00 A.M.
Primary County: POLK

UNIT BIDS MUST BE TYPED OR SHOWN IN INK OR THE BID WILL BE REJECTED.

Line No	Item Number / Item Description	Item Quantity and Unit	Unit Price Dollars	Unit Price Cts	Bid Amount Dollars	Bid Amount Cts
Section 0001 ROADWAY ITEMS						
0010	2102-2710070 EXCAVATION, CLASS 10, ROADWAY AND BORROW	4,357.000 CY		.		.
0020	2105-8425005 TOPSOIL, FURNISH AND SPREAD	1,518.000 CY		.		.
0030	2107-0875000 COMPACTION WITH MOISTURE AND DENSITY CONTROL	2,575.000 CY		.		.
0040	2123-7450020 SHOULDER FINISHING, EARTH	57.100 STA		.		.
0050	2213-6745500 REMOVAL OF CURB	40.150 STA		.		.
0060	2213-7100400 RELOCATION OF MAIL BOXES	5.000 EACH		.		.
0070	2301-1033095 STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 9.5 IN.	859.000 SY		.		.
0080	2301-4874106 MEDIAN, DOWELLED P.C. CONCRETE, 6 INCH	2,145.000 SY		.		.
0090	2301-4875006 MEDIAN, P. C. CONCRETE, 6 IN.	112.000 SY		.		.

Bid Order No.: 106
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Line No	Item Number / Item Description	Item Quantity and Unit	Unit Price Dollars	Unit Price Cts	Bid Amount Dollars	Bid Amount Cts
0100	2301-6911722 PORTLAND CEMENT CONCRETE PAVEMENT SAMPLES	LUMP	LUMP			.
0110	2302-1200095 PORTLAND CEMENT CONCRETE PAVEMENT WIDENING, 9.5 IN.	4,612.000 SY		.		.
0120	2401-6745356 REMOVAL OF CONCRETE FOOTINGS OF LIGHT POLES	5.000 EACH		.		.
0130	2401-6745765 REMOVAL OF LIGHT POLES	2.000 EACH		.		.
0140	2401-6750001 REMOVALS, AS PER PLAN	LUMP	LUMP			.
0150	2402-0425031 GRANULAR BACKFILL	77.000 TON		.		.
0160	2403-0100000 STRUCTURAL CONCRETE (MISCELLANEOUS)	78.000 CY		.		.
0170	2404-7775005 REINFORCING STEEL, EPOXY COATED	6,732.000 LB		.		.
0180	2414-6460000 ORNAMENTAL METAL RAILING	282.000 LF		.		.
0190	2435-0251000 INTAKE, SW-510	1.000 EACH		.		.
0200	2435-0254500 INTAKE, SW-545	3.000 EACH		.		.

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Line No	Item Number / Item Description	Item Quantity and Unit	Unit Price Dollars	Unit Price Cts	Bid Amount Dollars	Bid Amount Cts
0210	2435-0254510 INTAKE, SW-545 MODIFIED	5.000 EACH	.		.	
0220	2435-0600010 MANHOLE ADJUSTMENT, MINOR	2.000 EACH	.		.	
0230	2435-0600120 INTAKE ADJUSTMENT, MAJOR	1.000 EACH	.		.	
0240	2502-6745952 REMOVAL OF SUBDRAIN	576.000 LF	.		.	
0250	2502-8212034 SUBDRAIN, LONGITUDINAL, (SHOULDER) 4 IN. DIA.	480.000 LF	.		.	
0260	2502-8213106 SUBDRAIN, PVC, STANDARD, NON-PERFORATED, 6 IN.	111.000 LF	.		.	
0270	2502-8213206 SUBDRAIN, PVC, STANDARD, PERFORATED, 6 IN.	252.000 LF	.		.	
0280	2502-8220193 SUBDRAIN OUTLET (RF-19C)	33.000 EACH	.		.	
0290	2502-8221006 SUBDRAIN RISER, 6 IN., AS PER PLAN	6.000 EACH	.		.	
0300	2503-0114212 STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 12 IN.	32.000 LF	.		.	

Bid Order No.: 106
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Line No	Item Number / Item Description	Item Quantity and Unit	Unit Price Dollars	Unit Price Cts	Bid Amount Dollars	Bid Amount Cts
0310	2503-0114215 STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 15 IN.	16.000 LF	.		.	
0320	2503-0114218 STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 18 IN.	14.000 LF	.		.	
0330	2503-0114224 STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 24 IN.	16.000 LF	.		.	
0340	2503-0114230 STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 30 IN.	8.000 LF	.		.	
0350	2503-0114236 STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 36 IN.	8.000 LF	.		.	
0360	2503-0200036 REMOVE STORM SEWER PIPE LESS THAN OR EQUAL TO 36 IN.	62.000 LF	.		.	
0370	2510-6745850 REMOVAL OF PAVEMENT	1,551.000 SY	.		.	

Bid Order No.: 106
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UNIT BIDS MUST BE TYPED OR SHOWN IN INK OR THE BID WILL BE REJECTED.

Line No	Item Number / Item Description	Item Quantity and Unit	Unit Price Dollars	Unit Price Cts	Bid Amount Dollars	Bid Amount Cts
0380	2510-6750600 REMOVAL OF INTAKES AND UTILITY ACCESSES	9.000 EACH	.		.	
0390	2511-6745900 REMOVAL OF SIDEWALK	713.000 SY	.		.	
0400	2511-7526004 SIDEWALK, P.C. CONCRETE, 4 IN.	533.000 SY	.		.	
0410	2511-7526006 SIDEWALK, P.C. CONCRETE, 6 IN.	44.000 SY	.		.	
0420	2511-7528100 DETECTABLE WARNINGS FOR CURB RAMPS	68.000 SF	.		.	
0430	2512-1750006 CURB AND GUTTER, P.C. CONCRETE, AS PER PLAN	285.000 LF	.		.	
0440	2515-2475006 DRIVEWAY, P.C. CONCRETE, 6 IN.	112.000 SY	.		.	
0450	2515-2475007 DRIVEWAY, P.C. CONCRETE, 7 IN.	410.000 SY	.		.	
0460	2515-6745600 REMOVAL OF PAVED DRIVEWAY	988.000 SY	.		.	
0470	2518-6910000 SAFETY CLOSURE	9.000 EACH	.		.	
0480	2523-0000200 ELECTRICAL CIRCUITS	110.000 LF	.		.	

Bid Order No.: 106
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Primary Work Type: PCC PAVEMENT WIDENING 10:00 A.M.
Primary County: POLK

UNIT BIDS MUST BE TYPED OR SHOWN IN INK OR THE BID WILL BE REJECTED.

Line No	Item Number / Item Description	Item Quantity and Unit	Unit Price Dollars	Unit Price Cts	Bid Amount Dollars	Bid Amount Cts
0490	2523-0000310 HANDHOLES AND JUNCTION BOXES	4.000 EACH	.		.	
0500	2523-6765009 REMOVE AND REINSTALL LIGHT POLE AND LUMINAIRE	3.000 EACH	.		.	
0510	2524-9090001 DELINEATORS, AS PER PLAN	7.000 EACH	.		.	
0520	2525-0000100 TRAFFIC SIGNALIZATION	LUMP	LUMP		.	
0530	2526-8285000 CONSTRUCTION SURVEY	LUMP	LUMP		.	
0540	2527-9263005 RAISED PAVEMENT MARKERS	160.000 EACH	.		.	
0550	2527-9263109 PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	80.100 STA	.		.	
0560	2527-9263130 REMOVABLE TAPE MARKINGS	6.000 STA	.		.	
0570	2527-9263137 PAINTED SYMBOLS AND LEGENDS, WATERBORNE OR SOLVENT-BASED	28.000 EACH	.		.	
0580	2527-9263180 PAVEMENT MARKINGS REMOVED	50.300 STA	.		.	

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Line No	Item Number / Item Description	Item Quantity and Unit	Unit Price Dollars	Unit Price Cts	Bid Amount Dollars	Bid Amount Cts
0590	2527-9263190 SYMBOLS AND LEGENDS REMOVED	2.000 EACH	.		.	
0600	2528-8445110 TRAFFIC CONTROL	LUMP	LUMP		.	
0610	2528-8445112 FLAGGERS	15.000 DAY	295.00000		4,425.00	
0620	2529-2242304 CD JOINT ASSEMBLY	10.000 EACH	.		.	
0630	2529-5070110 PATCHES, FULL-DEPTH FINISH, BY AREA	411.000 SY	.		.	
0640	2529-5070120 PATCHES, FULL-DEPTH FINISH, BY COUNT	30.000 EACH	.		.	
0650	2533-4980005 MOBILIZATION	LUMP	LUMP		.	
0660	2554-0114012 WATER MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 12 IN.	373.000 LF	.		.	
0670	2554-0203000 FITTINGS BY WEIGHT, DUCTILE IRON	3,098.000 LB	.		.	
0680	2554-0207012 VALVE, GATE, DIP, 12 IN.	5.000 EACH	.		.	

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UNIT BIDS MUST BE TYPED OR SHOWN IN INK OR THE BID WILL BE REJECTED.

Line No	Item Number / Item Description	Item Quantity and Unit	Unit Price Dollars	Unit Price Cts	Bid Amount Dollars	Bid Amount Cts
0690	2554-0210201 FIRE HYDRANT ASSEMBLY, WM-201	5.000 EACH	.		.	
0700	2554-0212030 VALVE BOX REPLACEMENT	4.000 EACH	.		.	
0710	2599-9999005 ('EACH' ITEM) REMOVE FIRE HYDRANT ASSEMBLY	5.000 EACH	.		.	
0720	2599-9999005 ('EACH' ITEM) REMOVE VALVE, GATE, DIP, 12 INCH	5.000 EACH	.		.	
0730	2599-9999005 ('EACH' ITEM) SPECIAL INTAKE, SW-510	1.000 EACH	.		.	
0740	2599-9999005 ('EACH' ITEM) SPECIAL INTAKE, SW-545	7.000 EACH	.		.	
0750	2599-9999009 ('LINEAR FEET' ITEM) DRAIN, CMP SLOTTED, 6 INCH WITH 6 INCH GRATE	9.000 LF	.		.	
0760	2599-9999009 ('LINEAR FEET' ITEM) REMOVE WATER MAIN, PVC, 12 INCH	320.000 LF	.		.	
0770	2601-2634100 MULCHING	2.400 ACRE	700.00000		1,680.00	
0780	2601-2636044 SEEDING AND FERTILIZING (URBAN)	0.400 ACRE	.		.	

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Primary Work Type: PCC PAVEMENT WIDENING 10:00 A.M.
Primary County: POLK

UNIT BIDS MUST BE TYPED OR SHOWN IN INK OR THE BID WILL BE REJECTED.

Line No	Item Number / Item Description	Item Quantity and Unit	Unit Price Dollars	Unit Price Cts	Bid Amount Dollars	Bid Amount Cts
0790	2601-2639010 SODDING	703.000 SQ	.		.	
0800	2601-2642120 STABILIZING CROP - SEEDING AND FERTILIZING (URBAN)	2.000 ACRE	.		.	
0810	2601-2643110 WATERING FOR SOD, SPECIAL DITCH CONTROL, OR SLOPE PROTECTION	422.000 MGAL	60.00000		25,320.00	
0820	2602-0000020 SILT FENCE	3,000.000 LF	.		.	
0830	2602-0000060 REMOVAL OF SILT FENCE	3,000.000 LF	.		.	
0840	2602-0000090 CLEAN-OUT OF SILT FENCE	3,000.000 LF	.		.	
	SECTION 0001 TOTAL				.	
	TOTAL BID				.	

****

Bid Order No.: 106

Proposal ID No.: 77-3827-611 Letting Date: December 15, 2009

Primary Work Type: PCC PAVEMENT WIDENING 10:00 A.M.

Primary County: POLK

When this proposal is used for bidding purposes and submitted with the proper Bidding Document, any and all items on separate documents added to this proposal by addendum must also be included.

Only the bid proposal holders receive addendums issued for this proposal and responsibility for notifying any potential subcontractors or suppliers remains with the bid proposal holder.

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Bid Order No.: 106
Proposal ID No.: 77-3827-611
Letting Date: December 15, 2009
Primary Work Type: PCC PAVEMENT WIDENING
10:00 A.M.
Primary County: POLK

Note	Description
001.2009	SERIES 2009 OF IDOT STANDARD SPECIFICATIONS, PLUS APPLICABLE GS, DS'S, SS'S, OR SP'S SHALL APPLY TO WORK ON THIS CONTRACT
005.0007	REDUCED BIDDER QUALIFICATION RESTRICTIONS
005.0008	REQUIRED CONTRACT PROVISION TO IMPLEMENT ARRA SECTION 902, AND NOTIFICATION OF THE AUTHORITY OF THE INSPECTOR GENERAL
005.09000.01	4 FT. POSTS WILL BE ALLOWED FOR SILT FENCE RC-17
410.11	A STORM WATER POLLUTION PREVENTION PLAN HAS BEEN DEVELOPED FOR ONE OR MORE PROJECTS ON THIS CONTRACT
500.01	WINTER FREE TIME WILL NOT BE PERMITTED
660.26	SPECIALTY ITEM - TRAFFIC SIGNALIZATION AND/OR TRAFFIC SIGNAL INSTALLATION
DBE--2009	STATE OF IOWA 2009 DIRECTORY OF CERTIFIED DBE'S
DBE-091215	AMENDMENT TO THE 2009 ANNUAL DIRECTORY OF CERTIFIED DBE'S
DS-09026	MONTHLY EMPLOYMENT REPORTING (AMERICAN RECOVERY AND REINVESTMENT ACT OF 2009)
DS-09030	TRAFFIC SIGNALS (SUDAS)
FHWA-1273.04	REQUIRED CONTRACT PROVISIONS - FEDERAL-AID CONSTRUCTION REVISIONS TO SECTIONS V AND VI.
IA08-1.2	HIGHWAY WAGE RATES: IA20080001 STATEWIDE (EXCEPT SCOTT COUNTY)
SS-09004	MOBILIZATION FOR EROSION CONTROL
SS-09007	REVISIONS TO THE STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, SERIES 2009

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Bid Order No.: 106
Proposal ID No.: 77-3827-611 Letting Date: December 15, 2009
Primary Work Type: PCC PAVEMENT WIDENING 10:00 A.M.
Primary County: POLK

Note Description

001.2009
*** STANDARD SPECIFICATIONS -- SERIES 2009 ***
THE IOWA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, SERIES 2009, PLUS APPLICABLE GENERAL SUPPLEMENTAL SPECIFICATIONS, DEVELOPMENTAL SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS SHALL APPLY TO CONSTRUCTION WORK ON THIS CONTRACT.

005.0007
*** REDUCED BIDDER QUALIFICATION RESTRICTIONS ***
The requirement for prospective bidders to have demonstrated experience in a particular class of work as provided in Article 1102.01 is waived.

Bidders submitting proposals must be recognized contractors capable of completing the minimum amount of the contract as required by Article 1108.01, and must posses all necessary licenses, certificates, and resources to do so. The bidder may be required to furnish evidence to the satisfaction of the Department of Transportation of the bidder's ability to perform and complete the contract before they are allowed to bid work types they have not previously performed.

In Article 1102.01 of the Standard Specification, the formula MAXPREQ (maximum prequalification amount) limitation is removed for bidders with a CPA Reviewed Statement or a CPA Audited Statement. Contractors may be approved for awards exceeding their maximum prequalification amount.

The contractor is not relieved of any other contract requirement. The prime must still self perform the required minimum contract percentage, and must possess all necessary licenses, certificates and resources to do so. A proposal guaranty, performance bond and insurance are still required. The bidder may be required to furnish evidence to the satisfaction of the Department of Transportation of their ability to perform and complete the work before being allowed to bid. The Department maintains the right to determine valid eligible bidders.

005.0008
*** REQUIRED CONTRACT PROVISION TO IMPLEMENT ARRA SECTION 902 ***
Section 902 of the American Recovery and Reinvestment Act (ARRA) of 2009 requires that each contract awarded using ARRA funds must include a provision that provides the U.S. Comptroller General and his representatives with the authority to:
. “(1) to examine any records of the contractor or any of its
. subcontractors, or any State or local agency administering such
. contract, that directly pertain to, and involve transactions
. relating to, the contract or subcontract; and
.
. (2) to interview any officer or employee of the contractor or any of

Bid Order No.: 106
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Note Description

. its subcontractors, or of any State or local government agency
. administering the contract, regarding such transactions."
.
Accordingly, the Comptroller General and his representatives shall have the authority and rights as provided under Section 902 of the ARRA with respect to this contract, which is funded with funds made available under the ARRA. Section 902 further states that nothing in this section shall be interpreted to limit or restrict in any way any existing authority of the Comptroller General.

*** NOTIFICATION OF THE AUTHORITY OF THE INSPECTOR GENERAL ***
Section 1515(a) of the ARRA provides authority for any representatives of the Inspector General to examine any records or interview any employee or officers working on this contract. The contractor is advised that representatives of the inspector general have the authority to examine any record and interview any employee or officer of the contractor, its subcontractors or other firms working on this contract. Section 1515(b) further provides that nothing in this section shall be interpreted to limit or restrict in any way any existing authority of an inspector general.

005.09000.01
For purposes of resolving discrepancies in the contract documents, the changes listed below shall be considered as information provided in the Proposal Form with regards to Article 1105.04 of the Standard Specifications.

*** MODIFICATION TO STANDARD ROAD PLANS ***
.
RC-17:
. >> The availability of 5'-0" 'T' Steel Fence Posts for silt fence
. and silt fence for ditch checks required by Road Standard RC-17
. appears to be limited. The use of 4'-0" 'T' Steel Fence Posts
. will be considered acceptable for this contract if Road Standard
. RC-17 is applicable.

410.11
*** STORM WATER POLLUTION PREVENTION PLAN ***
A Storm Water Pollution Prevention Plan has been developed by the Contracting Authority for one or more projects on this contract. See the project plans (or other contract document) for specific Storm Water Pollution Prevention Plan details.

500.01
*** WINTER WORK ***
The free time allowed between November 15 and April 1 will not be permitted on this project. The Contractor shall work during the winter on all working days as defined in Article 1101.03 'Working Day'.

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Note Description

660.26
*** SPECIALTY ITEM ***
The item 'TRAFFIC SIGNALIZATION' and/or ‘TRAFFIC SIGNAL INSTALLATION’ is considered a specialty item for this project.

When performed by subcontract, the cost of the specialty item/s so performed by subcontract may be deducted from the total cost before computing the amount of work required to be performed by the Prime Contractor with his/her own organization. Refer to Article 1108.01 of the Standard Specifications.

DBE--2009 January 21, 2009
STATE OF IOWA 2009 DIRECTORY OF CERTIFIED DISADVANTAGED BUSINESS ENTERPRISES
. This directory is available upon request from the Office of
. Contracts, and can also be accessed through the following web site:
. www.ia.bidx.com/lettings/

DBE-091215 December 15, 2009
AMENDMENT TO THE STATE OF IOWA 2009 DIRECTORY OF CERTIFIED DISADVANTAGED BUSINESS ENTERPRISES
. This listing is attached only to Bidding Documents that have an
. Established DBE Goal, and is also available upon request from the
. Office of Contracts. This amendment, and DBE directory, can also
. be accessed through the following web site:
. www.ia.bidx.com/lettings/

DS-09026 October 20, 2009
DEVELOPMENTAL SPECIFICATIONS FOR MONTHLY EMPLOYMENT REPORTING (AMERICAN RECOVERY AND REINVESTMENT ACT OF 2009)

DS-09030 October 20, 2009
DEVELOPMENTAL SPECIFICATIONS FOR TRAFFIC SIGNALS (SUDAS)

FHWA-1273.04 March 10, 1994
REQUIRED CONTRACT PROVISIONS - FEDERAL-AID CONSTRUCTION CONTRACTS (EXCLUSIVE OF APPALACHIAN CONTRACTS)

Revisions to FHWA-1273:
. Section V. STATEMENTS AND PAYROLLS
. Replace the first sub-sentence of paragraph 2b with the following
. shown in quotations:
. "The payroll records shall contain the name and an individually
. identifying number for each such employee (e.g., the last four
. digits of the employee's social security number);"
. This change is being made because federal regulations prohibit the
. use of personal addresses and full social security numbers.

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Note Description

. Section VI. RECORD OF MATERIALS, SUPPLIES, AND LABOR
. Delete all references to Form FHWA-47. Form FHWA-47 shall not
. apply.

IA08-1.2 January 02, 2009
PREDETERMINED WAGE RATE - GENERAL DECISION NUMBER IA20080001
FOR HEAVY AND HIGHWAY CONSTRUCTION -- STATEWIDE (EXCEPT SCOTT COUNTY)
. Note: The Contractor shall review the contract documents and
. is responsible for identifying which zone(s), as defined
. in the Predetermined Wage Rate specification, apply to
. the work on the contract.

*** Additional Requirement ***
The Prime Contractor shall submit certified payrolls for itself and each approved Subcontractor weekly to the Project Engineer. The Contractor may use the Iowa D.O.T. Certified Payroll form or other approved form. The Contractor shall list the craft for each employee covered by the Predetermined Wage Rates. The Prime Contractor shall sign each of the Subcontractor's payrolls to acknowledge the submittal of the Certified Payroll.

SS-09004 October 20, 2009
SUPPLEMENTAL SPECIFICATIONS FOR MOBILIZATION FOR EROSION CONTROL

SS-09007 October 20, 2009
SUPPLEMENTAL SPECIFICATIONS FOR REVISIONS TO THE STANDARD
SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, SERIES 2009

Exercises – Proposal

Use the Estimating Proposal (ID No. 77-3827-611) to answer the following questions

(1) What is the letting date for this project?_____

(2) Who is the project engineer for this project?_____

(3) What is the project number?_____

(4) What is the location of this project?_____

_____

(5) Is this a Federal Aid Project?_____How can you tell?_____

(6) Is this a late start date project & what is the date?_____

(7) How many working days are allowed?_____

(8) On line number 0030, what is the item quantity and unit of measure?_____

(9) On line number 0030, what Article in the Specifications would you look under to find information about this item?_____

(10) On line number 0120, what is the item number and item description?_____

_____

(11) On line number 0120, what is the item quantity and unit?_____

(12) What county is this project located in?_____

(13) What is the dollar amount of the liquidated damages?_____

(14) Is a Storm Water Discharge Permit required for this project?_____

(15) Is work required through the winter on this project?_____

(16) What is the number of the Wage Rate Decision?_____

(17) What is the length of this project?_____

(18) What type of work is this?_____

(19) What is the DBE Goal on this project?_____

(20) How many items are on this project?_____

Addendums

During the letting process sometimes changes are needed to correct errors, or update information for the project, bid items, project notes, plans and etc. prior to the contractor bidding the project. An addendum is issued to cover these changes.

This project had one addendum issued prior to the letting date. Addendum 15dec106.a01 was issued on November 20, 2009.

The first page of the addendum lists the Bid Order (B.O.), Proposal ID, Proposal work type, Project Number, and the Addendum number.

The addendum number is made up of the letting date 15dec, B.O. 106 and the addendum number. The first addendum number is a01. If a second was issued, it would be 16dec106.a02 and so on.

The first line of the text indicates what the first change to the biding proposal is; in this case the Addendum was written to make a change to the Proposal and add a Developmental Specification. This Developmental Specification, DS-09027 effective October 20, 2009 gives direction for the closure of Pedestrian Paths, requirements for barricades to be used for these paths, how they should be installed, and how the closures shall be measured and paid for.

A d d e n d u m

Iowa Department of Transportation
Office of Contracts

Date of Letting: December 15, 2009
Date of Addendum: November 20, 2009

B.O.	Proposal ID	Proposal Work Type	County	Project Number	Addendum
106	77-3827-611	PCC Pavement Widening	Polk	ESL-3827(611)--7S-77	15dec106.a01

Notice: Only the bid proposal holders receive this addendum and responsibility for notifying any potential subcontractors or suppliers remains with the proposal holder.

Make the following change to the PROPOSAL SPECIAL PROVISIONS LIST and TEXT:

Add the attached Developmental Specification:

DS-09027 October 20, 2009
DEVELOPMENTAL SPECIFICATIONS FOR PEDESTRIAN PATH CLOSURES

Iowa Department of Transportation

DEVELOPMENTAL SPECIFICATIONS
FOR
PEDESTRIAN PATH CLOSURES

Effective Date
October 20, 2009

THE STANDARD SPECIFICATIONS, SERIES 2009, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE DEVELOPMENTAL SPECIFICATIONS AND THEY PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.

09027.01 Description
This specification describes pedestrian path closure requirements.

Provide ten calendar days advance notification of a pedestrian path closure to the following:
- Iowa Department of the Blind: Curtis.chong@blind.state.ia.us.
- National Federation of the Blind of Iowa: m.barber@mchsi.com.
- Engineer

09027.02 Materials
Provide Type II Barricades meeting NCHRP Report 350. A list of approved Type II Barricades is found on the internet at the following URL:

http://safety.fhwa.dot.gov/roadway_dept/policy_guide/road_hardware/wzd/

Use barricades meeting the following requirements:
- The top of the top rail of the barricade is 36 to 42 inches (900 to 1050 mm) above the adjacent surface. The top rail of the barricade is parallel to the bottom rail and situated to allow pedestrians to use the rail as a guide for their hands for way-finding purposes.
- The bottom of the bottom rail of the barricade is no higher than 1.5 inches (38 mm) above the adjacent surface. The top of the bottom rail is no lower than 6 inches (150 mm) above the adjacent surface.
- The barricade is continuous, stable, and non-flexible.

09027.03 Construction
Install the barricade across the full width of the closed pedestrian path. Locate the barricade to minimize sight distance restrictions for road users.

09027.04 Method of Measurement and Basis of Payment.
Pedestrian Path Closure is incidental to Traffic Control.

The Contract

The contract contains much the same information as the Proposal. But now that the project has been awarded there are more details. For example the Contract ID number replaces the Proposal ID number.

The DBE Commitment shows a total of $47,000.00. This is the dollar amount that the Contractor has committed to using DBE Subcontractors to perform specific items of work. There was a specified DBE goal of 5.0% for this project. The Commitment is 4.08% of the contract price. This does not meet the goal, however this contractor has shown a good faith effort to utilize DBE contractors in excess of the goal on previous contracts. This allows them to have a lower commitment that the goal and still be able to have the contract awarded to them.

The Contract also shows the Project Engineer (Howard R. Green Co., a consulting engineer) who will administer the Contract for the City of Johnston. The Contractor name (Manatt's, Inc.), location (Brooklyn, IA) and Contractor Number (MA225).

Any addendums are found following the supplemental specifications, etc. In this case there is one Addendum: 15DEC106.A01 which we looked at earlier.

The Contract Dollar Amount can be found in the Contract, as well as the individual bid item prices. The unit price times the Item Quantity equals the Bid Amount.

Work does not start until the Contract has accepted and approved by the contracting authority and signed by all parties.

FA96 (Form 650019)
9-02

CONTRACT

Letting Date: December 15, 2009 Contract ID: 77-3827-611 Bid Order No.: 106
County: POLK Project Engineer: HOWARD R. GREEN CO.
Cost Center: 849300 Object Code: 890 DBE Commitment: $47,000.00
Contract Work Type: PCC PAVEMENT WIDENING

This agreement made and entered by and between the CITY OF JOHNSTON CONTRACTING AUTHORITY,
AND
MANATT'S, INC. OF BROOKLYN, IA, (MA225), CONTRACTOR

It is agreed that the notice and instructions to bidders, the proposal filed by the Contractor, the specifications, the plan, if any, for project(s) listed below, together with Contractor's performance bond, are made a part hereof and together with this instrument constitute the contract. This contract contains all of the terms and conditions agreed upon by the parties hereto. A true copy of said plan is now on file in the office of the Contracting Authority under date of 12/10/2009.

PROJECT: ESL-3827(611)--7S-77 COUNTY: POLK
WORK TYPE: PCC PAVEMENT WIDENING ACCOUNTING ID: 27585
ROUTE: NW 86TH ST LENGTH (MILES): 0.77
LOCATION: FROM CHAMBERRY BOULEVARD TO
NW 62ND AVENUE IN THE CITY OF JOHNSTON
FEDERAL AID - PREDETERMINED WAGES ARE IN EFFECT

The specifications consist of the Standard Specifications for Highway and Bridge Construction, Series 2009 of the Iowa Department of Transportation plus the following Supplemental Specifications, Special Provisions, and addendums: DBE--2009, DBE-091215, DS-09026, DS-09027, DS-09030, FHWA-1273.04, IA08-1.2, SS-09004, SS-09007, ADDENDUMS: 15DEC106.A01

Contractor, for and in considerations of $1,150,813.17 payable as set forth in the specifications constituting a part of this contract, agrees to construct various items of work and/or provide various materials or supplies in accordance with the plans and specifications therefore, and in the locations designated in the Notice to Bidders.

Contractor certifies by signature on this contract, under pain of penalties for false certification, that the Contractor has complied with Iowa Code Section 452A.17(8) as amended, if applicable, and Iowa Code Section 91C.5 (Public Registration Number), if applicable.

In consideration of the foregoing, Contracting authority hereby agrees to pay the Contractor promptly and according to the requirements of the specifications the amounts set forth, subject to the conditions as set forth in the specifications.

It is further understood and agreed that the above work shall also be commenced or completed in accordance with Page 1B of this Contract and assigned Proposal Notes.

Time is of the essence for this contract. To accomplish the purpose herein expressed, Contracting authority and Contractor have signed this and one other identical instrument as of the 18TH day of JANUARY 2010

By _____
Contracting Authority

By Vickie McDonald, Contract Adm.
Contractor

AUG 25 2011

Iowa DOT Concurrence

Letting Date: December 15, 2009 Contract ID: 77-3827-611 Bid Order No. : 106

It is further understood and agreed that the above work shall be commenced or completed in accordance with the following schedule:

SITE NUMBER	CONTRACT PERIOD	WORKING DAYS	LIQUIDATED DAMAGES
CONTRACT	LATE START DATE 05/17/2010	100	$500.00

CONTRACT NOTES

Vendor No.: MA225
Contract ID No.: 77-3827-611
Primary Work Type: PCC PAVEMENT WIDENING
Primary County: POLK

Bid Order No.: 106
Letting Date: December 15, 2009
10:00 A.M.

Line No	Item Number Item Description	Item Quantity and Unit	Unit Price Dollars	Unit Price Cts	Bid Amount Dollars	Bid Amount Cts
SECTION 0001 ROADWAY ITEMS						
0010	2102-2710070 EXCAVATION, CLASS 10, ROADWAY AND BORROW	4,357.000 CY	9.87000		43,003.59	
0020	2105-8425005 TOPSOIL, FURNISH AND SPREAD	1,518.000 CY	35.70000		54,192.60	
0030	2107-0875000 COMPACTION WITH MOISTURE AND DENSITY CONTROL	2,575.000 CY	14.60000		37,595.00	
0040	2123-7450020 SHOULDER FINISHING, EARTH	57.100 STA	471.66000		26,931.79	
0050	2213-6745500 REMOVAL OF CURB	40.150 STA	839.69000		33,713.55	
0060	2213-7100400 RELOCATION OF MAIL BOXES	5.000 EACH	76.50000		382.50	
0070	2301-1033095 STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 9.5 IN.	859.000 SY	58.00000		49,822.00	
0080	2301-4874106 MEDIAN, DOWELLED P.C. CONCRETE, 6 INCH	2,145.000 SY	38.00000		81,510.00	
0090	2301-4875006 MEDIAN, P.C. CONCRETE, 6 IN.	112.000 SY	39.90000		4,468.80	
0100	2301-6911722 PORTLAND CEMENT CONCRETE PAVEMENT SAMPLES	LUMP	LUMP		3,500.00	

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Vendor No.: MA225
Contract ID No.: 77-3827-611
Primary Work Type: PCC PAVEMENT WIDENING
Primary County: POLK

Bid Order No.: 106
Letting Date: December 15, 2009
10:00 A.M.

Line No	Item Number Item Description	Item Quantity and Unit	Unit Price Dollars	Unit Price Cts	Bid Amount Dollars	Bid Amount Cts
0110	2302-1200095 PORTLAND CEMENT CONCRETE PAVEMENT WIDENING, 9.5 IN.	4,612.000 SY	58.00000		267,496.00	
0120	2401-6745356 REMOVAL OF CONCRETE FOOTINGS OF LIGHT POLES	5.000 EACH	262.50000		1,312.50	
0130	2401-6745765 REMOVAL OF LIGHT POLES	2.000 EACH	157.50000		315.00	
0140	2401-6750001 REMOVALS, AS PER PLAN	LUMP	LUMP		2,100.00	
0150	2402-0425031 GRANULAR BACKFILL	77.000 TON	16.70000		1,285.90	
0160	2403-0100000 STRUCTURAL CONCRETE (MISCELLANEOUS)	78.000 CY	630.00000		49,140.00	
0170	2404-7775005 REINFORCING STEEL, EPOXY COATED	6,732.000 LB	1.26000		8,482.32	
0180	2414-6460000 ORNAMENTAL METAL RAILING	282.000 LF	63.53000		17,915.46	
0190	2435-0251000 INTAKE, SW-510	1.000 EACH	4,492.95000		4,492.95	
0200	2435-0254500 INTAKE, SW-545	3.000 EACH	3,439.07000		10,317.21	
0210	2435-0254510 INTAKE, SW-545 MODIFIED	5.000 EACH	3,387.30000		16,936.50	

Vendor No.: MA225
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Primary County: POLK

Bid Order No.: 106
Letting Date: December 15, 2009
10:00 A.M.

Line No	Item Number Item Description	Item Quantity and Unit	Unit Price Dollars	Unit Price Cts	Bid Amount Dollars	Bid Amount Cts
0220	2435-0600010 MANHOLE ADJUSTMENT, MINOR	2.000 EACH	316.89000		633.78	
0230	2435-0600120 INTAKE ADJUSTMENT, MAJOR	1.000 EACH	542.85000		542.85	
0240	2502-6745952 REMOVAL OF SUBDRAIN	576.000 LF	1.47000		846.72	
0250	2502-8212034 SUBDRAIN, LONGITUDINAL, (SHOULDER) 4 IN. DIA.	480.000 LF	14.18000		6,806.40	
0260	2502-8213106 SUBDRAIN, PVC, STANDARD, NON-PERFORATED, 6 IN.	111.000 LF	11.55000		1,282.05	
0270	2502-8213206 SUBDRAIN, PVC, STANDARD, PERFORATED, 6 IN.	252.000 LF	15.86000		3,996.72	
0280	2502-8220193 SUBDRAIN OUTLET (RF-19C)	33.000 EACH	116.97000		3,860.01	
0290	2502-8221006 SUBDRAIN RISER, 6 IN., AS PER PLAN	6.000 EACH	120.33000		721.98	
0300	2503-0114212 STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 12 IN.	32.000 LF	47.15000		1,508.80	
0310	2503-0114215 STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 15 IN.	16.000 LF	56.28000		900.48	

Vendor No.: MA225
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Primary County: POLK

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Line No	Item Number Item Description	Item Quantity and Unit	Unit Price Dollars	Unit Price Cts	Bid Amount Dollars	Bid Amount Cts
0320	2503-0114218 STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 18 IN.	14.000 LF	56.60000		792.40	
0330	2503-0114224 STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 24 IN.	16.000 LF	76.86000		1,229.76	
0340	2503-0114230 STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 30 IN.	8.000 LF	104.90000		839.20	
0350	2503-0114236 STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 36 IN.	8.000 LF	120.44000		963.52	
0360	2503-0200036 REMOVE STORM SEWER PIPE LESS THAN OR EQUAL TO 36 IN.	62.000 LF	8.40000		520.80	
0370	2510-6745850 REMOVAL OF PAVEMENT	1,551.000 SY	14.07000		21,822.57	
0380	2510-6750600 REMOVAL OF INTAKES AND UTILITY ACCESSES	9.000 EACH	260.40000		2,343.60	
0390	2511-6745900 REMOVAL OF SIDEWALK	713.000 SY	3.26000		2,324.38	
0400	2511-7526004 SIDEWALK, P.C. CONCRETE, 4 IN.	533.000 SY	28.35000		15,110.55	

Vendor No.: MA225
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Primary Work Type: PCC PAVEMENT WIDENING
Primary County: POLK

Bid Order No.: 106
Letting Date: December 15, 2009
10:00 A.M.

Line No	Item Number Item Description	Item Quantity and Unit	Unit Price Dollars	Unit Price Cts	Bid Amount Dollars	Bid Amount Cts
0410	2511-7526006 SIDEWALK, P.C. CONCRETE, 6 IN.	44.000 SY	31.50000		1,386.00	
0420	2511-7528100 DETECTABLE WARNINGS FOR CURB RAMPS	68.000 SF	34.65000		2,356.20	
0430	2512-1750006 CURB AND GUTTER, P.C. CONCRETE, AS PER PLAN	285.000 LF	47.25000		13,466.25	
0440	2515-2475006 DRIVEWAY, P.C. CONCRETE, 6 IN.	112.000 SY	36.75000		4,116.00	
0450	2515-2475007 DRIVEWAY, P.C. CONCRETE, 7 IN.	410.000 SY	42.00000		17,220.00	
0460	2515-6745600 REMOVAL OF PAVED DRIVEWAY	988.000 SY	8.74000		8,635.12	
0470	2518-6910000 SAFETY CLOSURE	9.000 EACH	157.50000		1,417.50	
0480	2523-0000200 ELECTRICAL CIRCUITS	110.000 LF	12.60000		1,386.00	
0490	2523-0000310 HANDHOLES AND JUNCTION BOXES	4.000 EACH	1,050.00000		4,200.00	
0500	2523-6765009 REMOVE AND REINSTALL LIGHT POLE AND LUMINAIRE	3.000 EACH	1,575.00000		4,725.00	
0510	2524-9090001 DELINEATORS, AS PER PLAN	7.000 EACH	52.50000		367.50	

Vendor No.: MA225
Contract ID No.: 77-3827-611
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Primary County: POLK

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Line No	Item Number Item Description	Item Quantity and Unit	Unit Price Dollars	Unit Price Cts	Bid Amount Dollars	Bid Amount Cts
0520	2525-0000100 TRAFFIC SIGNALIZATION	LUMP	LUMP		17,553.90	
0530	2526-8285000 CONSTRUCTION SURVEY	LUMP	LUMP		7,211.40	
0540	2527-9263005 RAISED PAVEMENT MARKERS	160.000 EACH	2.63000		420.80	
0550	2527-9263109 PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	80.100 STA	46.20000		3,700.62	
0560	2527-9263130 REMOVABLE TAPE MARKINGS	6.000 STA	131.25000		787.50	
0570	2527-9263137 PAINTED SYMBOLS AND LEGENDS, WATERBORNE OR SOLVENT-BASED	28.000 EACH	84.00000		2,352.00	
0580	2527-9263180 PAVEMENT MARKINGS REMOVED	50.300 STA	21.00000		1,056.30	
0590	2527-9263190 SYMBOLS AND LEGENDS REMOVED	2.000 EACH	78.75000		157.50	
0600	2528-8445110 TRAFFIC CONTROL	LUMP	LUMP		22,338.75	
0610	2528-8445112 FLAGGERS	15.000 DAY	295.00000		4,425.00	
0620	2529-2242304 CD JOINT ASSEMBLY	10.000 EACH	262.50000		2,625.00	

Vendor No.: MA225
Contract ID No.: 77-3827-611
Primary Work Type: PCC PAVEMENT WIDENING
Primary County: POLK
Bid Order No.: 106
Letting Date: December 15, 2009
10:00 A.M.

Line No	Item Number Item Description	Item Quantity and Unit	Unit Price Dollars	Unit Price Cts	Bid Amount Dollars	Bid Amount Cts
0630	2529-5070110 PATCHES, FULL-DEPTH FINISH, BY AREA	411.000 SY	57.75000		23,735.25	
0640	2529-5070120 PATCHES, FULL-DEPTH FINISH, BY COUNT	30.000 EACH	525.00000		15,750.00	
0650	2533-4980005 MOBILIZATION	LUMP	LUMP		37,030.00	
0660	2554-0114012 WATER MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 12 IN.	373.000 LF	88.37000		32,962.01	
0670	2554-0203000 FITTINGS BY WEIGHT, DUCTILE IRON	3,098.000 LB	5.25000		16,264.50	
0680	2554-0207012 VALVE, GATE, DIP, 12 IN.	5.000 EACH	1,922.45000		9,612.25	
0690	2554-0210201 FIRE HYDRANT ASSEMBLY, WM-201	5.000 EACH	3,316.43000		16,582.15	
0700	2554-0212030 VALVE BOX REPLACEMENT	4.000 EACH	260.40000		1,041.60	
0710	2599-9999005 ('EACH' ITEM) REMOVE FIRE HYDRANT ASSEMBLY	5.000 EACH	260.40000		1,302.00	
0720	2599-9999005 ('EACH' ITEM) REMOVE VALVE, GATE, DIP, 12 INCH	5.000 EACH	260.40000		1,302.00	
0730	2599-9999005 ('EACH' ITEM) SPECIAL INTAKE, SW-510	1.000 EACH	6,281.52000		6,281.52	

Vendor No.: MA225
Contract ID No.: 77-3827-611
Primary Work Type: PCC PAVEMENT WIDENING
Primary County: POLK

Bid Order No.: 106
Letting Date: December 15, 2009
10:00 A.M.

Line No	Item Number Item Description	Item Quantity and Unit	Unit Price Dollars	Unit Price Cts	Bid Amount Dollars	Bid Amount Cts
0740	2599-9999005 ('EACH' ITEM) SPECIAL INTAKE, SW-545	7.000 EACH	3,116.51000		21,815.57	
0750	2599-9999009 ('LINEAR FEET' ITEM) DRAIN, CMP SLOTTED, 6 INCH WITH 6 INCH GRATE	9.000 LF	107.52000		967.68	
0760	2599-9999009 ('LINEAR FEET' ITEM) REMOVE WATER MAIN, PVC, 12 INCH	320.000 LF	4.94000		1,580.80	
0770	2601-2634100 MULCHING	2.400 ACRE	700.00000		1,680.00	
0780	2601-2636044 SEEDING AND FERTILIZING (URBAN)	0.400 ACRE	3,609.90000		1,443.96	
0790	2601-2639010 SODDING	703.000 SQ	33.60000		23,620.80	
0800	2601-2642120 STABILIZING CROP - SEEDING AND FERTILIZING (URBAN)	2.000 ACRE	383.25000		766.50	
0810	2601-2643110 WATERING FOR SOD, SPECIAL DITCH CONTROL, OR SLOPE PROTECTION	422.000 MGAL	60.00000		25,320.00	
0820	2602-0000020 SILT FENCE	3,000.000 LF	1.89000		5,670.00	
0830	2602-0000060 REMOVAL OF SILT FENCE	3,000.000 LF	0.21000		630.00	
0840	2602-0000090 CLEAN-OUT OF SILT FENCE	3,000.000 LF	0.53000		1,590.00	
	TOTAL BID				1,150,813.17	

Exercises – Contract

Use the Contract (ID: 77-3827-611) to answer the following questions

(1) Who is the Project Engineer on this project?_____

(2) What is the Contract Amount?_____

(3) Where on the Contract can this amount be found? _____

and _____

(4) What is the DBE Commitment?_____

(5) What is the Accounting ID? _____

(6) Where else can this number be found? _____

(7) Why would you need this number? _____

(8) Who is the Contractor?_____

(9) How many Addendums have been written for this project and what are the number(s)?_____

(10) What issue of the General Specifications is used for this project?_____

(11) What is the number of the wage rate that applies to this contract?_____

(12) What is the unit price for item 0110?_____

(13) What is the bid amount for item 0140?_____

(14) What is the item number and description for item 0050?_____

_____

(15) If the Contractor has removed 15.35 Stations of Curb, 2 Light Poles, 348 feet of Subdrain, and three Driveways that are 18' wide and 6' long what is the dollar amount of the work that has been completed? _____

(16) At this point, if we would consider only the above items, what is the percentage of work that has been completed? _____

(17) If the contractor has used two days and was only able to work until 10:30 a.m. on the third day, what would be the percentage of time that has been used so far? _____

Davis-Bacon Act

Named for its sponsors, Senator Davis of Pennsylvania and Representative Bacon of New York, the Davis-Bacon Act was enacted in 1931. It was a product of the Depression, in which labor surpluses made it possible for contractors from outside the community transporting their own low-wage labor to win competitively bid federal construction projects away from local firms and workers by undercutting local labor rates. Because federal law required acceptance of the lowest responsible bid, and material costs were relatively fixed, competition focused on wages and had the effect of depressing them. This situation was made more critical in the 1930's since the only construction being done in many areas was that contracted by the federal government.

By requiring every bidder to pay the "prevailing wage" for similar work, Congress hoped to eliminate wage competition on federal work, and to reduce distortion of local wage rates caused by federal project.

See IM 3.805, Attachment D, Section 2.24 DAVIS-BACON WAGE REQUIREMENTS, Project Engineer's Involvement,

A. Field Procedure page 2-25 to 27

See IM 3.805, Attachment D, Section 2.25 SUBCONTRACTS

Subcontractor Requests page 2-29

Contractor's Requirements page 2-29 to 30

See also IM 3.805, Attachment C, Subcontract Review and Authorization Process – Post Award flowchart

In summary:
All Subcontract Requests must be prepared using the ".CON" file and submitted electronically, except for new items added to a contract that will be completed by a subcontractor. In this instance, the SiteXchange software is not able to generate a subcontract request form because the software does not support new items added by contract modification. In this case, the request is submitted on hardcopy form of Subcontract Request (Form 830231) and submitted to the project engineer as an attachment to an email. A blank copy of the Subcontract Request (Form 830231) is provided in the Iowa DOT Construction Manual Appendix 2-16.1 and 2-16.2. An electronic version (PDF format) is available on the Iowa DOT's website https://forms.iowadot.gov/Default.aspx

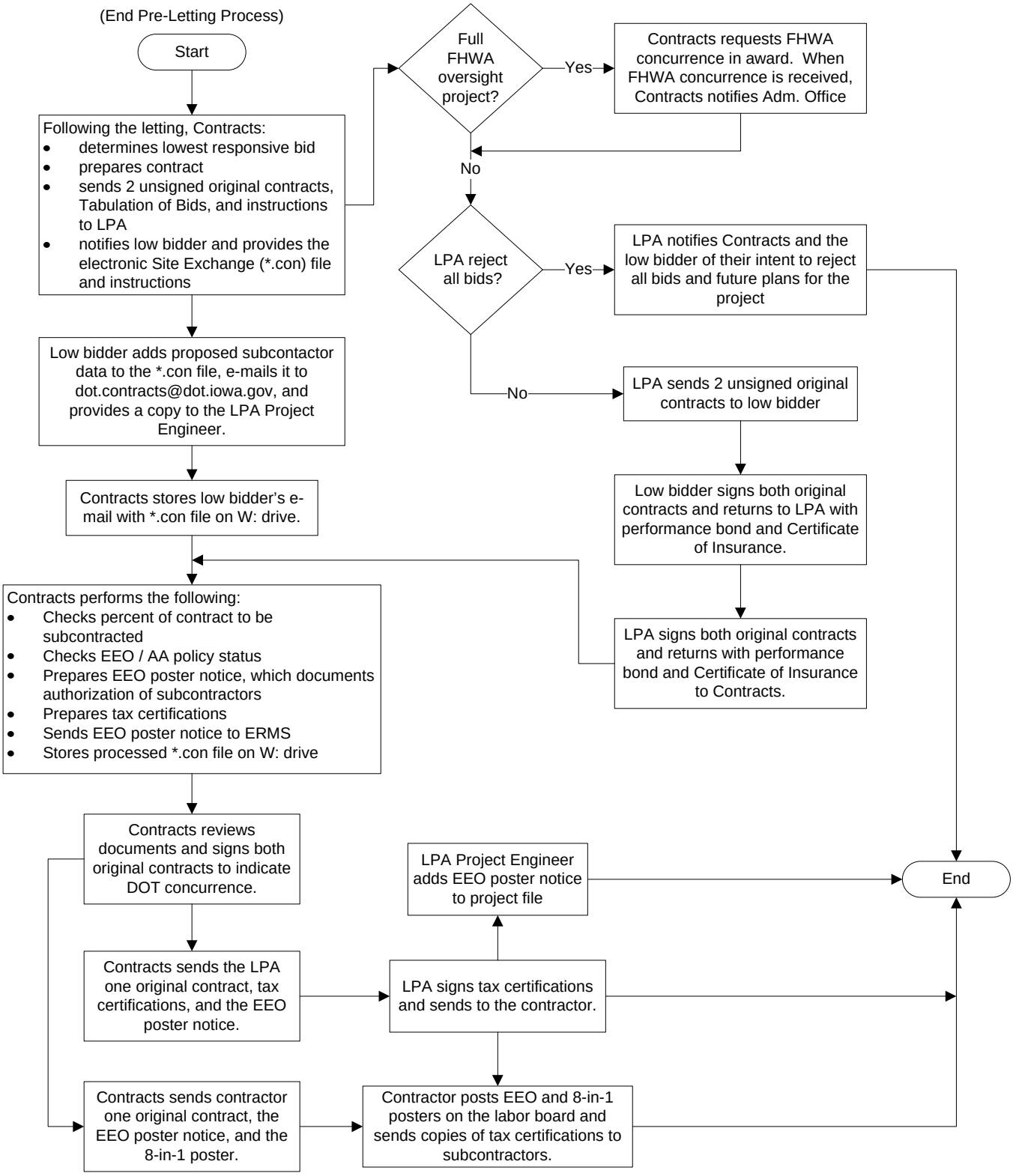
Project Engineer's Responsibility page 2-30 to 31

In Summary:
Revised .CON files
The project engineer is to check revised .CON files for accuracy (% subcontracted, current EEO/AA policy, items assigned to appropriate subcontractor) and forward the revised .CON file to the Office of Contracts as an email attachment. The email is sent to dot.contracts@dot.iowa.gov with a subject line of "Revised Con File".

New Items to be Completed by Subcontractor
If new items, added to a contract, will be completed by a subcontractor, the subcontract request must be submitted to the project engineer on hardcopy Subcontract Request (Form 830231 in Iowa DOT Construction Manual Appendix 2-16). The SiteXchange software is not able to generate a subcontract request form because the software does not support new items added by contract modification.

The project engineer is to check the Subcontract Request from for accuracy (% subcontracted and current EEO/AA policy) and forward the form to the Office of Contracts as an email attachment. The email is sent to dot.contracts@dot.iowa.gov

Iowa DOT Post-Letting Process



Abbreviations:
Admin. Office = Iowa DOT Administrating Office
Contracts = Office of Contracts, Iowa DOT
EEO / AA = Equal Employment Opportunity / Affirmative Action
ERMS = Electronic Records Management System
FHWA = Federal Highway Administration
LPA = Local Public Agency

SUBCONTRACT REQUEST AND APPROVAL

Contractor: MANATT'S, INC. County: POLK
Contractor Identification Number: MA225 Contract ID No.: 77-3827-611
(Number used on employers qrtly Federal Tax Return U.S. Treasury Dept. Form 941)
Letting Date: 12-15-09 Bid Order: 106

Number of subcontractors:
10

Total Contract Amount:
$1,150,813.17

Total Subcontractor Amount Entered:
746145.069500

Total Subcontractor % of Contract Entered:
64.836334

Iowa Department of Transportation

SUBCONTRACT REQUEST AND APPROVAL

Contractor: MANATT'S, INC. County: POLK
Contractor Identification Number: MA225 Contract ID No.: 77-3827-611
(Number used on employers qrtly Federal Tax Return U.S. Treasury Dept. Form 941)
Letting Date: 12-15-09 Bid Order: 106

This is to request that the following subcontractor be approved to perform the work for the items listed below. It is clearly understood by both the prime contractor and the subcontractor that all terms of the prime contract shall apply. It is also clearly understood that the subcontractor is not a third-party beneficiary of the contract between the prime contractor and the DOT. When this subcontractor is being used to satisfy an established DBE goal, the actual amount to be paid to the DBE is indicated in Column "A". The approval of the DOT is limited to the question of whether the subcontractor is a DBE and shall in no sense be construed as an endorsement of the DBE or an expression of opinion by the DOT on the subcontractor's ability to comply with the contract.

Subcontractor: AMERICAN FENCE CO. OF IOWA, Subcontractor Number: AM120
(Federal Tax Return U.S. Treasury Dept. Form 941)
Address: 1922 DELAWARE Division of Labor Registration: Y

DES MOINES, IA 50317-0000 Telephone No.: 515/265-6100

The following conditions apply if this is a Federal Aid Contract:
1. The prime contractor is responsible for compliance by the subcontractor with Required Contract Provisions for Federal Aid Contracts, Form FHWA-1273, dated as per contract, relative to projects financed under the Federal Highway Act relative to wages and payrolls, and all terms of the prime contract applicable to the work performed by the subcontractors. A copy of FHWA-1273 shall be attached to the subcontract.
2. The prime contractor is responsible for checking and submitting subcontractor's payrolls at the same time the prime contractor's payrolls are submitted when payment of predetermined wages is required.
3. I do hereby certify that in requesting approval to sublet a portion of this project we have taken affirmative action to seek out and consider disadvantaged business enterprises as potential subcontractors and/or material suppliers.

Line No.	Item Description	Quantity	Unit Price	"A"	$ Amount	Partial Item
0180	ORNAMENTAL METAL RAI	282.000	$63.53000	$0.00000	$17,915.46	N
Signature (Prime Contractor)			Totals:	$0.00 (a)	$17,915.46	

Contract Amount (b)	Pct. Sublet (a/b)*100
$1,150,813.17	1.55676

Article 1108.01 of the Standard Specifications requires the contractor to submit "Subcontract Request and Approval" to the Contracting Authority with the signed contract. Any additional subcontractor requests or changes after the contract has been signed should be submitted to the Project Engineer with the justification as required by the Iowa Code.

Contractor: MANATT'S, INC. County: POLK
Contractor Identification Number: MA225 Contract ID No.: 77-3827-611
(Number used on employers qrtly Federal Tax Return U.S. Treasury Dept. Form 941)
Letting Date: 12-15-09 Bid Order: 106

This is to request that the following subcontractor be approved to perform the work for the items listed below. It is clearly understood by both the prime contractor and the subcontractor that all terms of the prime contract shall apply. It is also clearly understood that the subcontractor is not a third-party beneficiary of the contract between the prime contractor and the DOT. When this subcontractor is being used to satisfy an established DBE goal, the actual amount to be paid to the DBE is indicated in Column "A". The approval of the DOT is limited to the question of whether the subcontractor is a DBE and shall in no sense be construed as an endorsement of the DBE or an expression of opinion by the DOT on the subcontractor's ability to comply with the contract.

Subcontractor: IOWA SIGNAL INC. Subcontractor Number: IO259
(Federal Tax Return U.S. Treasury Dept. Form 941)
Address: 7840 UNIVERSITY BLV Division of Labor Registration: Y

CLIVE, IA 50325 Telephone No.: 515/255-7748

The following conditions apply if this is a Federal Aid Contract:
1. The prime contractor is responsible for compliance by the subcontractor with Required Contract Provisions for Federal Aid Contracts, Form FHWA-1273, dated as per contract, relative to projects financed under the Federal Highway Act relative to wages and payrolls, and all terms of the prime contract applicable to the work performed by the subcontractors. A copy of FHWA-1273 shall be attached to the subcontract.
2. The prime contractor is responsible for checking and submitting subcontractor's payrolls at the same time the prime contractor's payrolls are submitted when payment of predetermined wages is required.
3. I do hereby certify that in requesting approval to sublet a portion of this project we have taken affirmative action to seek out and consider disadvantaged business enterprises as potential subcontractors and/or material suppliers.

Line No.	Item Description	Quantity	Unit Price	"A"	$ Amount	Partial Item
0120	RMVL OF CONC FOOTING	5.000	$262.50000	$0.00000	$1,312.50	N
0130	RMVL OF LIGHT POLE	2.000	$157.50000	$0.00000	$315.00	N
0140	REMVL	1.000	$2,100.000	$0.00000	$2,100.00	N
0480	ELECTRICAL CIRCUIT	110.000	$12.60000	$0.00000	$1,386.00	N
0490	HANDHOLE+JUNCTION BO	4.000	$1,050.000	$0.00000	$4,200.00	N
0500	RMV+REINSTALL LIGHT	3.000	$1,575.000	$0.00000	$4,725.00	N
0520	TRAFFIC SIGNALIZATIO	1.000	$17,553.90	$0.00000	$17,553.90	N

Iowa Department of Transportation

SUBCONTRACT REQUEST AND APPROVAL

Signature (Prime Contractor)	Totals:	$0.00 (a)	$31,592.40

Contract Amount (b)	Pct. Sublet (a/b)*100
$1,150,813.17	2.74522

Article 1108.01 of the Standard Specifications requires the contractor to submit "Subcontract Request and Approval" to the Contracting Authority with the signed contract. Any additional subcontractor requests or changes after the contract has been signed should be submitted to the Project Engineer with the justification as required by the Iowa Code.

Contractor: MANATT'S, INC. County: POLK
Contractor Identification Number: MA225 Contract ID No.: 77-3827-611
(Number used on employers qrtly Federal Tax Return U.S. Treasury Dept. Form 941)
Letting Date: 12-15-09 Bid Order: 106

This is to request that the following subcontractor be approved to perform the work for the items listed below. It is clearly understood by both the prime contractor and the subcontractor that all terms of the prime contract shall apply. It is also clearly understood that the subcontractor is not a third-party beneficiary of the contract between the prime contractor and the DOT. When this subcontractor is being used to satisfy an established DBE goal, the actual amount to be paid to the DBE is indicated in Column "A". The approval of the DOT is limited to the question of whether the subcontractor is a DBE and shall in no sense be construed as an endorsement of the DBE or an expression of opinion by the DOT on the subcontractor's ability to comply with the contract.

Subcontractor: ALDRICH LAND SURVEYS, INC. Subcontractor Number: AL115
(Federal Tax Return U.S. Treasury Dept. Form 941)
Address: 2425 240TH ST, DALL Division of Labor Registration: Y
P.O. BOX 80
GRIMES, IA 50111-0000 Telephone No.: 515/986-4922

The following conditions apply if this is a Federal Aid Contract:
1. The prime contractor is responsible for compliance by the subcontractor with Required Contract Provisions for Federal Aid Contracts, Form FHWA-1273, dated as per contract, relative to projects financed under the Federal Highway Act relative to wages and payrolls, and all terms of the prime contract applicable to the work performed by the subcontractors. A copy of FHWA-1273 shall be attached to the subcontract.
2. The prime contractor is responsible for checking and submitting subcontractor's payrolls at the same time the prime contractor's payrolls are submitted when payment of predetermined wages is required.
3. I do hereby certify that in requesting approval to sublet a portion of this project we have taken affirmative action to seek out and consider disadvantaged business enterprises as potential subcontractors and/or material suppliers.

Line No.	Item Description	Quantity	Unit Price	"A"	$ Amount	Partial Item
0530	CONSTRUCTION SURVEY	1.000	$7,211.400	$0.00000	$7,211.40	N
Signature (Prime Contractor)			Totals:	$0.00 (a)	$7,211.40	

Contract Amount (b)	Pct. Sublet (a/b)*100
$1,150,813.17	0.62663

Article 1108.01 of the Standard Specifications requires the contractor to submit "Subcontract Request and Approval" to the Contracting Authority with the signed contract. Any additional subcontractor requests or changes after the contract has been signed should be submitted to the Project Engineer with the justification as required by the Iowa Code.

Contractor: MANATT'S, INC. County: POLK
Contractor Identification Number: MA225 Contract ID No.: 77-3827-611
(Number used on employers qrtly Federal Tax Return U.S. Treasury Dept. Form 941)
Letting Date: 12-15-09 Bid Order: 106

This is to request that the following subcontractor be approved to perform the work for the items listed below. It is clearly understood by both the prime contractor and the subcontractor that all terms of the prime contract shall apply. It is also clearly understood that the subcontractor is not a third-party beneficiary of the contract between the prime contractor and the DOT. When this subcontractor is being used to satisfy an established DBE goal, the actual amount to be paid to the DBE is indicated in Column "A". The approval of the DOT is limited to the question of whether the subcontractor is a DBE and shall in no sense be construed as an endorsement of the DBE or an expression of opinion by the DOT on the subcontractor's ability to comply with the contract.

Subcontractor: J & K CONTRACTING Subcontractor Number: J.070
(Federal Tax Return U.S. Treasury Dept. Form 941)
Address: 1307 E LINCOLN WAY Division of Labor Registration: Y
P.O. BOX 1790
AMES, IA 50010 Telephone No.: 515/233-5500

The following conditions apply if this is a Federal Aid Contract:
1. The prime contractor is responsible for compliance by the subcontractor with Required Contract Provisions for Federal Aid Contracts, Form FHWA-1273, dated as per contract, relative to projects financed under the Federal Highway Act relative to wages and payrolls, and all terms of the prime contract applicable to the work performed by the subcontractors. A copy of FHWA-1273 shall be attached to the subcontract.
2. The prime contractor is responsible for checking and submitting subcontractor's payrolls at the same time the prime contractor's payrolls are submitted when payment of predetermined wages is required.
3. I do hereby certify that in requesting approval to sublet a portion of this project we have taken affirmative action to seek out and consider disadvantaged business enterprises as potential subcontractors and/or material suppliers.

Line No.	Item Description	Quantity	Unit Price	"A"	$ Amount	Partial Item
0010	EXCAVATION, CL 10, R	4,357.00	$9.87000	$0.00000	$43,003.59	N
0020	TOPSOIL, FURN+SPREAD	1,518.00	$35.70000	$0.00000	$54,192.60	N
0030	COMPACTION W/MOISTUR	2,575.00	$14.60000	$0.00000	$37,595.00	N
0040	SHLD FINISH, EARTH	57.100	$471.66000	$0.00000	$26,931.79	N
0050	RMVL OF CURB	40.150	$839.69000	$0.00000	$33,713.55	N
0150	GRANULAR BACKFILL	77.000	$16.70000	$0.00000	$1,285.90	N
0190	INTAKE, SW-510	1.000	$4,492.950	$0.00000	$4,492.95	N
0200	INTAKE, SW-545	3.000	$3,439.070	$0.00000	$10,317.21	N
0210	INTAKE, SW-545 MOD	5.000	$3,387.300	$0.00000	$16,936.50	N
0220	MANHOLE ADJUSTMENT,	2.000	$316.89000	$0.00000	$633.78	N
0230	INTAKE ADJUSTMENT, M	1.000	$542.85000	$0.00000	$542.85	N
0240	RMVL OF SUBDRAIN	576.000	$1.47000	$0.00000	$846.72	N
0250	SUBDRAIN, LONGITUDIN	480.000	$14.18000	$0.00000	$6,806.40	N
0260	SUBDRAIN, PVC, STD,	111.000	$11.55000	$0.00000	$1,282.05	N
0270	SUBDRAIN, PVC, STD,	252.000	$15.86000	$0.00000	$3,996.72	N
0280	SUBDRAIN OUTLET (RF-	33.000	$116.97000	$0.00000	$3,860.01	N
0290	SUBDRAIN RISER, 6"	6.000	$120.33000	$0.00000	$721.98	N
0300	STORM SWR G-MAIN,TRE	32.000	$47.15000	$0.00000	$1,508.80	N
0310	STORM SWR G-MAIN,TRE	16.000	$56.28000	$0.00000	$900.48	N

Iowa Department of Transportation

SUBCONTRACT REQUEST AND APPROVAL

0320	STORM SWR G-MAIN,TRE	14.000	$56.60000	$0.00000	$792.40 N
0330	STORM SWR G-MAIN,TRE	16.000	$76.86000	$0.00000	$1,229.76 N
0340	STORM SWR G-MAIN,TRE	8.000	$104.90000	$0.00000	$839.20 N
0350	STORM SWR G-MAIN,TRE	8.000	$120.44000	$0.00000	$963.52 N
0360	RMV STORM SWR PIPE L	62.000	$8.40000	$0.00000	$520.80 N
0370	RMVL OF PAV'T	1,551.00	$10.85000	$0.00000	$16,828.35 Y
0380	RMVL OF INTAKE+UTILI	9.000	$260.40000	$0.00000	$2,343.60 N
0390	RMVL OF SIDEWALK	713.000	$3.26000	$0.00000	$2,324.38 N
0460	RMVL OF PAVED DRIVEW	988.000	$8.74000	$0.00000	$8,635.12 N
0650	MOBILIZATION	1.000	$12,303.40	$0.00000	$12,303.40 Y
0660	WATER MAIN, TRENCHED	373.000	$88.37000	$0.00000	$32,962.01 N
0670	FITTINGS BY WEIGHT,	3,098.00	$5.25000	$0.00000	$16,264.50 N
0680	VALVE, GATE, DIP, 12	5.000	$1,922.450	$0.00000	$9,612.25 N
0690	FIRE HYDRANT ASSEMBL	5.000	$3,316.430	$0.00000	$16,582.15 N
0700	VALVE BOX REPLACEMEN	4.000	$260.40000	$0.00000	$1,041.60 N
0710	('EACH' ITEM) REMOVE	5.000	$260.40000	$0.00000	$1,302.00 N
0720	('EACH' ITEM) REMOVE	5.000	$260.40000	$0.00000	$1,302.00 N
0730	('EACH' ITEM) SPECIA	1.000	$6,281.520	$0.00000	$6,281.52 N
0740	('EACH' ITEM) SPECIA	7.000	$3,116.510	$0.00000	$21,815.57 N
0750	('LINEAR FEET' ITEM)	9.000	$107.52000	$0.00000	$967.68 N
0760	('LINEAR FEET' ITEM)	320.000	$4.94000	$0.00000	$1,580.80 N

Signature (Prime Contractor) Totals: $0.00 (a) $406,061.49

Contract Amount (b)	Pct. Sublet (a/b)*100
$1,150,813.17	35.2847

Article 1108.01 of the Standard Specifications requires the contractor to submit "Subcontract Request and Approval" to the Contracting Authority with the signed contract. Any additional subcontractor requests or changes after the contract has been signed should be submitted to the Project Engineer with the justification as required by the Iowa Code.

Contractor: MANATT'S, INC. County: POLK
Contractor Identification Number: MA225 Contract ID No.: 77-3827-611
(Number used on employers qrtly Federal Tax Return U.S. Treasury Dept. Form 941)
Letting Date: 12-15-09 Bid Order: 106

This is to request that the following subcontractor be approved to perform the work for the items listed below. It is clearly understood by both the prime contractor and the subcontractor that all terms of the prime contract shall apply. It is also clearly understood that the subcontractor is not a third-party beneficiary of the contract between the prime contractor and the DOT. When this subcontractor is being used to satisfy an established DBE goal, the actual amount to be paid to the DBE is indicated in Column "A". The approval of the DOT is limited to the question of whether the subcontractor is a DBE and shall in no sense be construed as an endorsement of the DBE or an expression of opinion by the DOT on the subcontractor's ability to comply with the contract.

Subcontractor: LEADER CONSTRUCTION COMPANY Subcontractor Number: LE020
(Federal Tax Return U.S. Treasury Dept. Form 941)
Address: 1540 THOMPSON AVE. Division of Labor Registration: Y

DES MOINES, IA 50316 Telephone No.: 515/988-8988

The following conditions apply if this is a Federal Aid Contract:
1. The prime contractor is responsible for compliance by the subcontractor with Required Contract Provisions for Federal Aid Contracts, Form FHWA-1273, dated as per contract, relative to projects financed under the Federal Highway Act relative to wages and payrolls, and all terms of the prime contract applicable to the work performed by the subcontractors. A copy of FHWA-1273 shall be attached to the subcontract.
2. The prime contractor is responsible for checking and submitting subcontractor's payrolls at the same time the prime contractor's payrolls are submitted when payment of predetermined wages is required.
3. I do hereby certify that in requesting approval to sublet a portion of this project we have taken affirmative action to seek out and consider disadvantaged business enterprises as potential subcontractors and/or material suppliers.

Line No.	Item Description	Quantity	Unit Price	"A"	$ Amount	Partial Item
0080	MEDIAN, DOWELLED PCC	1,236.85	$38.00000	$47,000.30	$47,000.30	Y

Signature (Prime Contractor) Totals: $47,000.30 (a) $47,000.30

Contract Amount (b)	Pct. Sublet (a/b)*100
$1,150,813.17	4.08409

Article 1108.01 of the Standard Specifications requires the contractor to submit "Subcontract Request and Approval" to the Contracting Authority with the signed contract. Any additional subcontractor requests or changes after the contract has been signed should be submitted to the Project Engineer with the justification as required by the Iowa Code.

Contractor: MANATT'S, INC. County: POLK
Contractor Identification Number: MA225 Contract ID No.: 77-3827-611
(Number used on employers qrtly Federal Tax Return U.S. Treasury Dept. Form 941)
Letting Date: 12-15-09 Bid Order: 106

This is to request that the following subcontractor be approved to perform the work for the items listed below. It is clearly understood by both the prime contractor and the subcontractor that all terms of the prime contract shall apply. It is also clearly understood that the subcontractor is not a third-party beneficiary of the contract between the prime contractor and the DOT. When this subcontractor is being used to satisfy an established DBE goal, the actual amount to be paid to the DBE is indicated in Column "A". The approval of the DOT is limited to the question of whether the subcontractor is a DBE and shall in no sense be construed as an endorsement of the DBE or an expression of opinion by the DOT on the subcontractor's ability to comply with the contract.

Subcontractor: ROADSAFE TRAFFIC SYSTEMS Subcontractor Number: RO032
(Federal Tax Return U.S. Treasury Dept. Form 941)
Address: 1805 NE 58TH AVE. Division of Labor Registration: Y

DES MOINES, IA 50313 Telephone No.: 515/284-5277

The following conditions apply if this is a Federal Aid Contract:
1. The prime contractor is responsible for compliance by the subcontractor with Required Contract Provisions for Federal Aid Contracts, Form FHWA-1273, dated as per contract, relative to projects financed under the Federal Highway Act relative to wages and payrolls, and all terms of the prime contract applicable to the work performed by the subcontractors. A copy of FHWA-1273 shall be attached to the subcontract.
2. The prime contractor is responsible for checking and submitting subcontractor's payrolls at the same time the prime contractor's payrolls are submitted when payment of predetermined wages is required.
3. I do hereby certify that in requesting approval to sublet a portion of this project we have taken affirmative action to seek out and consider disadvantaged business enterprises as potential subcontractors and/or material suppliers.

Line No.	Item Description	Quantity	Unit Price	"A"	$ Amount	Partial Item
0060	RELOCATION OF MAIL B	5.000	$76.50000	$0.00000	$382.50	N
0470	SAFETY CLOSURE	9.000	$157.50000	$0.00000	$1,417.50	N
0510	DELINEATOR	7.000	$52.50000	$0.00000	$367.50	N
0540	RAISED PAV'T MARKER	160.000	$2.63000	$0.00000	$420.80	N
0550	PAINTED PAV'T MARK,	80.100	$46.20000	$0.00000	$3,700.62	N
0560	REMOVABLE TAPE MARK	6.000	$131.25000	$0.00000	$787.50	N
0570	PAINTED SYMBOL+LEGEN	28.000	$84.00000	$0.00000	$2,352.00	N
0580	PAV'T MARK RMVD	50.300	$21.00000	$0.00000	$1,056.30	N
0590	SYMBOL+LEGEND RMVD	2.000	$78.75000	$0.00000	$157.50	N
0600	TRAFFIC CONTROL	1.000	$22,338.75	$0.00000	$22,338.75	N

Iowa Department of Transportation

SUBCONTRACT REQUEST AND APPROVAL

Signature (Prime Contractor)	Totals:	$0.00 (a)	$32,980.97

Contract Amount (b)	Pct. Sublet (a/b)*100
$1,150,813.17	2.86588

Article 1108.01 of the Standard Specifications requires the contractor to submit "Subcontract Request and Approval" to the Contracting Authority with the signed contract. Any additional subcontractor requests or changes after the contract has been signed should be submitted to the Project Engineer with the justification as required by the Iowa Code.

Contractor: MANATT'S, INC. County: POLK
Contractor Identification Number: MA225 Contract ID No.: 77-3827-611
(Number used on employers qrtly Federal Tax Return U.S. Treasury Dept. Form 941)
Letting Date: 12-15-09 Bid Order: 106

This is to request that the following subcontractor be approved to perform the work for the items listed below. It is clearly understood by both the prime contractor and the subcontractor that all terms of the prime contract shall apply. It is also clearly understood that the subcontractor is not a third-party beneficiary of the contract between the prime contractor and the DOT. When this subcontractor is being used to satisfy an established DBE goal, the actual amount to be paid to the DBE is indicated in Column "A". The approval of the DOT is limited to the question of whether the subcontractor is a DBE and shall in no sense be construed as an endorsement of the DBE or an expression of opinion by the DOT on the subcontractor's ability to comply with the contract.

Subcontractor: HURST, ROCKY CONSTRUCTION, I Subcontractor Number: HU138
(Federal Tax Return U.S. Treasury Dept. Form 941)
Address: 3126 TIMBER RIDGE L Division of Labor Registration: Y

TRURO, IA 50257 Telephone No.: 515/210-9093

The following conditions apply if this is a Federal Aid Contract:
1. The prime contractor is responsible for compliance by the subcontractor with Required Contract Provisions for Federal Aid Contracts, Form FHWA-1273, dated as per contract, relative to projects financed under the Federal Highway Act relative to wages and payrolls, and all terms of the prime contract applicable to the work performed by the subcontractors. A copy of FHWA-1273 shall be attached to the subcontract.
2. The prime contractor is responsible for checking and submitting subcontractor's payrolls at the same time the prime contractor's payrolls are submitted when payment of predetermined wages is required.
3. I do hereby certify that in requesting approval to sublet a portion of this project we have taken affirmative action to seek out and consider disadvantaged business enterprises as potential subcontractors and/or material suppliers.

Line No.	Item Description	Quantity	Unit Price	"A"	$ Amount	Partial Item
0400	SIDEWALK, PCC, 4"	533.000	$28.35000	$0.00000	$15,110.55	N
0410	SIDEWALK, PCC, 6"	44.000	$31.50000	$0.00000	$1,386.00	N
0420	DETECTABLE WARNING -	68.000	$34.65000	$0.00000	$2,356.20	N
0430	CURB+GUTTER, PCC	285.000	$47.25000	$0.00000	$13,466.25	N
0440	DRIVEWAY, PCC, 6"	112.000	$36.75000	$0.00000	$4,116.00	N
0620	CD JNT ASSEMBLY	10.000	$262.50000	$0.00000	$2,625.00	N
0630	PATCH, FULL-DEPTH FI	411.000	$57.75000	$0.00000	$23,735.25	N
0640	PATCH, FULL-DEPTH FI	30.000	$525.00000	$0.00000	$15,750.00	N

Iowa Department of Transportation

SUBCONTRACT REQUEST AND APPROVAL

Signature (Prime Contractor)	Totals:	$0.00 (a)	$78,545.25

Contract Amount (b)	Pct. Sublet (a/b)*100
$1,150,813.17	6.82519

Article 1108.01 of the Standard Specifications requires the contractor to submit "Subcontract Request and Approval" to the Contracting Authority with the signed contract. Any additional subcontractor requests or changes after the contract has been signed should be submitted to the Project Engineer with the justification as required by the Iowa Code.

Contractor: MANATT'S, INC. County: POLK
Contractor Identification Number: MA225 Contract ID No.: 77-3827-611
(Number used on employers qrtly Federal Tax Return U.S. Treasury Dept. Form 941)
Letting Date: 12-15-09 Bid Order: 106

This is to request that the following subcontractor be approved to perform the work for the items listed below. It is clearly understood by both the prime contractor and the subcontractor that all terms of the prime contract shall apply. It is also clearly understood that the subcontractor is not a third-party beneficiary of the contract between the prime contractor and the DOT. When this subcontractor is being used to satisfy an established DBE goal, the actual amount to be paid to the DBE is indicated in Column "A". The approval of the DOT is limited to the question of whether the subcontractor is a DBE and shall in no sense be construed as an endorsement of the DBE or an expression of opinion by the DOT on the subcontractor's ability to comply with the contract.

Subcontractor: TRUELSEN BLUMENTHAL LLC D/B/ Subcontractor Number: SO023
(Federal Tax Return U.S. Treasury Dept. Form 941)
Address: 3100 SE GRIMES BLVD Division of Labor Registration: Y
P.O. BOX 738
GRIMES, IA 50111 Telephone No.: 515/986-3527

The following conditions apply if this is a Federal Aid Contract:
1. The prime contractor is responsible for compliance by the subcontractor with Required Contract Provisions for Federal Aid Contracts, Form FHWA-1273, dated as per contract, relative to projects financed under the Federal Highway Act relative to wages and payrolls, and all terms of the prime contract applicable to the work performed by the subcontractors. A copy of FHWA-1273 shall be attached to the subcontract.
2. The prime contractor is responsible for checking and submitting subcontractor's payrolls at the same time the prime contractor's payrolls are submitted when payment of predetermined wages is required.
3. I do hereby certify that in requesting approval to sublet a portion of this project we have taken affirmative action to seek out and consider disadvantaged business enterprises as potential subcontractors and/or material suppliers.

Line No.	Item Description	Quantity	Unit Price	"A"	$ Amount	Partial Item
0770	MULCH	2.400	$700.00000	$0.00000	$1,680.00	N
0780	SEED+FERTILIZE (URBA	0.400	$3,609.900	$0.00000	$1,443.96	N
0790	SOD	703.000	$33.60000	$0.00000	$23,620.80	N
0800	STABILIZE CROP - SEE	2.000	$383.25000	$0.00000	$766.50	N
0810	WATER-SOD/SPEC DITCH	422.000	$60.00000	$0.00000	$25,320.00	N
0820	SILT FENCE	3,000.00	$1.89000	$0.00000	$5,670.00	N
0830	RMVL OF SILT FENCE	3,000.00	$0.21000	$0.00000	$630.00	N
0840	CLEAN-OUT OF SILT FE	3,000.00	$0.53000	$0.00000	$1,590.00	N

Iowa Department of Transportation

SUBCONTRACT REQUEST AND APPROVAL

Signature (Prime Contractor)	Totals:	$0.00 (a)	$60,721.26

Contract Amount (b)	Pct. Sublet (a/b)*100
$1,150,813.17	5.27637

Article 1108.01 of the Standard Specifications requires the contractor to submit "Subcontract Request and Approval" to the Contracting Authority with the signed contract. Any additional subcontractor requests or changes after the contract has been signed should be submitted to the Project Engineer with the justification as required by the Iowa Code.

Contractor: MANATT'S, INC. County: POLK
Contractor Identification Number: MA225 Contract ID No.: 77-3827-611
(Number used on employers qrtly Federal Tax Return U.S. Treasury Dept. Form 941)
Letting Date: 12-15-09 Bid Order: 106

This is to request that the following subcontractor be approved to perform the work for the items listed below. It is clearly understood by both the prime contractor and the subcontractor that all terms of the prime contract shall apply. It is also clearly understood that the subcontractor is not a third-party beneficiary of the contract between the prime contractor and the DOT. When this subcontractor is being used to satisfy an established DBE goal, the actual amount to be paid to the DBE is indicated in Column "A". The approval of the DOT is limited to the question of whether the subcontractor is a DBE and shall in no sense be construed as an endorsement of the DBE or an expression of opinion by the DOT on the subcontractor's ability to comply with the contract.

Subcontractor: ABSOLUTE CONCRETE CONSTRUCTI Subcontractor Number: AB112
(Federal Tax Return U.S. Treasury Dept. Form 941)
Address: 505 1ST AVENUE Division of Labor Registration: Y

SLATER, IA 50244 Telephone No.: 515/228-3030

The following conditions apply if this is a Federal Aid Contract:
1. The prime contractor is responsible for compliance by the subcontractor with Required Contract Provisions for Federal Aid Contracts, Form FHWA-1273, dated as per contract, relative to projects financed under the Federal Highway Act relative to wages and payrolls, and all terms of the prime contract applicable to the work performed by the subcontractors. A copy of FHWA-1273 shall be attached to the subcontract.
2. The prime contractor is responsible for checking and submitting subcontractor's payrolls at the same time the prime contractor's payrolls are submitted when payment of predetermined wages is required.
3. I do hereby certify that in requesting approval to sublet a portion of this project we have taken affirmative action to seek out and consider disadvantaged business enterprises as potential subcontractors and/or material suppliers.

Line No.	Item Description	Quantity	Unit Price	"A"	$ Amount	Partial Item
0160	STRUCT CONC (MISCELL	78.000	$630.00000	$0.00000	$49,140.00	N
0170	REINFORC STEEL, EPOX	6,732.00	$1.26000	$0.00000	$8,482.32	N
0650	MOBILIZATION	1.000	$1,500.000	$0.00000	$1,500.00	Y

Signature (Prime Contractor) Totals: $0.00 (a) $59,122.32

Contract Amount (b)	Pct. Sublet (a/b)*100
$1,150,813.17	5.13743

Article 1108.01 of the Standard Specifications requires the contractor to submit "Subcontract Request and Approval" to the Contracting Authority with the signed contract. Any additional subcontractor requests or changes after the contract has been signed should be submitted to the Project Engineer with the justification as required by the Iowa Code.

Contractor: MANATT'S, INC. County: POLK
Contractor Identification Number: MA225 Contract ID No.: 77-3827-611
(Number used on employers qrtly Federal Tax Return U.S. Treasury Dept. Form 941)
Letting Date: 12-15-09 Bid Order: 106

This is to request that the following subcontractor be approved to perform the work for the items listed below. It is clearly understood by both the prime contractor and the subcontractor that all terms of the prime contract shall apply. It is also clearly understood that the subcontractor is not a third-party beneficiary of the contract between the prime contractor and the DOT. When this subcontractor is being used to satisfy an established DBE goal, the actual amount to be paid to the DBE is indicated in Column "A". The approval of the DOT is limited to the question of whether the subcontractor is a DBE and shall in no sense be construed as an endorsement of the DBE or an expression of opinion by the DOT on the subcontractor's ability to comply with the contract.

Subcontractor: HENRIKSEN CONTRACTING, LLC. Subcontractor Number: HE410
(Federal Tax Return U.S. Treasury Dept. Form 941)
Address: 3754 SE CAPITOL CIR Division of Labor Registration: Y

GRIMES, IA 50111-4858 Telephone No.: 515/986-4243

The following conditions apply if this is a Federal Aid Contract:
1. The prime contractor is responsible for compliance by the subcontractor with Required Contract Provisions for Federal Aid Contracts, Form FHWA-1273, dated as per contract, relative to projects financed under the Federal Highway Act relative to wages and payrolls, and all terms of the prime contract applicable to the work performed by the subcontractors. A copy of FHWA-1273 shall be attached to the subcontract.
2. The prime contractor is responsible for checking and submitting subcontractor's payrolls at the same time the prime contractor's payrolls are submitted when payment of predetermined wages is required.
3. I do hereby certify that in requesting approval to sublet a portion of this project we have taken affirmative action to seek out and consider disadvantaged business enterprises as potential subcontractors and/or material suppliers.

Line No.	Item Description	Quantity	Unit Price	"A"	$ Amount	Partial Item
0370	RMVL OF PAV'T	1,551.00	$3.22000	$0.00000	$4,994.22	Y

Signature (Prime Contractor) Totals: $0.00 (a) $4,994.22

Contract Amount (b)	Pct. Sublet (a/b)*100
$1,150,813.17	0.43397

Article 1108.01 of the Standard Specifications requires the contractor to submit "Subcontract Request and Approval" to the Contracting Authority with the signed contract. Any additional subcontractor requests or changes after the contract has been signed should be submitted to the Project Engineer with the justification as required by the Iowa Code.

Iowa Department of Transportation
800 Lincoln Way, Ames, Iowa 50010
Phone: 515-239-1422
Fax: 515-239-1325

December 21, 2009

Project Engineer
Howard R. Green Co.
5525 Merle Hay Road Suite 200
Des Moines, IA 50131

Dear Project Engineer:

Enclosed is the DBE Commitment Report, which has replaced the 102115 Form (DBE Commitment), for the **December 15, 2009** Letting.

Please inform the EEO Section, Office of Contracts the date and time of the Preconstruction Meeting. Additionally; we would like a copy of the meeting minutes and sequence of activities, also please call us when you expect the DBE subcontractor or trucker to be on the project.

Please contact this office with any questions or problems you may have.

Sincerely,

Roger E Bierbaum

Roger E. Bierbaum, P.E.
Contracts Engineer

REB:mmm
Enclosure

December 15, 2009 Letting -- DBE Commitments

Bid Order: 106 County: POLK Contract ID: 77-3827-611

Prime Contractor	DBE Contractor	Commitment
MANATT'S, INC.	LEADER CONSTRUCTION COMPANY	$47,000.00

See IM 3.805, Attachment D, Section 2.25 SUBCONTRACTS,

Subcontractor - Disadvantaged Business Enterprise (DBE),

A. Contract Award page 2-32 to 33

B. Subcontract Requests page 2-33

1. Temporary Employees and Leased Equipment page 2-33

2. Commercially Useful Function page 2-33 to 34

Iowa Department of Transportation
Form 517014 (09-10)

DBE Commercially Useful Function Checklist

Project Number:

Prime Contractor:

DBE Sub-Contractor:

Work Type:

Type of Work Observed:

Does DBE on-site representative effectively manage the work being performed? ☐ Yes ☐ No

If No, explain:

Does DBE appear to have control over methods of work and equipment needed for their contract items? ☐ Yes ☐ No

If No, explain:

To your knowledge, has anyone other than the DBE's personnel worked on the sub-contracted items? ☐ Yes ☐ No

If Yes, explain:

Has the DBE used their own, leased, or rented equipment for these contract items? ☐ Yes ☐ No

If No, explain:

Has the DBE used any of the prime contractor's people or equipment? ☐ Yes ☐ No

If Yes, explain:

Does it appear that someone other than the DBE is furnishing material for the items the DBE is responsible for? ☐ Yes ☐ No

If Yes, explain:

Reviewer: Date:

Poster Board Inspection

Inspection staff are to review contractor's bulletin board for required notices/posters. If there are issues that need to be addressed (such as the appropriate notices/posters are not displayed on the project site), issue a non-compliance notice to the Contractor and suspend progress payments. If corrections are not made work may be suspended for continued noncompliance.

See IM 3.805, Attachment D,

Section 2.22 EQUAL EMPLOYMENT OPPORTUNITY (EEO)

Contractor's Responsibility

1. Postings – page 2-12
2. Reports and Records – page 2-12 & 13

Project Engineer's Responsibility

2. **Review of Project Bulletin Boards** page 2-13
3. **"EEO Project Site Inspection/Wage Rate Report"** page 2-13 & 14

IOWA DOT
Form 650170 (01-14)

PROJECT ENGINEER'S
EEO PROJECT SITE INSPECTION/WAGE RATE REPORT

An inspection was made on _____ in order to determine compliance with the posters/non-segregated facilities/labor standards provisions on the referenced project.

Contractor/Subcontractor _____

Project Number _____ **County** _____

Project Engineer _____

1. Which posters are properly displayed? ***(Please check)***

- ☐ **Contractor's EEO/AA and Training Notice - (furnished by Office of Contracts)**
- ☐ **Form EEOC-P/E-1 EEO is the Law**
- ☐ **Form EEOC-P/E-1 EEO is the Law (Spanish version)***
- ☐ **FHWA 1022 - Notice conceringFalse Statements and Records**
- ☐ **WH-1321 - Employee Rights Under the Davis-Bacon Act**
- ☐ **WH-1321SPA - Employee Rights Under the Davis-Bacon Act (Spanish version)***
- ☐ **Current Iowa Predetermined Wage Rate Decision**
- ☐ **70-8025 - Job Safety and Health**
- ☐ **WHD-1420 - Family and Medical Leave Act**
- ☐ **WHD-1462 - Employee Polygraph Protection Act**

* Although not required, it is strongly recommended that these two posters be posted whenever the companies involved with this project either employ or anticipate employing persons who speak Spanish.

If bulletin board does not comply with Article 1102.19.E.5, the following actions will be taken:

- **Project Inspector will issue a notice to contractor for non-compliance and**
- **Progress payments will be suspended until all postings are properly displayed on bulletin board.**

2. Are employee facilities provided on a non-segregated basis? ☐ **YES** ☐ **NO**

3. Payroll Transcript No. used for the Review _____ **for week ending** _____

4. Names of the employees interviewed

5. Comments

_____ Name and Title of Reviewer (please print)

_____ Signature of Reviewer

Distribution: Project File

County:
Contract ID:
Date of Letting:
Wage Decision:

To: Employees and Applicants

Equal Employment Opportunity (EEO) and Affirmative Action (AA) requirements apply to this contract. It is the policy of the contractors working on this contract to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age, or disability. Such action shall include: 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, pre-apprenticeship, and/or on-the-job training.

You should contact the Office of Contracts of the Iowa Department of Transportation at 515-239-1414 to register your complaint if you feel that you are being discriminated against because of your race, religion, sex, color, national origin, age, or disability.

Individuals seeking employment may contact the following contractors who will be working on this contract about employment opportunities and information about each company's training program.

Contractor	City	State	Telephone

To: Employees and Applicants

Equal Employment Opportunity (EEO) and Affirmative Action (AA) requirements apply to this contract. It is the policy of the contractors working on this contract to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age, or disability. Such action shall include: 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, pre-apprenticeship, and/or on-the-job training.

You should contact the Office of Contracts of the Iowa Department of Transportation at 515-239-1414 to register your complaint if you feel that you are being discriminated against because of your race, religion, sex, color, national origin, age, or disability.

Individuals seeking employment may contact the following contractors who will be working on this contract about employment opportunities and information about each company's training program.

Contractor	City	State	Telephone
ABSOLUTE CONCRETE CONSTRUCTION, INC	SLATER	IA	515/228-3030
ALDRICH LAND SURVEYS, INC.	GRIMES	IA	515/986-4922
AMERICAN FENCE CO. OF IOWA, INC.	DES MOINES	IA	515/265-6100
HENRIKSEN CONTRACTING, LLC.	GRIMES	IA	515/986-4243
HURST, ROCKY CONSTRUCTION, INC.	TRURO	IA	515/210-9093
IOWA SIGNAL INC.	CLIVE	IA	515/255-7748
J & K CONTRACTING	AMES	IA	515/233-5500
LEADER CONSTRUCTION COMPANY	DES MOINES	IA	515/988-8988
MANATT'S, INC.	BROOKLYN	IA	641/522-9206
ROADSAFE TRAFFIC SYSTEMS, INC.	DES MOINES	IA	515/284-5277
TRUELSEN BLUMENTHAL LLC D/B/A SOIL-	GRIMES	IA	515/986-3527

Equal Employment Opportunity is THE LAW

Private Employers, State and Local Governments, Educational Institutions, Employment Agencies and Labor Organizations

Applicants to and employees of most private employers, state and local governments, educational institutions, employment agencies and labor organizations are protected under Federal law from discrimination on the following bases:

RACE, COLOR, RELIGION, SEX, NATIONAL ORIGIN
Title VII of the Civil Rights Act of 1964, as amended, protects applicants and employees from discrimination in hiring, promotion, discharge, pay, fringe benefits, job training, classification, referral, and other aspects of employment, on the basis of race, color, religion, sex (including pregnancy), or national origin. Religious discrimination includes failing to reasonably accommodate an employee's religious practices where the accommodation does not impose undue hardship.

DISABILITY
Title I and Title V of the Americans with Disabilities Act of 1990, as amended, protect qualified individuals from discrimination on the basis of disability in hiring, promotion, discharge, pay, fringe benefits, job training, classification, referral, and other aspects of employment. Disability discrimination includes not making reasonable accommodation to the known physical or mental limitations of an otherwise qualified individual with a disability who is an applicant or employee, barring undue hardship.

AGE
The Age Discrimination in Employment Act of 1967, as amended, protects applicants and employees 40 years of age or older from discrimination based on age in hiring, promotion, discharge, pay, fringe benefits, job training, classification, referral, and other aspects of employment.

SEX (WAGES)
In addition to sex discrimination prohibited by Title VII of the Civil Rights Act, as amended, the Equal Pay Act of 1963, as amended, prohibits sex discrimination in the payment of wages to women and men performing substantially equal work, in jobs that require equal skill, effort, and responsibility, under similar working conditions, in the same establishment.

GENETICS
Title II of the Genetic Information Nondiscrimination Act of 2008 protects applicants and employees from discrimination based on genetic information in hiring, promotion, discharge, pay, fringe benefits, job training, classification, referral, and other aspects of employment. GINA also restricts employers' acquisition of genetic information and strictly limits disclosure of genetic information. Genetic information includes information about genetic tests of applicants, employees, or their family members; the manifestation of diseases or disorders in family members (family medical history); and requests for or receipt of genetic services by applicants, employees, or their family members.

RETALIATION
All of these Federal laws prohibit covered entities from retaliating against a person who files a charge of discrimination, participates in a discrimination proceeding, or otherwise opposes an unlawful employment practice.

WHAT TO DO IF YOU BELIEVE DISCRIMINATION HAS OCCURRED
There are strict time limits for filing charges of employment discrimination. To preserve the ability of EEOC to act on your behalf and to protect your right to file a private lawsuit, should you ultimately need to, you should contact EEOC promptly when discrimination is suspected:
The U.S. Equal Employment Opportunity Commission (EEOC), 1-800-669-4000 (toll-free) or 1-800-669-6820 (toll-free TTY number for individuals with hearing impairments). EEOC field office information is available at www.eeoc.gov or in most telephone directories in the U.S. Government or Federal Government section. Additional information about EEOC, including information about charge filing, is available at www.eeoc.gov.

Employers Holding Federal Contracts or Subcontracts

Applicants to and employees of companies with a Federal government contract or subcontract are protected under Federal law from discrimination on the following bases:

RACE, COLOR, RELIGION, SEX, NATIONAL ORIGIN
Executive Order 11246, as amended, prohibits job discrimination on the basis of race, color, religion, sex or national origin, and requires affirmative action to ensure equality of opportunity in all aspects of employment.

INDIVIDUALS WITH DISABILITIES
Section 503 of the Rehabilitation Act of 1973, as amended, protects qualified individuals from discrimination on the basis of disability in hiring, promotion, discharge, pay, fringe benefits, job training, classification, referral, and other aspects of employment. Disability discrimination includes not making reasonable accommodation to the known physical or mental limitations of an otherwise qualified individual with a disability who is an applicant or employee, barring undue hardship. Section 503 also requires that Federal contractors take affirmative action to employ and advance in employment qualified individuals with disabilities at all levels of employment, including the executive level.

DISABLED, RECENTLY SEPARATED, OTHER PROTECTED, AND ARMED FORCES SERVICE MEDAL VETERANS
The Vietnam Era Veterans' Readjustment Assistance Act of 1974, as amended, 38 U.S.C. 4212, prohibits job discrimination and requires affirmative action to employ and advance in employment disabled veterans, recently separated veterans (within three years of discharge or release from active duty), other protected veterans (veterans who served during a war or in a campaign or expedition for which a campaign badge has been authorized), and Armed Forces service medal veterans (veterans who, while on active duty, participated in a U.S. military operation for which an Armed Forces service medal was awarded).

RETALIATION
Retaliation is prohibited against a person who files a complaint of discrimination, participates in an OFCCP proceeding, or otherwise opposes discrimination under these Federal laws.

Any person who believes a contractor has violated its nondiscrimination or affirmative action obligations under the authorities above should contact immediately:

The Office of Federal Contract Compliance Programs (OFCCP), U.S. Department of Labor, 200 Constitution Avenue, N.W., Washington, D.C. 20210, 1-800-397-6251 (toll-free) or (202) 693-1337 (TTY). OFCCP may also be contacted by e-mail at OFCCP-Public@dol.gov, or by calling an OFCCP regional or district office, listed in most telephone directories under U.S. Government, Department of Labor.

Programs or Activities Receiving Federal Financial Assistance

RACE, COLOR, NATIONAL ORIGIN, SEX
In addition to the protections of Title VII of the Civil Rights Act of 1964, as amended, Title VI of the Civil Rights Act of 1964, as amended, prohibits discrimination on the basis of race, color or national origin in programs or activities receiving Federal financial assistance. Employment discrimination is covered by Title VI if the primary objective of the financial assistance is provision of employment, or where employment discrimination causes or may cause discrimination in providing services under such programs. Title IX of the Education Amendments of 1972 prohibits employment discrimination on the basis of sex in educational programs or activities which receive Federal financial assistance.

INDIVIDUALS WITH DISABILITIES
Section 504 of the Rehabilitation Act of 1973, as amended, prohibits employment discrimination on the basis of disability in any program or activity which receives Federal financial assistance. Discrimination is prohibited in all aspects of employment against persons with disabilities who, with or without reasonable accommodation, can perform the essential functions of the job.

If you believe you have been discriminated against in a program of any institution which receives Federal financial assistance, you should immediately contact the Federal agency providing such assistance.

La igualdad de oportunidades de empleo es

LA LEY

Empleadores privados, gobiernos locales y estatales, instituciones educativas, agencias de empleo y organizaciones de trabajo

Los postulantes y empleados de la mayoría de los empleadores privados, los gobiernos locales y estatales, las instituciones educativas, las agencias de empleo y las organizaciones de trabajo están protegidos por la ley federal contra la discriminación en función de:

RAZA, COLOR, RELIGIÓN, SEXO, PROCEDENCIA
El Título VII de la Ley de Derechos Civiles (Civil Rights Act) de 1964, con sus modificaciones, protege a los postulantes y a los empleados contra la discriminación en lo que respecta a la contratación, los ascensos, los despidos, los pagos, las compensaciones adicionales, la capacitación laboral, la clasificación, las referencias y los demás aspectos del empleo, en función de raza, color, religión, sexo (incluidas las embarazadas) o procedencia. La discriminación religiosa se refiere a la falta de adaptación razonable a las prácticas religiosas de un empleado, siempre y cuando dicha adaptación no provoque una dificultad económica desmedida para la compañía.

DISCAPACIDAD
Los Títulos I y V de la Ley de Estadounidenses con Discapacidades (Americans with Disabilities Act) de 1990, con sus modificaciones, protege a las personas idóneas contra la discriminación por discapacidad en lo que respecta a la contratación, los ascensos, los despidos, los pagos, las compensaciones adicionales, la capacitación laboral, la clasificación, las referencias y los demás aspectos del empleo. La discriminación por discapacidad se refiere a la falta de adaptaciones razonables para las limitaciones físicas o mentales de una persona idónea que tiene una discapacidad y que es un postulante o un empleado, salvo que dichas adaptaciones provoquen una dificultad económica desmedida para la compañía.

EDAD
La Ley contra la Discriminación Laboral por Edad (Age Discrimination in Employment Act) de 1967, con sus modificaciones, protege a los postulantes y empleados de 40 años o más contra la discriminación por cuestiones de edad en lo que respecta a la contratación, los ascensos, los despidos, los pagos, las compensaciones adicionales, la capacitación laboral, la clasificación, las referencias y los demás aspectos del empleo.

SEXO (SALARIOS)
Además de lo establecido en el Título VII de la Ley de Derechos Civiles, con sus modificaciones, la Ley de Igualdad en las Remuneraciones (Equal Pay Act) de 1963, con sus modificaciones, también prohíbe la discriminación sexual en el pago de los salarios a las mujeres y los hombres que realicen básicamente el mismo trabajo, en empleos que requieran las mismas habilidades, esfuerzo y responsabilidad, en condiciones laborales similares, en el mismo establecimiento.

GENÉTICA
El Título II de la Ley de No Discriminación por Información Genética (Genetic Information Nondiscrimination Act, GINA) de 2008 protege a los postulantes y empleados contra la discriminación basada en la información genética en lo que respecta a la contratación, los ascensos, los despidos, los pagos, las compensaciones adicionales, la capacitación laboral, la clasificación, las referencias y los demás aspectos del empleo. La GINA también limita la adquisición de información genética por parte de los empleadores y condiciona de manera estricta su divulgación. La información genética incluye las pruebas genéticas de los postulantes, empleados o integrantes de sus familias, la manifestación de enfermedades o trastornos de los miembros de la familia (historia médica familiar) y las solicitudes o la recepción de servicios genéticos por parte de los postulantes, empleados o integrantes de sus familias.

REPRESALIAS
Todas estas leyes federales prohíben a las entidades cubiertas que tomen represalias en contra de una persona que presenta una cargo por discriminación, participa en un procedimiento por discriminación o que, de algún otro modo, se opone a una práctica laboral ilícita.

QUÉ DEBE HACER SI CONSIDERA QUE ES VÍCTIMA DE LA DISCRIMINACIÓN
Existen plazos estrictos para presentar cargos por discriminación laboral. A fin de preservar la capacidad de la Comisión para la Igualdad de Oportunidades en el Empleo (Equal Employment Opportunity Commission, EEOC) de actuar en representación suya y proteger su derecho a iniciar una demanda privada si fuese necesario en última instancia, debe comunicarse con la EEOC apenas sospeche que se produjo un hecho de discriminación: Comisión para la Igualdad de Oportunidades en el Empleo de los Estados Unidos, 1-800-669-4000 (línea gratuita) o 1-800-669-6820 (línea gratuita TTY para las personas con problemas auditivos). Puede encontrar información sobre las sucursales de la EEOC en www.eeoc.gov o en la mayoría de las guías telefónicas en la sección Gobierno Federal o Gobierno de los Estados Unidos. También puede obtener información adicional sobre la EEOC, incluso cómo presentar un cargo, en www.eeoc.gov.

Empleadores que tengan contratos o subcontratos con el gobierno federal

Los postulantes y empleados de las compañías que tengan un contrato o subcontrato con el gobierno federal están protegidos por la ley federal contra la discriminación en función de:

RAZA, COLOR, RELIGIÓN, SEXO, PROCEDENCIA
El Decreto Ejecutivo 11246, con sus modificaciones, prohíbe la discriminación en el trabajo en función de raza, color, religión, sexo o procedencia y exige que se implementen acciones afirmativas para garantizar la igualdad de oportunidades en todos los aspectos laborales.

PERSONAS CON DISCAPACIDADES
La Sección 503 de la Ley de Rehabilitación *(Rehabilitation Act)* de 1973, con sus modificaciones, protege a las personas idóneas contra la discriminación por discapacidad en lo que respecta a la contratación, los ascensos, los despidos, los pagos, las compensaciones adicionales, la capacitación laboral, la clasificación, las referencias y los demás aspectos del empleo. La discriminación por discapacidad se refiere a la falta de adaptaciones razonables para las limitaciones físicas o mentales de una persona idónea que tiene una discapacidad y que es un postulante o un empleado, salvo que dichas adaptaciones provoquen una dificultad económica desmedida para la compañía. La Sección 503 también exige que los contratistas federales implementen acciones afirmativas para emplear y avanzar en el empleo de personas idóneas con discapacidades en todos los niveles laborales, incluido el nivel ejecutivo.

VETERANOS DISCAPACITADOS, RECIÉN RETIRADOS, BAJO PROTECCIÓN Y CON MEDALLA POR SERVICIO A LAS FUERZAS ARMADAS
La Ley de Asistencia a la Readaptación de Veteranos de Vietnam *(Vietnam Era Veterans' Readjustment Assistance Act)* de 1974, con sus modificaciones, 38 U.S.C. 4212, prohíbe la discriminación laboral y exige que se implementen acciones afirmativas para emplear y avanzar en el empleo de los veteranos discapacitados, recién retirados (en el plazo de los tres años posteriores a la baja o al cese del servicio activo), otros veteranos bajo protección (los veteranos que prestaron servicio durante una guerra o en una campaña o expedición para la cual se les autorizó una insignia de campaña) y los veteranos con medalla por servicio a las Fuerzas Armadas (aquellos que durante el servicio activo, participaron en una operación militar de los Estados Unidos por la cual se los reconoció con una medalla por servicio a las Fuerzas Armadas).

REPRESALIAS
Quedan prohibidas las represalias contra una persona que presenta una demanda por discriminación, participa en un procedimiento de la Oficina de Programas de Cumplimiento de Contratos Federales (*Office of Federal Contract Compliance Programs*, OFCCP) o que se oponga, de algún otro modo, a la discriminación según estas leyes federales.

Toda persona que considere que un contratista violó sus obligaciones de acción afirmativa o no discriminación según las autoridades mencionadas anteriormente debe comunicarse de inmediato con:

La Oficina de Programas de Cumplimiento de Contratos Federales (OFCCP), Departamento de Trabajo de los Estados Unidos, 200 Constitution Avenue, N.W., Washington, D.C. 20210, teléfono 1-800-397-6251 (línea gratuita) o (202) 693-1337 (línea TTY). También puede enviar un mensaje de correo electrónico a la OFCCP (OFCCP-Public@dol.gov) o bien, llamar a una de sus oficinas regionales o del distrito, las cuales aparecen en la mayoría de las guías telefónicas en la sección Gobierno de los Estados Unidos, Departamento de Trabajo.

Programas o actividades que reciben asistencia financiera federal

RAZA, COLOR, PROCEDENCIA, SEXO
Además de las protecciones establecidas en el Título VII de la Ley de Derechos Civiles de 1964 y sus modificaciones, el Título VI de dicha ley, con sus modificaciones, prohíbe la discriminación por raza, color o procedencia en los programas o las actividades que reciban asistencia financiera federal. La discriminación laboral está cubierta por el Título VI si el objetivo principal de la asistencia financiera es brindar empleo, o si la discriminación laboral provoca o puede provocar discriminación cuando se proporcionan los servicios de dichos programas. El Título IX de las Reformas Educativas de 1972 prohíbe la discriminación laboral según el sexo en los programas o las actividades educativas que reciben asistencia financiera federal.

PERSONAS CON DISCAPACIDADES
La Sección 504 de la Ley de Rehabilitación de 1973, con sus modificaciones, prohíbe la discriminación laboral por discapacidad en cualquier programa o actividad que reciba asistencia financiera federal. Queda prohibida la discriminación en todos los aspectos laborales contra las personas discapacitadas que, con o sin adaptaciones razonables, pueden desempeñar las funciones esenciales del trabajo.

Si cree que ha sido víctima de discriminación en algún programa de una institución que reciba asistencia financiera federal, debe comunicarse de inmediato con la agencia federal que brinda dicha asistencia.

EMPLOYEE RIGHTS AND RESPONSIBILITIES UNDER THE FAMILY AND MEDICAL LEAVE ACT

Basic Leave Entitlement

FMLA requires covered employers to provide up to 12 weeks of unpaid, job-protected leave to eligible employees for the following reasons:

- for incapacity due to pregnancy, prenatal medical care or child birth;
- to care for the employee's child after birth, or placement for adoption or foster care;
- to care for the employee's spouse, son, daughter or parent, who has a serious health condition; or
- for a serious health condition that makes the employee unable to perform the employee's job.

Military Family Leave Entitlements

Eligible employees whose spouse, son, daughter or parent is on covered active duty or call to covered active duty status may use their 12-week leave entitlement to address certain qualifying exigencies. Qualifying exigencies may include attending certain military events, arranging for alternative childcare, addressing certain financial and legal arrangements, attending certain counseling sessions, and attending post-deployment reintegration briefings.

FMLA also includes a special leave entitlement that permits eligible employees to take up to 26 weeks of leave to care for a covered servicemember during a single 12-month period. A covered servicemember is: (1) a current member of the Armed Forces, including a member of the National Guard or Reserves, who is undergoing medical treatment, recuperation or therapy, is otherwise in outpatient status, or is otherwise on the temporary disability retired list, for a serious injury or illness*; or (2) a veteran who was discharged or released under conditions other than dishonorable at any time during the five-year period prior to the first date the eligible employee takes FMLA leave to care for the covered veteran, and who is undergoing medical treatment, recuperation, or therapy for a serious injury or illness.*

***The FMLA definitions of "serious injury or illness" for current servicemembers and veterans are distinct from the FMLA definition of "serious health condition".**

Benefits and Protections

During FMLA leave, the employer must maintain the employee's health coverage under any "group health plan" on the same terms as if the employee had continued to work. Upon return from FMLA leave, most employees must be restored to their original or equivalent positions with equivalent pay, benefits, and other employment terms.

Use of FMLA leave cannot result in the loss of any employment benefit that accrued prior to the start of an employee's leave.

Eligibility Requirements

Employees are eligible if they have worked for a covered employer for at least 12 months, have 1,250 hours of service in the previous 12 months*, and if at least 50 employees are employed by the employer within 75 miles.

***Special hours of service eligibility requirements apply to airline flight crew employees.**

Definition of Serious Health Condition

A serious health condition is an illness, injury, impairment, or physical or mental condition that involves either an overnight stay in a medical care facility, or continuing treatment by a health care provider for a condition that either prevents the employee from performing the functions of the employee's job, or prevents the qualified family member from participating in school or other daily activities.

Subject to certain conditions, the continuing treatment requirement may be met by a period of incapacity of more than 3 consecutive calendar days combined with at least two visits to a health care provider or one visit and a regimen of continuing treatment, or incapacity due to pregnancy, or incapacity due to a chronic condition. Other conditions may meet the definition of continuing treatment.

Use of Leave

An employee does not need to use this leave entitlement in one block. Leave can be taken intermittently or on a reduced leave schedule when medically necessary. Employees must make reasonable efforts to schedule leave for planned medical treatment so as not to unduly disrupt the employer's operations. Leave due to qualifying exigencies may also be taken on an intermittent basis.

Substitution of Paid Leave for Unpaid Leave

Employees may choose or employers may require use of accrued paid leave while taking FMLA leave. In order to use paid leave for FMLA leave, employees must comply with the employer's normal paid leave policies.

Employee Responsibilities

Employees must provide 30 days advance notice of the need to take FMLA leave when the need is foreseeable. When 30 days notice is not possible, the employee must provide notice as soon as practicable and generally must comply with an employer's normal call-in procedures.

Employees must provide sufficient information for the employer to determine if the leave may qualify for FMLA protection and the anticipated timing and duration of the leave. Sufficient information may include that the employee is unable to perform job functions, the family member is unable to perform daily activities, the need for hospitalization or continuing treatment by a health care provider, or circumstances supporting the need for military family leave. Employees also must inform the employer if the requested leave is for a reason for which FMLA leave was previously taken or certified. Employees also may be required to provide a certification and periodic recertification supporting the need for leave.

Employer Responsibilities

Covered employers must inform employees requesting leave whether they are eligible under FMLA. If they are, the notice must specify any additional information required as well as the employees' rights and responsibilities. If they are not eligible, the employer must provide a reason for the ineligibility.

Covered employers must inform employees if leave will be designated as FMLA-protected and the amount of leave counted against the employee's leave entitlement. If the employer determines that the leave is not FMLA-protected, the employer must notify the employee.

Unlawful Acts by Employers

FMLA makes it unlawful for any employer to:

- interfere with, restrain, or deny the exercise of any right provided under FMLA; and
- discharge or discriminate against any person for opposing any practice made unlawful by FMLA or for involvement in any proceeding under or relating to FMLA.

Enforcement

An employee may file a complaint with the U.S. Department of Labor or may bring a private lawsuit against an employer.

FMLA does not affect any Federal or State law prohibiting discrimination, or supersede any State or local law or collective bargaining agreement which provides greater family or medical leave rights.

FMLA section 109 (29 U.S.C. § 2619) requires FMLA covered employers to post the text of this notice. Regulation 29 C.F.R. § 825.300(a) may require additional disclosures.

For additional information:
1-866-4US-WAGE (1-866-487-9243) TTY: 1-877-889-5627
WWW.WAGEHOUR.DOL.GOV

U.S. Department of Labor | Wage and Hour Division

WHD Publication 1420 · Revised February 2013

EMPLOYEE RIGHTS

EMPLOYEE POLYGRAPH PROTECTION ACT

THE UNITED STATES DEPARTMENT OF LABOR WAGE AND HOUR DIVISION

The Employee Polygraph Protection Act prohibits most private employers from using lie detector tests either for pre-employment screening or during the course of employment.

PROHIBITIONS

Employers are generally prohibited from requiring or requesting any employee or job applicant to take a lie detector test, and from discharging, disciplining, or discriminating against an employee or prospective employee for refusing to take a test or for exercising other rights under the Act.

EXEMPTIONS

Federal, State and local governments are not affected by the law. Also, the law does not apply to tests given by the Federal Government to certain private individuals engaged in national security-related activities.

The Act permits polygraph (a kind of lie detector) tests to be administered in the private sector, subject to restrictions, to certain prospective employees of security service firms (armored car, alarm, and guard), and of pharmaceutical manufacturers, distributors and dispensers.

The Act also permits polygraph testing, subject to restrictions, of certain employees of private firms who are reasonably suspected of involvement in a workplace incident (theft, embezzlement, etc.) that resulted in economic loss to the employer.

The law does not preempt any provision of any State or local law or any collective bargaining agreement which is more restrictive with respect to lie detector tests.

EXAMINEE RIGHTS

Where polygraph tests are permitted, they are subject to numerous strict standards concerning the conduct and length of the test. Examinees have a number of specific rights, including the right to a written notice before testing, the right to refuse or discontinue a test, and the right not to have test results disclosed to unauthorized persons.

ENFORCEMENT

The Secretary of Labor may bring court actions to restrain violations and assess civil penalties up to $10,000 against violators. Employees or job applicants may also bring their own court actions.

THE LAW REQUIRES EMPLOYERS TO DISPLAY THIS POSTER WHERE EMPLOYEES AND JOB APPLICANTS CAN READILY SEE IT.

For additional information:

1-866-4-USWAGE

(1-866-487-9243) TTY: 1-877-889-5627

WHD U.S. Wage and Hour Division

WWW.WAGEHOUR.DOL.GOV

Scan your QR phone reader to learn more about the Employee Polygraph Protection Act.

U.S. Department of Labor | Wage and Hour Division

WHD 1462

EMPLOYEE RIGHTS
UNDER THE DAVIS-BACON ACT

FOR LABORERS AND MECHANICS EMPLOYED ON FEDERAL OR FEDERALLY ASSISTED CONSTRUCTION PROJECTS

THE UNITED STATES DEPARTMENT OF LABOR WAGE AND HOUR DIVISION

PREVAILING WAGES You must be paid not less than the wage rate listed in the Davis-Bacon Wage Decision posted with this Notice for the work you perform.

OVERTIME You must be paid not less than one and one-half times your basic rate of pay for all hours worked over 40 in a work week. There are few exceptions.

ENFORCEMENT Contract payments can be withheld to ensure workers receive wages and overtime pay due, and liquidated damages may apply if overtime pay requirements are not met. Davis-Bacon contract clauses allow contract termination and debarment of contractors from future federal contracts for up to three years. A contractor who falsifies certified payroll records or induces wage kickbacks may be subject to civil or criminal prosecution, fines and/or imprisonment.

APPRENTICES Apprentice rates apply only to apprentices properly registered under approved Federal or State apprenticeship programs.

PROPER PAY If you do not receive proper pay, or require further information on the applicable wages, contact the Contracting Officer listed below:

Wes Musgrove
515-239-1414
Ames, Iowa 50010

or contact the U.S. Department of Labor's Wage and Hour Division.

For additional information:

1-866-4-USWAGE

(1-866-487-9243) TTY: 1-877-889-5627

WHD U.S. Wage and Hour Division

WWW.WAGEHOUR.DOL.GOV

DERECHOS DEL EMPLEADO

BAJO LA LEY DAVIS-BACON

PARA OBREROS Y MECÁNICOS EMPLEADOS EN PROYECTOS DE CONSTRUCCIÓN FEDERAL O CON ASISTENCIA FEDERAL

LA SECCIÓN DE HORAS Y SUELDOS DEL DEPARTAMENTO DE TRABAJO DE EEUU

SALARIOS PREVALECIENTES

No se le puede pagar menos de la tasa de pago indicada en la Decisión de Salarios Davis-Bacon fijada con este Aviso para el trabajo que Ud. desempeña.

SOBRETIEMPO

Se le ha de pagar no menos de tiempo y medio de su tasa básica de pago por todas las horas trabajadas en exceso de 40 en una semana laboral. Existen pocas excepciones.

CUMPLIMIENTO

Se pueden retener pagos por contratos para asegurarse que los obreros reciban los salarios y el pago de sobretiempo debidos, y se podría aplicar daños y perjuicios si no se cumple con las exigencias del pago de sobretiempo. Las cláusulas contractuales de Davis-Bacon permiten la terminación y exclusión de contratistas para efectuar futuros contratos federales hasta tres años. El contratista que falsifique los registros certificados de las nóminas de pago o induzca devoluciones de salarios puede ser sujeto a procesamiento civil o criminal, multas y/o encarcelamiento.

APRENDICES

Las tasas de aprendices sólo se aplican a aprendices correctamente inscritos bajo programas federales o estatales aprobados.

PAGO APROPIADO

Si Ud. no recibe el pago apropiado, o precisa de información adicional sobre los salarios aplicables, póngase en contacto con el Contratista Oficial que aparece abajo:

Wes Musgrove
515-239-1414
Ames, Iowa 50010

o póngase en contacto con la Sección de Horas y Sueldos del Departamento de Trabajo de EEUU.

Para obtener información adicional:

1-866-4-USWAGE

(1-866-487-9243) TTY: 1-877-889-5627

WWW.WAGEHOUR.DOL.GOV

WHD
U.S. Wage and Hour Division

U.S. Department of Transportation
Federal Highway Administration

NOTICE

The highway consruction underway at this location is a Federal or Federal-aid project and is subject to applicable State and Federal laws, including Title 18, United States Code, Section 1020, which reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the costs thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction of any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report, or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to a material fact in any statement, certificate, or report submitted pursuant to the provisions of the Federal-Aid Road Act approved July 11, 1916 (39 Stat. 355), as amended and supplemented,

Shall be fined under this title or imprisoned not more than five years, or both."

Any person having reason to believe this statute is being violated should report the same to the agency representative(s) named below.

(Federal-aid projects only) State Highway Department	*(Both Federal and Federal-aid projects)* Federal Highway Administrator
Wes Musgrove	**Karen Bobo**
515-239-1414	**515-233-7300**
Ames, Iowa 50010	**Ames, Iowa 50010**
Enter name and address of State Highway Department	Enter name and address of Federal Highway Division Administrator

(Both Federal and Federal-aid projects)
Department of Transportation
Office of Inspector General
Toll Free Hotline
1-800-424-9071

Form FHWA-1022 (Rev. 11-11)

Job Safety and Health

IT'S THE LAW!

IOWA WORKFORCE DEVELOPMENT

Smart. Results.

EMPLOYEES:

- You have the right to notify your employer or Iowa OSHA about workplace hazards. You may ask Iowa OSHA to keep your name confidential.
- You have the right to request an OSHA inspection if you believe that there are unsafe and unhealthful conditions in your workplace. You or your representative may participate in that inspection.
- You can file a complaint with OSHA within 30 days of retaliation or discrimination by your employer for making safety and health complaints or for exercising your rights under the OSH Act.
- You have a right to see OSHA citations issued to your employer. Your employer must post the citations at or near the place of the alleged violation for at least 3 working days.
- Your employer must correct workplace hazards by the date indicated on the citation and must certify that these hazards have been reduced or eliminated.
- You have the right to copies of your medical records or records of your exposure to toxic and harmful substances or conditions.
- Your employer must post this notice in your workplace.
- You must comply with all occupational safety and health standards issued under the *OSH Act* that apply to your own actions and conduct on the job.

EMPLOYERS:

- You must furnish your employees a place of employment free from recognized hazards.
- You must comply with the occupational safety and health standards issued under the *OSH Act*.
- You may obtain free assistance from Iowa OSHA Consultation in identifying and correcting hazards or complying with standards, without citation or penalty, by contacting the Iowa Division of Labor.

For reporting fatalities and catastrophes only call:
1-877-242-6742

For assistance and information contact:
Iowa Division of Labor Services
1000 East Grand Avenue
Des Moines, Iowa 50319-0209
Phone (515) 242-5870 or (800) JOB-IOWA
www.iowaworkforce.org/labor

Complaints About the Iowa OSHA Program
You may file a complaint about the Iowa Division of Labor's operations or administration of the OSH Act by contacting:

OSHA Regional Office
2300 Main Street, Suite 1010
Kansas City, MO 64108-2447
(816) 283-8745

70-8025 (02.11)

"EEO is the Law" Poster Supplement

Employers Holding Federal Contracts or Subcontracts Section Revisions

The Executive Order 11246 section is revised as follows:

RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, GENDER IDENTITY, NATIONAL ORIGIN

Executive Order 11246, as amended, prohibits employment discrimination based on race, color, religion, sex, sexual orientation, gender identity, or national origin, and requires affirmative action to ensure equality of opportunity in all aspects of employment.

PAY SECRECY

Executive Order 11246, as amended, protects applicants and employees from discrimination based on inquiring about, disclosing, or discussing their compensation or the compensation of other applicants or employees.

The Individuals with Disabilities section is revised as follows:

INDIVIDUALS WITH DISABILITIES

Section 503 of the Rehabilitation Act of 1973, as amended, protects qualified individuals with disabilities from discrimination in hiring, promotion, discharge, pay, fringe benefits, job training, classification, referral, and other aspects of employment. Disability discrimination includes not making reasonable accommodation to the known physical or mental limitations of an otherwise qualified individual with a disability who is an applicant or employee, barring undue hardship to the employer. Section 503 also requires that Federal contractors take affirmative action to employ and advance in employment qualified individuals with disabilities at all levels of employment, including the executive level.

The Vietnam Era, Special Disabled Veterans section is revised as follows:

PROTECTED VETERANS

The Vietnam Era Veterans' Readjustment Assistance Act of 1974, as amended, 38 U.S.C. 4212, prohibits employment discrimination against, and requires affirmative action to recruit, employ, and advance in employment, disabled veterans, recently separated veterans (i.e., within three years of discharge or release from active duty), active duty wartime or campaign badge veterans, or Armed Forces service medal veterans.

Mandatory Supplement to EEOC P/E-1(Revised 11/09) "EEO is the Law" Poster.

If you believe that you have experienced discrimination contact OFCCP: 1-800-397-6251 | TTY 1-877-889-5627 | www.dol.gov.

“IOE es la Ley” Cartel Suplementario

Sección revisada de empleadores que mantienen contratos o subcontratos federales

La sección del Decreto Ejecutivo 11246 está revisada de la siguiente manera:

RAZA, COLOR, RELIGIÓN, SEXO, ORIENTACIÓN SEXUAL, IDENTIDAD DE GÉNERO, NACIONALIDAD

El Decreto Ejecutivo 11246, en su forma enmendada, prohibe la discriminación en el empleo por motivo de raza, color, religión, sexo, orientación sexual, identidad de género o nacionalidad y requiere programas de acción afirmativa para asegurar la igualdad de oportunidades en todos los aspectos de empleo.

SECRETO DE PAGO

El Decreto Ejecutivo 11246, en su forma enmendada, protege a los solicitantes y empleados de la discriminación por motivo de investigar, revelar o discutir su compensación o la compensación de otros solicitantes y empleados.

La sección de Personas con Discapacidades está revisada de la siguiente manera:

PERSONAS CON DISCAPACIDADES

La sección 503 de la Ley de Rehabilitación de 1973, en su forma enmendada, protege a personas calificadas con discapacidades de la discriminación en la contratación, promoción, despido, pago, beneficios adicionales, capacitación laboral, clasificación, referencia, y otros aspectos del empleo.
La discriminación por discapacidad incluye, el no realizar una adaptación razonable a las limitaciones físicas o mentales conocidas de un individuo calificado con discapacidad, ya sea un solicitante o empleado, salvo una carga excesiva para el empleador.
La sección 503 también requiere que los contratistas federales tomen acción afirmativa para contratar y ayudar a progresar a individuos calificados con discapacidades en todos los niveles de empleo, incluido el nivel ejecutivo.

La sección Veteranos con Discapacidades Especiales, de la Era de Vietnam está revisada de la siguiente manera:

VETERANOS PROTEGIDOS

La Ley de Asistencia de Reajuste de los Veteranos de la Era de Vietnam de 1974, en su forma enmendada, 38 USC 4212, prohíbe la discriminación laboral y requiere la acción afirmativa para reclutar, contratar, y progresar en el empleo, a favor de los veteranos discapacitados, veteranos recientemente separados (es decir, dentro de los tres años de la descarga o liberación del servicio activo), veteranos en servicio activo en tiempos de guerra, veteranos insignia de campaña y veteranos de las fuerzas armadas con medalla de servicio.

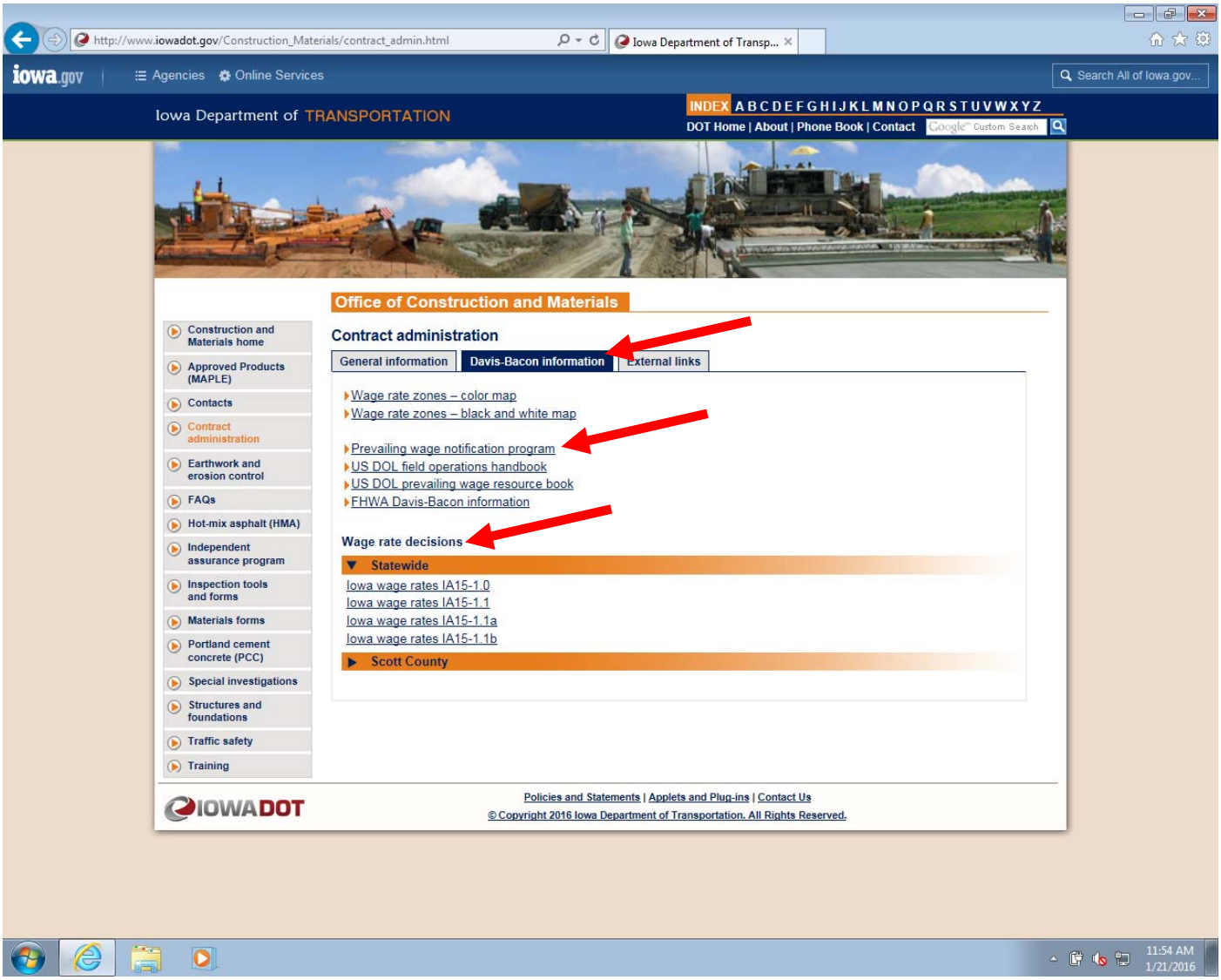
Suplemento Obligatorio para la CIOE P/E-1(Revisado el 11/09) “IOE es la Ley” Cartel.

Si usted cree que ha experimentado discriminación, contáctese con la OFCCP: 1-800-397-6251 | TTY 1-877-889-5627 | www.dol.gov.

See IM 3.805, Attachment D, Section 2.24 DAVIS-BACON WAGE REQUIREMENTS

"Certified Transcript of Labor Payroll"

B. Postings page 2-12



General Decision Number: IA20080001 02/08/2008
Superseded General Decision Number: IA20070001

State: Iowa

Construction Types: Heavy and Highway

Counties: Iowa Statewide

STATEWIDE EXCEPT SCOTT COUNTY
HEAVY CONSTRUCTION PROJECTS (Does not include work on or pertaining to the Mississippi or Missouri Rivers or on Water and Sewage Treatment Plants), AND HIGHWAY PROJECTS (does not include building structures in rest areas)

Modification Number	Publication Date
0	02/08/2008
1	12/19/2008
2	01/02/2009

* SUIA2002-003 12/01/2008

CARPENTERS AND PILEDRIVERMEN:	Rates	Fringes
ZONE 1	23.32	7.83
ZONE 2	21.23	7.83
ZONE 3	21.23	7.83
ZONE 4	20.80	5.70
ZONE 5	20.25	4.30
CONCRETE FINISHER:		
ZONE 1	21.77	6.00
ZONE 2	21.77	6.00
ZONE 3	21.77	6.00
ZONE 4	19.55	4.20
ZONE 5	17.95	4.20
ELECTRICIANS (STREET AND HIGHWAY LIGHTING AND TRAFFIC SIGNALS):		
ZONE 1, ZONE 2, AND ZONE 3	20.55	4.20
ZONE 4	19.25	4.20
ZONE 5	17.00	4.20

	Rates	Fringes
IRONWORKERS (SETTING OF STRUCTURAL STEEL):		
ZONES 1 AND 2	25.05	7.13
ZONE 3	24.75	7.43
ZONE 4	20.65	5.85
LABORERS:		
ZONE 1 AND ZONE 2		
GROUP AA	20.06	7.75
GROUP A	19.26	7.75
GROUP B	17.38	7.75
GROUP C	14.13	7.75
ZONE 3		
GROUP AA	20.06	7.75
GROUP A	19.26	7.75
GROUP B	17.38	7.75
GROUP C	14.13	7.75
ZONE 4		
GROUP A	18.60	4.85
GROUP B	17.28	4.85
GROUP C	14.80	3.80
ZONE 5		
GROUP A	17.55	4.40
GROUP B	14.55	4.40
GROUP C	13.95	4.40
POWER EQUIPMENT OPERATORS:		
ZONE 1		
GROUP A	26.30	12.10
GROUP B	24.70	12.10
GROUP C	22.20	12.10
GROUP D	22.20	12.10
ZONE 2		
GROUP A	25.55	12.10
GROUP B	23.95	12.10
GROUP C	21.20	12.10
GROUP D	21.20	12.10
ZONE 3		
GROUP A	26.30	12.20
GROUP B	24.50	12.20
GROUP C	23.50	12.20
GROUP D	23.50	12.20

ZONE 4	Rates	Fringes
GROUP A	25.50	6.40
GROUP B	24.36	6.40
GROUP C	22.28	6.17
GROUP D	22.28	6.17
ZONE 5		
GROUP A	22.07	4.40
GROUP B	21.03	4.40
GROUP C	19.70	4.40
GROUP D	18.70	4.40

TRUCK DRIVER (AND PAVEMENT MARKING DRIVER/SWITCHPERSON)		
ZONE 1	19.70	7.85
ZONE 2	19.70	7.85
ZONE 3	19.70	7.85
ZONE 4	19.30	4.40
ZONE 5	17.35	4.40

ZONE DEFINITIONS

ZONE 1 The Counties of Polk, Warren and Dallas for all Crafts, and Linn County Carpenters only.

ZONE 2 The Counties of Dubuque for all Crafts and Linn County for all Crafts except Carpenters.

ZONE 3 The Cities of Burlington, Clinton, Fort Madison, Keokuk, and Muscatine (and abutting municipalities of any such cities).

ZONE 4 Story, Black Hawk, Cedar, Jasper, Jones, Jackson, Madison, and Marion Counties; Clinton County (except the City of Clinton), Johnson County, Muscatine County (except the City of Muscatine), the City of Council Bluffs, Lee County and Des Moines County.

ZONE 5 All areas of the state not listed above.

LABORER CLASSIFICATIONS - ALL ZONES

GROUP AA - Skilled pipelayer (sewer, water and conduits) and tunnel laborers (zones 1, 2 and 3).

GROUP A - Carpenter tender on bridges and box culverts; curb machine (without a seat); deck hand; diamond & core drills; drill operator on air tracs, wagon drills and similar drills; form setter/stringman on paving work; gunnite nozzleman; joint sealer kettleman; laser operator; pipelayer (sewer, water, and conduits) Zone 4 & 5; powderman tender; powderman/blaster; saw operator; tunnel laborer (zones 4 and 5).

GROUP B - Air, gas, electric tool operator; barco hammer; carpenter tender; caulker; chain sawman; compressor (under 400 cfm); concrete finisher tender; concrete processing materials and monitors; cutting torch on demolition; drill tender; dumpmen; electric drills; fence erectors; form line expansion joint assembler; form tamper; general laborer; grade checker; handling and placing metal mesh, dowel bars, reinforcing bars and chains; hot asphalt laborer; installing temporary traffic control devices; jackhammerman; mechanical grouter; painter (all except stripers); paving breaker; planting trees, shrubs and flowers; power broom (not self-propelled); power buggyman; rakers; rodman (tying reinforcing steel); sandblaster; seeding and mulching; sewer utility topman/bottom man; spaders; stressor or stretcherman on pre or post tensioned concrete; stringman on re/surfacing/no grade control; swinging stage, tagline, or block and tackle; tampers; timberman; tool room men and checkers; tree climber; tree groundman; underpinning and shoring caissons over twelve feet deep; vibrators; walk behind trencher; walk behind paint stripers; walk behind vibrating compactor; water pumps (under three inch); work from bosun chair.

GROUP C - Scale weigh person; traffic control/flagger, surveillance or monitor; water carrier.

POWER EQUIPMENT OPERATOR CLASSIFICATIONS - ALL ZONES

GROUP A - Asphalt Breakdown Roller (vibratory); Asphalt laydown machine; asphalt plant; Asphalt Screed; bulldozer (finish); central mix plant; concrete pump; crane; crawler tractor pulling scraper; directional drill (60,000 (lbs) pullback and above); dragline and power shovel; dredge engineer; excavator (over ½ cu. yd.); front end loader (4 cy and over); horizontal boring machine; master mechanic; milling machine (over 350 hp); motor grader (finish); push cat; rubber tired backhoe (over ½ cu. yd.); scraper (12 cu. yd. and over or finish); Self-propelled rotary mixer/road reclaimer; sidebroom tractor; slipform portland concrete paver; tow or push boat; trenching machine (Cleveland 80 or similar).

GROUP B - Articulated off road hauler, asphalt heater/planer; asphalt material transfer vehicle; Asphalt Roller; belt loader or similar loader; bulldozer (rough); churn or rotary drill; concrete curb machine; crawler tractor pulling ripper, disk or roller; deck hand/oiler; directional drill (less than 60,000 (lbs) pullback); distributor; excavator (1/2 cu. yd. and under); form riding concrete paver; front end loader (2 to less than 4 cu. yd.); group equipment greaser; mechanic; milling machine (350 hp. and less); paving breaker; portland concrete dry batch plant; rubber tired backhoe (1/2 cu. yd. and under); scraper (under 12 cu. yd.); screening, washing and crushing plant (mobile, portable or stationary); shoulder machine; skid loader (l cu. yd. and over); subgrader or trimmer; trenching machine; water wagon on compaction.

GROUP C - Boom & winch truck; concrete spreader/belt placer; deep wells for dewatering; farm type tractor (over 75 hp.) pulling disc or roller; forklift; front end loader (under 2 cu. yd.); motor grader (rough); pile hammer power unit; pump (greater than three inch diameter); pumps on well points; safety boat; self-propelled roller (other than asphalt); self-propelled sand blaster or shot blaster, water blaster or striping grinder/remover; skid loader (under 1 cu. yd.); truck mounted post driver.

GROUP D - Boiler; compressor; cure and texture machine; dow box; farm type or utility tractor (under 75 hp.) pulling disk, roller or other attachments; group greaser tender; light plants; mechanic tender; mechanical broom; mechanical heaters; oiler; pumps (under three inch diameter); tree chipping machine; truck crane driver/oiler.

CARPENTERS AND PILEDRIVERMEN (ZONE 5)

Setting of structural steel; any welding incidental to bridge or culvert construction; setting concrete beams.

WELDERS: Receive rate prescribed for craft performing operation to which welding is incidental.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29 CFR 5.5 (a) (1) (ii)).

In the listing above, the "SU" designation means that rates listed under that identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U. S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U. S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

4.) All decisions by the Administrative Review Board are final.

END OF GENERAL DECISION

Form 650170 (02-16)

IOWA DOT

PROJECT ENGINEER'S
EEO PROJECT SITE INSPECTION/WAGE RATE REPORT

An inspection was made on April 27th , 2010 , in order to determine compliance with the posters/non-segregated facilities/labor standards provisions on the referenced project

Contractor/Subcontractor Manatt's, Inc.

Contract ID ESL-3827(611)--7S-77 County Polk

Project Engineer Howard R. Green Company

1. Which posters are properly displayed? (Please check)

- ☑ Contractor's EEO/AA and Training Notice – (furnished by Office of Contracts)
- ☑ Form EEOC-P/E-1 EEO is the Law with Supplement
- ☑ Form EEOC-P/E-1 EEO is the Law (Spanish version)* with Supplement
- ☑ FHWA 1022 – Notice Concerning False Statements and Records**
- ☑ WH-1321 – Employee Rights Under the Davis-Bacon Act**
- ☑ WH-1321SPA – Employee Rights Under the Davis-Bacon Act (Spanish Version)**
- ☑ Predetermined Wage Rate Decision(s) Required by Contract
- ☑ 70-8025 – Job Safety and Health
- ☑ WHD-1420 – Family and Medical Leave Act
- ☑ WHD-1462 – Employee Polygraph Protection Act

* Although not required, it is strongly recommended that these two posters be posted whenever the companies involved with this project either employ or anticipate employing persons who speak Spanish.

** Required only for Federal Aid contracts

If bulletin board does not comply with Article 1102.19.E.5, the following actions will be taken:

Project Inspector will issue a notice to contractor for non-compliance and
Progress payments will be suspended until all postings are properly displayed on bulletin board.

2. Are employee facilities provided on a non-segregated basis? ☑ Yes ☐ No

3. Payroll Transcript No. used for the Review _____ for week ending _____

4. Is contractor or subcontractor participating in AGC of Iowa's Prevailing Wage Notification Program (agcia.org/pwnp.asp)? ☐ Yes ☐ No

5. Employees Interviewed;

Employee Name	Davis-Bacon Classification	Proper classification for duties performed?	Is employee aware of location of poster board?	Is employee receiving at least specified wage rate & fringe benefit?	Comments

6. General Comments: Manattt's Inc. is enrolled in the Prevailing Wage Notification Program. An interview is not required

Patrick Hidder
Name of Interviewer

April 27th
Date

Form 650170 (02-16)

IOWA DOT

PROJECT ENGINEER'S
EEO PROJECT SITE INSPECTION/WAGE RATE REPORT

An inspection was made on April 27th , 2010 , in order to determine compliance with the posters/non-segregated facilities/labor standards provisions on the referenced project

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Progress payments will be suspended until all postings are properly displayed on bulletin board.

2. Are employee facilities provided on a non-segregated basis? ☑ Yes ☐ No

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6. General Comments: Manattt's Inc. is enrolled in the Prevailing Wage Notification Program. An interview is not required

Patrick Hidder
Name of Interviewer

April 27th
Date

The follow are excerpts from FHWA-1273: FHWA-1273 Electronic version -- March 10, 1994

REQUIRED CONTRACT PROVISIONS

FEDERAL-AID CONSTRUCTION CONTRACTS

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding $2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 “Contract provisions and related matters” with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH–1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b. (1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

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

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

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

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

See IM 3.805, Attachment D, Section 2.24 DAVIS-BACON WAGE REQUIREMENTS "Certified Transcript of Labor Payroll"

A. Regulations page 2-15
B. Postings page 2-16

D. Preparation of Certified Transcript of Labor Payroll
   3. Required Contract Provisions page 2-18

Date 10/29/2010

I, Susan egel Lint (Name of Signatory Party) Payroll Administrator (Title)

do hereby state:

(1) That I pay or supervise the payment of the persons employed by

MANATT'S INC. (Contractor or Subcontractor) on the

Job: 3807- JOHNSTON ESL-3827(611)--7S-77 (Building or Work) ; that during the payroll period commencing on the

17 day of October, 2010, and ending the 23 day of October, 2010

all persons employed on said project have been paid the full weekly wages earned, that no rebates have been or will be made either directly or indirectly to or on behalf of said

MANATT'S INC. (Contractor or Subcontractor)

from the full weekly wages earned by any person and that no deductions have been made either directly or indirectly from the full wages earned by any person, other than permissible deductions as defined in Regulations, Part 3 (29 CFR Subtitle A), issued by the Secretary of Labor under the Copeland Act, as amended (48 Stat. 948, 63 Stat. 108, 72 Stat. 967; 76 Stat. 357; 40 U. S. C. 276c), and described below:

(2) That any payrolls otherwise under this contract required to be submitted for the above period are correct and complete; that the wage rates for laborers or mechanics contained therein are not less than the applicable wage rates contained in any wage determination incorporated into the contract; that the classifications set forth therein for each laborer or mechanic conform with the work he performed.

(3) That any apprentices employed in the above period are duly registered in a bona fide apprenticeship program registered with a State apprenticeship agency recognized by the Bureau of Apprenticeship and Training, United States Department of Labor, of if no such recognized agency exists in a State, are registered with the Bureau of Apprenticeship and Training, United States Department of Labor.

(4) That:

(a) WHERE FRINGE BENEFITS ARE PAID TO APPROVED PLANS, FUNDS, OR PROGRAMS

☒ - In addition to the basic hourly wage rates paid to each laborer or mechanic listed in the above referenced payroll, payments of fringe benefits as listed in the contract have been or will be made to appropriate programs for the benefit of such employees, except as noted in Section 4(c) below.

(b) WHERE FRINGE BENEFITS ARE PAID IN CASH PR# 21

☒ - Each laborer or mechanic listed in the above referenced payroll has been paid, as indicated on the payroll, an amount not less than the sum of the applicable basic hourly wage rate plus the amount of the required fringe benefits as listed in the contract, except as noted in Section 4(c) below.

(c) EXCEPTIONS

EXCEPTION (CRAFT)	EXPLANATION
See Attached List	

REMARKS:

Employees with single health insurance policies have $2.14 deducted from the fringe. Employees with family health insurance policies have $4.67 deducted from the fringe.

NAME AND TITLE	SIGNATURE
Susan R. Kriegel Lint Payroll Administrator	

THE WILLFUL FALSIFICATION OF ANY OF THE ABOVE STATEMENTS MAY SUBJECT THE CONTRACTOR OR SUBCONTRACTOR TO CIVIL OR CRIMINAL PROSECUTION. SEE SECTION 1001 OF TITLE 18 AND SECTION 231 OF TITLE 31 OF THE UNITED STATES CODE.

Date Rec'd (County or Res. Cons.) Engr's Office _____

Checked by _____ 11/01/10

STATEMENT BY PRIME CONTRACTOR (If Applicable)

This payroll for our subcontractor was received on _____

20_____ and to the best of our knowledge is correct and complete. It was forwarded to the office of the field

engineer on _____, 20_____.

Signed _____ Title _____

Emp #	Last Name	First Name	Policy Type
3807- JOHNSTON ESL-3827(611)--7S-77			
8872	MC CARL	KENNY	Single
7470	VAN VARK	DENNIS	Single

Period 10/17/2010 - 10/23/2010
Contractor M/ TS
Subcontractor
Type of Work
Date of Letting 12/14/2009

Manatt's, Inc. Certified Payroll Transcript
PO BOX 535, BROOK N IA 52211-0535

Payroll No. 21
Week Ending 10/23/10
County POLK
Contract ID No. 3807- - JOHNSTON ESL-3827(611)--7S-77
Wage Decision No. IA 08-14, 1.2, 13 ZN1 Zone No.

Employee	Work Classification		Sun 10/17	Mon 10/18	Tue 10/19	Wed 10/20	Thu 10/21	Fri 10/22	Sat 10/23	Total	Rate	Project Amounts	Total Gross	Deductions	Net Pay
			----------Hours----------										****** Weekly Totals ****** (Week Ending)		
MC CARL , KENNY LLOYD	TRUCK DRIVER	REG HOURLY	0.00	2.50	0.00	0.00	0.00	0.00	0.00	2.50	19.70	49.25	FWH	229.00	
M/EX: S/0 EE#: 8872	TRUCK DRIVER	H&W FRINGE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.71	14.28	FICA-SS	79.47	
Race/Sex W/M EEO:									Other Taxable			0.00	FICA-MED	18.59	
Check # 4310									Other Non Taxable			0.00	IA SWH	63.00	
									Project Total			63.53	UNIFORMS	6.68	
													ROTH 401K	38.45	
													1,281.80	435.19	846.61
TRITTEN , DONALD KENNETH	CONCRETE SAW OPER LABR GRP A	REG HOURLY	0.00	6.00	0.00	5.00	0.00	0.00	0.00	11.00	19.26	211.86	FWH	180.00	
M/EX: S/2 EE#: 9261	CONCRETE SAW OPER LABR GRP A	H&W FRINGE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.75	85.25	FICA-SS	75.84	
Race/Sex W/M EEO: Journeyman									Other Taxable			0.00	FICA-MED	17.74	
Check # 4310									Other Non Taxable			0.00	IA SWH	57.00	
									Project Total			297.11	1,223.29	330.58	892.71
VAN VARK , DENNIS E	CONCRETE SAW OPER LABR GRP A	REG HOURLY	0.00	2.00	0.00	5.00	0.00	0.00	0.00	7.00	20.40	142.80	FWH	302.00	
M/EX: S/0 EE#: 7470	CONCRETE SAW OPER LABR GRP A	H&W FRINGE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.47	31.29	FICA-SS	104.69	
Race/Sex W/M EEO: Journeyman									Other Taxable			0.00	FICA-MED	24.48	
Check # 4310									Other Non Taxable			0.00	IA SWH	80.00	
									Project Total			174.09	GARNISHMEN	0.00	
													401K - %	135.08	
													VEH REVERSA	15.00	
													1,688.49	661.25	1,027.24

Period 10/17/2010 - 10/23/2010

Contractor MA ΓS

Subcontractor

Type of Work

Date of Letting 12/14/2009

Manatt's, Inc. Certified Payroll Transcript

PO BOX 535, BROOK N IA 52211-0535

Payroll No. 21

Week Ending 10/23/10

County POLK

Contract ID No. 3807- - JOHNSTON ESL-3827(611)--7S-77

Wage Decision No. IA 08-1.1, 1.2, 1.3 ZN 1 Zone No.

Employee	Work Classification	Sun 10/17	Mon 10/18	Tue 10/19	Wed 10/20	Thu 10/21	Fri 10/22	Sat 10/23	Total	Rate	Project Amounts	****** Weekly Totals ****** (Week Ending) Total Gross	Deductions	Net Pay
		----------Hours----------												
Job Totals	*Hours*	*Sun*	*Mon*	*Tue*	*Wed*	*Thu*	*Fri*	*Sat*	*Total*		*Project Amounts*	*Total Gross*	*Deductions*	*Net Pay*
	REG HOURLY	0.00	10.50	0.00	10.00	0.00	0.00	0.00	20.50		403.91	FWH	711.00	
	H&W FRINGE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		130.82	FICA-SS	260.00	
								Other Taxable			**0.00**	FICA-MED	60.81	
								Other Non Taxable			**0.00**	IA SWH	200.00	
								Project Total			**534.73**	UNIFORMS	6.68	
												ROTH 401K	38.45	
												GARNISHME		
												401K - %	135.08	
												VEH REVERS	15.00	
												4,193.58	**1,427.02**	**2,766.56**

Form 830079 (Exp. 2-09)

Contractor	Manalts
Address	P.O.Box 535, Brooklyn, IA 52211
Subcontractor	J & K Contracting LLC
Address	PO Box 1790 Ames IA 50010
Type of Work	Underground Utility

CERTIFIED TRANSCRIPT OF LABOR PAYROLL

FOR USE ON ALL FEDERAL AID PROJECTS

Payroll#	26
	Sheet 1 of 1
For Week Ending	09/18/10
County:	Polk, Iowa
Contract ID No.	77-3827-611
Date of Letting	12/15/09
Wage Decision	No.IA20070001

Line No.	EMPLOYEE (Include Address & Social Security No. First Time Name Appears)	WORK CLASSIFICATION (See Wage Decision for Title & Minimum Wage)	ST or OT	S	M	T	W	T	F	S	Total Hours	Rate Per Hour	Gross Amount Earned on This Project	Gross Amount Earned on All Work This Week	Deductions: Soc. Sec. Tax	Fed. W/H Tax	State W/H Tax	Other Approved Deductions (Itemized)	Net Amount Earned
				Hours Worked Each Day															
6	Balderas, Jose	Laborer Group B	ST			11.00	9.50	9.00			29.50	17.38	512.71	1,453.84				Health	
	9585		OT					2.00	9.50		11.50	26.07	299.81						
											41.00	6.53	267.73						
												Total	1,080.25		110.09	253.00	73.00	14.89	1,002.86
7	Knepper, John	Operator Group B	ST				9.50	8.00			17.50	24.70	432.25	1,485.99				Health	
	7213		OT						9.50		9.50	37.05	351.98					Child Support	
											27.00	10.88	293.76						
												Total	1,077.99		113.60	284.00	75.00	10.19	1,003.20
9	Sorsen, Josh	Laborer Group B	ST			10.00	9.50	10.00			29.50	17.38	512.71	1,421.24				Child Support	
	0508		OT					1.00	9.50		10.50	26.07	273.74						
											40.00		0.00						
												Total	786.45		107.58	244.00	71.00	185.31	813.35
11	Keller, Lester	Operator Group B	ST			1.00		9.50			10.50	24.70	259.35	862.40					
	5139		OT									37.05						AFLAC	
											10.50	12.10	127.05						
												Total	386.40		65.98	58.00	38.00	0.00	700.42
12	Nissen, Ian	Laborer Group B	ST				6.00				6.00	17.38	104.28	935.55				Health	
	2347		OT									26.07						Garnishment	
											6.00	6.53	39.18					AFLAC	
												Total	143.46		70.21	121.00	43.00	19.58	681.76
14	Jimenez, Arturo	Laborer Group B	ST				9.50				9.50	17.38	165.11	1,828.07					
	1121		OT									26.07						AFLAC	
			Fringe Benefits (If any) if Paid in Cash								9.50	7.75	73.63						
												Total	238.74		139.84	282.00	106.00	0.00	1,300.23
14	Jimenez, Arturo	Operator Group B	ST		10.50	11.50		8.50			30.50	24.70	753.35	1,828.07					
	1121		OT					2.50	9.50		12.00	37.05	444.60					AFLAC	
			Fringe Benefits (If any) if Paid in Cash								42.50	12.10	514.25						
												Total	1,712.20		139.84	282.00	106.00	0.00	1,300.23
25	Bowling, Kyle	Operator Class B	ST		10.50	11.50	9.50	8.50			40.00	24.70	988.00	1,734.75				Health	
			OT					1.00	5.50		6.50	37.05	240.83					401k	
			Fringe Benefits (If any) if Paid in Cash								46.50	10.88	505.92						
												Total	1,734.75		135.77	248.00	104.00	(40.04)	1,287.02
27	Gannon, Isaac	Operator Class B	ST		10.50	11.50	9.50	8.50			40.00	24.70	988.00	1,812.31				Health	
			OT					2.00			2.00	37.05	74.10					401k	
			Fringe Benefits (If any) if Paid in Cash								42.00	10.88	456.96						
												Total	1,519.06		138.64	257.00	112.00	0.00	1,304.67
28	Murphy, Benjamin	Laborer	ST				9.50				9.50	17.38	165.11	756.73					
	455		OT									26.07						AFLAC	
			Fringe Benefits (If any) if Paid in Cash								9.50	7.75	73.63						
												Total	238.74		57.88	55.00	35.00	0.00	608.85

STATEMENT OF COMPLIANCE

COUNTY Polk

PAYROLL NO. 26

I, Kelsey Beck (Name of Signatory Party) Payroll Specialist (Title) do hereby state:

1) I pay or supervise the payment of the persons employed by J & K Contracting LLC (Contractor or Subcontractor)

on Activity I.D.# 77-3827-611, that during the payroll period commencing on the 12th of September 2010 and ending the 18th of September, 2010

all persons employed on said project have been paid the full weekly wages earned, that no rebates have been or will be made either directly or indirectly to or on behalf of said J & K Contracting LLC (Contractor or Subcontractor) from the full weekly wages earned by any person and that no deductions have been made either directly or indirectly from the full wages earned by any person, other than permissible deductions as defined in Regulations, Part 3 (29 CFR Subtitle A), issued by the Secretary of Labor under the Copeland Act, as amended (48 Stat.948, 63 Stat. 108, 72 Stat. 967; 76 Stat. 357; 40 U.S.C. 276c), and described below:

See Deductions Column of This Payroll

2) That any payrolls otherwise under this contract required to be submitted for the above period are correct and complete; that the wage rates for laborers or mechanics contained therein are not less than the applicable wage rates contained in any wage determination incorporated into the contract; that the classifications set forth therein for each laborer or mechanic conform with the work performed.

3) That any apprentices employed in the above period are duly registered in a bona fide apprenticeship program registered with a State apprenticeship agency recognized by the Bureau of Apprenticeship and Training, United States Department of Labor, or if no such recognized agency exists in a State, are registered with the Bureau of Apprenticeship and Training, United States Department of Labor.

4) That:

[XXX] **(a) WHERE FRINGE BENEFITS ARE PAID TO APPROVED PLANS, FUNDS OR PROGRAMS**

In addition to the basic hourly wage rates paid to each laborer or mechanic listed in the above referenced payroll, payments of fringe benefits as listed in the contract have been or will be made to appropriate programs for the benefit of such employees, except as noted in Section 4(c) below. Details of the fringe benefit plan, fund, or program shall be furnished to the contracting authority upon request. The submittal shall include description of the benefits amount paid, and if applicable, name of the Trustee or third person to whom the benefits were paid.

[XXX] **(b) WHERE FRINGE BENEFITS ARE PAID IN CASH**

Each laborer or mechanic listed in the above referenced payroll has been paid as indicated on the payroll, an amount not less than the sum of applicable basic hourly rate plus the amount of the required fringe benefit as listed in the contract, except as noted in Section 4(c) below.

[ ] **(c) EXCEPTIONS**

EXCEPTION (CRAFT)	EXPLANATION
Remarks	
Name & Title **Kelsey Beck** Payroll Specialist	Signature Date 09/21/10

The willful falsification of any of the above statements may subject the contractor or subcontractor to civil or criminal prosecution. See Section 1001 of Title 18 and Section 231 of Title 31 of the United States Code.

NOTE:

Whenever possible the name of employees shall be grouped on the payroll transcript under their appropriate classification:

1) Supervisory and administrative (if included)

2) Skilled labor

3) Intermediate labor

4) Unskilled labor

Payroll transcripts are to be submitted to the project engineer within seven days from the end of the period covered.

The prime contractor shall be responsible for the submission of copies of payrolls of all subcontractors. See Required Contract Provisions Form FHWA-1273.

Date Rec'd Project Engineer's Office 9/29/10

Checked by (If Applicable)

STATEMENT BY PRIME CONTRACTOR (if applicable)

This payroll for our subcontractor was received on Sept 24, 2010 (Year) and to the best of our knowledge is correct and complete. It was forwarded to the office of the project engineer on Sept 27, 2010 (Year).

Signed Becky Edelen

Title contracts clerk

J & K Contracting, LLC Pay Period 09/12/2010 to 09/18/2010

Employee	SS#	Hours	401k match	Insurance	Rate	J&K Fringe
Anderson, Dave		40	$ -	$ 48.95	$ 1.22	$ 1.22
Balderas, Jose		40	$ -	$ 48.95	$ 1.22	$ 1.22
Bear, David		40	$ -	$ 48.95	$ 1.22	$ 1.22
Beck, Kelsey		40	$ -	$ -	$ -	$ -
Blackford, Paul		40	$ -	$ 48.95	$ 1.22	$ 1.22
Bockenstedt, Michael D		40	$ -	$ 48.95	$ 1.22	$ 1.22
Bowling, Kyle D		40	$ -	$ 48.95	$ 1.22	$ 1.22
Calland, James		40	$ 0.72	$ 48.95	$ 1.22	$ 1.94
Casteneda, Jorge		40	$ -	$ 48.95	$ -	$ -
Ciprich, George		40	$ -	$ 48.95	$ 1.22	$ 1.22
Dickinson, Todd		40	$ -	$ 48.95	$ 1.22	$ 1.22
Dudney, Chisum D		40	$ -	$ 48.95	$ 1.22	$ 1.22
Feldmann, Jeremy		40	$ -	$ 48.95	$ 1.22	$ 1.22
Fooken, Brian A		40	$ 0.74	$ 48.95	$ 1.22	$ 1.96
Fooken, Kurtis L		40	$ -	$ 48.95	$ 1.22	$ 1.22
Gannon, Isaac		40	$ -	$ 48.95	$ -	$ -
Garcia, Carlos		40	$ -	$ -	$ -	$ -
Goettsch, Randy		40	$ -	$ 48.95	$ -	$ -
Graf, Gary		40	$ 0.86	$ 48.95	$ 1.22	$ 2.09
Harmening, Michael		40	$ -	$ -	$ -	$ -
Kinshaw, Brandom		40	$ -	$ -	$ -	$ -
Knepper, John		40	$ -	$ 48.95	$ 1.22	$ 1.22
Losh, Joseph C		40	$ -	$ 48.95	$ 1.22	$ 1.22
Murphy, Benjamin		40	$ -	$ -	$ -	$ -
Nissen, Ian A		40	$ -	$ 48.95	$ 1.22	$ 1.22
Pohlman, Robert K		40	$ 0.92	$ 48.95	$ 1.22	$ 2.14
Riemenschneider, Matt M		40	$ -	$ 48.95	$ 1.85	$ 1.85
Runge, Matt		40	$ -	$ 48.95	$ 1.22	$ 1.22
Saltz, Gary		40	$ -	$ 48.95	$ 1.22	$ 1.22
Snyder, Blain		40	$ -	$ -	$ -	$ -
Sorsen, Josh		40	$ -	$ 48.95	$ 1.22	$ 1.22
Tyer, Brad		40	$ -	$ -	$ -	$ -
Watson, Shaun R		40	$ 0.82	$ 48.95	$ 1.22	$ 2.04
Webster, Don D		40	$ 0.99	$ 48.95	$ 1.22	$ 2.21
Whitson, Joel		40	$ -	$ 48.95	$ 1.22	$ 1.22
Wombacher, Aaron		40	$ -	$ 48.95	$ 1.22	$ 1.22

Show Back | << Rotate | Rotate >> | + | - | Close Window

5029

J & K Contracting LLC
1307 E LINCOLN WAY
AMES, IA 50010
(515) 233-5500

VALLEY BANK
1103 BUCKEYE AVE SUITE 104
AMES, IA 50010
72-218/739

9/7/2010

PAY TO THE ORDER OF Brad Tyer $ **776.01

Seven Hundred Seventy-Six and 01/100********** DOLLARS

Brad Tyer
215 W Green St
Winterset, IA 50273

MEMO

⑈005029⑈ ⑆073902180⑆ 103 038 6⑈

LIST OF ACCOUNTS | EXPRESS TRANSFER | BILL PAY | LOG OFF | USER OPTIONS | HELP

Balances
Transactions
Scheduled Transfers
Statements/ Notices
Disclosure

Account-to-Date Transactions on BUSINESS CHECKING ***0386 - $138,308.44 **as of September 21, 2010**

Export

	Date	Check Number	Description	Debit	Credit
☐	09/14/2010	5029	CHECK	776.01	

Select Export Format... Export

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See IM 3.805, Attachment D, Section 2.24 DAVIS-BACON WAGE REQUIREMENTS

Project Engineer's Involvement

A. Field Procedure page 2-26

CONTRACTORS' PAYROLLS

COUNTY _____

PROJECT NO. _____

TYPE OF WORK _____

DESIGN NO. _____

WAGE DECISION NO. _____

_____
PRIME CONTRACTOR

_____
Subcontractor (if any)

WEEK ENDING	PAYROLL NUMBER	DATE IN OFFICE	COPY TO INSPECTOR	DAYS BETWEEN PAYROLLS

See IM 3.805, Attachment D, Section 2.22 EQUAL EMPLOYMENT OPPORTUNITY (EEO)

A. **Contractor's Responsibility**
   1. Contractor's EEO Policy page 2-11
   2. Postings page 2-12
   3. Reports and Records page 2-12 to 13

B. **Project Engineer's Responsibility**
   1. Subcontract Request page 2-13
   2. Review of Project Bulletin Boards page 2-13
   3. "EEO Project Site Inspection/Wage Rate Report" page 2-13 to 14
   4. In-depth EEO Inspections page 2-14

See IM 3.805, Attachment D, Section 2.23 TRAINING PROGRAMS

A. **Contractor's Responsibility** page 2-14 to 15

PUBLIC INVOLVEMENT

Subrecipients must provide an opportunity for public involvement and full access to the transportation decision-making process in each stage of the planning and development of a transportation project. It is essential that everyone be afforded an opportunity to understand and articulate their concerns with any project that affects them and their way of life.

FEDERAL-AID CONTRACT PROVISIONS

Subrecipients must include notifications in all solicitations for bids of work or material and agreements subject to Title VI of the Civil Rights Act of 1964 and other nondiscrimination authorities. Subrecipient's contractor(s) may not discriminate in the selection and retention of any subcontractors.

Subrecipients, contractors and subcontractors may not discriminate in their employment practices in connection with highway construction projects or federal financially assisted projects.

DATA COLLECTION

Subrecipients must provide, when requested, statistical data (race, color, national origin) of participants and beneficiaries of their programs. Data includes, but is not limited to, public meetings, relocations, low income and limited-English proficient individuals served.

LIMITED-ENGLISH PROFICIENCY (LEP)

Subrecipients and contractors must take reasonable steps to provide meaningful access to LEP individuals. Among the factors to be considered in determining what constitutes reasonable steps to ensure meaningful access are the: (1) number or proportion of LEP persons in the eligible service population; (2) frequency with which LEP individuals come in contact with the program or activity; (3) importance of the service provided by the program; and (4) resources available to the recipient.

Disclaimer: This brochure is intended to be a guide for subrecipients. It is not intended to be all inclusive of Title VI and other nondiscrimination authorities or subrecipient responsibilities. Please contact the Iowa DOT's district office for technical assistance, additional information and other requirements.

District 1
1020 S. Fourth St., Ames 50010
515-239-1635 800-899-0623 Fax: 515-239-1472

District 2
1420 Fourth St. S.E., Mason City 50401-4438
641-423-7584 800-477-4368 Fax: 641-423-0246

District 3
2800 Gordon Dr., P.O. Box 987, Sioux City 51102-0987
712-276-1451 800-284-4368 Fax: 712-276-2822

District 4
2210 E. Seventh St., Atlantic 50022
712-243-3355 800-289-4368 Fax: 712-243-6788

District 5
307 W. Briggs, P.O. Box 587, Fairfield 52556-0587
641-472-4171 800-766-4368 Fax: 641-472-3622

District 6
430 16th Ave. S.W., Cedar Rapids 52404
319-364-0235 800-866-4368 Fax: 319-364-9614

Iowa Department of Transportation
Office of Employee Services
civil rights section
800 Lincoln Way
Ames, Iowa 50010
Phone: 515-239-1921

This brochure is designed to help you understand your responsibilities under Title VI of the Civil Rights Act of 1964 as a subrecipient of federal funds.

04/12/11
MM411

TITLE VI

subrecipient guide to implementing Title VI of the Civil Rights Act of 1964

Federal and state laws prohibit employment and/or public accommodation discrimination on the basis of age, color, creed, disability, gender identity, national origin, pregnancy, race, religion, sex, sexual orientation or veteran's status. If you believe you have been discriminated against, please contact the Iowa Civil Rights Commission at 800-457-4416 or Iowa Department of Transportation's civil rights coordinator. If you need accommodations because of a disability to access the Iowa Department of Transportation's services, contact the agency's affirmative action officer at 800-262-0003.

Iowa Department of Transportation

WHO IS A PRIMARY RECIPIENT AND SUBRECIPIENT?

A primary recipient is an entity or person that directly receives federal financial assistance and/or manages a program or activity, which would subject them to Title VI compliance responsibilities. In this situation, the Iowa DOT is the primary recipient.

A subrecipient is an entity or person that indirectly receives federal financial assistance to implement a program or activity, which subjects them to Title VI compliance responsibilities. A subrecipient may include, but is not limited to, a city, county, metropolitan or regional planning organization, transit agency, college/university, contractor or subgrantee.

WHAT IS TITLE VI OF THE CIVIL RIGHTS ACT OF 1964?

Title VI of the Civil Rights Act of 1964 is a federal law that protects individuals, groups and organizations from discrimination on the basis of race, color or national origin in federally assisted programs and activities. Because other nondiscrimination authorities have expanded the scope and range of Title VI application and reach, reference to Title VI includes other provisions of federal statutes and related authorities to the extent that they prohibit discrimination in programs and activities receiving federal financial assistance. These related authorities include:

The Civil Rights Restoration Act of 1987 which further clarified the intent of Title VI to include all programs and activities of entities whether those programs and activities are federally funded or not.

Environmental justice (EJ) (Executive Order 12898) addresses disproportionate adverse environmental, social and economic impacts that may exist in communities, specifically minority and low-income populations.

Limited-English proficiency (LEP) (Executive Order 13166) addresses access to services for persons whose primary language is not English and who have limited ability to read, write, speak or understand English.

The Uniform Relocation Act of 1970 (42 U.S.C. § 4601) prohibits unfair and inequitable treatment of persons displaced or whose property will be acquired as a result of federal financially assisted programs or activities.

Section 504 of the Rehabilitation Act of 1973 (29 U.S.C., 790) prohibits discrimination based on a handicap/disability.

The Federal-Aid Highway Act of 1973 (23 U.S.C., 324) prohibits discrimination based on sex (gender).

The Age Discrimination Act of 1975 (42 U.S.C., 6101) prohibits discrimination based on age.

ASSURANCE

The subrecipient must complete a statement assuring compliance with Title VI of the Civil Rights Act of 1964, and certain other associated regulations and statutes.

TITLE VI PROGRAM

Subrecipients of federal financial assistance may adapt or adopt the Iowa DOT's Title VI program, procedures or practices; or must have a Title VI program or signed assurance agreement, which, at a minimum, should contain the following elements.

Policy statement

The policy statement must indicate the subrecipient's commitment to assure nondiscrimination in its program and activities to the effect that no person shall on the grounds of race, color, national origin, sex, age, disability or income status be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination or retaliation under any federally or nonfederally funded program or activity administered by the subrecipient and/or its contractors. The policy statement must be signed by the head of the subrecipient's organization.

Title VI liaison

The subrecipient must designate a liaison for Title VI issues and complaints within the organization.

The liaison is the focal point for Title VI implementation and monitoring of programs and/or activities receiving federal financial assistance from the Iowa DOT

Key responsibilities of the Title VI liaison include the following.

- Knowledge of Title VI and the complaint process
- Attend training on Title VI and other nondiscrimination authorities when offered by the Iowa DOT
- Disseminate Title VI information to the public and in languages other than English, when necessary
- Coordinate and execute Title VI educational and outreach activities
- Develop a process to collect information on race, gender and national origin of persons relocated, impacted citizens and affected communities to ensure low-income, minorities and other under-served groups are included and not disproportionately impacted
- Implement procedures for the prompt processing of Title VI discrimination complaints

COMPLAINT PROCEDURES

Subrecipients of federal financial assistance shall follow the Iowa DOT's procedure for processing discrimination complaints. Subrecipients shall accept all complaints of discrimination.

Complaints shall include:

- The complainant(s) name, address and phone number.
- A description of the incident that led the complainant to believe discrimination occurred.
- The basis of the complaint (i.e., race, color, national origin, sex, age, disability, income status or retaliation).
- The date(s) on which the alleged discrimination occurred.
- Name(s) and contact information of individuals who may have knowledge of the alleged discrimination.

All complaints shall be responded to, recorded and investigated. The records shall be maintained by the designated Title VI liaison.

* ***Note: Subrecipients cannot investigate themselves.***

Excerpt from FHWA-1273 – Revised May 1, 2012

REQUIRED CONTRACT PROVISIONS
FEDERAL-AID CONSTRUCTION CONTRACTS

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

NOTICE TO ALL PERSONNEL ENGAGED ON FEDERAL-AID HIGHWAY PROJECTS

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined not more that $10,000 or imprisoned not more than 5 years or both."

NON-FEDERAL AID PROJECTS

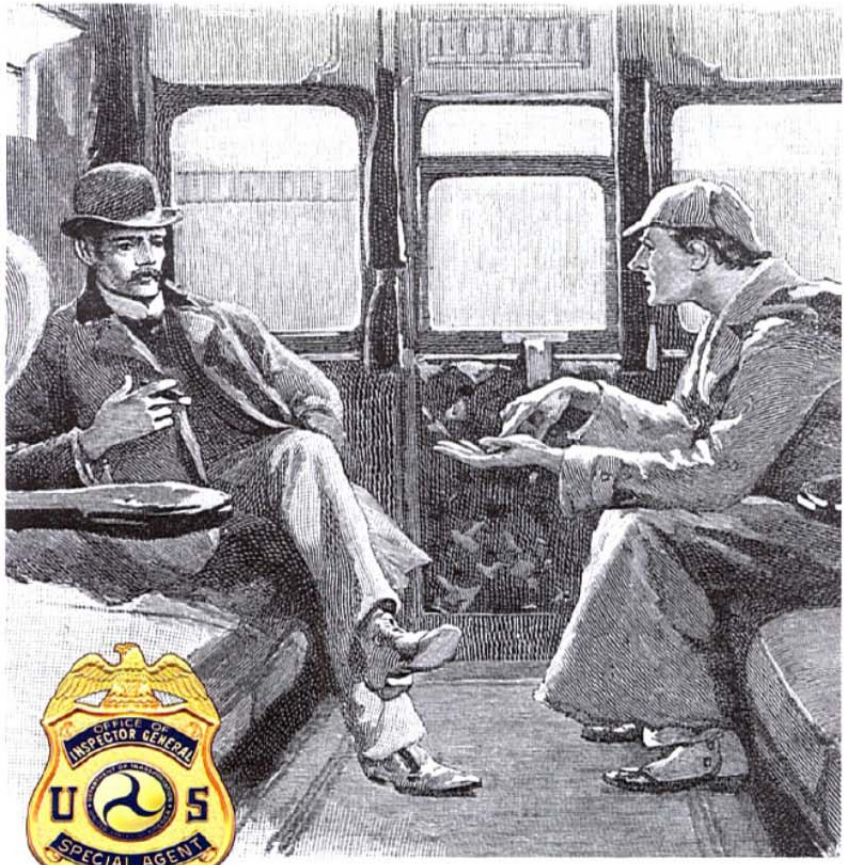
Iowa Code 714.8, subsection 3, defines fraudulent practices. "A person who does any of the following acts is guilty of a fraudulent practice. Subsection 3, Knowingly executes of tenders a false certification under penalty of perjury, false affidavit, or false certificate, if the certification, affidavit, or certificate is required by law or given in support of a claim for compensation, indemnification, restitution, or other payment." Depending on the amount of money claimed for payment, this could be a Class C or Class D felony, with potential fines, and/or prison.

The above codes refer to the individual making the false statement. **Standard Specifications Article** 1102.03, paragraph C. section 5 refers to the Contractor.

1102.03 IMPOSITION OF INCREASE IN BIDDER QUALIFICATION REQUIREMENTS, SUSPENSION, AND DISQUALIFICATION.

A. 3. A contractor may be disqualified from bidder qualification if or when:

e. The contractor has falsified documents or certifications, or has knowingly provided false information to the Department or the Contracting Authority



"It's elementary my dear Watson..."

Fraud is deliberate deception to secure an unfair gain.

Recognize and Report Fraud in Federally Funded Programs, Contracts, and Grants

(800) 424-9071

U.S. Department of Transportation
Office of Inspector General

Reporting Concerns About Fraud, Waste, Abuse, and Other Irregularities

OIG maintains a hotline to report allegations of fraud, waste, abuse, and other irregularities in USDOT programs or operations. Allegations may be reported by USDOT employees, contractors, or the public. The OIG Hotline is available 24 hours a day, 7 days a week. Issues that should be reported include the following:

- ✓ Contract, procurement, and grant fraud
- ✓ Environment, health, and safety violations
- ✓ Computer crimes
- ✓ Product substitution, including suspected unapproved and counterfeit aircraft parts
- ✓ Bribery, kickbacks, and gratuities
- ✓ False statements and false claims
- ✓ Conflicts of interest and ethics violations
- ✓ Travel fraud, theft, and/or abuse of Government property
- ✓ Other violations of Federal laws and regulations

Contact OIG using any of the following methods:

Online complaint form: www.oig.dot.gov/hotlineform.jsp
Telephone: (800) 424-9071
Fax: (540) 373-2090
E-mail: hotline@oig.dot.gov
Mail: USDOT Inspector General
P.O. Box 708
Fredericksburg, VA 22404-0708

Note: The OIG Hotline is obligated to expeditiously forward all safety-related complaints to USDOT's safety regulatory agencies for action, as appropriate.

Conflict of Interest

In fraud involving conflict of interest, a contracting or oversight official misrepresents that he or she is impartial in business decisions when he or she has an undisclosed financial interest in a contractor or consultant who inflates the job cost to the Government.

Recognize and Report Fraud in Federally Funded Programs, Contracts, and Grants

(800) 424-9071

U.S. Department of Transportation
Office of Inspector General

Selected "Red Flag" Indicators of Conflicts of Interest

- ✓ Unexplained or unusual favoritism shown to a particular contractor or consultant
- ✓ Government official disclosing confidential bid information to a contractor or assisting the contractor in preparing the bid
- ✓ Employee having discussions about employment with a current or prospective contractor or consultant
- ✓ Close socialization with and acceptance of inappropriate gifts, travel, or entertainment from a contractor
- ✓ Vendor or consultant address being incomplete or matching employee's address
- ✓ Government official leasing or renting equipment to a contractor for performing contract work
- ✓ Contracting or purchasing employee lives beyond his or her means
- ✓ Contracting employee fails to file Conflict of Interest or Financial Disclosure forms
- ✓ Employee declines promotion from a procurement position

Contact OIG using any of the following methods:

Online complaint form: www.oig.dot.gov/hotlineform.jsp
Telephone: (800) 424-9071
Fax: (540) 373-2090
E-mail: hotline@oig.dot.gov
Mail: USDOT Inspector General
P.O. Box 708
Fredericksburg, VA 22404-0708

Note: The OIG Hotline is obligated to expeditiously forward all safety-related complaints to USDOT's safety regulatory agencies for action, as appropriate.

Bribery

Bribery occurs when a contractor misrepresents the cost of performing work by compensating a government official for permitting contract overcharges to increase contractor profit.

Recognize and Report Fraud in Federally Funded Programs, Contracts, and Grants

(800) 424-9071

U.S. Department of Transportation
Office of Inspector General

Selected "Red Flag" Indicators of Bribery

- ✓ Other government inspectors at the job site notice a pattern of preferential contractor treatment
- ✓ Government official has a lifestyle that exceeds his or her salary
- ✓ Contract change orders lack sufficient justification
- ✓ Oversight officials socialize with, or have business relationships with, contractors or their families
- ✓ Involvement of an unnecessary middleman or broker
- ✓ Contracting employee declines promotion to a non-procurement position
- ✓ Contracting employee insists contractors use a certain subcontractor or broker
- ✓ Keen interest by a contracting employee in the award of a contract on purchase order to a particular contractor or vendor

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Kickbacks

In kickback schemes, a contractor or subcontractor misrepresents the cost of performing work by secretly paying a fee for being awarded the contract and therefore inflating the job cost to the government.

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Office of Inspector General

Selected "Red Flag" Indicators of Kickbacks

- ✓ Unexplained or unreasonable limitations on the number of potential subcontractors contracted for bid or offer
- ✓ Continuing awards to subcontractors with poor performance records
- ✓ Nonaward of subcontract to lowest bidder
- ✓ "No-value-added" technical specifications that dictate contract awards to particular companies
- ✓ Non-qualified and/or unlicensed subcontractors working on prime contracts
- ✓ Poor or no established contractor procedures for awarding of subcontracts through competition
- ✓ Kickback amount is passed on to the Government
- ✓ Lack of separation of duties between purchasing, receiving, and storing
- ✓ Purchasing employees maintaining a standard of living exceeding their income

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Disadvantaged Business Enterprise (DBE) Fraud

Under this scheme, a contractor misrepresents who performed the contract work in order to increase job profit while appearing to be in compliance with contract goals for involvement of minority- or women-owned businesses.

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U.S. Department of Transportation
Office of Inspector General

Selected "Red Flag" Indicators of Disadvantaged Business Enterprise (DBE) Fraud

- ✓ DBE owner lacking background, expertise, or equipment to perform subcontract work
- ✓ Employees shuttling back and forth between prime contractor and DBE-owned business payrolls
- ✓ Business names on equipment and vehicles covered with paint or magnetic signs
- ✓ Orders and payment for necessary supplies made by individuals not employed by DBE-owned business
- ✓ Prime contractor facilitated purchase of DBE-owned business
- ✓ DBE owner never present at job site
- ✓ Prime contractor always uses the same DBE
- ✓ Financial agreements between prime and DBE contractors
- ✓ Joint bank accounts (Prime/DBE)
- ✓ Absence of written contracts

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E-mail: hotline@oig.dot.gov
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Time Overcharging

In a time overcharging scheme, a consultant or contractor misrepresents the distribution of employee labor on jobs in order to charge for more work hours, or a higher overhead rate to increase profit.

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(800) 424-9071

U.S. Department of Transportation
Office of Inspector General

Selected "Red Flag" Indicators of Time Overcharging

- ✓ Unauthorized alterations to time—cards and other source records
- ✓ Billed hours and dollars consistently at or near budgeted amounts
- ✓ Timecards filled out by supervisors, not by employees
- ✓ Photocopies of timecards where originals are expected
- ✓ Inconsistencies between consultant's labor distribution records and employee timecards
- ✓ Frequent adjusting of journal entries with descriptions such as changed wrong "work order" or "contract number"
- ✓ Labor charges inconsistent with contract progress
- ✓ Personnel files that cannot be found or "found" after a delay
- ✓ Lack of a clear audit trail to verify propriety of labor charges

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E-mail: hotline@oig.dot.gov
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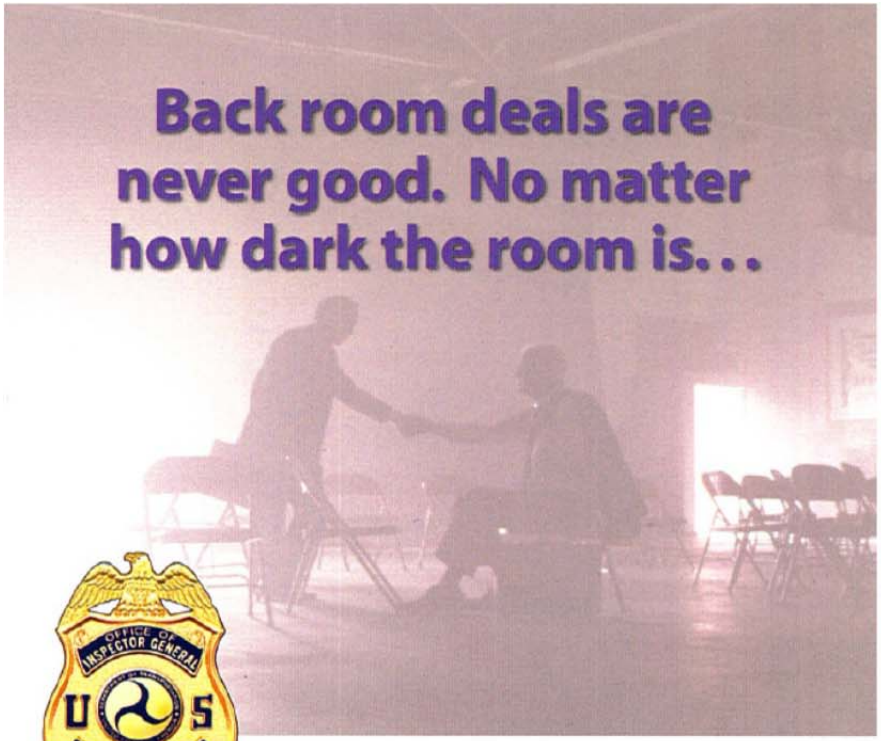

Bid Rigging and Collusion

In bid rigging and collusion, contractors misrepresent that they are competing against each other when, in fact, they agree to cooperate on the winning bid to increase job profit.

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U.S. Department of Transportation
Office of Inspector General

Selected "Red Flag" Indicators of Bid Rigging and Collusion

- ✓ Unusual bid patterns: too close, too high, round numbers, or identical winning margins or percentages
- ✓ Different contractors making identical errors in contract bids
- ✓ Bid prices dropping when a new bidder enters the competition
- ✓ Rotation of winning bidders by job, type of work, or geographical area
- ✓ Losing bidders hired as subcontractors
- ✓ Apparent connections between bidders: common addresses, personnel, or telephone numbers
- ✓ Losing bidders submitting identical line-item bid amounts on nonstandard items
- ✓ Persistent high prices by all bidders
- ✓ Joint venture bids by firms that usually bid alone
- ✓ Losing bids do not comply with bid specifications or only one bid is complete and other bids are poorly prepared

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Dishonest contractors think you aren't checking the bills...

Materials Overcharging

Under this fraud scheme, a contractor misrepresents how much construction material was actually used on the job and then is paid for excess material to increase job profit.

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Selected "Red Flag" Indicators of Materials Overcharging

- ✓ Discrepancies between contractor-provided quantity documentation and observed data, including yield calculations
- ✓ Refusal or inability to provide supporting documentation
- ✓ Contractor consistently loading job materials into equipment away from inspector oversight
- ✓ Truck weight tickets or plant production records with altered or missing information
- ✓ Photocopies of quantity documentation where originals are expected
- ✓ Irregularities in color or content of weight slips or other contractor documents used to calculate pay quantities
- ✓ No receiving report for invoiced goods
- ✓ Unusually high volume of purchases from one vendor
- ✓ Invoiced goods cannot be located in inventory or accounted for

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Quality Control Testing

In this fraud scheme, a contractor misrepresents the results of quality control tests to earn contract incentives falsely or to avoid production shutdown in order to increase profits or limit costs.

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Selected "Red Flag" Indicators of Quality-Control Testing

- ✓ Contractor insisting on transporting quality control (QC) samples from the construction site to the lab
- ✓ Contractor not maintaining QC samples for later quality assurance (QA) testing
- ✓ Contractor challenging results or attempting to intimidate QA inspectors who obtain conflicting results
- ✓ Photocopies of QC test results where originals are expected
- ✓ Alterations or missing signatures on QC test results
- ✓ Contractor employees regularly taking or labeling QC samples away from inspector oversight
- ✓ Laboratory test reports are identical to sample descriptions and test results, varying only date and lot number tested
- ✓ Test results cannot be found or have been destroyed
- ✓ Test results are lost then "found" after delay

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Product Substitution

In a fraud scheme involving product substitution, a contractor misrepresents the product used in order to reduce costs for construction materials.

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U.S. Department of Transportation
Office of Inspector General

Selected "Red Flag" Indicators of Product Substitution

- ✓ Any mismarking or mislabeling of products and materials
- ✓ Contractor restricting or avoiding inspection of goods or services upon delivery
- ✓ Contractor refusing to provide supporting documentation regarding production or manufacturing
- ✓ Photocopies of necessary certification, delivery, and production records where originals are expected
- ✓ Irregularities in signatures, dates, or quantities on delivery documents
- ✓ High rate of rejections, returns, or failures
- ✓ Test record reflecting no failures or a high failure rate but contract is on time and profitable
- ✓ Unsigned certifications
- ✓ Contractor offers to select samples for testing programs
- ✓ Supplier entertains on provider gratuities to inspection personnel

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Project Plans

A Plan Reading class is available through the web- based training at the following address: **http://www.iowadot.gov/training/web_based_training.html**

A project plan is made up of several pages, directions for where information can be found is in **Chapter 1F-1** of the **Iowa Department of Transportation Design Manual.** Here is the address of that manual: **http://www.iowadot.gov/design/dmanual/manual.html?reload**

Plan Sheets – General Information

Plan sets can be very large; therefore, plan sheets are organized in a specific manner. This organization places related information together so it is not scattered throughout the plans, for example: typical cross sections are contained in the B sheets; estimated quantities are contained in the C sheets; mainline plan and profile information is contained in the D sheets; side road plan and profile information is contained in the E sheets; detour plan and profile information is contained in the F sheets; and so on. Organizing plans in this manner helps with the plan development process. In addition, it allows both designers and contractors to quickly locate information. Plan organization also assists in the printing process. Some sheets are printed in color, and others are not. Grouping sheets together reduces the number of files sent to the color printer. It also helps to standardize which types of sheets are printed in color.

Plan Organization

Plan sheets should be numbered as follows:

Page Number	Description
A.1, A.2, … (Include listed items in order shown and number sequentially.)	Title Sheets title sheet location map sheets (if needed) legend Sheet (if Black & White Plan Set) revision sheets (if needed)
B.1, B.2, …	Typical Cross Sections and Details
C.1, C.2, … (Include listed items in order shown and number sequentially.)	Quantities and General Information project description estimated project quantities estimate reference information standard road plans index of tabulations pollution prevention plan general notes tabulations (beginning with tabulation of incidentals (if needed))
D.1, D.2, …	Mainline Plan and Profile Sheets plan and profile legend and symbol information sheet mainline plan and profile sheets
E.1, E.2, …	Side Road Plan and Profile Sheets
F.1, F.2, …	Detour Pavement, Temporary Pavement Sheets detour plan and profile sheets
G.1, G.2, …	Survey Sheets reference ties and bench marks horizontal control and superelevation tabulations for all alignments

H.1, H.2, … HE.1, HE.2, …	Right-of-Way Sheets mainline right-of-way sheets side road right-of-way sheets
J.1, J.2, …	Traffic Control and Staging Sheets traffic control plan staging notes tabulation of special events traffic control and staging legend and symbol information sheet staging and traffic control sheet
K.1, K.2, …	Interchange Sheets interchange layout sheets ramp plan and profile sheets
L.1, L.2, …	Geometric, Staking, and Jointing Sheets geometrics and staking edge profiles jointing
M.1, M.2, …	Storm Sewer Sheets storm sewer legend and symbol information sheet storm sewer tabulations storm sewer plan and profile sheets
MIT.1, MIT.2	Wetland Sheets
N.1, N.2, …	Traffic Signal Sheets
P.1, P.2, …	Lighting Layout Sheets
Q.1, Q.2, …	Soils Sheets soils legend and symbol information sheet soils plan and profile sheets
R.1, R.2, …	Borrow Sheets
S.1, S.2, …	Sidewalk Sheets sidewalk legend and symbol information sheet sidewalk plan sheets sidewalk tabulations
SPS.1, SPS.2, …	Bridge Plan Soils Sheets
T.1, T.2, …	Earthwork Quantity Sheets
U.1, U.2, …	500 Series, Modified Standards and Detail Sheets
V.1, V.2, …	Bridge and Culvert Situation Plans
W.1, W.2, …	Mainline Cross Sections cross section legend and symbol information sheet mainline cross sections
X.1, X.2, …	Side Road Cross Sections
Y.1, Y.2, …	Ramp Cross Sections
Z.1, Z.2, …	Borrow Cross Sections

Standard Specifications For Highway and Bridge Construction

The Standard Specifications are set up in a numbered order of Divisions as follows:

DIVISIONS

Division 11. General Requirements and Covenants.
Division 20. Equipment Requirements.
Division 21. Earthwork, Subgrades, and Subbases.
Division 22. Base Courses.
Division 23. Surface Courses.
Division 24. Structures.
Division 25. Miscellaneous Construction.
Division 26. Roadside Development.
Division 41. Construction Materials.

Division 11. General Requirements and Covenants cover all projects, the same is true with Division 41. Construction Materials.

The rest of the Divisions cover specific work types, which include the bid items.
The Bid Item codes are set up with specific numbers for each item. The first four numbers correspond with the appropriate Division of work. Lets look at one to figure out how this works. Look at the 2nd bid item on the proposal, which is Item number 0150, Item code 2402-0425031, Granular Backfill, paid for by the Ton. To find where it is in the Standard Specification look for the first four numbers of the item code which are "2402", this tells you the bid item is in Division 24. The first page of Division 24 looks like this, which is a brief description of the type of work included in the Division.

DIVISION 24. STRUCTURES

This work consists of constructing various types of wood, steel, or concrete structures for bridges, viaducts, grade separations, retaining walls culverts, or other structures, according to the contract documents and requirements for the respective types in the sections listed below. Clearing and grubbing, channel change, and revetment will be constructed, measured, and paid for as provided in Sections 2101, 2104, and 2507, respectively.

Next look for the article that corresponds with the whole number 2402, next find the exact Description "Granular Backfill". Now read the specific section to determine the contract item requirements. Here is the text for the Granular Backfill item. Reading through it will tell you what the contract standards are for the bid item.

2402.03 CONSTRUCTION.

H. Placing Backfill Materials.

1. Place backfill material next to completed structures according to the following provisions or according to Section 2506. Use excavated material when flowable mortar or granular backfill material is not specified in the contract documents. Place backfill to natural ground line unless there is an inadequate quantity of suitable excavated material. If there is an inadequate quantity of suitable excavated material, continue placing backfill until the suitable material is depleted.

In addition to these specifications, the specifications for this item also include properties for the Materials which may be used.

1. When granular backfill material is specified, use backfill material meeting the requirements of Section 4133. When the volume of material excavated exceeds that of backfill material required by the contract documents, increase the quantity of granular backfill material furnished to provide backfill material for the excess volume of excavation. Place granular backfill material in layers no more than 8 inches (200 mm) thick. Thoroughly tamp or vibrate each layer to insure compaction. The Engineer may require granular backfill material to be moistened with water while being placed.

The Method of Measurement (MOM) and the Basis of Payment (BOP) are specified. These tell the inspector how the bid item is measured and paid for.

2402.04 METHOD OF MEASUREMENT

E. Granular Backfill.

1. The quantity of granular backfill material shown in the contract documents will be the quantity for which payment is made.

2. Granular backfill material required and furnished for structural concrete placement at bridge abutments will not be measured separately for payment.

2402.05 BASIS OF PAYMENT

G. Granular Backfill.

Payment for granular backfill material will be at the contract unit price per cubic yard or ton (cubic meter or megagram). The cost of granular backfill material required and furnished for structural concrete placement at bridge abutments is included in the contract unit price for the structural concrete.

Bid items which have item code which start with 2599 are not included in the standard specifications. The Method Of Measurement and Basis Of Payment will be in the plan or in a Special Provision. Many times plan and proposals notes may refer to other Standard Specifications as how to construct, allowable equipment, and specific material to be used for the Bid Item.

Standard Road Plans

The Standard Road Plans come in both Metric and Standard Units. They have been developed to show standardized design features, construction methods, and approved materials to be used in design plans for Interstate, Primary and Secondary road construction in the State of Iowa.

Following is an Index of the Standard Road Plans (as of October, 2012) :

BA	Barriers
EC	Erosion Control
EW	Earthwork
MI	Miscellaneous
PM	Pavement Markings
PV	Pavement
RF	Drainage
RK	Bridge Approach Pavement
RM	Signals and Lighting
RR	Pavement Rehabilitation
RV	Ramp and Median Crossover Geometrics
SI	Signs
SW	Sanitary and Storm Sewer
TC	Traffic Control
WM	Water Main

This is a tabulation you will find in the plans which shows the Standard Road Plans that apply to the project.

STANDARD ROAD PLANS

105-4
10-16-07

The following Standard Road Plans shall be considered applicable to construction work on this project.

Number	Date	Sheets	Title
RB-3	1/12/1999	1	CONCRETE DRIVES AND ALLEYS
RB-6	10/20/2009	7	PEDESTRIAN CURB RAMPS
RE-7	4/15/2003	1	DELINEATORS AND OBJECT MARKERS
RF-1	4/30/2001	1	CONCRETE CULVERT PIPE
RF-2	10/20/2009	1	CONSTRUCTION OF TYPE 'C' CONCRETE ADAPTORS FOR PIPE CULVERT CONNECTIONS
RF-19C	10/20/2009	1	SUBDRAINS (LONGITUDINAL)
RG-1	9/21/1999	1	P.C. CONCRETE PAVEMENT WIDENING
RH-50	10/21/2008	1	JOINTS (TRANSVERSE CONTRACTION)
RH-51	10/17/2006	1	JOINTS (LONGITUDINAL CONTRACTION)
RH-52	4/17/2007	1	JOINTS (EXPANSION)
RH-55	10/20/2009	2	DOWEL ASSEMBLIES
RM-38	4/27/1999	1	JUNCTION BOX (FIBER REINFORCED CONCRETE)
RR-4	10/16/2007	1	FULL DEPTH PCC PATCH WITH DOWELS (EXISTING NON-COMPOSITE PAVEMENT)
SW-101	4/21/2009	1	TRENCH BEDDING AND BACKFILL ZONES
SW-102	4/21/2009	2	RIGID GRAVITY PIPE TRENCH BEDDING
SW-510	10/20/2009	2	DOUBLE OPEN-THROAT CURB INTAKE, LARGE BOX
SW-545	10/20/2009	3	SINGLE OPEN-THROAT CURB INTAKE WITH EXTENDED OPENING
SW-602	10/20/2009	2	CASTINGS FOR STORM SEWER MANHOLES
TC-1	10/17/2006	1	WORK NOT AFFECTING TRAFFIC
TC-233	10/17/2006	1	PAVEMENT MARKING OPERATIONS
TC-419	10/20/2009	1	LANE CLOSURE ON UNDIVIDED HIGHWAY
TC-433	10/17/2006	1	PAVEMENT MARKING OPERATIONS
WM-101	4/21/2009	2	THRUST BLOCKS
WM-102	4/21/2009	1	TRACER SYSTEM

Make hard copies of these for your use in the field to make sure items are constructed as per the contract documents.

RECORD KEEPING

Record Keeping

METHOD OF MEASUREMENTS AND BASIS OF PAYMENTS

The Method of Measurement and Basis of Payment give details on measuring contract items for payment. This includes the unit of measurement for each item of work and points out incidental items of work. The Basis of Payment also tells how an item should be paid and what items are included. Some items can be complicated and all should be read carefully. For instance, 2601.22 (Erosion Control) the Basis of Payment states: Payment will not be allowed for the special ditch control and sod until the watering, as specified, has been completed. This ensures that the contractor completes the watering on the item.

Types of Payment

- Measured Quantity
- Plan Quantity
- Lump Sum
- Incidental

Measured Quantity
The measured quantity of an item may be linear foot, square yard, cubic yard, ton, acre, etc.

Plan Quantity
Items may be paid for by plan quantity by specification or plan quantity agreement. These items do not exceed the contract quantity.

A bid amount that is complete payment for that item's work as described in the contract documents including all necessary work to complete that item. The difference between Lump Sum and Plan Quantity is: Plan Quantity has a specific Basis of Payment, but will not be overrun or underrun unless the item has been affected by a related Change Order.

There are occasions when plan errors may affect Plan Quantities. Since there is no field measurement required for Plan Quantity, potential payment discrepancies have to be identified by whoever detects the error. All discrepancies must have backup data to support a change. Typically, a discrepancy shall be field-verified through actual measurements. Based on such field verifications(s), adjustments to Plan Quantity item s can be made.

Generally, Basis of Payment for Plan Quantity is written: "The quantity of xxxx for which payment will be made, will be the quantity shown in the contract documents."

Lump Sum
A bid amount that is complete payment for that item's work as described in the contract documents including all necessary work to complete that item. Further, no direct measurement will be made. Lump sum items have no specified Method of Measurement and have a Basis of Payment equal to 1. Lump sum quantities cannot overrun. Changes to the lump sum quantity are to be accomplished by creating an additional lump sum item with a change order.

An example of a lump sum item would be Traffic Control or Mobilization.

Incidental Items
These are items that are considered a part of the contract item. For example Rock, Sand and Cement are incidental to Concrete.

1109.01 MEASUREMENT OF QUANTITIES

The work completed under the contract will be measured in accordance with the contract documents. The standards of the U.S. DOT, FHWA, and ASTM SI-10 will be used.

A. Methods of Measurement.

1. Payment will be based on the actual quantity of work performed under the various classifications of work in the contract unless otherwise provided below or in the method of measurement for the various classes of work.

2. For items to be paid for by plan quantity by specification or plan quantity agreement, by written agreement between the Contractor and the Engineer, final settlement may be made on the basis of contract quantities without final field measurements. This agreement may be made before work is started or after work has been completed, if no material deviation from the original plans is involved. Except for those items for which quantities cannot be accurately predetermined, the contract quantities have been accurately and properly estimated, but adjustments will be made for obvious errors or authorized changes. The Engineer will exercise such controls and make such measurements as are necessary to assure that each item of work is done in substantial compliance with the contract documents. The use of this agreement for payment shall not be considered as a change in the contract.

3. When a contract item or quantity for any granular material is in tons (Mg), the quantity may be measured by volume.

1109.02 SCOPE OF PAYMENT

A. The Contractor shall accept the compensation herein provided as full payment for furnishing all material, labor, tools, and equipment and for performing all work under the contract or any extension thereof allowed under Article 1108.07; also, for all cost arising from the action of the elements or other natural causes, agreements, and performances, non-performances, or delays involving other contractors and third parties, or injunctions or lawsuits resulting there from, or from any unforeseen difficulties not otherwise provided for in the specifications and which may be encountered during prosecution of the work and up to the time of acceptance thereof, except damage to the work due to acts of war. Nothing herein shall in and of itself be construed to prejudice or deny any claim filed under provisions of Article 1109.11.

B. The contract price for any item shall be full compensation for acceptable work and for materials, equipment, tools, and labor for performance of all work necessary to complete the item in accordance with the contract documents, except as specifically exempt in the clauses covering the basis of payment for the item.

1109.03 PAYMENT FOR WORK PERFORMED

The Contractor shall receive and accept payment for work performed under the contract as follows:

A. Items of Work Performed Which Are Covered by Definite Prices Stipulated in the Contract.

1. For all items of acceptable work performed which are covered by definite unit prices or lump sum amounts specified in the contract, the Contractor shall receive and accept compensation at the rate specified in the contract, except for items identified as that of significant change as provided in Article 1109.16.

2. In making contract adjustments, consideration will be given to the portion of the cost of the work that can be classified as fixed costs, independent of the exact quantity of work performed, such as transportation and installation costs on equipment, overhead cost, etc. Any price adjustment will be arrived at from the standpoint that neither party to the contract shall be penalized by the increase or decrease in quantities which occasioned the price adjustment.

B. Extra Work.

Extra work ordered by the Engineer, of a quality or class not covered by the contract, will be paid for either at an agreed price or on a force account basis.

1. **Agreed Price Basis.**
   For extra work ordered by the Engineer and performed on an agreed price basis, the Engineer and the Contractor shall enter into a written agreement before the work is undertaken. This written agreement shall describe the extra work that is to be done and shall specify the agreed price or prices therefore.

1. **Force Account Basis.**
   - **a.** For extra work performed on a force account basis, the Contractor shall receive the rate of wage (or scale) agreed to in writing with the Engineer before beginning work for each and every hour that laborers, timekeepers, supervisors, and superintendents are actually engaged in work.
   - **b.** The Contractor shall receive the actual costs paid to, or in behalf of, workers by reason of subsistence and travel allowances, health and welfare benefits, pension fund benefits, or other benefits, when the amounts are required by a collective bargaining agreement or other employment contract generally applicable to the classes of labor employed on the work.
   - **c.** An amount equal to 35% of the sum of the above items will also be paid to the Contractor. The 35% shall cover compensation for furnishing the necessary small tools for work, together with all other overhead items of expense.
   - **d.** For property damage, liability, and worker's compensation insurance premiums, unemployment insurance contributions, and social security taxes on the force account work, the Contractor shall receive the actual cost, to which 10% will be added. The Contractor shall furnish evidence of the rate or rates paid for such bond, insurance, and tax.
   - **e.** The wage of the superintendent, timekeeper, or supervisor who is employed partly on force account work and partly on other work shall be prorated between two classes of work according to the number of persons shown by the payrolls as employed on each class of work.

f. For materials used on force account work, the Contractor shall receive the actual cost of materials delivered on the work, including the freight and handling charges as shown by original receipted bills, to which cost will be added a sum equal to 15% thereof.

g. Rental rate for machinery, tools, or equipment (except small hand tools which may be used) and fuel and lubricants shall be based on the average monthly rental rate published in the RENTAL RATE BLUE BOOK by Primedia Information, Inc. The Engineer and the Contractor shall agree on a rental rate in writing before extra work on force account basis is performed. Profit percentage shall not be added to the rental rate.

h. Compensation as herein provided shall be accepted by the Contractor as payment in full for extra work done on a force account basis. It will be assumed that such payment includes the use of tools and equipment for which no rate is allowed, overhead, and profit.

i. At the end of each day, the Contractor shall prepare payrolls in duplicate for labor furnished on a force account basis, using the Contracting Authority's standard force account forms. Both copies shall be signed by the inspector and Contractor's representative. One copy shall be furnished to the Engineer and one to the Contractor. Claims for extra work performed on a force account basis shall be submitted to the Engineer in triplicate. To the claims shall be attached such receipts or statements as the Engineer may require in support of such claims. Such claims shall be filed not later than the tenth day the month following that in which the work was actually performed, and shall include all labor charges, rental charges on machinery, tools, and equipment, and all material charges insofar as they are available.

3. Extra Work Performed by The Subcontractor.

The percentage markup to be allowed to the Contractor for extra work, including force account work, performed by a Subcontractor shall be in accordance with the following:

- 10% on the first $50,000 with a $100 minimum.
- 5% on the portion over $50,000.

C. Deficient Work.

1. Payment for work judged by the Engineer to be deficient work will be made at the reduced rate specified in the contract documents or, if no such rate is specified, at a modification of the contract price, as determined by the Engineer.

2. All contract price adjustments will be subject to the concurrence of the Contracting Authority.

1109.04 CANCELED WORK

A. The Contracting Authority will have the right to cancel any or all items from the contract when unforeseen circumstances, unanticipated design changes, or other reasons beyond the control of the Contractor prevent or unreasonably delay completion of the contract or certain items of the contract, or when the Contracting Authority determines that cancellation is in the public or national interest.

B. The Contractor may be prevented from starting work on a contract or an identified phase of a contract as a result of a delay caused by the Contracting Authority or others.

C. When the contract period is defined by the Approximate Starting Date and the delay prevents the Contractor's starting work on the contract or an identified phase of the contract for 30 calendar days beyond such date, the Contractor may request cancellation by written notice to the Engineer, stating the reasons therefore.

D. When the contract period is defined by the Late Start Date and the delay prevents the Contractor's starting for more than 30 calendar days after the date of award of contract and at least 30 calendar days beyond the date which, by notice to the Engineer, the Contractor proposed to start work, the Contractor may request cancellation by written notice to the Engineer, stating the reasons therefore.

E. In either case, within 30 calendar days from the date of the request, the Engineer will eliminate or minimize, if possible, the cause for the delay and issue a notice to proceed, redefine the basis on which the work is to proceed, or cancel the contract or phase of the contract.

F. The Contractor shall not use delays that occur prior to starting work or an identified phase of the work as a basis of a claim against the Contracting Authority except for an extension of contract period.

G. Notices described in this Article should be transmitted by certified mail.

H. For finished portions of non-major items canceled, the Contractor will be paid at the contract unit prices, in accordance with the provisions of Article 1109.03. For finished portions of major items canceled, the Contractor will be paid as provided in Article 1109.16. For all items, materials ordered and delivered for the unfinished portion of such canceled or omitted items, the Contracting Authority will pay cost plus 10% as an overhead charge. The Contractor's expense for work of handling or transporting this material shall be included in computing the cost. The Contracting Authority will also pay any actual expenses sustained by the Contractor by reason of such cancellation or omission and not represented by work completed or material delivered. In computation of material cost or expenses sustained, no anticipated profit will be included. Material paid for shall become the property of the Contracting Authority and shall be disposed of as directed by the Engineer.

Section 3.21 FIELD TESTING ON CONSTRUCTION PROJECTS

"Noncompliance Notice" (Form 830245)
Test results and work performed on contract items falling outside specification limits will be reported by the project inspector on a "Noncompliance Notice" (Form 832045).
■ Original copy will be immediately delivered to the contractor with the carbon copy retained by the inspector for project files.
■ Inspector should also immediately advise the project engineer.
When noncomplying tests occur before a material is placed, the material will be rejected and a "Noncompliance Notice" (Form 830245) is not needed. A "Noncompliance Notice" (Form 830245) is issued when non-complying tests occur for work in progress or where material is being placed.

When contractor quality control testing (when used in the acceptance decision) or verification testing (when used as the sole basis of acceptance) identifies that a lot is non-complying, the "Noncompliance Notice" (Form 830245) is to be issued. When the lot is non-complying, subsequent material shall not be placed until corrective action has been taken and the material is complying.

3.22 CONTRACTOR ASSISTED SAMPLING AND VALIDATION OF CONTRACTOR TEST RESULTS

Evaluation of Test Results

Specification 1105.04 requires project engineers to determine if project work is acceptable and within reasonably close conformity with contract documents. If the work is not in reasonable close conformity, the project engineer is permitted to provide an adjustment in the contract unit price for work that is deficient. However, the contractor may elect to remove the deficient work with no extra payment and replace it with construction that complies.

Whenever deviations from specification limits or tolerances occur, whether the deviation is to the extent that payment adjustments will be made or not, the contractor shall take immediate corrective action that will insure subsequent compliance. If immediate corrective action is not taken, the inspector will stop the work.

When test results are within specifications but continuously near the limits or tolerances on any sieve, the inspector will inform the contractor that corrective action would be advisable and document this advice in the project diary. Work will not be stopped, pending such corrective action, unless noncompliance has occurred.

Form 830245
05-06

Iowa Department of Transportation

NONCOMPLIANCE NOTICE

Contractor _____ Project No. _____

County _____ Contract ID No. _____ Date _____ Time _____

To: _____ _____ _____
(Name) (Title) (Signature)

You are hereby notified that the following observation and/or test noted _____

_____

_____

and is a violation of Article _____

The test data value is _____

_____

_____

and the specification limits are _____

_____

Additional tests may be performed.

The violation identified in this notice shall be ceased and/or corrected. This may require a modification of current practices or removal and replacement of materials, including labor, at no cost to the Contracting Authority.

You are to determine corrective action necessary.

You are to determine if you wish to discontinue operations until the violation is corrected or additional tests confirm or refute this failing test.

Remarks: _____

_____

_____

Correction: _____

_____

_____

Signed: _____
Inspector

Distribution: White Copy - Contractor; Canary Copy - Project Engineer; Pink Copy - Inspector

Form 830245
05-06 wd

Iowa Department of Transportation
NONCOMPLIANCE NOTICE

Contractor Manatt's, Inc. Project No. ESL-3827(611)--7S-77

County Polk Contract ID No. 773827611 Date 8/30/10 Time _____

To: Cameron Green (Name) Project Manager (Title) _____ (Signature)

You are hereby notified that the following observation and/or test noted Henriksen Contracting has been performing work as a subcontractor to J&K Contracting, a subcontractor of Manatt's, Inc. Henriksen must be approved as a subcontractor directly to Manatt's, Inc., the prime contractor.

and is a violation of Article 1108.01 (Iowa DOT Specification)

The test data value is N/A

and the specification limits are N/A

Additional tests may be performed.

The violation identified in this notice shall be ceased and/or corrected. This may require a modification of current practices or removal and replacement of materials, including labor, at no cost to the Contracting Authority.

You are to determine corrective action necessary.

You are to determine if you wish to discontinue operations until the violation is corrected or additional tests confirm or refute this failing test.

Remarks: Manatt's, Inc. shall submit a Subcontractor Request to the DOT for approval of Henriksen Contracting as a direct sub to Manatt's, Inc. Until approval is received from the DOT, Henriksen Contracting is prohibited from performing work on the project.

Correction: _____

Signed: _____
Inspector

Distribution: White Copy – Contractor; Canary Copy – Project Engineer; Pink Copy - Inspector

County: POLK
Contract ID: 77-3827-611
Date of Letting: 09/12/15
Wage Decision: IA08-1.2

To: Employees and Applicants

Equal Employment Opportunity (EEO) and Affirmative Action (AA) requirements apply to this contract. It is the policy of the contractors working on this contract to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age, or disability. Such action shall include: 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, pre-apprenticeship, and/or on-the-job training.

You should contact the Office of Contracts of the Iowa Department of Transportation at 515-239-1414 to register your complaint if you feel that you are being discriminated against because of your race, religion, sex, color, national origin, age, or disability.

Individuals seeking employment may contact the following contractors who will be working on this contract about employment opportunities and information about each company's training program.

Contractor	City	State	Telephone
ABSOLUTE CONCRETE CONSTRUCTION, INC	SLATER	IA	515/228-3030
ALDRICH LAND SURVEYS, INC.	GRIMES	IA	515/986-4922
AMERICAN FENCE CO. OF IOWA, INC.	DES MOINES	IA	515/265-6100
HENRIKSEN CONTRACTING, LLC.	GRIMES	IA	515/986-4243
HURST, ROCKY CONSTRUCTION, INC.	TRURO	IA	515/210-9093
IOWA SIGNAL INC.	CLIVE	IA	515/255-7748
J & K CONTRACTING	AMES	IA	515/233-5500
LEADER CONSTRUCTION COMPANY	DES MOINES	IA	515/988-8988
MANATT'S, INC.	BROOKLYN	IA	641/522-9206
ROADSAFE TRAFFIC SYSTEMS, INC.	DES MOINES	IA	515/284-5277
TRUELSEN BLUMENTHAL LLC D/B/A SOIL-	GRIMES	IA	515/986-3527

Iowa Department of Revenue
www.state.ia.us/tax

Iowa Department of Transportation
FO05 (650071) 8-03

DESIGNATED EXEMPT ENTITY
IOWA CONSTRUCTION SALES TAX EXEMPTION CERTIFICATE

This document may be completed by a designated exempt entity and given to their contractor and/or subcontractor along with an authorization letter. **Seller:** Keep this certificate in your files. **Contractor/Exempt Entity:** Keep a copy of this certificate for your records. **Do not send this to the Department of Revenue.**

Designated Exempt Entity		
CITY OF JOHNSTON, COMMUNITY DEV. DI		
Address 1		
6221 MERLE HAY RD, P.O. BOX 41		
Address 2		
City	State	Zip Code
JOHNSTON	IA	50131-0410
Construction Project Name		
09/12/15\106		
Construction Project Number (if used)		
77-3827-611		

General Contractor or Subcontractor Name		
HENRIKSEN CONTRACTING, LLC.		
Address 1		
3754 SE CAPITOL CIRCLE		
Address 2		
City	State	Zip Code
GRIMES	IA	50111-4858

Description of contract/subcontract (please print/type clearly)

POLK ESL-3827(611)--7S-77
PCC PAVEMENT WIDENING

The named contractor may purchase building materials used in the contract, exempt from sales tax. This exemption does NOT apply to materials, equipment and supplies consumed by the contractor or subcontractor.

Designated Exempt Entity Authorized Agent W. David Clark Date 8/31/10

31-013 (8/18/03)

AUTHORIZATION LETTER FROM IOWA DEPARTMENT OF TRANSPORTATION

Pursuant to Iowa Code Sections: 422.42(15) & (16), and 422.47(5), you are authorized to purchase building materials that will be incorporated into real property tax free for the project(s) listed above.

The above exemption certificate (or a copy of the certificate) may be provided to the suppliers of your building materials and will authorize them to sell you the materials exempt from Iowa sales tax and any applicable local option sales tax and school infrastructure local option sales tax. Complete information on qualifying materials and supplies can be found at www.state.ia.us/tax, the Iowa Department of Revenue (IDR) Web site. Links are found in the Business Taxes and Local Government categories.

It is your responsibility to keep records identifying the materials and supplies purchased and verifying they were used on this construction contract. Any materials purchased tax-free and not used on this construction project are subject to Iowa sales and applicable local option taxes. Should this occur, the tax must be paid directly by you to IDR in the same calendar quarter that you finish the contract. Contact the department at idrf@idrf.state.ia.us if you have questions on this requirement.

Contractors should be aware that the above certificate cannot be used to claim exemption from tax for items not used on this project or that do not qualify for exemption. Misuse could result in civil or criminal penalties.

Form 830245
05-06 wd

Iowa Department of Transportation
NONCOMPLIANCE NOTICE

Contractor Manatt's, Inc. Project No. ESL-3827(611)--7S-77

County Polk Contract ID No. 773827611 Date 8/30/10 Time 4:30pm

To: Cameron Green (Name) Project Manager (Title) (Signature)

You are hereby notified that the following observation and/or test noted Henriksen Contracting has been performing work as a subcontractor to J&K Contracting, a subcontractor of Manatt's, Inc. Henriksen must be approved as a subcontractor directly to Manatt's, Inc., the prime contractor.

and is a violation of Article 1108.01 (Iowa DOT Specification)

The test data value is N/A

and the specification limits are N/A

Additional tests may be performed.

The violation identified in this notice shall be ceased and/or corrected. This may require a modification of current practices or removal and replacement of materials, including labor, at no cost to the Contracting Authority.

You are to determine corrective action necessary.

You are to determine if you wish to discontinue operations until the violation is corrected or additional tests confirm or refute this failing test.

Remarks: Manatt's, Inc. shall submit a Subcontractor Request to the DOT for approval of Henriksen Contracting as a direct sub to Manatt's, Inc. Until approval is received from the DOT, Henriksen Contracting is prohibited from performing work on the project.

Correction: MANATT'S OBTAINED APPROVAL FOR HENRIKSEN CONTRACTING, LLC AS A SUB FOR THE PROJECT. (SEE ATTACHED)

Signed: _____
Inspector
PROJ. ENGR.

Distribution: White Copy – Contractor; Canary Copy – Project Engineer; Pink Copy - Inspector

See IM 3.805, Attachment D, Section **2.31 ADMINISTRATION OF THE CONTRACT PERIOD**

Working Day - pages 2-43 & 44

1108.02 PROSECUTION OF WORK.

E. Charging of Working Days.

1. The Contractor will be charged working days as defined in Article 1101.03 and this article. For multiple site contracts, working day charges for each site will be charged independently based on the controlling operation for the site.

2. Working days will be charged beginning with the following circumstances:
~~**a.** On the date specified for projects with a Specified Start Date.~~
b. On the date that has been agreed to at the preconstruction conference for ~~projects~~ contracts with an Approximate Start Date.
c. On the start date indicated in the Notice to Proceed for ~~projects~~ contracts with an Approximate Start Date.
d. On the day following the date the site becomes available if the Contractor is already working ~~on the site~~ onsite for ~~projects~~ contracts with an Approximate Start Date.
e. On the date the Contractor begins work prior to the Late Start Date.
f. On the date specified for ~~projects~~ contracts with a Late Start Date and the Contractor has not begun work prior to that date. However, working days will not be charged prior to 15 calendar days after the contract has been signed by ~~the Contracting Authority~~ all required entities, ~~as long as~~ provided the Contractor furnished the signed contract, performance bond, and proof of insurance within the time allowed by Article 1103.07~~;~~, and has not ~~begun~~ started work on the contract.

3. The Contractor will be charged 1/2 working day when weather or other conditions beyond the control of the Contractor permits work for at least 1/2 but less than 3/4 of a working day. The Contractor will not be charged a working day when weather or other conditions beyond the control of the Contractor work for less than 1/2 of a working day. In the event of adverse weather when work on a project is ready to be started or resumed and the Contractor is not on the project, working days will not be charged during the inclement weather period provided the Contractor starts work as soon as weather and ground conditions permit work to be started or resumed.

4. Working days will not be charged for Saturdays, Sundays, and recognized legal holidays the Contractor does not work. Working days will be charged for Saturdays, Sundays, and recognized legal holidays the Contractor does work. Work not requiring inspection may be performed on Saturdays with no time charged.

5. Deleted

6. Working days will be charged for cure time of pavement and structural concrete when it is the controlling item of work.

1101.03 DEFINITION OF TERMS.

Holidays.

- The following holidays are observed by the Department:
- New Year's Day, January 1,
- Martin Luther King, Jr.'s Birthday, third Monday in January,
- Memorial Day, last Monday in May,
- Independence Day, July 4,
- Labor Day, first Monday in September,
- Veterans Day, November 11,
- Thanksgiving Day, fourth Thursday in November,
- Friday after Thanksgiving, Friday after Thanksgiving Day, and
- Christmas Day, December 25.

See IM 3.805, Attachment D, Section 2.31 ADMINSTRATION OF THE CONTRACT PERIOD

Controlling Item of Work – page 2-45

See IM 3.805, Attachment D, Section 2.33 WEEKLY REPORT OF WORKING DAYS (Form 830238)

"Weekly Report of Working Days" (working day report) is an Iowa DOT form used to document time charged versus actual work completed. The use of computer generated forms is acceptable PROVIDED the computer form is modeled around Form 830238 and has few modifications.

Preparation of Form 830238 – pages 2-53 to 55

Form 830238
5-97 H-1907

Iowa Department of Transportation

WEEKLY REPORT OF WORKING DAYS

IMPORTANT! Whenever the prime or a subcontractor starts or completes work it shall be so stated on the corresponding daily line below. This shall also apply when work is resumed after a winter shutdown.

Late/Approx. Starting Date _____
Intermediate Construction Period, if specified _____
Length of project _____ km (miles)
Type of Work (If Bridge Give Design No.) _____

Report No. _____
Week Ending Sat. _____
County _____
Project No. _____
Contract No. _____

Contractor _____

Days of Week	Date	Controlling Operation	Explanation of Delays	Contractor Working Yes or No	Working Days Charged
Sunday					
Monday					
Tuesday					
Wednesday					
Thursday					
Friday					
Saturday					

Remarks:

Percent of Contract Completed _____

Percent of Time Used _____

TOTALS FOR THE WEEK	
Total Working Days Used Last Report	
Total Working Days Used To Date	
Number of Working Days Specified	

Type of Work	km (miles) or Quantity Completed To Date	Percent Completed To Date

Inspector _____

_____ Project Engineer

_____ Date

Form 830238
05-97 wd

Iowa Department of Transportation

WEEKLY REPORT OF WORKING DAYS

IMPORTANT! Whenever the prime or a subcontractor starts or completes work it shall be so stated on the corresponding daily line below. This shall also apply when work is resumed after a winter shutdown.

Late/Approx. Starting Date 3/22/2010
Intermediate Construction Period, if specified 100
Length of project 0.771 km (miles)
Type of Work (If Bridge Give Design No.) PCC

Report No. 25
Week Ending Sat. 09/11/10
County Polk
Project No. ESL-3827(611)--7S-77
Contract No. 77-3827-611

Contractor Manatt's, Inc.

Days of Week	Date	Controlling Operation	Explanation of Delays	Contractor Working Yes or No	Working Days Charged
Sunday	9/5	Stage 2 PCC Widening		No	0.0
Monday	9/6	Stage 2 PCC Widening		No	0.0
Tuesday	9/7	Stage 2 PCC Widening		Yes	1.0
Wednesday	9/8	Stage 2 PCC Widening		Yes	1.0
Thursday	9/9	Stage 2 PCC Widening		Yes	1.0
Friday	9/10	Stage 2 PCC Widening		Yes	1.0
Saturday	9/11	Stage 2 PCC Widening		Yes	0.0

Remarks:

Percent of Contract Completed 59.2%

Percent of Time Used 69.5%

Monday was the Labor Day holiday. All other days had good weather for critical path items.

TOTALS FOR THE WEEK	4.0
Total Working Days Used Last Report	65.5
Total Working Days Used To Date	69.5
Number of Working Days Specified	100

Type of Work	km (miles) Or Quantity Completed To Date	Percent Completed To Date

Inspector Patrick Hidder

Project Engineer

9-23-10
Date

Form 830238
05-97 wd

Iowa Department of Transportation

WEEKLY REPORT OF WORKING DAYS

IMPORTANT! Whenever the prime or a subcontractor starts or completes work it shall be so stated on the corresponding daily line below. This shall also apply when work is resumed after a winter shutdown.

Late/Approx. Starting Date 3/22/2010
Intermediate Construction Period, if specified 100
Length of project 0.771 km (miles)
Type of Work (If Bridge Give Design No.) PCC

Report No. 26
Week Ending Sat. 09/18/10
County Polk
Project No. ESL-3827(611)--7S-77
Contract No. 77-3827-611

Contractor Manatt's, Inc.

Days of Week	Date	Controlling Operation	Explanation of Delays	Contractor Working Yes or No	Working Days Charged
Sunday	9/12	Stage 2 PCC Widening		No	0.0
Monday	9/13	Stage 2 PCC Widening		Yes	1.0
Tuesday	9/14	Stage 2 PCC Widening		Yes	1.0
Wednesday	9/15	Stage 2 PCC Widening - Intake Tops		Yes	1.0
Thursday	9/16	Stage 2 PCC Widening - Intake Tops		Yes	1.0
Friday	9/17	Stage 2 PCC Widening - Intake Tops		Yes	1.0
Saturday	9/18	Stage 2 PCC Widening - Intake Tops		No	0.0

Remarks:

Percent of Contract Completed 73.0%

Percent of Time Used 74.5%

All days had good enough weather to be charged as working days.

TOTALS FOR THE WEEK	5.0
Total Working Days Used Last Report	69.5
Total Working Days Used To Date	74.5
Number of Working Days Specified	100

Type of Work	km (miles) Or Quantity Completed To Date	Percent Completed To Date

Inspector Patrick Hidder

Project Engineer

9-23-10
Date

Form 830238
05-97 wd

Iowa Department of Transportation

WEEKLY REPORT OF WORKING DAYS

IMPORTANT! Whenever the prime or a subcontractor starts or completes work it shall be so stated on the corresponding daily line below. This shall also apply when work is resumed after a winter shutdown.

Late/Approx. Starting Date 3/22/2010
Intermediate Construction Period, if specified 100
Length of project 0.771 km (miles)
Type of Work (If Bridge Give Design No.) PCC

Report No. 25
Week Ending Sat. 09/11/10
County Polk
Project No. ESL-3827(611)--7S-77
Contract No. 77-3827-611

Contractor Manatt's, Inc.

Days of Week	Date	Controlling Operation	Explanation of Delays	Contractor Working Yes or No	Working Days Charged
Sunday	9/5	Stage 2 PCC Widening		No	0.0
Monday	9/6	Stage 2 PCC Widening		No	0.0
Tuesday	9/7	Stage 2 PCC Widening		Yes	1.0
Wednesday	9/8	Stage 2 PCC Widening		Yes	1.0
Thursday	9/9	Stage 2 PCC Widening		Yes	1.0
Friday	9/10	Stage 2 PCC Widening		Yes	1.0
Saturday	9/11	Stage 2 PCC Widening		Yes	0.0

Remarks:

Percent of Contract Completed 59.2%

Percent of Time Used 69.5%

Monday was the Labor Day holiday. All other days had good weather for critical path items.

TOTALS FOR THE WEEK	4.0
Total Working Days Used Last Report	65.5
Total Working Days Used To Date	69.5
Number of Working Days Specified	100

Type of Work	km (miles) Or Quantity Completed To Date	Percent Completed To Date

Inspector Patrick Hidder

Project Engineer

9-23-10
Date

See IM 3.805, Attachment D, Section 2.34 LIQUIDATED DAMAGES AND EXTENSION OF CONTRACT TIME Page 2-57

Liquidated damages occur when a project has exceeded the number of working days specified on the contract.

The liquidated damages specified in the proposal form will be assessed, not as a penalty but as predetermined and agreed liquidated damages, for each working day that any work remains uncompleted beyond the number of working days allowed or any extension granted.

1101.03 DEFINITION OF TERMS.

Change Orders

A written order to the Contractor, signed by the Engineer, ordering a change in the performance of work or furnishing of materials, from that originally shown by the contract documents. Change orders duly signed and executed by the Contractor constitute authorized modifications of the contract, and may be performed at contract unit prices, agreed prices, or on a force account basis, as provided elsewhere in these specifications.

See IM 3.805, Attachment D, Section 2.36 Construction Manual Guidelines

CHANGE ORDERS (FORM 830240) – pages 2-62 to 74

A Change Order is a written order to a contractor for extra work, increase or decrease in contract quantities, or changes to the plans or specifications.

Policy for Change Orders page 2-62

Preparation of Change Order (Form 830240) page 2-65

If Change Orders are prepared listing both participating and non-participating items on one Change Order, there shall be a clear note provided indicating which items are participating.

Change Order Classification and Authorization

Non-Substantial and Substantial page 2-66 to 67

Checklist for Change Orders

- Impacts on time should be considered when the contract modification for extra work is written. If the impacts can be quantified, the number of days may be addressed in the contract modification. But, in many situations, the impact on contract time may not be known until the work is performed. In those cases, when impact on contract time has been determined and the Change Order has not been fully executed, the tme may be addressed on the Change Order. If the Change Order has been fully executed, another Change Order must be written to address the time.

  Impact on time due to the Change Order may be addressed in one of three ways:

  a. No change in contract time
  b. Contract period will be adjusted by “X” working (or calendar) days
  c. Impact on contract time will be reviewed at a later date or impact on the contract time cannot be determined at this time.

IOWA DOT
Form 831240 (12-15)

CHANGE ORDER

For Local Public Agency Projects

No.: _____

Non-Substantial: ☐

Substantial: ☐

_____
Administering Office Concurrence Date

Accounting ID No. (5-digit number): _____

Project Number: _____

Kind of Work: _____

Local Public Agency: _____

Contractor: _____

Date Prepared: _____

You are hereby authorized to make the following changes to the contract documents.

A - Description of change to be made:

B - Reason for change:

C - Settlement for cost(s) of change as follows with items addressed in Sections F and/or G:

D - Justification for cost(s) (See I.M. 3.805, Attachment D, Chapter 2.36, for acceptable justification):

E - Contract time adjustment: ☐ No Working Days added ☐ Working Days added: _____ ☐ Unknown at this time

Justification for selection:

IOWA DOT
Form 831240 (12-15)

Accounting ID No.(5-digit number):_____

Change Order No.:_____

F - Items included in contract:

Participating				For deductions enter as "-x.xx"		
Federal-aid	State-aid	Line Number	Item Description	Unit Price .xx	Quantity .xxx	Amount .xx
			Add Row Delete Row		TOTAL	

G - Items not included in contract:

Participating				For deductions enter as "-x.xx"		
Federal-aid	State-aid	Change Number	Item Description	Unit Price .xx	Quantity .xxx	Amount .xx
			Add Row Delete Row		TOTAL	

H. Signatures

Agreed: _____ Contractor _____ Date

Recommended: _____ Project Engineer _____ Date

Approved: _____ Person in Responsible Charge _____ Date _____ Other (optional) _____ Title _____ Date

_____ Contracting Authority (optional) _____ Date _____ Other (optional) _____ Title _____ Date

_____ Iowa DOT Administering Office _____ Date

Approval is contingent upon funds being available under the existing project agreement or upon additional Federal-aid funds being made available by a modified project agreement.

FHWA Concurrence: _____ Federal Highway Division Administration (if required) _____ Date

DISTRIBUTION (after fully executed on LPA projects): Original - Finance; Copies - Contractor, Project Engineer, Contracting Authority, Administering Office.

Date distributed: _____ Initials: _____

DIVISION 1: ESL (IOWA DOT AND CITY OF JOHNSTON)
DIVISION 2: CITY OF JOHNSTON

ESTIMATED PROJECT QUANTITIES

Item No.	Item Code	Item	Unit	Quantities		
				Estimated		
				Division 1	Division 2	Total
1	2102-2710070	EXCAVATION, CL 10, RDWY+BORROW	CY	4357		4357
2	2105-8425005	TOPSOIL, FURN+SPREAD	CY	1518		1518
3	2107-0875000	COMPACTION W/MOISTURE+DENSITY CONTROL	CY	2575		2575
4	2123-7450020	SHLD FINISH, EARTH	STA	57.1		57.1
5	2213-6745500	RMVL OF CURB	STA	40.15		40.15
6	2213-7100400	RELOCATION OF MAIL BOX	EACH	5		5
7	2301-1033095	STD/S-F PCC PAV'T, CL C CL 3, 9.5"	SY	853	6	859
8	2301-4874106	MEDIAN, DOWELLED PCC, 6"	SY	2145		2145
9	2301-4875006	MEDIAN, PCC, 6"	SY	112		112
10	2301-6911722	PCC PAV'T SAMPLE	LS	1		1
11	2302-1200095	PCC PAV'T WIDEN, 9.5"	SY	4612		4612
12	2401-6745356	RMVL OF CONC FOOTING OF LIGHT POLE	EACH	5		5
13	2401-6745765	RMVL OF LIGHT POLE	EACH	2		2
14	2401-6750001	REMVL	LS	1		1
15	2402-0425031	GRANULAR BACKFILL	TON	77		77
16	2403-0100000	STRUCT CONC (MISCELLANEOUS)	CY	78		78
17	2404-7775005	REINFORC STEEL, EPOXY COATED	LB	6732		6732
18	2414-6460000	ORNAMENTAL METAL RAIL	LF	282		282
19	2435-0251000	INTAKE, SW-510	EACH	1		1
20	2435-0254500	INTAKE, SW-545	EACH	3		3
21	2435-0254510	INTAKE, SW-545 MOD	EACH	5		5
22	2435-0600010	MANHOLE ADJUSTMENT, MINOR	EACH	2		2
23	2435-0600120	INTAKE ADJUSTMENT, MAJOR	EACH	1		1
24	2502-6745952	RMVL OF SUBDRAIN	LF	576		576
25	2502-8212034	SUBDRAIN, LONGITUDINAL, (SHLD) 4"	LF	480		480
26	2502-8213106	SUBDRAIN, PVC, STD, NON-PERFORATED, 6"	LF	111		111
27	2502-8213206	SUBDRAIN, PVC, STD, PERFORATED, 6"	LF		252	252
[illegible]	[illegible]	[illegible]	EACH	32	1	33

ESTIMATE REFERENCE INFORMATION

100-4A
10-29-02

Item No.	Item Code	Description
13	2401-6745765	RMVL OF LIGHT POLE A. REFER TO C SHEETS FOR REMOVAL OF LIGHT POLES TABULATION. B. THE LIGHT POLES REMOVED WILL BE COUNTED BY THE ENGINEER. THE CONTRACTOR WILL BE PAID THE CONTRACT UNIT PRICE PER EACH REMOVAL. THIS SHALL BE CONSIDERED FULL COMPENSATION FOR FURNISHING ALL TOOLS, EQUIPMENT, LABOR, AND MATERIALS NECESSARY FOR REMOVING LIGHT POLES AND APPURTENANCES AND DELIVERING THEM TO THE CITY OF JOHNSTON PUBLIC WORKS DEPARTMENT AT 6400 NW BEAVER DRIVE IN JOHNSTON, IA.
14	2401-6750001	REMVL A. REFER TO C SHEETS FOR REMOVALS, AS PER PLAN TABULATION AND STD. NOTE 213-1. B. REFER TO D SHEETS FOR REMOVAL LOCATIONS AND PLAN NOTES. C. THIS BID ITEM INCLUDES TRANSPORTING THE SALVAGED LIMESTONE RETAINING WALL BLOCKS TO THE CITY OF JOHNSTON PUBLIC WORKS DEPARTMENT AT 6400 NW BEAVER DRIVE IN JOHNSTON, IA.

DIVISION 1: ESL (IOWA DOT AND CITY OF JOHNSTON)
DIVISION 2: CITY OF JOHNSTON

ESTIMATED PROJECT QUANTITIES

Item No.	Item Code	Item	Unit	Quantities		
				Estimated		
				Division 1	Division 2	Total
36	2503-0200036	RMV STORM SWR PIPE LE 36"	LF	62		62
37	2510-6745850	RMVL OF PAV'T	SY	1545	6	1551
38	2510-6750600	RMVL OF INTAKE+UTILITY ACCESS	EACH	9		9
39	2511-6745900	RMVL OF SIDEWALK	SY	713		713
40	2511-7526004	SIDEWALK, PCC, 4"	SY	533		533
41	2511-7526006	SIDEWALK, PCC, 6"	SY	44		44
42	2511-7528100	DETECTABLE WARNING - CURB RAMP	SF	68		68
43	2512-1750006	CURB+GUTTER, PCC	LF	285		285
44	2515-2475006	DRIVEWAY, PCC, 6"	SY	112		112
45	2515-2475007	DRIVEWAY, PCC, 7"	SY	410		410
46	2515-6745600	RMVL OF PAVED DRIVEWAY	SY	988		988
47	2518-6910000	SAFETY CLOSURE	EACH	9		9
48	2523-0000200	ELECTRICAL CIRCUIT	LF	110		110
49	2523-0000310	HANDHOLE+JUNCTION BOX	EACH	4		4
50	2523-6765009	RMV+REINSTALL LIGHT POLE+LUMINAIRE	EACH	3		3
51	2524-9090001	DELINEATOR	EACH	7		7
52	2525-0000100	TRAFFIC SIGNALIZATION	LS	1		1
53	2526-8285000	CONSTRUCTION SURVEY	LS	1		1
54	2527-9263005	RAISED PAV'T MARKER	EACH	160		160
55	2527-9263109	PAINTED PAV'T MARK, WATERBORNE/SOLVENT	STA	80.1		80.1
56	2527-9263130	REMOVABLE TAPE MARK	STA	6		6
57	2527-9263137	PAINTED SYMBOL+LEGEND, WATERBORNE/SOLVNT	EACH	28		28
58	2527-9263180	PAV'T MARK RMVD	STA	50.3		50.3
59	2527-9263190	SYMBOL+LEGEND RMVD	EACH	2		2
60	2528-8445110	TRAFFIC CONTROL	LS	1		1
61	2528-8445112	FLAGGER	DAY	15		15
62	2529-2242304	CD JNT ASSEMBLY	EACH	10		10
63	2529-5070110	PATCH, FULL-DEPTH FINISH, BY AREA	SY	411		411
64	2529-5070120	PATCH, FULL-DEPTH FINISH, BY COUNT	EACH	30		30
65	2533-4980005	MOBILIZATION	LS	1		1
66	2554-0114012	WATER MAIN, TRENCHED, PVC, 12"	LF	373		373
67	2554-0203000	FITTINGS BY WEIGHT, DIP	LB	3098		3098
68	2554-0207012	VALVE, GATE, DIP, 12"	EACH	5		5
69	2554-0210201	FIRE HYDRANT ASSEMBLY, WM-201	EACH	5		5
70	2554-0212030	VALVE BOX REPLACEMENT	EACH	4		4
71	2599-9999005	REMOVE FIRE HYDRANT ASSEMBLY	EACH	5		5
72	2599-9999005	REMOVE VALVE, GATE, DIP, 12"	EACH	5		5
73	2599-9999006	SPECIAL INTAKE, SW-510	EACH	1		1

ESTIMATE REFERENCE INFORMATION

100-4A
10-29-02

Item No.	Item Code	Description
69	2554-0210201	FIRE HYDRANT ASSEMBLY, WM-201 A. REFER TO O SHEETS FOR LOCATIONS OF FIRE HYDRANT ASSEMBLIES. B. REFER TO C SHEETS FOR WATER MAIN TABULATION AND NOTES. C. FIRE HYDRANT ASSEMBLIES SHALL BE WATROUS 5-1/4 INCH PACER, YELLOW COLOR, WITH CAPTIVATER (BY AMERICAN FLOW CONTROL) LOCKING FIRE HYDRANT CAP, SEA FOAM GREEN COLOR, OR APPROVED EQUAL. D. BID ITEM INCLUDES CONNECTION TO EXISTING 12" X 6" TEE. BID ITEM ALSO INCLUDES 6", 90 DEG. BEND FITTING FOR SPECIFIC HYDRANT ASSEMBLIES AS NOTED IN THE TABULATION. E. THRUST BLOCKS ARE INCIDENTAL TO THIS ITEM.
70	2554-0212030	VALVE BOX REPLACEMENT A. REFER TO D AND E SHEETS FOR LOCATIONS OF WATER VALVE BOX ADJUSTMENTS AND POTENTIAL REPLACEMENTS. B. REFER TO C SHEETS FOR VALVE BOX ADJUSTMENT/REPLACEMENT TABULATION. C. THE CONTRACTOR SHALL FIELD REVIEW EXISTING VALVE BOXES TO BE ADJUSTED OR REPLACED WITH THE ENGINEER. IF EXISTING VALVE BOX CAN BE RAISED OR LOWERED TO ACHIEVE FINAL GRADE, CONTRACTOR SHALL U.A.C. AND ADJUST EXISTING VALVE BOX. IF EXISTING VALVE BOX CANNOT BE RAISED OR LOWERED TO ACHIEVE FINAL GRADE, THE CONTRACTOR SHALL REPLACE THE VALVE BOX AND DELIVER THE EXISTING VALVE BOX AND APPURTENANCES TO THE CITY OF JOHNSTON PUBLIC WORKS DEPARTMENT, 6400 NW BEAVER DRIVE, JOHNSTON, IA. D. BID QUANTITY ASSUMES EACH VALVE BOX WILL REQUIRE REPLACEMENT.
71	2599-9999005	REMOVE FIRE HYDRANT ASSEMBLY A. REFER TO D AND O SHEETS FOR LOCATIONS OF FIRE HYDRANT ASSEMBLY REMOVALS. B. REFER TO C SHEETS FOR REMOVAL OF EXISTING WATER MAIN STRUCTURES TABULATION AND STD. NOTE 213-1. C. THE EXISTING 12" X 6" TEE ON THE EXISTING WATER MAIN SHALL BE MAINTAINED AND USED TO CONNECT THE NEW FIRE HYDRANT ASSEMBLIES TO THE EXISTING WATER MAIN. D. THE FIRE HYDRANT ASSEMBLIES REMOVED WILL BE COUNTED BY THE ENGINEER. THE CONTRACTOR WILL BE PAID THE CONTRACT UNIT PRICE PER EACH FIRE HYDRANT REMOVED. THIS SHALL BE CONSIDERED FULL COMPENSATION FOR FURNISHING ALL TOOLS, EQUIPMENT, LABOR, AND MATERIALS NECESSARY FOR THE REMOVING, BACKFILLING, SALVAGING, AND TRANSPORTING OF EXISTING FIRE HYDRANTS TO THE CITY OF JOHNSTON PUBLIC WORKS DEPARTMENT, 6400 NW BEAVER DRIVE, JOHNSTON, IA.

Federal Funding Participation – Salvaged Materials

ESL-3827(611)--7S-77, NW 86th Street Widening – Johnston, Iowa

Problem

FHWA recently completed an audit of Iowa DOT Stimulus (ARRA) projects, ultimately discovering that federal funds were improperly allocated towards bid items involving salvaged materials.

Impact to NW 86th Street Widening Project

Three (3) bid items are affected by the described problem:

0130 – RMVL OF LIGHT POLE
Two (2) Light Poles are being salvaged and delivered by contractor to City

0140 – REMVL
Limestone Wall Blocks are being salvaged and delivered by contractor to City

0710 – REMOVE FIRE HYDRANT ASSEMBLY
Five (5) Hydrant Assemblies are being salvaged and delivered by contractor to City

Action Options

Option 1

- Submit 'street worth' estimate of all salvaged materials (see attached) to IDOT
- Estimated 'street worth' + bid item costs to remove, load and deliver must not exceed $5,000 in order to avoid changes in the allocations of federal funds
- **Based on the attached estimate, a reallocation of funds will be required**

Option 2

- Submit 'street worth' estimate of all salvaged materials (see attached) to IDOT
- Estimated 'street worth' must not exceed $5,000 in order to avoid changes in the allocations of federal funds
- File a change order directing the contractor to ONLY remove the salvaged materials and directing the City to load and haul the salvaged materials
- **Based on the attached estimate, a reallocation of funds will NOT be required and the City will obtain possession of salvaged materials as originally intended**

SAVE LIGHTS – WILL HAUL

Option 3

- Prepare 'street worth' estimate of all salvaged materials (see attached)
- File a change order directing the contractor to obtain possession of the salvaged materials following removals and, if deemed necessary by the City, include a price adjustment (credit to City/cost to Contractor) for the 'street worth' of all salvaged materials
- **Based on the attached estimate, the City 'could' receive a credit of around $2,700 but would NOT obtain possession of salvaged materials as originally intended**

GET PRICE ON WALL MATRL

SALVAGED MATERIALS ESTIMATE

ESL-3827(611)--7S-77, NW 86th Street Widening - Johnston, IA

Bid Item	Salvaged Material	Salvaged Quantity	Unit	Estimated Unit Value	Estimated Total Value
0130	Light Poles	2	Each	$200	$400
0140	Limestone Blocks (ret. wall)	26	Ton	$78	$2,028
0710	Fire Hydrant Assemblies	5	Each	$55	$275
				Total Value of Salvaged Materials	$2,703

Bid Item	Bid Item	Quantity	Unit	Unit Price	Amount
0130	Rmvl of Light Pole	2	Each	$157.50	$315.00
0140	Remvl *	1	LS	$2,100.00	$1,575.00
0710	Remove Fire Hydrant Assembly	5	Each	$260.40	$1,302.00
				Total Amount of Bid Items (removals and delivery of salvaged materials)	$3,192.00
				Total - Salvaged Material 'Street Worth' + Removal and Delivery of Salvaged Materials	$5,895.00

* $525 of unit price directed towards Detector Loops and Handholes removals

Estimated Value Justification

0130 Approximately 15 years old
Faded paint and rusted surfaces
Original cost estimated near $1500

0140 Based on 272' long and 2' (average) height
Individual blocks are 8"x8"x36"
272'x2'x8" = 363 cubic feet, and limestone unit weight is 140 pcf
New limestone blocks sell (from suppliers) for $155/Ton
Weathered (old inventory) limestone blocks sell (from suppliers) for 50% of original cost
Information received from Iowa supplier

0710 In ground for approximately 17 years
New hydrant assembly cost is $1575
Reuse is very unlikely - essentially scrap iron
Based on 600# per hydrant
Estimated scrap iron value is $175/Ton
Information received from Iowa supplier and Iowa salvage contractor

Simbro, Ryan

From: Cameron Green [camerong@manatts.com]
Sent: Friday, March 12, 2010 8:52 AM
To: Simbro, Ryan
Subject: 3807 Johnston -NW 86th Street
Attachments: Cameron Green.vcf

140 Retaining Wall Issue:	$1575
140 IA Signal Issues:	$525

Thank you,

Cameron Green
Manatts, Inc.

Cameron Green
Manatts
Project Manager/Estimator
(515) 278-0247 Work
(515) 971-3800 Mobile
camerong@manatts.com
6333 NW Beaver Road
Johnston, Iowa 50131
www.manatts.com

From: Simbro, Ryan [mailto:rsimbro@hrgreen.com]
Sent: Friday, March 12, 2010 8:41 AM
To: 'Cameron Green'
Cc: 'wayne@iowasignal.com'; Simbro, Ryan
Subject: FW: Johnston -NW 86th Street

Cameron –

Iowa Signal (Wayne) informed me they are not slated to remove the existing retaining wall block and deliver it to the City. Can you reply to me with your intentions for completing this portion of the Item 0140 REMVL work, and the cost you originally allocated to the same portion? As noted below, I need to provide cost data to the DOT (i.e. ONLY the cost to remove and deliver the salvaged retaining wall block to the City). I assume this cost may have been covered by Item 0650 MOBILIZATION.

Thanks.

Ryan K. Simbro, PE
Senior Project Engineer
Howard R. Green Company

From: Simbro, Ryan
Sent: Friday, March 12, 2010 7:59 AM
To: 'wayne@iowasignal.com'
Cc: Simbro, Ryan

Subject: Johnston -NW 86th Street

I received your voicemail.

I planned to contact you with a request anyway. For Bid Item 0140 REMVL, which includes removals of the traffic signal detector loops, handholes, and the existing retaining wall blocks near Long Meadow Drive, can you tell me what your cost split is for just the retaining wall block removal and delivering to the City? The bid amount is $2,100, but I need to know your cost for just the wall portion. I have to submit cost data to the DOT for federal fund participation purposes.

Thanks.

Ryan K. Simbro, PE
Senior Project Engineer
Howard R. Green Company
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Simbro, Ryan

From: Butin, Robert [DOT] [Robert.Butin@dot.iowa.gov]
Sent: Wednesday, April 07, 2010 12:55 PM
To: Simbro, Ryan
Cc: Moline, Todd [DOT]; Lehman, Anthony [DOT]; Purcell, Charlie [DOT]; Kennedy, Jim [DOT]
Subject: FW: Salvage credit question - city of Johnston ARRA project
Attachments: Est_031110_Salvaged_Materials.pdf

Ryan - Please prepare the EWO and send it to Todd Moline for his review/processing.

Thanks,
Bob

Robert E. Butin, P.E.
District 1 Local Systems Engineer
1020 S. Fourth Street
Ames IA 50010
robert.butin@dot.iowa.gov
Phone 515-239-1421
Fax 515-239-1472

From: Purcell, Charlie [DOT]
Sent: Wednesday, April 07, 2010 12:38 PM
To: 'Simbro, Ryan'
Cc: Butin, Robert [DOT]; Kennedy, Jim [DOT]; Lehman, Anthony [DOT]; Moline, Todd [DOT]
Subject: RE: Salvage credit question - city of Johnston ARRA project

Thanks Ryan. I'll defer to the District regarding the process for executing a change order.

Note to District: Since the material value is less than $5,000, we will not need to prepare a Form FHWA-1367 for this project. After the change order is executed, I don't anticipate we'll need anything else for this project.

Thanks,

M.J. "Charlie" Purcell
Director, Office of Local Systems
Iowa Department of Transportation
515-239-1532 charlie.purcell@dot.iowa.gov

From: Simbro, Ryan [mailto:rsimbro@hrgreen.com]
Sent: Wednesday, April 07, 2010 11:34 AM
To: Purcell, Charlie [DOT]
Cc: Butin, Robert [DOT]; Kennedy, Jim [DOT]; Lehman, Anthony [DOT]; Moline, Todd [DOT]
Subject: RE: Salvage credit question - city of Johnston ARRA project

After the lights were removed and laid down for good viewing, we realized we were not dealing with much value due to rust, etc. Nonetheless, attached is the fair market estimate – you may ignore the hydrant and wall items.

We'll proceed with the Change Order. Do I send it to Todd Moline for the District Signature?

Ryan K. Simbro, PE
Senior Project Engineer
Howard R. Green Company

From: Purcell, Charlie [DOT] [mailto:Charlie.Purcell@DOT.iowa.gov]
Sent: Wednesday, April 07, 2010 11:13 AM
To: Simbro, Ryan
Cc: Butin, Robert [DOT]; Kennedy, Jim [DOT]; Lehman, Anthony [DOT]; Moline, Todd [DOT]
Subject: RE: Salvage credit question - city of Johnston ARRA project

Ryan,

Regarding the light poles, you will still need to establish the fair market value of the materials. Since the city hauled them away, you don't need to account for the transportation cost. Once you've determined the fair market value of the lights, please send that information to me and copy the District so they know it is taken care of.

Regarding the fire hydrants and the retaining wall blocks, since the contract is allowed to keep them, you are correct that the salvage value no longer needs to be determined.

Thanks,

M.J. "Charlie" Purcell
Director, Office of Local Systems
Iowa Department of Transportation
515-239-1532 charlie.purcell@dot.iowa.gov

From: Simbro, Ryan [mailto:rsimbro@hrgreen.com]
Sent: Wednesday, April 07, 2010 11:01 AM
To: Purcell, Charlie [DOT]
Subject: RE: Salvage credit question - city of Johnston ARRA project

Charlie –

Regarding our previous discussions, the City of Johnston has opted for a Change Order that directs the following:

- The City obtains possession of salvaged lights but performs the hauling (this has actually already occurred)
- The Contractor obtains possession of salvaged fire hydrants (no longer a salvaged item)
- The Contractor obtains possession of salvaged retaining wall blocks with zero credit back to the City (no longer a salvaged item)

There will be no monetary changes to the contract. With that said, can I proceed with this Change Order? If further DOT involvement is needed, please advise. I need to know ASAP.

Thank you.

Ryan K. Simbro, PE
Senior Project Engineer
Howard R. Green Company

From: Purcell, Charlie [DOT] [mailto:Charlie.Purcell@DOT.iowa.gov]
Sent: Tuesday, March 09, 2010 1:04 PM
To: Simbro, Ryan
Cc: Grogg, Max [DOT Contact]; Butin, Robert [DOT]; Lehman, Anthony [DOT]; Moline, Todd [DOT]
Subject: FW: Salvage credit question - city of Johnston ARRA project

Ryan,

I checked with FHWA on this (see note below). They confirmed my comments concerning options 1 and 2.

Regarding option 3, you can try asking the contractor for a credit to the contract amount, but that could be problematic. For example, what these materials are worth to the city may be different than what they are worth to the contractor, so it could be hard to agree on a price. I think options 1 or 2 would be easier, so I recommend pursuing one of those.

If you have any other questions, please advise.

M.J. "Charlie" Purcell
Director, Office of Local Systems
Iowa Department of Transportation
515-239-1532 charlie.purcell@dot.iowa.gov

From: Purcell, Charlie [DOT]
Sent: Friday, March 05, 2010 12:39 PM
To: Grogg, Max [DOT Contact]
Cc: 'Joe.Jurasic@dot.gov'
Subject: Salvage credit question - city of Johnston ARRA project

Max,

This question pertains to possible salvage credit on one of the ARRA projects we've identified; city of Johnston, ESL-3827(611)--7S-77. I think the consultant basically has this correct, with the following exceptions:

Regarding options 1 and 2, if the street value is more than $5,000, then the whole amount (not just the amount in excess of $5,000) will need to be non-participating.

Regarding option 3 (which I think allows the contractor to keep everything), we would not need to make any costs non-participating, but it appears that they would be asking the contractor for credit on the contract sum for the street value of materials not salvaged. I suppose their thought is that since the contractor bid the job assuming that they could not keep the salvaged materials, if a change order is executed that allows the contractor to keep the materials, then the bid price should be reduced. I'm not sure about that.

What do you think?

M.J. "Charlie" Purcell
Director, Office of Local Systems
Iowa Department of Transportation
515-239-1532 charlie.purcell@dot.iowa.gov

From: Simbro, Ryan [mailto:rsimbro@hrgreen.com]

Sent: Friday, March 05, 2010 11:25 AM
To: Purcell, Charlie [DOT]
Cc: Simbro, Ryan
Subject: Fed Aid Participation

Charlie – is my summary below correct? I need to know before we communicate with the City.

- Inform the LPA (City of Johnston) of the circumstances and the options listed below
- **Option 1**
  - HR Green shall prepare a salvaged materials 'street worth' (i.e. total dollar value of lights, hydrants, and wall blocks) plus the cost of loading and hauling all of the materials to the LPA
  - Submit the estimate to IDOT District 1
  - If the estimated worth is > $5,000, a credit will be applied to the non-participating funds for the amount > $5,000 (i.e. the LPA will see a reduction in the participating funds)
  - The estimate must be logical and account for materials depreciation, condition, etc., and will be reviewed by the IDOT
- **Option 2**
  - File a Change Order that directs the contractor to only remove the salvaged materials, and directs the LPA to load and haul the salvaged materials as necessary
  - HR Green shall prepare a salvaged materials 'street worth' (i.e. total dollar value of lights, hydrants, and wall blocks)
  - Submit the estimate to IDOT District 1
  - If the estimated worth is > $5,000, a credit will be applied to the non-participating funds for the amount > $5,000 (i.e. the LPA will see a reduction in the participating funds)
  - The estimate must be logical and account for materials depreciation, condition, etc., and will be reviewed by the IDOT
- **Option 3**
  - File a Change Order that directs the contractor to remove the salvaged materials and obtain permanent possession of said materials
  - HR Green shall prepare a salvaged materials 'street worth' (i.e. total dollar value of lights, hydrants, and wall blocks) and complete a price adjustment (City credit)

Ryan K. Simbro, PE
Senior Project Engineer
Howard R. Green Company
progress.innovation.expertise.

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Simbro, Ryan

From: Dave Cubit [dcubit@ci.johnston.ia.us]
Sent: Thursday, April 08, 2010 8:34 AM
To: Simbro, Ryan; Matt Greiner
Cc: Mueller, Mark; Hidder, Patrick; camerong@manatts.com
Subject: RE: 3807 ESL-3827(611)--7S-77, NW 86th Street Widening, Johnston, IA - CHANGE ORDER #1

Ryan,

Thanks to all for looking into this matter. I appreciate the contractor's position related to the bid item and bid price.
I agree with your conclusion about the credit and proposed change order.
Thanks,
Dave

W. David Cubit
Public Works Director
6400 NW Beaver Drive
P.O.Box 410
Johnston, Iowa 50131-0410
515-278-0822 Office
515-727-8092 Fax
dcubit@ci.johnston.ia.us

From: Simbro, Ryan [mailto:rsimbro@hrgreen.com]
Sent: Thursday, April 08, 2010 7:56 AM
To: Dave Cubit; Matt Greiner
Cc: Mueller, Mark; Hidder, Patrick; Simbro, Ryan
Subject: FW: 3807 ESL-3827(611)--7S-77, NW 86th Street Widening, Johnston, IA - CHANGE ORDER #1

Dave & Matt –

As expected, the Contractor did not entertain any credit for the retaining wall. I noticed on the bid tab that the next 2 bidders had the REMVL item just above $10,000 but Manatt's was down @ $2,100 – so a credit would have brought this bid item to $0.00 with Manatt's still performing the work. Dave and Mark, I believe we discussed the unlikelihood of the Contractor entertaining this option when we met a few weeks ago.

I confirmed with the IDOT that we may process this Change Order with no involvement from the District, since the "salvage and deliver to City" portion of the work no longer applies. Also, no reductions in federal fund participation.

I will have the prepared Change Order #1 with me at this morning's progress meeting.

Ryan K. Simbro, PE
Senior Project Engineer
Howard R. Green Company

From: Cameron Green [mailto:camerong@manatts.com]

Sent: Thursday, April 08, 2010 7:24 AM
To: Simbro, Ryan
Subject: 3807 ESL-3827(611)--7S-77, NW 86th Street Widening, Johnston, IA - CHANGE ORDER #1

We will not be able to offer credits on any of the below. Let me know if the city has any issues with this. The retaining wall and hydrants are of little to no real value to Manatts or J&K and yet we still have to transport them. IA Signal's costs are insignificant enough to not reasonably go through cost evaluation and the paperwork of a deductive change order. I can better explain the incidental/insignificant nature of this "transport" or salvage work if this city requires.

Please send me a formal copy of the final change order for record even though no dollars were exchanged.

Thank you,

Cameron Green
Manatts, Inc.

Cameron Green
Manatts
Project Manager/Estimator
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(515) 971-3800 Mobile
camerong@manatts.com
6333 NW Beaver Road
Johnston, Iowa 50131
www.manatts.com

From: Simbro, Ryan [mailto:rsimbro@hrgreen.com]
Sent: Wednesday, April 07, 2010 1:27 PM
To: Cameron Green
Cc: Hidder, Patrick
Subject: ESL-3827(611)--7S-77, NW 86th Street Widening, Johnston, IA - CHANGE ORDER #1

Cameron – the following is language I plan to use in Change Order #1, for salvaged materials changes. With regards to the retaining wall material, please advise me of a value, if any, you would credit the City since Manatt's would obtain ownership of the material. Thanks.

0130 - sheet C.3 - change Estimate Reference Information to NOT include delivering salvaged light poles to the City of Johnston Public Works. The City of Johnston shall perform the delivery work.

0140 - sheet C.3 - change Estimate Reference Information to NOT include transporting salvaged limestone retaining wall blocks to the City of Johnston Public Works. The Contractor shall obtain possession and ownership of the salvaged limestone retaining wall blocks.

0710 - sheet C.5 - change Estimate Reference Information to NOT include transporting salvaged fire hydrant assemblies to the City of Johnston Public Works. The Contractor shall obtain possession and ownership of the salvaged fire hydrant assemblies.

Ryan K. Simbro, PE
Senior Project Engineer

Howard R. Green Company
progress.innovation.expertise.

5525 Merle Hay Road Suite 200
Johnston, Iowa 50131
Office: 515.278.2913
Direct: 515.278.6117, ext. 4567
Cell: 515.208.0622
Fax: 515.278.1846
Visit: www.hrgreen.com for recent news

IOWA DOT
Form 831240 (12-15)

CHANGE ORDER

For Local Public Agency Projects

No.: 1

Non-Substantial: ☒

Substantial: ☐

Administering Office Concurrence Date

Accounting ID No. (5-digit number): 27585

Project Number: ESL-3827(611)--7S-77

Kind of Work: PCC Pavement Widening

Local Public Agency: City of Johnston

Contractor: Manatt's,. Inc.

Date Prepared: 04/08/10

You are hereby authorized to make the following changes to the contract documents.

A - Description of change to be made:

Item 0130 - sheet C.3 - change Estimate Reference Information to NOT include delivering salvaged light poles to the City of Johnston Public Works. The City of Johnston shall perform the delivery work.

Item 0140 - sheet C.3 - change Estimate Reference Information to NOT include transporting salvaged limestone retaining wall blocks to the City of Johnston Public Works. The Contractor shall obtain possession and ownership of the salvaged limestone retaining wall blocks.

Item 0710 - sheet C.5 - change Estimate Reference Information to NOT include transporting salvaged fire hydrant assemblies to the City of Johnston Public Works. The Contractor shall obtain possession and ownership of the salvaged fire hydrant assemblies.

B - Reason for change:

Items 0130, 0140, & 0170 - Original contract (Estimate Reference Information) language directed the hauling and ultimate ownership of salvaged materials in a manner that was not in conformationce with FHWA and Iowa DOT salvaged materials funding requirements.

C - Settlement for cost(s) of change as follows with items addressed in Sections F and/or G:

There is no cost involved.

D - Justification for cost(s) (See I.M. 3.805, Attachment D, Chapter 2.36, for acceptable justification):

Mutual Benefit Change Order to redirect the hauling and ultimate ownership of salvaged materials, in conformance with FHWA and Iowa DOT salvaged materials funding requirements.

E - Contract time adjustment: ☒ No Working Days added ☐ Working Days added: _____ ☐ Unknown at this time

Justification for selection:

No adjustments to working days is needed for this change to the contract documents.

IOWA DOT
Form 831240 (12-15)

Accounting ID No.(5-digit number): 27585

Change Order No.: 1

F - Items included in contract:

Participating				For deductions enter as "-x.xx"		
Federal-aid	State-aid	Line Number	Item Description	Unit Price .xx	Quantity .xxx	Amount .xx
			Add Row Delete Row		TOTAL	

G - Items not included in contract:

Participating				For deductions enter as "-x.xx"		
Federal-aid	State-aid	Change Number	Item Description	Unit Price .xx	Quantity .xxx	Amount .xx
			Add Row Delete Row		TOTAL	

H. Signatures

Agreed: _____ Contractor _____ Date

Recommended: _____ Project Engineer _____ Date

Approved: _____ Person in Responsible Charge _____ Date _____ Other (optional) _____ Title _____ Date

_____ Contracting Authority (optional) _____ Date _____ Other (optional) _____ Title _____ Date

_____ Iowa DOT Administering Office _____ Date

Approval is contingent upon funds being available under the existing project agreement or upon additional Federal-aid funds being made available by a modified project agreement.

FHWA Concurrence: _____ Federal Highway Division Administration (if required) _____ Date

DISTRIBUTION (after fully executed on LPA projects): Original - Finance; Copies - Contractor, Project Engineer, Contracting Authority, Administering Office.

Date distributed: _____ Initials: _____

Simbro, Ryan

From: Simbro, Ryan
Sent: Thursday, July 01, 2010 3:42 PM
To: 'Cameron Green'; 'Michael Bockenstedt'
Cc: Hidder, Patrick; 'Matt Greiner'; Simbro, Ryan; 'Dave Cubit'
Subject: ESL-3827(611)--7S-77, NW 86th Street Widening, Johnston, IA - MODIFIED SUBBASE @ CRESCENT CHASE (WEST)
Attachments: Mod_Base_Crescent_Chase_West.pdf

All –

Attached is the quantity information required for Over-excavation and placement of Modified Subbase at Crescent Chase (West). The work will include 6-inches of Over-Excavation (below top of proposed subgrade/bottom of proposed pavement) and placement of 6-inches of Modified Subbase. Both work items are quantified to 3-feet behind back of proposed curb and to the end of radii, as shown by the shaded area of the drawing. Note this work no longer requires subdrain installation, as previously discussed.

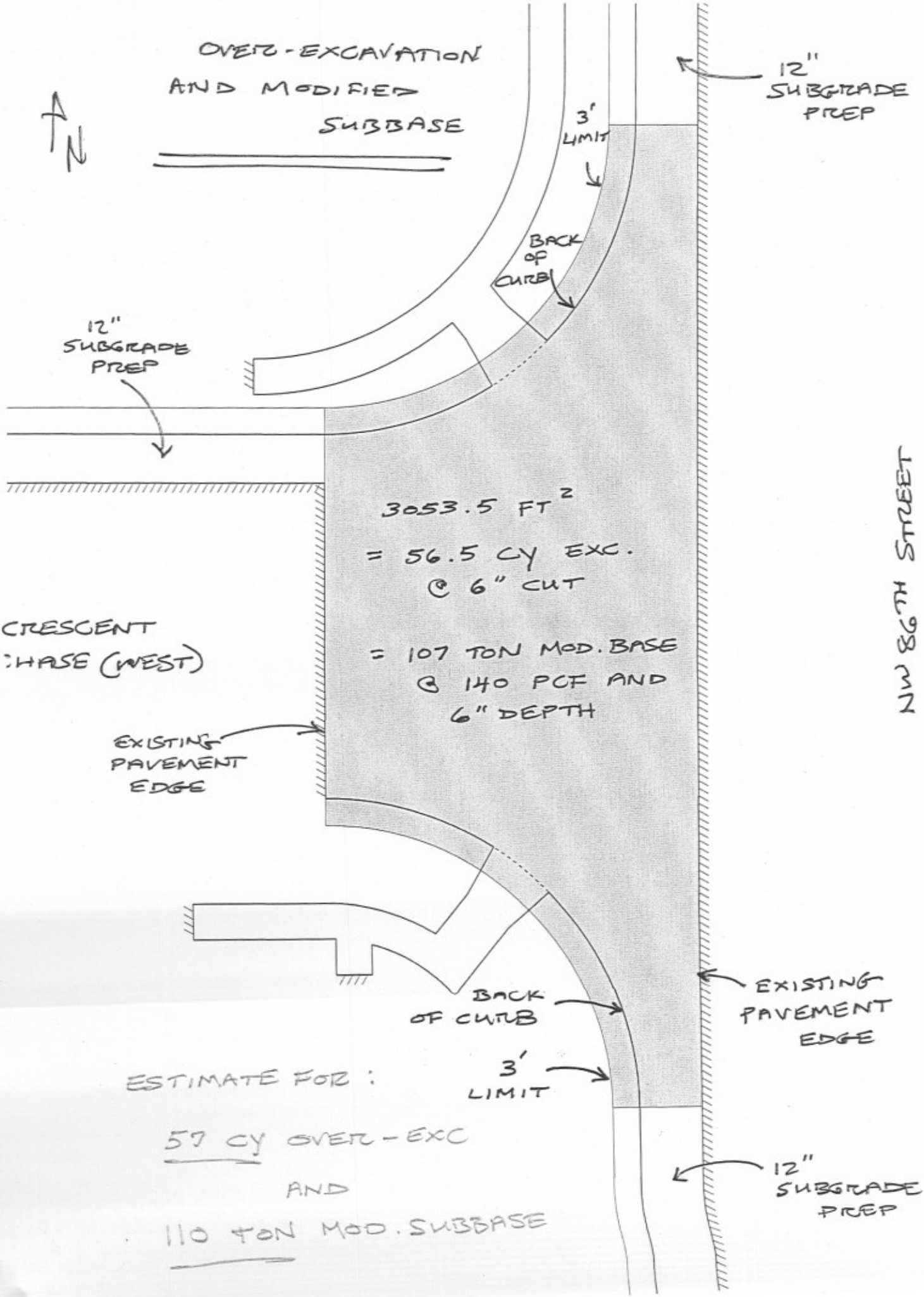
Please provide a price for the quantities shown. For Modified Subbase, use "Tons" for estimating and trucking/ticketing purposes. Final base quantities will be converted from "Tons" to "CY" using 140 pcf in order to follow DOT bid item requirements (DOT does not have a "Tons" item).

Over-Excavation work shall follow DOT Spec Section 2102 as if it were Excavation, CL 10, Rdwy+Borrow
Modified Subbase work shall meet the requirements of DOT Spec Section 2115 – note 2115.03 B-1 requirements for Preparation of Subgrade

Please contact myself or Patrick if you have questions.

Ryan K. Simbro, PE
Senior Project Engineer
Howard R. Green Company
progress.innovation.expertise.

5525 Merle Hay Road Suite 200
Johnston, Iowa 50131
Office: 515.278.2913
Direct: 515.278.6117, ext. 4567
Cell: 515.208.0622
Fax: 515.278.1846
Visit: www.hrgreen.com for recent news



ESTIMATE FOR:

57 CY OVER-EXC

AND

110 TON MOD. SUBBASE

Simbro, Ryan

From: Cameron Green [camerong@manatts.com]
Sent: Friday, July 02, 2010 9:06 AM
To: Simbro, Ryan; Hidder, Patrick
Cc: 'Michael Bockenstedt'
Subject: 3807 Johnston 86th St. FW: 0925JN - NW 86th Street Pavement Widening
Attachments: Message from KMBT_C220; Message from KMBT_C220; Cameron Green.vcf

Please add 10% for prime mark up.

Thank you,

Cameron Green
Manatts, Inc.

Cameron Green
Manatts
Project Manager/Estimator
(515) 278-0247 Work
(515) 971-3800 Mobile
camerong@manatts.com
6333 NW Beaver Road
Johnston, Iowa 50131
www.manatts.com

From: Michael Bockenstedt [mailto:mbockenstedt@jandkcontracting-ia.com]
Sent: Friday, July 02, 2010 8:47 AM
To: Cameron Green
Subject: 0925JN - NW 86th Street Pavement Widening

Cameron,

Here is the Change Proposal pricing for the Over-ex and modified sub-base for Crescent Chase (West). I have also attached the Gradation test report. If you have any questions, please give me a call.

Mick Bockenstedt
J & K Contracting
515-233-5500 office
515-509-3000 cell
515-233-4049 fax

CHARGE PROPOSAL

PO Box 1790
Ames, IA 50040
Phone 515-233-5500 Fax 515-233-4049

DATE: 7/1/2010

Regarding: Crescent Chase
FOR: *6" Over Ex and Import of 6" of Modified Subbase*

Attn: Cameron Green
Manatt's

DESCRIPTION	AMOUNT
* LABOR , EQUIPMENT & MATERIALS FOR THE 6" OVER EXCAVATION AND IMPORT OF 6" OF MODIFIED SUB-BASE	
6" Over-excavation (57 cy x $22.87/cy):	$1,303.59
6" Modified Sub-base (110 tn x $25.41/tn):	$2,795.10
TOTAL	

THANK YOU FOR YOUR BUSINESS!

Simbro, Ryan

From: Cameron Green [camerong@manatts.com]
Sent: Tuesday, July 13, 2010 10:24 AM
To: 'Michael Bockenstedt'
Cc: Hidder, Patrick; Simbro, Ryan
Subject: 3807 Johnston 86th St.
Attachments: Cameron Green.vcf

Give HR Green tickets on your modified subbase for verification. This may affect your ability to get paid.

Thank you,

Cameron Green
Manatts, Inc.

Cameron Green
Manatts
Project Manager/Estimator
(515) 278-0247 Work
(515) 971-3800 Mobile
camerong@manatts.com
6333 NW Beaver Road
Johnston, Iowa 50131
www.manatts.com

5

SKYLINE
900 Montgomery Street
Decorah, Iowa 52101
563-382-2933
FAX 563-382-8375

S and S Quarry

1746 Hwy. 14 South
Knoxville, Iowa 50138

641-842-3016
Fax 641-842-5164

THIS IS TO CERTIFY THAT THE MATERIAL HEREIN DESCRIBED MEETS THE APPLICABLE CONTRACT SPECIFICATIONS AND REQUIREMENTS.

Signature

Load of Mod. Sub. Proj. No 0925 JN 81st Johnson

Weigher Tons

Hauled by Skyline

Purchaser J & R Contracting

Iowa Secretary of Agriculture Certified Pounds ECCE Per Ton

ID 112
GROSS 77040 lb
TARE 28680 lb RECALLED
NET 49260 lb
07/13/2010 03:09PM
NET TON 24.63 T

2728

5

SKYLINE
900 Montgomery Street
Decorah, Iowa 52101
563-382-2933
FAX 563-382-8375

S and S Quarry

1746 Hwy. 14 South
Knoxville, Iowa 50138

641-842-3016
Fax 641-842-5164

THIS IS TO CERTIFY THAT THE MATERIAL HEREIN DESCRIBED MEETS THE APPLICABLE CONTRACT SPECIFICATIONS AND REQUIREMENTS.

Signature

Load of Mod. Sub. Proj. No 0925 JN

Weigher Tons

Hauled by Skyline

chaser J & R Contr.

etary of Agriculture Certified
CE Per Ton

ID 122
GROSS 78700 lb
TARE 29900 lb RECALLED
NET 48800 lb
07/13/2010 03:30PM
NET TON 24.45 T

TOTAL TONS = 105.89 @ 140 PCF = 56.03 CY

SKYLINE
900 Montgomery Street
Decorah, Iowa 52101
563-382-2933
FAX 563-382-8375

S and S Quarry

1746 Hwy. 14 South
Knoxville, Iowa 50138

641-842-3016
Fax 641-842-5164

THIS IS TO CERTIFY THAT THE MATERIAL HEREI DESCRIBED MEETS THE APPLICABLE CONTRAC SPECIFICATIONS AND REQUIREMENTS.

Signature

Load of Mod. Sub Proj. No 86 th Johnston

Weigher Tons

CH

Hauled by

Purchaser J & K Conte

Iowa Secretary of Agriculture Certified
Pounds ECCE Per Ton

ID 111
GROSS 68700 lb
TARE 24360 lb RECALLED
NET 42340 lb
07/12/2010 08:32AM
NET TON 21.17 T

#2456

5

SKYLINE
900 Montgomery Street
Decorah, Iowa 52101
563-382-2933
FAX 563-382-8375

S and S Quarry

1746 Hwy. 14 South
Knoxville, Iowa 50138

641-842-3016
Fax 641-842-5164

THIS IS TO CERTIFY THAT THE MATERIAL HEREIN DESCRIBED MEETS THE APPLICABLE CONTRACT SPECIFICATIONS AND REQUIREMENTS.

Signature

Load of Mod. Sub. Proj. No 0925 JN 86th Johnson

Weigher Tons

CH

Hauled by Skyline

Purchaser J & K Conte

Iowa Secretary of Agriculture Certified
Pounds ECCE Per Ton

ID 111
GROSS 67700 lb
TARE 24360 lb RECALLED
NET 43340 lb
07/12/2010 10:54AM
NET TON 21.67 T

#2501

5

SKYLINE
900 Montgomery Street
Decorah, Iowa 52101
563-382-2933
FAX 563-382-8375

S and S Quarry

1746 Hwy. 14 South
Knoxville, Iowa 50138

641-842-3016
Fax 641-842-5164

THIS IS TO CERTIFY THAT THE MATERIAL HEREIN DESCRIBED MEETS THE APPLICABLE CONTRACT SPECIFICATIONS AND REQUIREMENTS.

Signature Russ 305

Load of Mod. Sublice Proj. No 86th crescent Ave.
7-9-10

Weigher _____ Tons _____

Hauled by _____

Purchaser J & K Const

Iowa Secretary of Agriculture Certified _____
Pounds ECCE Per Ton

#2330

56400
28460
27940

13.97 Ton

Form 821278
12/92

IOWA DEPARTMENT OF TRANSPORTATION

CERTIFIED GRADATION TEST REPORT

County:
Project: WHS
Contractor:
Contract #:
Design:
Date: 5/4/10 Report No.:

☐ Certified Sample

☒ Monitor Sample

☐ Verification Sample

Source Name S & S Quarries T-203A No. A63010 Source Location NE Sec 25 Twp 75 Range 19 County Marion

Material Modified Subbase Class Gradation No 14 Beds Cedar Fork

Material Producer Bruening Rock Prod. Destination WHS Sampled At Quarry

Date Sampled	Sample Identification	Sampled By	Tested By		Sieve Analysis Percent Passing in.	26.5mm (1.06)	19mm (3/4in)	13.2mm (0.50)	9.5mm (3/8in)	4.75mm (No.4)	2.36mm (No.8)	1.18mm (No.16)	600µm (No.30)	300µm (No.50)	150µm (No100)	75µm (No200)	Other Test Results			Comp	Tons
* Production Limits				Max.			90				40					10					
				Min.	100		70				15					3					
4/29/10	5DW10-021	Wolfe	Wolfe		100	99	85	60	50	30	20	15	13	11	9.4	7.6				Yes	1000

Note to County and Resident Engineers: If county or Project Number is incorrect, please notify Inspector and Ames Office Promptly. Corrected Reports will be issued

Comments Copy to: Webb
Bruening Rock Prod.
S&S Quarries
Wolfe

ESTIMATED QUANTITY 1000 TONS

TOTAL PREVIOUSLY CERTIFIED TONS

TOTAL CERTIFIED TO DATE 1000 TONS

CERTIFICATION NUMBER SE186

Reported By Daniel Wolfe

Representing District 5 Materials

page 3
515-817-6566
MAY 04,2010 01:17P

IOWA DOT
Form 831240 (12-15)

CHANGE ORDER

For Local Public Agency Projects

No.: 6

Non-Substantial: ☒

Substantial: ☐

Administering Office Concurrence Date

Accounting ID No. (5-digit number): 27585

Project Number: ESL-3827(611)--7S-77

Kind of Work: PCC Pavement Widening

Local Public Agency: City of Johnston

Contractor: Manatt's, Inc.

Date Prepared: July 15, 2010

You are hereby authorized to make the following changes to the contract documents.

A - Description of change to be made:

8005 - 57 CY of modified subbase to be brought in and placed at a depth of 6" at the intersection of Crescent Chase and NW 86th Street to the west.

8006 - 57 CY of over-excavation of wet and unsuitable for the intersection of Crescent Chase and NW 86th Street to the west to allow for the placement of 6" of modified subbase.

B - Reason for change:

8005 & 8006 - Existing soil to be previously worked with Moisture and Density Control item was far too wet due to high ground water levels near the intersection. Using Modified subbase in order to obtain grade stability and drainability.

C - Settlement for cost(s) of change as follows with items addressed in Sections F and/or G:

8005 - Modified Subbase - 57 CY x $49.037/CY = $2,795.10

8006 - Over-excavation - 57 CL x $232.870/CY = $1,303.59

$2,795.10 + $1,393.59 = $4.098.69 + 10% = $4,508.56

D - Justification for cost(s) (See I.M. 3.805, Attachment D, Chapter 2.36, for acceptable justification):

8005 & 8006 - Based on an estimate from J & K Contracting including both materials and labor for the two items.
An additional 10% was added for administrative costs. See attached sheets.

E - Contract time adjustment: ☒ No Working Days added ☐ Working Days added: _____ ☐ Unknown at this time

Justification for selection:
There will be no working days added for this change order because it is not on the critical path of work and it would replace the amount of work needed to be done on Moisture and Density Control subgrade prep.

IOWA DOT
Form 831240 (12-15)

Accounting ID No.(5-digit number): 27585

Change Order No.: 6

F - Items included in contract:

Participating				For deductions enter as "-x.xx"		
Federal-aid	State-aid	Line Number	Item Description	Unit Price .xx	Quantity .xxx	Amount .xx
			Add Row Delete Row		TOTAL	

G - Items not included in contract:

Participating				For deductions enter as "-x.xx"		
Federal-aid	State-aid	Change Number	Item Description	Unit Price .xx	Quantity .xxx	Amount .xx
X		8005	Modified Subbase 2115-0100000	$53.94	57.000	$3,074.58
X		8006	Over-Excavation 2599-9999003	$25.16	57.000	$1,434.12
			Add Row Delete Row		TOTAL	$4,508.70

H. Signatures

Agreed: _____ Contractor _____ Date

Recommended: _____ Project Engineer _____ Date

Approved: _____ Person in Responsible Charge _____ Date _____ Other (optional) _____ Title _____ Date

_____ Contracting Authority (optional) _____ Date _____ Other (optional) _____ Title _____ Date

_____ Iowa DOT Administering Office _____ Date

Approval is contingent upon funds being available under the existing project agreement or upon additional Federal-aid funds being made available by a modified project agreement.

FHWA Concurrence: _____ Federal Highway Division Administration (if required) _____ Date

DISTRIBUTION (after fully executed on LPA projects): Original - Finance; Copies - Contractor, Project Engineer, Contracting Authority, Administering Office.

Date distributed: _____ Initials: _____

Pollution Prevention Plan/Storm Water Site Inspections

We discussed the requirements for the Erosion Control Implementation Plan when we discussed the Roles and Responsibilities of the Contracting Authority and Contractor. But, since March 10, 2003 all Iowa DOT construction projects which disturb 1 acres or more are also required to have a STORM WATER PERMIT. Storm Water Discharge requirements are mandated by Iowa Code. A Storm Water Permit requires specific actions intended to reduce and/or eliminate the problems associated with runoff, soil erosion, and siltation.

The project engineer shall check to assure that projects requiring a Storm Water Permit have a Pollution Prevention Plan (PPP). Along with a PPP there "should" be bid items for pollution control items such as silt fence, stabilizing crops, ditch checks, etc. As always, it is important to check preliminary plans whenever possible to be sure all needed contract items have been included. Obviously, if a contract is let without erosion control items, the project engineer will have to add those items.

Inspection of the projects erosion control features are required at least once every 7 calendar days. Inspection staff and contractors are to perform joint inspections and documents findings on the Storm Water Site Inspection Report (Form 830214). A copy of this form is included in Appendix 10-3 of the Construction Manual. Deficiencies of erosion control features such as silt fence which is damaged or needs silt removed, washed out mulch, lack of silt fence or mulch shall be reported to the contractor as soon as possible. The contractor is expected to correct the deficiency or install additional erosion control features within 3 working days.

Project engineers must ensure that erosion control measures and inspection are maintained by a responsible party during winter shutdown and between projects (i.e. grading/paving/erosion control).

Installing and maintaining erosion control features is the responsibility of the prime contractor. On most projects, the contractor will assign the erosion control items to a subcontractor. The prime contractor must be prepared to accomplish the required erosion control work if a subcontractor is not able to perform satisfactorily or timely.

10.33 ADMINISTERING PROJECTS WITH STORM WATER DISCHARGE PERMITS

- Contractors will be responsible to obtain Storm Water Permits for their activities on or off of the project. For example: if a contractor sets a portable plant "on" or "off" Iowa DOT ROW, the contractor is responsible for obtaining coverage for the site under Permit #3. The contractor is also responsible to provide proof of coverage to the project engineer for plants on Iowa DOT ROW. Project engineers should not allow that site to provide material to a project until there is documented proof of coverage.

- All contractors and subcontractors who deal with or have an impact on storm water pollution issues shall sign a co-permittee certification prior to conducting any land disturbing work on the project. Prime contractors are required to submit the signed certificate with their signed contract to the Office of Contracts. It is the prime contractor's responsibility to obtain and provide signed certificates for the subcontractors to the project engineer. (A copy of a co-permittee certificate is included in Appendix 10-2). Co-permittee certifications are not required for subcontractors who do not disturb a significant amount of soil or whose operations would not have a potential for discharging a pollutant (i.e. contract survey, material suppliers and traffic control).

- Inspection of the project's erosion and sediment control features are required at least once every 7

calendar days. Inspection staff and contractors are to perform joint inspections and document findings on the Storm Water Site Inspection Report (Form 830214). A copy of this form is included in Appendix 10-3. Deficiencies of erosion and sediment control features such as silt fence which is damaged or needs silt removed, washed out mulch, lack of silt fence or mulch shall be reported to the contractor as soon as possible. The contractor is expected to correct the deficiency or install additional erosion and sediment control features within 3 working days.

- Project engineers must ensure that erosion and sediment control measures and inspection are maintained by a responsible party during winter shutdown and between projects (i.e. grading/paving/erosion control).

- There is no longer a maximum exposed area established by the specifications. However, Article 2602.03, I requires the Contractor to limit earthwork operations in progress to an area commensurate with their capability. Also, Article 2102.03, K equires the contractor to keep finishing operations current with other construction operations. Commensurate with the contractor's capability would mean:

  A. The contractor has current exposed area protected with erosion or sediment control measures. Minimum measures would include silt fence around the perimeter of the area, ditch checks, and additional silt fence where sediments may leave the project. This includes all disturbed areas (i.e., borrows, areas within temporary and permanent easements.)

  B. The contractor has demonstrated ability and willingness to keep erosion and sediment control measures current and maintained within existing work areas.

  C. The contractor is considering the time of year before exposing additional areas. For example: It would not be unreasonable for the Engineer to suspend operations in a situation where it is late in the grading season and the contractor is falling behind in finishing, applying mulch, or temporary seeding.

  D. The contractor has successfully followed **their** erosion control implementation plan. The project engineer has not noted storm water violations, and has every reason to believe additional open areas will **not** over-extend the contractor's ability to comply with our Storm Water Pollution Permit.

- Installing and maintaining erosion and sediment control features is the responsibility of the prime contractor. On most projects, the contractor will assign the erosion and sediment control items to a subcontractor. The prime contractor must be prepared to accomplish the required erosion and sediment control work if a subcontractor is not able to perform satisfactorily or timely.

10.34 QUESTIONS OFTEN ASKED

The weather is not favorable to establish temporary seeding or silt fences. What do we do?

A. Stabilization:

Regulations say if an area will not have any activity for 21 days; by the 14th day, some form of stabilization will be required. There is very little latitude in that statement even if it is wet or freezing.

To be in compliance with storm water regulations, some type of stabilization needs to be done. For example, incorporating mulch, using Hydro-Mulch or Soil Binders which are comprised of wood fiber and paper mulch. Both work, but tend to be expensive knowing it is less than temporary and we will have to ultimately seed.

Best solution is to conduct temporary seeding in a timely manner and not let the contractor get so much open that it cannot be stabilized by seeding. At the least keep it to a minimum so if one of the other alternates is necessary, costs can be kept to a minimum.

B. Localized Soil Erosion (Ditch Check and Silt Fences):
There might be situations where you are unable to properly install silt fence. In these cases, perimeter and slope sediment control devices (logs, wattles, or filter socks) are a great alternative. For example:

- It is wet and muddy; a trencher cannot get in to place silt fence.

- The ground is frozen to a point where a trencher will not work. Winter is coming. Rather than do nothing, some type of control should be installed so there is protection in place during the spring thaw.

How are borrows evaluated for Storm Water compliance?
All project specified borrows are included in the calculation for a Pollution Prevention Plan (PPP). Plus, these borrows are included in determining compliance with *Specification 2602.03*.

Onsite borrows will be covered under a project's storm water discharge permit. Offsite borrows (DOT provided) greater than an acre that are drainable may have their own storm water discharge permit.

A. Pond Borrows

- All pond borrows (wet or dry) during construction must have at least the perimeter protected by sediment control measures. Plus, site specific considerations must be included if there is any dredging involved during construction.
- Temporary stabilization and mulching will not be required on concave slopes within the borrow. However, channels (in-flow and/or out-flow) will require stabilization and sediment control measures.
- Seeding for pond borrows will be required on any disturbed area above normal design pool or ground water elevation.

B. Wetland Mitigation Areas

- Check the contract documents for the required seed mix or other special conditions.
- Refer to Pond Borrows (Section A, above) for guidance in areas of standing water and selected sections in Normal Borrows (Section C, below) for those areas which are dry during seeding. In either case, all "normal" erosion and sediment control practices are required for wetland areas.

C. Normal (Dry) Borrows

- All normal borrows must be protected by perimeter sediment control measures, and are included for temporary erosion control measures if work is halted at that site for more than 21 days.

- All normal borrows, purchased by fee title, shall be included in the area which is permanently seeded. As such, a Notice of Discontinuation (NOD) cannot be processed until 70% of the permanent seeding is established.

- Normal borrows obtained by temporary easement:

1. That require replacement of topsoil **AND** are used for agricultural row crops. The project engineer needs to ask the property owner if they want the area permanently seeded.
   a. If the property owner requests permanent seeding, provide that seeding. In such situations, the NOD cannot be processed until permanent seeding is 70% established.
   b. If the property owner does not want permanent seeding, shape and place temporary seeding on the area. In this case, because the property will be returned to agricultural row crop use, consider temporary seeding as complying with storm water requirements and proceed with the NOD accordingly. Note: Other temporary sediment control measures in that area will have to be maintained until the project is accepted.

2. For temporary easements **NOT** used for agricultural row crops, permanent seeding will be required. (Examples of this situation would be permanent pastures, timberland, non-farmed land, etc.)

Is snow considered temporary cover in the Storm Water regulations?
YES. Storm water regulations are written recognizing that snow is a **"temporary"** preventive measure. However, just because it snows may or may not fulfill a winter long stabilization and definitely will not comply as spring thaws begin. As soon as the snow is gone, some other means of stabilization is required. ("Gone" could be by melting, wind, or snow plow.) Best advice is to keep working on some form of soil stabilization until it absolutely freezes so hard that work from then on will not be practical.

EXAMPLE: If snow comes in late October and is blown off the site by mid December, then some other form of temporary stabilization is required from that point forward.

Plan notes have designated a plant site within Iowa DOT ROW. Further, the contractor is told it is their responsibility to provide a permit #3 for this activity. Who is ultimately responsible?
The contractor is responsible for that portion of area designated as the "plant site." When this situation occurs, modify the project PPP by note in a storm water site inspection report to exclude the plant site when the contractor's NOI becomes effective.

Fields of Opportunities

STATE OF IOWA

CHESTER J. CULVER, GOVERNOR
PATTY JUDGE, LT. GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
RICHARD A. LEOPOLD, DIRECTOR

January 28, 2010

DAVE CUBIT
CITY OF JOHNSTON
6400 NW BEAVER DR.
PO BOX 410
JOHNSTON, IA 50131

Re: Authorization of a Storm Water Discharge Associated With Construction Activity
Iowa Department of Natural Resources, NPDES General Permit No. 2
DNR Authorization Number: IA - 18112 - 17884
Facility Name and Location: CITY OF JOHNSTON - PAVEMENT WIDENING, NW 86TH ST, ESL-3827(611)--7S-77, JOHNSTON, IA

Dear DAVE CUBIT:

This letter is to acknowledge that a complete Notice of Intent to be covered under Iowa's NPDES Storm Water General Permit No. 2 has been received. Please use the DNR Authorization Number provided above for any future correspondence on this project. By making this Notice of Intent with the DNR, you are committing to meet the terms and conditions in General Permit No. 2. If you do not have a copy of General Permit No. 2 please call (515)281-6782 and request that a copy be sent to you.

In accordance with the terms and conditions in General Permit No. 2, a pollution prevention plan was to have been developed before the Notice of Intent was submitted to the department. The plan is to be implemented at the start of construction and updated accordingly. The pollution prevention plan and other records are to be kept on-site where the storm water discharge occurs. Unless otherwise requested, you do not need to provide a copy to the DNR.

When the construction project has reached final stabilization as defined in the permit, you must submit a Notice of Discontinuation to the DNR (refer to the summary guidance document). Final stabilization is not achieved for residential and commercial developments until all houses and buildings have been constructed and ground surrounding them has been finally stabilized.

If you have questions, please call me at 515-281-7017 or Ruth Rosdail at 515-281-6782.

Sincerely,

Joe Griffin
NPDES Section
Environmental Protection Division

Enclosure(s): Contact Information Sheet; Permit Authorization Sheet

File No. CON 11 - 34 -- 18112
IDNR Field Office # 5

DEAR STORM WATER DISCHARGER:

We are using the following contact person and address for correspondence relating to the storm water discharge general permit. If you prefer that correspondence be sent elsewhere, please make the appropriate changes below and return this form to us so that we can update our records.

Mail changes to:	Storm Water Coordinator Iowa Department of Natural Resources 502 E. 9th St. Des Moines, IA 50319-0034
DNR Permit Number:	IA - 18112 - 17884
Contact Person:	DAVE CUBIT
Contact Address:	CITY OF JOHNSTON 6400 NW BEAVER DR. PO BOX 410 JOHNSTON, IA 50131
Telephone:	(515)278-0822

Fields of Opportunities

STATE OF IOWA

CHESTER J. CULVER, GOVERNOR
PATTY JUDGE, LT. GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
RICHARD A. LEOPOLD, DIRECTOR

DEPARTMENT OF NATURAL RESOURCES
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
NOTICE OF GENERAL PERMIT COVERAGE UNDER
GENERAL PERMIT NO. 2

STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY

This notice of general permit coverage for a storm water discharge associated with construction activity is issued pursuant to the authority of section 402 (b) of the Clean Water Act (U.S.C. 1342(b)), Iowa Code 455B.174, and subrule 567--64.4(2), Iowa Administrative Code. A Notice of Intent has been filed with the Iowa Department of Natural Resources that this storm water discharge complies with the terms and conditions of NPDES General Permit No. 2. Authorization is hereby issued to discharge storm water associated with industrial activity as defined in Part VIII of the Iowa Department of Natural Resources NPDES General Permit No. 2 in accordance with the terms and conditions set forth in the permit.

Owner: CITY OF JOHNSTON
6400 NW BEAVER DR.
PO BOX 410
JOHNSTON IA 50131
(515)278-0822

Permit Coverage Issued To:

CITY OF JOHNSTON - PAVEMENT WIDENING, NW 86TH ST, ESL-3827(611) --7S-77
NW 86TH ST. - CHAMBERRY BLVD. TO NW 62ND AVE.
in JOHNSTON, POLK COUNTY
located at

1/4 Section	Section	Township	Range	Latitude	Longitude
NE & SE-10	NW & SW-11	79N	25W		

Coverage Provided Through: 4/1/2011

NPDES Permit Discharge Authorization Number: 18112 - 17884

Discharge Authorization Date: 4/1/2010

Project Description: PCC PAVEMENT WIDENING, UTILITY MODIFICATIONS AND SIDEWALK IMPROVEMENTS ALONG NW 86TH ST. 3.5 ACRES

IOWA DEPARTMENT OF NATURAL RESOURCES

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

GENERAL PERMIT NO. 2

EFFECTIVE DATES
OCTOBER 1, 2007 THROUGH OCTOBER 1, 2012

FOR

STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES

502 EAST 9th STREET DES MOINES, IOWA 50319
515-281-7017 FAX 515-281-8895 www.iowadnr.gov/water/stormwater/index.html

The Des Moines Register

AFFIDAVIT OF PUBLICATION

COPY OF ADVERTISEMENT
Exhibit "A"

OFFICIAL PUBLICATION

The Des Moines Register Publishing Legal Notices 7 Days a Week & On-Line

To Place Legal Notices
Please Contact:
Legals Desk
515-284-8715
Fax : 515-284-8103
Email: legals@dmreg.com
www.desmoinesregister.com

The Des Moines Register

R261 PUBLIC NOTICE OF STORM WATER DISCHARGE

The City of Johnston plans to submit a Notice of Intent to the Iowa Department of Natural Resources to be covered under National Pollutant Discharge Elimination System (NPDES) General Permit No.2 "Storm Water Discharge Associated with Industrial Activity for Construction Activities."

The storm water discharge will be from roadway construction activity located in Polk County on NW 86th Street. The project is P.C.C. pavement widening, utility modifications and sidewalk improvements on NW 86th Street from Chamberry Boulevard to NW 62nd Avenue in Johnston, IA.

The Public Lands Survey location is:
NE 1/4 of Section 10, Township T79N, Range R25W
SE 1/4 of Section 10, Township T79N, Range R25W
NW 1/4 of Section 11, Township T79N, Range R25W
SW 1/4 of Section 11, Township T79N, Range R25W

Storm water will be discharged from 3 point sources that outlet to drainage ditches and eventually Beaver Creek, which is a tributary of the Des Moines River.

Comments may be submitted to the Storm Water Discharge Coordinator, IOWA DEPARTMENT OF NATURAL RESOURCES, Environmental Protection Division, 502 East 9th Street, Des Moines, IA 50319-0034. The public may review the Notice of Intent from 8:00 a.m. to 4:30 p.m. Monday through Friday at the above address after it has been received by the Department.

NOTARIAL SEAL IOWA

Karen E. Cassels
Commission Number 743164
My Commission Expires:
10-3-12

STATE OF IOWA
SS
COUNTY OF POLK

The undersigned, being first duly sworn on oath, states that she/he is the

Sharon Walsh
Legals Clerk

of The Des Moines Register and Tribune Company, a corporation duly organized and existing under the laws of the State of Iowa, with its principal place of business in Des Moines, Iowa, the publisher of

THE DES MOINES REGISTER

newspapers of general circulation printed and published in the City of Des Moines, Polk County, Iowa, and that an advertisement, a printed copy of which is attached as Exhibit "A" and made a part of this affidavit, was printed and published in The Des Moines Register on the following dates

January 8, 2010
January 15, 2010

Subscribed and sworn to before me by said affiant this 18th day of Jan. 2010

Karen E. Cassels
Notary Public in and for Polk County, Iowa

The Des Moines Register

AFFIDAVIT OF PUBLICATION

COPY OF ADVERTISEMENT
Exhibit "A"

OFFICIAL PUBLICATION

The Des Moines Register
Publishing Legal Notices
7 Days a Week & On-Line

To Place Legal Notices
Please Contact:
Legals Desk
515-284-8715
Fax : 515-284-8103
Email: legals@dmreg.com
www.desmoinesregister.com

The Des Moines Register

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Commission Number 743164
My Commission Expires:
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SS
COUNTY OF POLK

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of The Des Moines Register and Tribune Company, a corporation duly organized and existing under the laws of the State of Iowa, with its principal place of business in Des Moines, Iowa, the publisher of

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January 8, 2010
January 14, 2010

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Karen E. Cassels
Notary Public in and for Polk County, Iowa

The Des Moines Register

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COPY OF ADVERTISEMENT
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NOTARIAL SEAL IOWA
Karen E. Cassels
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My Commission Expires:
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STATE OF IOWA
SS
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January 8, 2010
January 14, 2010

Subscribed and sworn to before me by said affiant this 18th day of Jan. 2010

Karen E. Cassels
Notary Public in and for Polk County, Iowa

TAYLOR CONSTRUCTION, INC.
Contract No.: 06-C006-093

Bid Order: 003
Letting: 17DEC2013

This certification must be signed by an Officer of the Company and returned along with the signed contract to the Contracting Authority: the BOARD OF SUPERVISORS OF BENTON COUNTY

STORM WATER DISCHARGE ASSOCIATED WITH INDUSTRIAL ACTIVITY
FOR CONSTRUCTION ACTIVITITIES.

Certification Statement

For the projects which include a Storm Water Pollution Prevention Plan (PPP) on the contract shown above:

"I certify under penalty of law that I understand the terms and conditions of the general (or individual, if applicable) National Pollutant Discharge Elimination System (NPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site as part of this certification.

Further, by my signature, I understand that I am becoming a co-permittee, along with the owner(s) and other contractors and subcontractors signing such certifications, to the Iowa Department of Natural Resources NPDES General Permit No. 2 for "Storm Water Discharge Associated with Industrial Activity for Construction Activities" (or individual NPDES permit, if applicable) at the identified site. As a co-permittee, I understand that I, and my company, are legally required under the Clean Water Act and the Code of Iowa, to ensure compliance with the terms and conditions of the storm water pollution prevention plan developed under this NPDES permit and the terms of this NPDES permit."

Name _____
Type, Stamp or Print Legibly

Title _____

TAYLOR CONSTRUCTION, INC. Phone: (563)921-2315
7314 COLUMBUS
P.O. BOX 110
NEW VIENNA, IA 52065-0000

Signed By _____ Date _____

Iowa Department of Transportation

CO-PERMITTEE CERTIFICATION STATEMENT

Project No.: _____

County: _____ Proposal ID No.: _____

Prime Contractor: _____

Subcontractor: _____

Address: _____

Telephone No.: _____

I certify under penalty of law that I understand the terms and conditions of the general National Pollutant Elimination System (NPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site as part of this certification.

Further, by my signature, I understand that I am becoming a co-permittee, along with the owner(s) and other contractors and subcontractors signing such certifications, to the Iowa Department of Natural Resources NPDES General Permit No. 2 for Storm Water Discharge Associated with Industrial Activity for Construction Activities at the identified site. As a co-permittee, I understand that I, and my company, are legally required under the Clean Water Act and the Code of Iowa, to ensure compliance with the terms and conditions of the storm water pollution prevention plan developed under this NPDES permit and the terms of this NPDES permit.

* Signature: _____

Title: _____

Date: _____

* Certification Statement shall be signed as follows:
Corporation – president or vice-president
Partnership – general partner
Proprietorship - proprietor

SWPPP CONTRACTOR'S CERTIFICATION

Project: NW 86th Street Widening, Chamberry Boulevard to NW 62nd Avenue

Location: City of Johnston, Iowa

Project No.: ESL-3827(611)--7S-77

DNR Authorization/Permit Number: IA – 18112 – 17884

CERTIFICATION STATEMENT

"I certify under penalty of law that I understand the terms and conditions of the general National Pollutant Discharge Elimination System (NPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site as part of this certification. Further, by my signature, I understand that I am becoming a co-permittee, along with the owner(s) and other contractors and subcontractors signing such certifications, to the Iowa Department of Natural Resources NPDES General Permit No. 2 for "Storm Water Discharge Associated with Industrial Activity for Construction Activities" at the identified site. As a co-permittee, I understand that I, and my company, are legally required under the Clean Water Act and the Code of Iowa, to ensure compliance with the terms and conditions of the storm water pollution prevention plan developed under this NPDES permit and the terms of this NPDES permit."

Contractor Manatts Inc.	
Responsible for Prime Contractor, PCC Pavement	
Address 6333 NW Beaver Rd. Johnston, IA 50131	Phone 515-278-0247
Representative * Cameron Green	Title Project Mgr.
Signature Cameron Green	Date 03-18-10

* Signee must meet signatory requirements in Part IV.G of the General Permit No. 2 (see attached)

SWPPP CONTRACTOR'S CERTIFICATION

Project: NW 86th Street Widening, Chamberry Boulevard to NW 62nd Avenue

Location: City of Johnston, Iowa

Project No.: ESL-3827(611)--7S-77

DNR Authorization/Permit Number: IA – 18112 – 17884

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Contractor J & K CONTRACTING	
Responsible for GRADING & UTILITY INSTALLATION	
Address 1307 E. LINCOLNWAY AMES, IA 50010	Phone 515-509-3000 515-233-5500
Representative * MICK BOCKENSTEDT	Title PROJECT MANAGER
Signature [signature]	Date 3/17/10

* Signee must meet signatory requirements in Part IV.G of the General Permit No. 2 (see attached)

SWPPP CONTRACTOR'S CERTIFICATION

Project: NW 86th Street Widening, Chamberry Boulevard to NW 62nd Avenue

Location: City of Johnston, Iowa

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Contractor Henriksen Contracting, LLC	
Responsible for	
Address 3754 SE Capitol Circle Grimes IA 50111	Phone 515-986-4243
Representative * Charlie Henriksen	Title President
Signature Charles Henriksen	Date 3-18-10

* Signee must meet signatory requirements in Part IV.G of the General Permit No. 2 (see attached)

SWPPP CONTRACTOR'S CERTIFICATION

Project: NW 86th Street Widening, Chamberry Boulevard to NW 62nd Avenue

Location: City of Johnston, Iowa

Project No.: ESL-3827(611)--7S-77

DNR Authorization/Permit Number: IA – 18112 – 17884

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Contractor SOIL-TEK	
Responsible for Erosion Control & Seeding	
Address PO Box 738 Grimes, IA. 50111	Phone (515) 986-3527
Representative * Brian R. Denham	Title GM/VP
Signature	Date 3/18/12

* Signee must meet signatory requirements in Part IV.G of the General Permit No. 2 (see attached)

SWPPP CONTRACTOR'S CERTIFICATION

Project: NW 86th Street Widening, Chamberry Boulevard to NW 62nd Avenue

Location: City of Johnston, Iowa

Project No.: ESL-3827(611)--7S-77

DNR Authorization/Permit Number: IA – 18112 – 17884

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Contractor Iowa Signal Inc.	
Responsible for Traffic Signals	
Address 7840 University Blvd. Clive, Ia. 50325	Phone (515) 249-5076
Representative * Wayne Lesley	Title President
Signature	Date 3-22-10

* Signee must meet signatory requirements in Part IV.G of the General Permit No. 2 (see attached)

Form 830214
07-14

IOWA DOT
SMARTER I SIMPLER I CUSTOMER DRIVEN

STORM WATER SITE INSPECTION

Inspections Made At Least Once Every Seven Calendar Days

Inspection Date and Time: _____

Project Number: _____ County: Polk

DNR Authorization Number: **IA** _____ - _____

Inspection Made By: _____ Title: _____

Comments and Observations:

Deficiencies Found and Additions Required (Include Specific Locations):

Contractor Notification (Name, Notification Date, and Time of Notification):

Date of Corrective Action (Within 3 Days of Inspection) and Corrective Action Performed:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Inspector's Signature: _____ Date: April 27th

Contractor's Signature: _____ Date: _____

Form 830214
07-14

IOWADOT
SMARTER I SIMPLER I CUSTOMER DRIVEN

STORM WATER SITE INSPECTION

Inspections Made At Least Once Every Seven Calendar Days

Inspection Date and Time: _____

Project Number: _____ County: _____

DNR Authorization Number: IA _____ - _____

Inspection Made By: _____ Title: _____

Comments and Observations:

- Provide station ranges of areas inspected.
  - o Include types of erosion & sediment control measures (ESCM'S) inspected (such as silt fence, rock check dams, etc.).
- Note any ESCM's that were installed or areas where stabilization has been completed since previous inspection.
  - o In lieu of listing all locations, you may include a reference to specific IDR's or include a photocopy of notes from a field book.
  - o Record any areas where land disturbing activities have been temporarily or permanently suspended.
  - o Every effort should be made to access all areas of the site, especially critical areas (discharge points). However, if you are unable to access some areas, then record these locations.
  - o Document suspension of inspections and reason for suspension here, such as when inspections will be performed under another project/contract (e.g. if inspections began on a culvert project but will then be covered under the grading project – note the suspension on the last culvert inspection report).
  - o Document the station range if ceasing inspections on only a portion of the project.

Deficiencies Found and Additions Required (Include Specific Locations):

- Include any new ESCM's that are needed or existing ESCM's that require correction or maintenance.
  - o Location information may include station and Lt., Rt. or Med.
  - o Information needs to be specific enough so deficiency could be located by another individual.
- Note areas where stabilization is required.
- Document any locations of needed housekeeping items, such as off-site tracking that needs to be cleaned up.
- Include any issues of permit non-compliance, such as visible off-site sediment discharge.

Contractor Notification (Name, Notification Date, and Time of Notification):

- Types of Notification include direct, email, phone, fax, or written order.

Date of Corrective Action (Within 3 Days of Inspection) and Corrective Action Performed:

- If this section is filled in after date of signature below, then date this section.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Inspector's Signature: _____ Date: _____

Contractor's Signature: _____ Date: _____

Iowa Department of Transportation
Form 830214wd (03-04)

STORM WATER SITE INSPECTION

Inspections Made At Least Once Every Seven Calendar Days And After Rainfall Of 13mm (0.5") Or More

Project No.: ESL-3827(611)--7S-77 County: Polk

DNR Authorization Number: IA 18112 - 17884

Inspection Made By: Patrick Hidder Title: Const. Inspector

Comments and Observations:

STA 162+50 W.Side Needs Filter Sock 20' / Silt Fence Repair @ STA 171+30 E.Side Filter Sock Needed @ STA 135+50 100' / STA 135.50 Intake Protection Has Been Topped Needs Repaired.

Deficiencies Found, Additions Required, and Locations:

STA 162+50 W.Side Needs Filter Sock Cleanout. STA 171+30 E.Side Silt Fence Needs Repaired Fence has Fallen down. STA 135+50 100' of Filter Sock is Needed. STA 135+50 Intake Protection Needs Repaired.

Contractor Notification (Name and Notification Date):

Manna's Cameron Green 8-4-10

Date of Corrective Action (Within 3 Days of Inspection):

8-6-10

Inspector's Signature: [signature] Date: 8-6-10

Contractor's Signature: [signature] Date: 8-4-10

Distribution: Original – Project File; Copy - Contractor

Iowa Department of Transportation
Form 830214wd (03-04)

STORM WATER SITE INSPECTION

Inspections Made At Least Once Every Seven Calendar Days And After Rainfall Of 13mm (0.5") Or More

Project No.: ESL-3827(611)--7S-77 County: Polk

DNR Authorization Number: IA 18112 - 17884

Inspection Made By: Patrick Hidder Title: Const. Inspector

Comments and Observations:

AT STA 162+50 W. Side inlsock are Full And need Cleanout
going To Talk About Flooding & Design AT The Kum&Go intake.
N.E. Corner of Site Need To repair or replace S.F.
STA 163+00 Silt Fence Post has been Damaged by PAT Electric.
Silt Fence + 149+50 is Full And needs Cleanedout. Also Clean out @ STA 147+87
Silt Fence is Full. Also Talk About S. Tadu's at Mercy. intake S-2 corrective
action will Be excavation And Removel of intake.

Deficiencies Found, Additions Required, and Locations:

Clean out of Filter socks at STA# 162+50 30'.
Repair or Removel + Replacement of silt Fence At N.E. corner of Site.
Approx 150'. Silt Fence will be cleaned out at STA'S # 149+00 +
147+87. All other Actions will be Talked About on 8-10-10

Contractor Notification (Name and Notification Date):

Called Cameron Green 8-9-10

Date of Corrective Action (Within 3 Days of Inspection):

8-11-10

Inspector's Signature: [signature] Date: 8-9-10

Contractor's Signature: [signature] Date: 8-11-10

Distribution: Original – Project File; Copy - Contractor

Iowa Department of Transportation
Form 830214wd (03-04)

STORM WATER SITE INSPECTION

Inspections Made At Least Once Every Seven Calendar Days And After Rainfall Of 13mm (0.5") Or More

Project No.: ESL-3827(611)--7S-77 County: Polk

DNR Authorization Number: IA 18112 - 17884

Inspection Made By: Patrick Hidder Title: Const. Inspector

Comments and Observations:

Deficiencies on site ~~[illegible]~~ have not changed sense last report.
No controls were able to installed due to continuous rain event. ~~[illegible]~~

Deficiencies Found, Additions Required, and Locations:

Cleanout of filter sock @ STA 162+50 30' of clean out.
Repair or Removal + Replacement of silt fence @ N.E. corner of site.
Silt fence needs cleaned out @ STA 149+00 and @ STA 147+87.
Plan is in place to help control flooding + sediment run off.
Controls to be installed today. 8-10-10

Contractor Notification (Name and Notification Date):

Cameron Green with Maunatt's - 8-10-10

Date of Corrective Action (Within 3 Days of Inspection):

8-11-10

Inspector's Signature: [signature] Date: 8-11-10

Contractor's Signature: [signature] Date: 8-10-10

Distribution: Original – Project File; Copy - Contractor

Iowa Department of Transportation
Form 830214wd (03-04)

STORM WATER SITE INSPECTION

Inspections Made At Least Once Every Seven Calendar Days And After Rainfall Of 13mm (0.5") Or More

Project No.: ESL-3827(611)--7S-77 County: Polk

DNR Authorization Number: IA 18112 - 17884

Inspection Made By: Patrick Hidder Title: Const. Inspector

Comments and Observations:

Controls have been installed @ N.E. Corner of site. A double line of silt fence was installed and straw wattles @ curb. All controls failed due to flooding cause by large rain event. Also controls installed @ street cuts on west side of road to help with flooding + runoff. This controls helped but were damaged during rain event. Silt fences still need cleaned @ STA's 149+00 + STA 147+87.

Deficiencies Found, Additions Required, and Locations:

Silt fences need cleaned out @ STA's stated above. A new plan is in the works to help improve controls on site. This will be done by E.C. Contractor and Engineer.

Contractor Notification (Name and Notification Date):

Cameron Green with Mannatt's 8-11-10

Date of Corrective Action (Within 3 Days of Inspection):

8-11-10

Inspector's Signature: Date: 8-11-10

Contractor's Signature: Date: 8-11-10

Distribution: Original – Project File; Copy - Contractor

7.10 PERMANENT EROSION CONTROL

The normal periods for permanent urban and rural seeding are from March 1 to May 31 and from August 10 to September 30. Native and wetland grass seeding dates are between April 1 through May 31 and November 1 until ground conditions are unsuitable for seeding due to moisture or frost. Wildflower seeding dates are between April 15 and June 30. Spring overseeding is typically performed after February 1 and before April 1. Refer to *Construction Manual Section 7.16* for more information on overseeding.

These dates may be modified by the Office of Construction and Materials or the Office of Design (Roadside Development Section). Changes in the dates will be based on temperature and moisture conditions and possibly specific project considerations.

Seeding date extension notices will be posted on the Office of Construction website:
http://www.iowadot.gov/Construction_Materials/earthwork.html

7.30 MULCH

All permanent seeding with prepared seedbeds are required to be mulched. The mulch shall be "blown" and "tucked in" as soon after seeding as possible. Machine printed weight tickets are required for all mulch used. The inspector should receive the weight ticket and obtain a count of the bales at the time the material is delivered to the job site. The average bale weight can then be calculated.

Following the last rolling with the cultipacker, mulch should be applied to the specified areas at the required rate. A straw mulching machine capable of spreading mulch uniformly is used for applying mulch. Areas inaccessible to a straw mulching machine should be mulched by hand.

Immediately after mulch material has been applied, it should be anchored with a mulch stabilizer operated on the contour.

Mulch shall be Certified Noxious Weed Seed Free Mulch as certified by the Iowa Crop Improvement Association (ICIA) or an adjacent state's Crop Improvement Associations. Bales may have a white certification label or will be bound with purple and yellow twine. A transit certificate is also available from the ICIA.

Refer to http://www.iowacrop.org/Weed_Free.htm for more information on the ICIA Noxious Weed Seed Free Mulch Program.

7.43 EROSION AND SEDIMENT CONTROL TRAINING AND CERTIFICATION PROGRAM

On projects where there is a National Pollutant Discharge Elimination System (NPDES) storm water permit, the Contractor is required to have an Erosion Control Technician (ECT) and an Erosion & Sediment Control (ESC) Basics trained individual. Projects that require NPDES storm water permit will have a Pollution Prevention Plan in the contract documents. **The ESC Basics training requirements begin for contracts let on or after October 15, 2013, and ECT requirements begin for contracts let on or after April 15, 2014.**

Additional information on the program requirements and FAQs is located at:
http://www.iowadot.gov/Construction_Materials/earthwork_erosion/ESControl_training.html

List of ECTs is provided at :
http://www.iowadot.gov/training/ttcp/cert.tech.pdf
This list is updated annually.

List of ESC Basics trained individuals is provided at:
http://www.iowadot.gov/training/ttcp/Erosion%20Control%20Basic.pdf
This list is updated approximately monthly.

During the course of a project, presence of ESC Basics trained individual should be documented periodically in the inspector's IDR.

List of ESC Basics trained individuals is provided at:
http://www.iowadot.gov/training/ttcp/Erosion%20Control%20Basic.pdf
This list is updated approximately monthly.

During the course of a project, presence of ESC Basics trained individual should be documented periodically in the inspector's IDR.

Exercise – Non-Compliance Notice and Extra Work Order
Project Number: ESL-3827(611)—7S-77
Contract ID: 77-3827-611 Accounting ID: 27585
Item: 0070 Item Number: 2301-1033095
Item Description: Standard or Slip Form PCC Pavement, Class C, Class 3, Durability, 9.5 Inches
Item Quantity and Unit: 859.000 SY Unit Price: $58.00000 Bid Amount: $49,822.00

On the fourth day of paving the contractor began work at 8:30 a.m. At 9:45 a.m. you checked the vibrator frequencies on the paver. Vibrators #3, 6, 7, 14 & 17 exceeded 8001 vpm, but were reading less than 9000vpm.

Why is it important to check vibrator frequency (besides because it is a specification)?
_____

What can result if the vibrator frequency is too low? _____

What can result if the vibrator frequency is too high? _____

What is the price adjustment for the concrete affected by these vibrators? Let's break this problem down into pieces……

The contractor was batching 1 load every 1.5 minutes. Each load was 7 cubic yards. How many linear feet were placed from 8:30 until 9:45 (see Cross section for dimensions)?_____

The paver had 18 vibrators, the outside vibrators were 12" from the edge of the pavement. There was a 3' gap at the centerline for the steel. How far apart were the vibrators?_____

How many square yards of concrete will be price adjusted?_____

What is the dollar amount of the price adjustment?_____

Now fill out a non-compliance form and an Extra Work Order for price adjustment for the concrete affected by the vibrators that were out of specification.

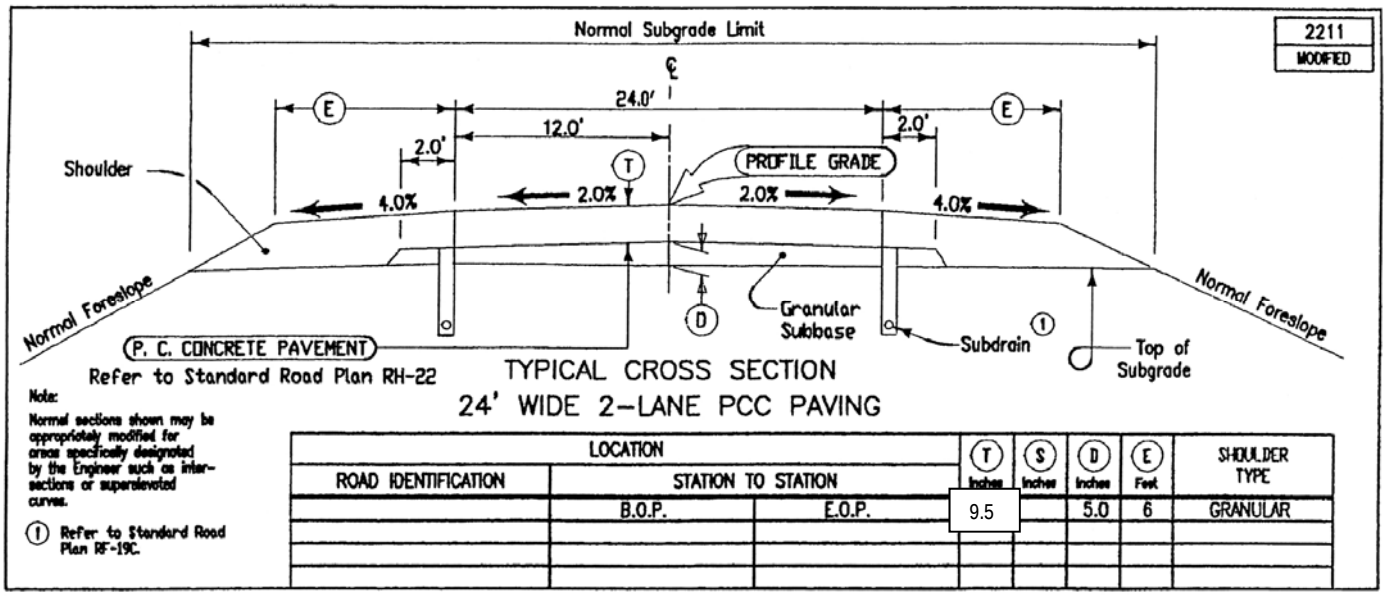


TABLE C3
VIBRATOR FREQUENCY PRICE ADJUSTMENTS

Vibrator Frequency Minimum		Maximum	% Payment of Unit Price
below 3500			90%
3500	to	~~4999*~~ 3999*	95%
~~5000~~ 4000	to	8000	100%
8001	to	9000	90%
9001	to	10,000	75%
above 10,000			50%

* Engineer may extend the lower specification limit to include this range

Note: ~~Penalty~~ Price adjustment shall apply to area half the distance to the adjacent vibrator or edge of slab and the length traveled during the non-compliance

2301.03 CONSTRUCTION

When the contract allows for either standard or slip form pavement, the method used is the Contractor's option. When the contract allows only one type, use the type specified. When slip form is specified, small or irregular areas may be constructed with fixed forms. Irregularly shaped areas of either type of pavement may be formed and finished by hand methods.

A. Equipment

1. General.

Provide sufficient equipment to perform all operations necessary to complete the work. Use equipment meeting the appropriate requirements of Section 2001 and the following provisions.

3. Construction Equipment for Portland Cement Concrete Pavement.

Use equipment that complies with the following requirements:

a. Equipment for Standard Concrete Pavement.

6) Consolidating and Finishing Equipment

For placing and finishing standard type pavement, the following equipment will be required:

a) Vibrators

(1) Consolidate, with a single pass of an approved internal or surface vibrator, the full width and depth of concrete requiring a finishing machine. Operate internal vibrators within a frequency range of 4000 to 8000 vibrations per minute. The Engineer may authorize the minimum vibration frequency to be lowered to 3500 vibrations per minute for particular sections of paving, such as superelevations. Operate surface vibrators within a frequency range of 3500 to 6000 vibrations per minute.

(2) Avoid operating vibrators in a manner to cause a separation of mix ingredients, either a downward displacement of large aggregate particles or an accumulation of laitance on the surface of the concrete. When forward motion of the paver is reduced, vibrator frequency may need to be reduced to avoid separation of the mix.

(3) If a vibrator fails to operate within the specifications, repair or change the vibrator before paving begins:

- The following day, or
- The same day if the continuous paving that day is stopped at a header or the end of a session.

(4) If two adjacent vibrators fail to operate within specifications, stop paving operations and repair or replace the vibrators.

(5) Stop vibrators whenever forward motion of the paver is stopped.

(6) Use an electronic vibrator monitoring device displaying the operating frequency of each individual internal vibrator for all Interstate and Primary contracts with PCC paving quantities of mainline paving over 50,000 square yards (40,000 m^2) and other projects when specified in the contract documents. When required on a contract, the vibrator monitoring device will only be required in areas where mainline pavement length exceeds 600 feet (175 m). When project staging necessitates small mainline sections be paved separately from the majority of mainline paving, the Engineer may waive this requirement for those small sections.

(7) Use a vibrator monitoring device that meets all of the following:

(a) Has a readout display near the operator's controls visible to the paver operator and the Engineer.
(b) Operates continuously while paving.
(c) Displays all vibrator frequencies with manual or automatic sequencing among all individual vibrators.
(d) Records, at a minimum, the clock time, station location, paver track speed, and operating frequency of individual vibrators. Make recordings after each 25 feet (8 m) of paving or after each 5 minutes of time.

(8) Provide the Engineer with an electronic record daily for the first 3 days of paving and weekly thereafter. The Engineer may determine that more frequent submission is necessary, particularly if equipment malfunctions occur.

(9) If the electronic monitoring device fails to operate properly, manually check vibrators immediately. If vibrators are functioning properly, paving may continue, but correct the problem as soon as possible. If recording device fails to operate, paving may continue, but correct the malfunction within 3 paving days. The Engineer may allow additional time if circumstances are beyond the Contractor's control.

(10) Set the internal vibrator penetration depth into the concrete pavement slab to mid slab or as deep as possible while passing above reinforcing steel. Provide an operating position locking device so that no part of the vibrating unit can be lowered to the extent that it will come in contact with reinforcing steel or tie bars while paving.

(11) Do not exceed the manufacturer's recommendations for vibrator horizontal spacing. Do not exceed 16 inches (410 mm) from center to center.

(12) Mount longitudinal axis of vibrator body approximately parallel to direction of paving. Tilt trailing end of each vibrator downward to an approximate slope of 15 degrees below horizontal.

(13) Use vibrators that meet or exceed the following specifications at the manufacturer's design frequency of 10,000 vpm:
(a) Amplitude (peak to peak) 0.070 inches (1.75mm).
(b) Centrifugal force 1200 pounds (5500 N).

Form 830245
05-06

Iowa Department of Transportation

NONCOMPLIANCE NOTICE

Contractor _____ Project No. _____

County _____ Contract ID No. _____ Date _____ Time _____

To: _____ _____ _____
(Name) (Title) (Signature)

You are hereby notified that the following observation and/or test noted _____

_____

_____

and is a violation of Article _____

The test data value is _____

_____

_____

and the specification limits are _____

_____

Additional tests may be performed.

The violation identified in this notice shall be ceased and/or corrected. This may require a modification of current practices or removal and replacement of materials, including labor, at no cost to the Contracting Authority.

You are to determine corrective action necessary.

You are to determine if you wish to discontinue operations until the violation is corrected or additional tests confirm or refute this failing test.

Remarks: _____

_____

_____

Correction: _____

_____

_____

Signed: _____
Inspector

Distribution: White Copy - Contractor; Canary Copy - Project Engineer; Pink Copy - Inspector

IOWA DOT
Form 831240 (12-15)

CHANGE ORDER

For Local Public Agency Projects

No.: _____

Non-Substantial: ☐

Substantial: ☐

_____
Administering Office Concurrence Date

Accounting ID No. (5-digit number): _____

Project Number: _____

Kind of Work: _____

Local Public Agency: _____

Contractor: _____

Date Prepared: _____

You are hereby authorized to make the following changes to the contract documents.

A - Description of change to be made:

B - Reason for change:

C - Settlement for cost(s) of change as follows with items addressed in Sections F and/or G:

D - Justification for cost(s) (See I.M. 3.805, Attachment D, Chapter 2.36, for acceptable justification):

E - Contract time adjustment: ☐ No Working Days added ☐ Working Days added: _____ ☐ Unknown at this time

Justification for selection:

IOWA DOT
Form 831240 (12-15)

Accounting ID No.(5-digit number):_____

Change Order No.:_____

F - Items included in contract:

Participating				For deductions enter as "-x.xx"		
Federal-aid	State-aid	Line Number	Item Description	Unit Price .xx	Quantity .xxx	Amount .xx
			Add Row Delete Row		TOTAL	

G - Items not included in contract:

Participating				For deductions enter as "-x.xx"		
Federal-aid	State-aid	Change Number	Item Description	Unit Price .xx	Quantity .xxx	Amount .xx
			Add Row Delete Row		TOTAL	

H. Signatures

Agreed: _____ Contractor _____ Date

Recommended: _____ Project Engineer _____ Date

Approved: _____ Person in Responsible Charge _____ Date _____ Other (optional) _____ Title _____ Date

_____ Contracting Authority (optional) _____ Date _____ Other (optional) _____ Title _____ Date

_____ Iowa DOT Administering Office _____ Date

Approval is contingent upon funds being available under the existing project agreement or upon additional Federal-aid funds being made available by a modified project agreement.

FHWA Concurrence: _____ Federal Highway Division Administration (if required) _____ Date

DISTRIBUTION (after fully executed on LPA projects): Original - Finance; Copies - Contractor, Project Engineer, Contracting Authority, Administering Office.

Date distributed: _____ Initials: _____

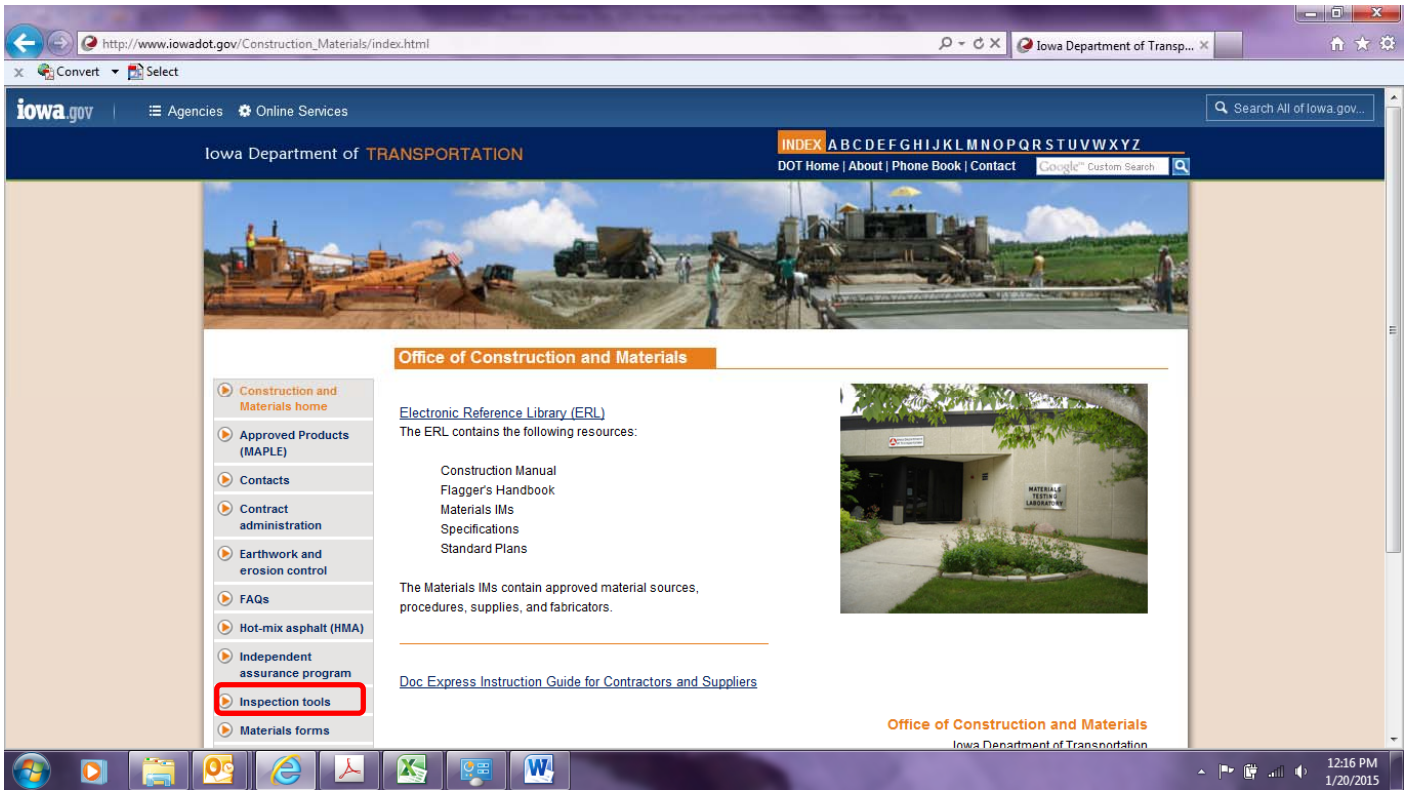
FIELD BOOK FORMS

Exercises – Identifying contract items to select field book pages

Look at the items on the contract and mark the items in this list that are included in the contract.

Note: These forms and other useful contract administration information can be found on the DOT Office of Construction's website at the following web address:

http://www.iowadot.gov/construction/contract_admin.html



http://www.iowadot.gov/Construction_Materials/inspection.html

Iowa Department of Transp...

Convert Select

Office of Construction and Materials

- Construction and Materials home
- Approved Products (MAPLE)
- Contacts
- Contract administration
- Earthwork and erosion control
- FAQs
- Hot-mix asphalt (HMA)
- Independent assurance program
- Inspection tools
- Materials forms
- Portland cement concrete (PCC)
- Special investigations
- Structures and foundations
- Traffic safety
- Training

Inspection tools

- Certified welders list
- FieldBook Cookbook
- FieldBook User Guide
- FieldManager Cookbook
- FieldManager User Guide
- Fundamentals of surveying
- Official sunrise and sunset times
- Project documentation checklist
- Railroad flagger documentation form
- Source of materials list

Mobile forms

CMApp = Construction Manual Appendix

- Environmental
- General
- Grading
- HMA
- PCC
- Structures
- Traffic control/safety

Inspection worksheets

- English
- Metric

Policies and Statements | Applets and Plug-ins | Contact Us

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http://www.iowadot.gov/Construction_Materials/inspection.html

Iowa Department of Transp...

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- Structures and foundations
- Traffic safety
- Training

Structures

Traffic control/safety

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830213
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E003	E013A	E024A	E036	E105Apr09	E127
E003A	E014	E025	E036A	E105Oct10	E128
E003modified	E014A	E025A	E037	E106	E129
E004	E015	E026	E037A	E107	E130
E004A	E015A	E026A	E038	E108	E131
E005	E016	E027	E038A	E109	E132
E005A	E016A	E027A	E039	E110	E133
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E006A	E017A	E028A	E040	E112	E135
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E010A	E021A	E033	E100	E120	
E011	E022	E033A	E101	E121	

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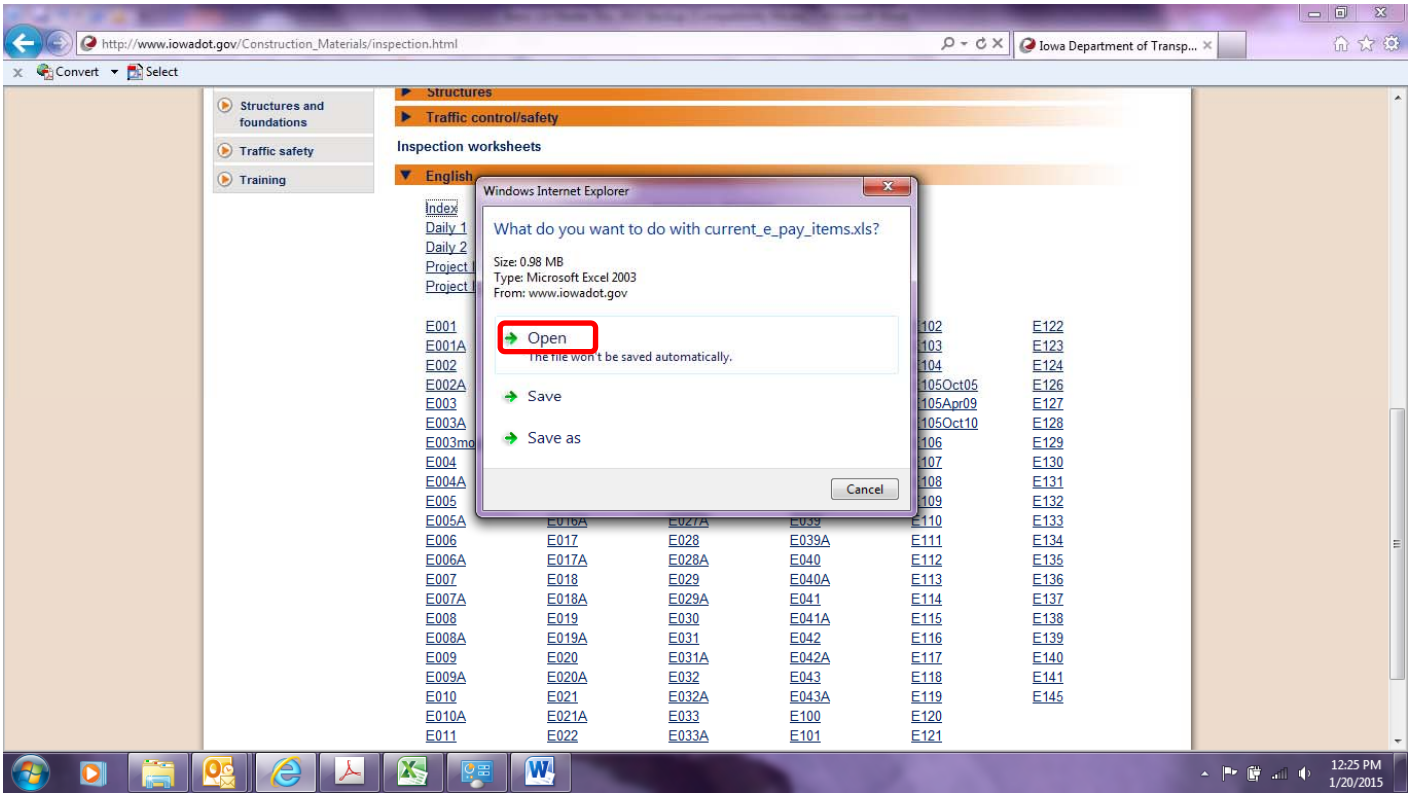
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Save
Save as
Cancel
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Index to English Item Forms Current as of January 2016 Letting

1/20/2016

Items which are Plan Quantity for pay by specifications are in blue text

Excavation items which may be Plan Quantity for pay by specifications in some uses but not in all cases are in orange text.

Item Code	Description	Units	Form	Support Forms	Meas/ Pay	Plan Quantity N	Plan Quantity Y
2101-0850001	CLEARING & GRUBBING	ACRE	E001	E103	STD		Y
2101-0850002	CLEARING & GRUBBING	UNIT	E001	E103	STD		Y
2101-1001000	REMOVAL OF FLOOD DEBRIS	LS	E005		PLAN	N	
2102-0425046	SELECTED BACKFILL	CY	E012	E108	STD		Y
2102-0425070	SPECIAL BACKFILL	TON	E007	E110	STD	N	
2102-0425071	SPECIAL BACKFILL	CY	E004	E110	STD	N	
2102-0425120	SPECIAL BACKFILL MATERIAL, PLACE ONLY	TON	E007	E110	STD	N	
2102-0425220	SPECIAL BACKFILL MATERIAL, PLACE ONLY	CY	E004	E110	STD	N	
2102-2200000	INTERCEPTING DITCHES AND FLUMES	LF	E001		STD	N	
2102-2625000	EMBANKMENT-IN-PLACE	CY	E006	E110	STD	N	
2102-2625001	EMBANKMENT-IN-PLACE, CONTRACTOR FURNISHED	CY	E006	E110	SP	N	
2102-2625010	EMBANKMENT-IN-PLACE, STOCKPILE	CY	E006		STD6	N	
2102-2710070	EXCAVATION CL 10, RDWY & BORROW	CY	E006	E110	STD	N	
2102-2710080	EXCAVATION CL 10, UNSTABLE MATL	CY	E006		STD	N	
2102-2710090	EXCAVATION CL 10, WASTE	CY	E006		STD	N	
2102-2712015	EXCAVATION CL 12, BOULDERS OR ROCK FRAG.	CY	E009		STD	N	
2102-2712070	EXCAVATION CL 12, RDWY & BORROW	CY	E006	E110	STD	N	
2102-2713070	EXCAVATION CL 13, RDWY & BORROW	CY	E006	E110	STD	N	
2102-2713090	EXCAVATION CL 13, WASTE	CY	E006		STD6	N	
2102-3240000	WATER FOR EMBANKMENT CONSTRUCTION	MGAL	E001		STD	N	
2102-4560000	LOCATING TILE LINES	STA	E001		STD	N	
2102-4600000	CRUSHING OF CLASS 12 EXCAVATION	CY	E004		STD	N	
2102-5020010	OBLITERATE OLD ROADBED	STA	E001		PLAN	N	
2103-0000100	PRESPLITTING OF ROCK CUT	SY	E003		STD	N	
2104-2710020	EXCAVATION CL 10, CHANNEL	CY	E004		STD	N	
2104-2712020	EXCAVATION CL 12, CHANNEL	CY	E004		STD	N	
2104-2713020	EXCAVATION CL 13, CHANNEL	CY	E004		STD	N	
2105-8425005	TOPSOIL FURNISH & SPREAD	CY	E011	E110	STD6	N	
2105-8425011	TOPSOIL SPREAD	CY	E011	E110	STD	N	
2105-8425015	TOPSOIL STRIP SALVAGE & SPREAD	CY	E011	E110	STD	N	
2105-8425020	TOPSOIL STRIP & STOCKPILE	CY	E011		STD	N	
2107-0425020	COMPACTING BACKFILL ADJACENT TO BRIDGES, CULVERTS OR STRUCTURES	CY	E004		STD		Y
2107-0875000	COMPACTION W/MOISTURE & DENSITY CONTROL	CY	E008	E107 E108	STD		Y
2107-0875100	COMPACTION W/MOISTURE CONTROL	CY	E008	E107 E108	STD		Y
2107-0890000	COMPACT TRENCH BOTTOM	STA	E001		STD	N	
2107-3825025	GRANULAR MATL - BLANKETS & SUBDRAINS	CY	E004		STD	N	
2108-5025000	OVERHAUL	ST-Y	E010		STD	N	
2109-8225100	SUBGRADE SPECIAL COMPACTION OF	STA	E013	E107 E108	STD	N	
2109-9300100	CONSTR. OF NATURAL SUBGRADE FOR PAV'T.	MILE	E001		PLAN	N	
2110-3825010	GRANULAR MATL	TON	E001	E110	STD	N	
2110-8200000	CONSTRUCTION OF SOIL AGG SUBBASE	MILE	E014		STD	N	
2111-8174100	GRANULAR SUBBASE	SY	E003	E109 E110	STD		Y
2111-8174200	GRANULAR SUBBASE, PLACE ONLY	SY	E003	E109 E110	STD		Y
2112-0000100	WICK DRAIN	LF	E001		STD	N	
2113-0001000	SUBGRADE STABILIZATION MATERIAL	SY	E003		STD		Y
2113-0001100	SUBGRADE STABILIZATION MAT'L, POLYMER GRID	SY	E003		STD		Y
2115-0100000	MODIFIED SUBBASE	CY	E004	E110	STD		Y
2115-0100200	MODIFIED SUBBASE, PLACE ONLY	CY	E004	E110	STD		Y
2116-0000100	FULL DEPTH RECLAMATION	SY	E003	E110	STD	N	
2116-0000210	ASPHALT STABILIZING AGENT	TON	E001		STD	N	
2116-0000220	ASPHALT STABILIZING AGENT	GAL	E001		STD	N	
2116-0000300	MINERAL STABILIZING AGENT	TON	E001		STD	N	
2121-7425010	SHLD GRANULAR, TYPE A	TON	E007		STD	N	
2121-7425011	GRANULAR SHOULDER TYPE A, PLACE ONLY	TON	E007		STD	N	
2121-7425020	SHLD GRANULAR , TYPE B	TON	E007		STD	N	
2121-7425021	SHLD GRANULAR TYPE B, AS PER PLAN	STA	E001		PLAN	N	
2121-7425022	SHLD GRANULAR TYPE B PLACE ONLY	TON	E007		STD	N	
2121-8450810	TRENCH & RESHAPING	STA	E001		STD	N	
2122-5190006	PAVED SHLD PCC 6 IN	SY	E023	E109 E110 E111 E115 E140 E141	PLAN		Y
2122-5190007	PAVED SHLD PCC 7 IN	SY	E023	E109 E110 E111 E115 E140 E141	STD		Y
2122-5190008	PAVED SHLD PCC 8 IN	SY	E023	E109 E110 E111 E115 E140 E141	STD		Y
2122-5190009	PAVED SHLD PCC 9 IN	SY	E023	E109 E110 E111 E115 E140 E141	STD		Y
2122-5190010	PAVED SHLD PCC 10 IN	SY	E023	E109 E110 E111 E115 E140 E141	STD		Y
2122-5190012	PAVED SHLD PCC 12 IN.	SY	E023	E109 E110 E111 E115 E140 E141	STD		Y
2122-5190075	PAVED SHLD, PCC 7.5 IN.	SY	E023	E109 E110 E111 E115 E140 E141	STD		Y
2122-5190085	PAVED SHLD PCC 8.5 IN	SY	E023	E109 E110 E111 E115 E140 E141	STD		Y
2122-5190095	PAVED SHLD, PCC, 9.5	SY	E023	E109 E110 E111 E115 E140 E141	STD		Y
2122-5190105	PAVED SHLD, PCC, 10.5	SY	E023	E109 E110 E111 E115 E140 E141	STD		Y
2122-5190110	PAVED SHLD, PCC, 11	SY	E023	E109 E110 E111 E115 E140 E141	STD		Y
2122-5190115	PAVED SHLD, PCC, 11.5	SY	E023	E109 E110 E111 E115 E140 E141	STD		Y
2122-5190125	PAVED SHLD, PCC, 12.5	SY	E023	E109 E110 E111 E115 E140 E141	STD		Y
2122-5190501	PAVED SHLD, PCC. SHOULDER PANEL FOR BRIDGE END DRAINS	SY	E023	E109 E110 E111 E115 E140 E141	STD5		Y
2122-5500060	PAVED SHOULDER, HMA MIXTURE, 6 IN.	SY	E042	E020 E110 E121 E131	STD		Y
2122-5500080	PAVED SHOULDER, HMA MIXTURE, 8 IN.	SY	E042	E020 E110 E121 E131	STD		Y
2122-5500085	PAVED SHOULDER, HMA MIXTURE, 8.5 IN.	SY	E042	E020 E110 E121 E131	STD		Y
2122-5500090	PAVED SHOULDER, HMA MIXTURE, 9 IN.	SY	E042	E020 E110 E121 E131	STD		Y
2122-5500095	PAVED SHOULDER, HMA MIXTURE, 9.5 IN.	SY	E042	E020 E110 E121 E131	STD		Y
2122-5500100	PAVED SHOULDER, HMA MIXTURE, 10 IN.	SY	E042	E020 E110 E121	STD		Y
2122-5500105	PAVED SHOULDER, HMA MIXTURE, 10.5 IN.	SY	E042	E020 E110 E121	STD		Y
2122-5500110	PAVED SHOULDER, HMA MIXTURE, 11 IN.	SY	E042	E020 E110 E121	STD		Y
2122-5500115	PAVED SHOULDER, HMA MIXTURE, 11.5 IN.	SY	E042	E020 E110 E121	STD		Y
2122-5500120	PAVED SHOULDER, HMA MIXTURE, 12 IN.	SY	E042	E020 E110 E121	STD		Y
2122-5500125	PAVED SHOULDER, HMA MIXTURE, 12.5 IN.	SY	E042	E020 E110 E121	STD		Y
2122-7450080	SHOULDER STRENGTHENING, OPTIONAL HMA OR PCC 8 IN.	SY	E042	E020 E110 E111 E115 E121 E140 E141	STD		Y
2123-7450000	SHLD CONSTRUCTION EARTH	STA	E001		STD		Y
2123-7450020	SHLD FINISH EARTH	STA	E001		STD		Y
2125-2225050	RESHAPING DITCHES	STA	E001		STD		Y
2126-8275058	RECLAIM PRESENT SURFACE MATERIAL	CY	E006		STD	N	
2127-6725020	RECONSTRUCTION OF ROADBED	STA	E001		STD	N	
2128-0000110	FURNISH AND APPLY GRANULAR SHOULDER MATERIAL	CY	E004	E110	STD	N	
2128-0000120	FURNISH AND APPLY GRANULAR SHOULDER MATERIAL	TON	E007		STD	N	

Item Code	Description	Units	Form	Support Forms							Meas/ Pay	Plan Quantity N	Plan Quantity Y
2128-0000200	CONTRACTOR STOCKPILED SHOULDER MATERIAL	TON	E039								DS	N	
2201-0505050	BASE STD/SLIPFORM PCC 5 IN	SY	E023	E109	E110	E111	E115				STD		Y
2201-0505060	BASE STD/SLIPFORM PCC 6 IN	SY	E023	E109	E110	E111	E115				STD		Y
2201-0505065	BASE, STD/SLIPFORM PCC, 6.5 IN	SY	E023	E109	E110	E111	E115				STD		Y
2201-0505070	BASE STD/SLIPFORM PCC 7 IN	SY	E023	E109	E110	E111	E115				STD		Y
2201-0505075	BASE STD/SLIPFORM PCC 7.5 IN	SY	E023	E109	E110	E111	E115				STD		Y
2201-0505080	BASE STD/SLIPFORM PCC 8 IN	SY	E023	E109	E110	E111	E115				STD		Y
2201-0505085	BASE STD/SLIPFORM PCC 8 .5 IN	SY	E023	E109	E110	E111	E115				STD		Y
2201-0505090	BASE STD/SLIPFORM PCC 9 IN	SY	E023	E109	E110	E111	E115				STD		Y
2201-0505095	BASE STD/SLIPFORM PCC 9.5 IN	SY	E023	E109	E110	E111	E115				STD		Y
2201-0505100	BASE STD/SLIPFORM PCC 10 IN	SY	E023	E109	E110	E111	E115				STD		Y
2201-0505105	BASE STD/SLIPFORM PCC 10.5 IN	SY	E023	E109	E110	E111	E115				STD		Y
2201-0505110	BASE STD/SLIPFORM PCC 11 IN	SY	E023	E109	E110	E111	E115				STD		Y
2201-0505115	BASE STD/SLIPFORM PCC 11.5 IN	SY	E003	E109	E110	E111	E115				STD		Y
2201-0505120	BASE STD/SLIPFORM PCC 12 IN	SY	E023	E109	E110	E111	E115				STD		Y
2210-0475105	BASE CHOKE STONE	TON	E015	E107	E108						STD	N	
2210-0475115	GRADED STONE BASE	TON	E001								PLAN	N	
2210-0475290	BASE MACADAM STONE	TON	E001								STD	N	
2210-0476000	PRIMER BITUMEN-MACADAM STONE BASE	GAL	E020								STD	N	
2212-0475095	CLEANING AND PREPARATION OF BASE	MILE	E001								STD		Y
2212-5070310	PATCH FULL-DEPTH REPAIR	SY	E003	E110	E115	E121	E003 Modified (FD Patches)				STD	N	
2212-5070321	PATCHES, PARTIAL-DEPTH REPAIR, P.C.C.	SF	E002	E110	E115						STD	N	
2212-5070322	PATCHES, PARTIAL-DEPTH REPAIR, HOT MIX ASPHALT	SY	E003	E110							STD	N	
2212-5070330	PATCH BY COUNT (REPAIR)	EACH	E001								STD	N	
2212-5075001	HOT MIX ASPHALT SURFACE PATCHES	TON	E001	E110	E121						STD	N	
2213-2713300	EXCAVATION, CLASS 13, FOR WIDENING	CY	E004								STD		Y
2213-6745500	RMVL OF CURB	STA	E001								STD		Y
2213-6745700	RMVL OF FLUME	EACH	E001								STD		Y
2213-7100400	RELOCATION OF MAIL BOX	EACH	E039								PLAN	N	
2213-8200000	BASE WIDENING, HMA MIXTURE	TON	E019	E020	E110	E121					STD	N	
2213-8201030	BASE WIDENING, 3 IN. HMA MIXTURE	SY	E019	E020	E110	E121					STD		Y
2213-8201040	BASE WIDENING, 4 IN. HMA MIXTURE	SY	E019	E020	E110	E121					STD		Y
2213-8201045	BASE WIDENING, 4.5 IN. HMA MIXTURE	SY	E019	E020	E110	E121					STD		Y
2213-8201050	BASE WIDENING, 5 IN. HMA MIXTURE	SY	E019	E020	E110	E121					STD		Y
2213-8201055	BASE WIDENING, 5.5 IN. HMA MIXTURE	SY	E019	E020	E110	E121					STD		Y
2213-8201060	BASE WIDENING, 6 IN. HMA MIXTURE	SY	E019	E020	E110	E121					STD		Y
2213-8201065	BASE WIDENING, 6.5 IN. HMA MIXTURE	SY	E019	E020	E110	E121					STD		Y
2213-8201070	BASE WIDENING, 7 IN. HMA MIXTURE	SY	E019	E020	E110	E121					STD		Y
2213-8201075	BASE WIDENING, 7.5 IN. HMA MIXTURE	SY	E019	E020	E110	E121					STD		Y
2213-8201080	BASE WIDENING, 8 IN. HMA MIXTURE	SY	E019	E020	E110	E121					STD		Y
2213-8201085	BASE WIDENING, 8.5 IN. HMA MIXTURE	SY	E019	E020	E110	E121					STD		Y
2213-8201090	BASE WIDENING, 9 IN. HMA MIXTURE	SY	E019	E020	E110	E121					STD		Y
2213-8201095	BASE WIDENING, 9.5 IN. HMA MIXTURE	SY	E019	E020	E110	E121					STD		Y
2213-8201100	BASE WIDENING, 10 IN. HMA MIXTURE	SY	E019	E020	E110	E121					STD		Y
2213-8201105	BASE WIDENING, 10.5 IN. HMA MIXTURE	SY	E019	E020	E110	E121					STD		Y
2213-8201110	BASE WIDENING, 11 IN. HMA MIXTURE	SY	E019	E020	E110	E121					STD		Y
2213-8202060	BASE WIDENING, 6 IN. PORTLAND CEMENT CONCRETE	SY	E023	E109	E110	E111	E115	E140	E141		STD		Y
2213-8202070	BASE WIDENING 7 IN. PCC	SY	E023	E109	E110	E111	E115	E140	E141		STD		Y
2213-8202075	BASE WIDENING 7.5 IN. PCC	SY	E023	E109	E110	E111	E115	E140	E141		STD		Y
2213-8202080	BASE WIDENING 8 IN. PCC	SY	E023	E109	E110	E111	E115	E140	E141		STD		Y
2213-8202085	BASE WIDENING 8.5 IN. PCC	SY	E023	E109	E110	E111	E115	E140	E141		STD		Y
2213-8202090	BASE WIDENING 9 IN. PCC	SY	E023	E109	E110	E111	E115	E140	E141		STD		Y
2213-8202095	BASE WIDENING 9.5 IN. PCC	SY	E023	E109	E110	E111	E115	E140	E141		STD		Y
2213-8202100	BASE WIDENING 10 IN. PCC	SY	E023	E109	E110	E111	E115	E140	E141		STD		Y
2214-5145150	PAVT SCARIFICATION	SY	E003								STD		Y
2214-5145160	PAVT SCARIFICATION	TON	E001								STD	N	
2214-7450050	BLADING & SHAPING SHLD MAT'L	STA	E001								STD		Y
2216-0994000	CRACKING & SEATING OF PCC PAVT	SY	E003								STD	N	
2217-1000000	RUBBLIZING PAV'T	SY	E003								STD		Y
2301-0685550	BRIDGE APPROACH PAVEMENT, AS PER PLAN	SY	E023	E109	E110	E111	E115	E140	E141		PLAN		Y
2301-0690201	BRIDGE APPROACH, BR-201	SY	E023	E109	E110	E111	E115	E140	E141		STD5		Y
2301-0690202	BRIDGE APPROACH, BR-202	SY	E023	E109	E110	E111	E115	E140	E141		STD5		Y
2301-0690203	BRIDGE APPROACH, BR-203	SY	E023	E109	E110	E111	E115	E140	E141		STD5		Y
2301-0690204	BRIDGE APPROACH, BR-204	SY	E023	E109	E110	E111	E115	E140	E141		STD5		Y
2301-0690205	BRIDGE APPROACH, BR-205	SY	E023	E109	E110	E111	E115	E140	E141		STD5		Y
2301-0690210	BRIDGE APPROACH, TWO LANE	SY	E023	E109	E110	E111	E115	E140	E141		STD5		Y
2301-0690220	BRIDGE APPROACH, SECONDARY ROADS	SY	E023	E109	E110	E111	E115	E140	E141		STD5		Y
2301-1003080	Std. / Slip PCC QM-C Cl. 3 - 8 in.	SY	E023	E109	E110	E111	E115	E140	E141		DS		Y
2301-1003085	Std. / Slip PCC QM-C Cl. 3 - 8.5 in.	SY	E023	E109	E110	E111	E115	E140	E141		DS		Y
2301-1003090	Std. / Slip PCC QM-C Cl. 3 - 9 in.	SY	E023	E109	E110	E111	E115	E140	E141		DS		Y
2301-1003095	Std. / Slip PCC QM-C Cl. 3 - 9.5 in.	SY	E023	E109	E110	E111	E115	E140	E141		DS		Y
2301-1003100	Std. / Slip PCC QM-C Cl. 3 - 10 in.	SY	E023	E109	E110	E111	E115	E140	E141		DS		Y
2301-1003105	Std. / Slip PCC QM-C Cl. 3 - 10.5 in.	SY	E023	E109	E110	E111	E115	E140	E141		DS		Y
2301-1003110	Std. / Slip PCC QM-C Cl. 3 - 11 in.	SY	E023	E109	E110	E111	E115	E140	E141		DS		Y
2301-1003115	Std. / Slip PCC QM-C Cl. 3 - 11.5 in.	SY	E023	E109	E110	E111	E115	E140	E141		DS		Y
2301-1003120	Std. / Slip PCC QM-C Cl. 3 - 12 in.	SY	E023	E109	E110	E111	E115	E140	E141		DS		Y
2301-1003125	Std. / Slip PCC QM-C Cl. 3 - 12.5 in.	SY	E023	E109	E110	E111	E115	E140	E141		DS		Y
2301-1004080	Std. / Slip PCC QM-C Cl. 3i - 8 in.	SY	E023	E109	E110	E111	E115	E140	E141		DS		Y
2301-1004095	Std. / Slip PCC QM-C Cl. 3i - 9.5 in.	SY	E023	E109	E110	E111	E115	E140	E141		DS		Y
2301-1004100	Std. / Slip PCC QM-C Cl. 3i - 10 in.	SY	E023	E109	E110	E111	E115	E140	E141		DS		Y
2301-1004105	Std. / Slip PCC QM-C Cl. 3i - 10.5 in.	SY	E023	E109	E110	E111	E115	E140	E141		DS		Y
2301-1004110	Std. / Slip PCC QM-C Cl. 3i - 11 in.	SY	E023	E109	E110	E111	E115	E140	E141		DS		Y
2301-1004115	Std. / Slip PCC QM-C Cl. 3i - 11.5 in.	SY	E023	E109	E110	E111	E115	E140	E141		DS		Y
2301-1004120	Std. / Slip PCC QM-C Cl. 3i - 12 in.	SY	E023	E109	E110	E111	E115	E140	E141		DS		Y
2301-1004125	Std. / Slip PCC QM-C Cl. 3i - 12.5 in.	SY	E023	E109	E110	E111	E115	E140	E141		DS		Y
2301-1004130	Std. / Slip PCC QM-C Cl. 3i - 13 IN.	SY	E023	E109	E110	E111	E115	E140	E141		DS		Y
2301-1004135	Std. / Slip PCC QM-C Cl. 3i - 13.5 IN.	SY	E023	E109	E110	E111	E115	E140	E141		DS		Y
2301-1004140	Std. / Slip PCC QM-C Cl. 3i - 14 IN.	SY	E023	E109	E110	E111	E115	E140	E141		DS		Y
2301-1012000	Std. / Slip PCC Cl. A CL. 2 - Variable Thickness	SY	E023	E109	E110	E111	E115	E140	E141		STD		Y
2301-1012060	Std. / Slip PCC Cl. A Cl. 2 - 6 in.	SY	E023	E109	E110	E111	E115	E140	E141		STD		Y
2301-1012065	Std. / Slip PCC Cl. A Cl. 2 - 6.5 in.	SY	E023	E109	E110	E111	E115	E140	E141		STD		Y
2301-1012070	Std. / Slip PCC Cl. A Cl. 2 - 7 in.	SY	E023	E109	E110	E111	E115	E140	E141		STD		Y
2301-1012075	Std. / Slip PCC Cl. A Cl. 2 - 7.5 in.	SY	E023	E109	E110	E111	E115	E140	E141		STD		Y
2301-1012080	Std. / Slip PCC Cl. A Cl. 2 - 8 in.	SY	E023	E109	E110	E111	E115	E140	E141		STD		Y
2301-1012085	Std. / Slip PCC Cl. A Cl. 2 - 8.5 in.	SY	E023	E109	E110	E111	E115	E140	E141		STD		Y

Item Code	Description	Units	Form	Support Forms						Meas/ Pay	Plan Quantity N	Plan Quantity Y
2301-1012090	Std. / Slip PCC Cl. A Cl. 2 - 9 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1012095	Std. / Slip PCC Cl. A Cl. 2 - 9.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1012100	Std. / Slip PCC Cl. A Cl. 2 - 10 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1013000	Std. / Slip PCC Cl. A Cl. 3 - Variable Thickness	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1013060	Std. / Slip PCC Cl. A Cl. 3 - 6 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1013065	Std. / Slip PCC Cl. A Cl. 3 - 6.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1013070	Std. / Slip PCC Cl. A Cl. 3 - 7 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1013075	Std. / Slip PCC Cl. A Cl. 3 - 7.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1013080	Std. / Slip PCC Cl. A Cl. 3 - 8 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1013085	Std. / Slip PCC Cl. A Cl. 3 - 8.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1013090	Std. / Slip PCC Cl. A Cl. 3 - 9 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1013095	Std. / Slip PCC Cl. A Cl. 3 - 9.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1013100	Std. / Slip PCC Cl. A Cl. 3 - 10 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1022000	Std. / Slip PCC Cl. B Cl. 2 - Variable Thickness	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1022060	Std. / Slip PCC Cl. B Cl. 2 - 6 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1022065	Std. / Slip PCC Cl. B Cl. 2 - 6.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1022070	Std. / Slip PCC Cl. B Cl. 2 - 7 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1022075	Std. / Slip PCC Cl. B Cl. 2 - 7.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1022080	Std. / Slip PCC Cl. B Cl. 2 - 8 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1022085	Std. / Slip PCC Cl. B Cl. 2 - 8.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1022090	Std. / Slip PCC Cl. B Cl. 2 - 9 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1022095	Std. / Slip PCC Cl. B Cl. 2 - 9.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1022100	Std. / Slip PCC Cl. B Cl. 2 - 10 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1032000	Std. / Slip PCC Cl. C Cl. 2 - Varialble Thickness	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1032060	Std. / Slip PCC Cl. C Cl. 2 - 6 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1032065	Std. / Slip PCC Cl. C Cl. 2 - 6.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1032070	Std. / Slip PCC Cl. C Cl. 2 - 7 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1032075	Std. / Slip PCC Cl. C Cl. 2 - 7.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1032080	Std. / Slip PCC Cl. C Cl. 2 - 8 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1032085	Std. / Slip PCC Cl. C Cl. 2 - 8.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1032090	Std. / Slip PCC Cl. C Cl. 2 - 9 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1032095	Std. / Slip PCC Cl. C Cl. 2 - 9.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1032100	Std. / Slip PCC Cl. C Cl. 2 - 10 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1033000	Std. / Slip PCC Cl. C Cl. 3 - Variable Thickness	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1033050	Std. / Slip PCC Cl. C Cl. 3 - 5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1033060	Std. / Slip PCC Cl. C Cl. 3 - 6 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1033065	Std. / Slip PCC Cl. C Cl. 3 - 6.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1033070	Std. / Slip PCC Cl. C Cl. 3 - 7 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1033075	Std. / Slip PCC Cl. C Cl. 3 - 7.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1033080	Std. / Slip PCC Cl. C Cl. 3 - 8 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1033085	Std. / Slip PCC Cl. C Cl. 3 - 8.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1033090	Std. / Slip PCC Cl. C Cl. 3 - 9 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1033095	Std. / Slip PCC Cl. C Cl. 3 - 9.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1033100	Std. / Slip PCC Cl. C Cl. 3 - 10 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1033105	Std. / Slip PCC Cl. C Cl. 3 - 10.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1033110	Std. / Slip PCC Cl. C Cl. 3 - 11 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1033115	Std. / Slip PCC Cl. C Cl. 3 - 11.5 in	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1033120	Std. / Slip PCC Cl. C Cl. 3 - 12 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1033125	Std. / Slip PCC Cl. C Cl. 3 - 12.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1033130	Std. / Slip PCC Cl. C Cl. 3 - 13 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1033140	Std. / Slip PCC Cl. C Cl. 3 - 14 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1034000	Std. / Slip PCC Cl. C Cl. 3i - Variable Thickness	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1034070	Std / Slip PCC Cl C Cl. 3i - 7 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1034080	Std. / Slip PCC Cl. C Cl. 3i - 8 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1034085	Std. / Slip PCC Cl. C Cl. 3i - 8.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1034090	Std. / Slip PCC Cl. C Cl. 3i - 9 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1034095	Std. / Slip PCC Cl. C Cl. 3i - 9.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1034100	Std. / Slip PCC Cl. C Cl. 3i - 10 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1034105	Std. / Slip PCC Cl. C Cl. 3i - 10.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1034110	Std. / Slip PCC Cl. C Cl. 3i - 11 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1034115	Std. / Slip PCC Cl. C Cl. 3i - 11.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1034120	Std. / Slip PCC Cl. C Cl. 3i - 12 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1034125	Std. / Slip PCC Cl. C Cl. 3i - 12.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1034130	Std. / Slip PCC Cl. C Cl. 3i - 13 IN.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1034135	Std. / Slip PCC Cl. C Cl. 3i - 13.5 IN.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1034140	Std. / Slip PCC Cl. C Cl. 3i - 14 IN.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1082000	Std. / Slip PCC Cl. M Cl. 2 - Variable Thickness	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1082060	Std. / Slip PCC Cl. M Cl. 2 - 6 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1082065	Std. / Slip PCC Cl. M Cl. 2 - 6.5 IN.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1082070	Std. / Slip PCC Cl. M Cl. 2 - 7 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1082075	Std. / Slip PCC Cl. M Cl. 2 - 7.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1082080	Std. / Slip PCC Cl. M Cl. 2 - 8 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1082085	Std. / Slip PCC Cl. M Cl. 2 - 8.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1082090	Std. / Slip PCC Cl. M Cl. 2 - 9 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1082095	Std. / Slip PCC Cl. M Cl. 2 - 9.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1082100	Std. / Slip PCC Cl. M Cl. 2 - 10 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1082105	Std. / Slip PCC Cl. M Cl. 2 - 10.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1082110	Std. / Slip PCC Cl. M Cl. 2 - 11 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1082115	Std. / Slip PCC Cl. M Cl. 2 - 11.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1082120	Std. / Slip PCC Cl. M Cl. 2 - 12 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1083000	Std. / Slip PCC Cl. M Cl. 3 - Variable Thickness	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1083060	Std. / Slip PCC Cl. M Cl. 3 - 6 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1083065	Std. / Slip PCC Cl. M Cl. 3 - 6.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1083070	Std. / Slip PCC Cl. M Cl. 3 - 7 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1083075	Std. / Slip PCC Cl. M Cl. 3 - 7.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1083080	Std. / Slip PCC Cl. M Cl. 3 - 8 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1083085	Std. / Slip PCC Cl. M Cl. 3 - 8.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1083090	Std. / Slip PCC Cl. M Cl. 3 - 9 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1083095	Std. / Slip PCC Cl. M Cl. 3 - 9.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1083100	Std. / Slip PCC Cl. M Cl. 3 - 10 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1083105	Std. / Slip PCC Cl. M Cl. 3 - 10.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1083110	Std. / Slip PCC Cl. M Cl. 3 - 11 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1083115	Std. / Slip PCC Cl. M Cl. 3 - 11.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1083120	Std. / Slip PCC Cl. M Cl. 3 - 12 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1084095	Std. / Slip PCC Cl. M Cl 3i - 9.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y

Item Code	Description	Units	Form	Support Forms						Meas/ Pay	Plan Quantity N	Plan Quantity Y
2301-1084100	Std. / Slip PCC Cl. M Cl 3i - 10 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1084105	Std. / Slip PCC Cl. M Cl 3i - 10.5 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-1084110	Std. / Slip PCC Cl. M Cl 3i - 11 in.	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2301-4874006	MEDIAN DOWELLED PCC AS PER PLAN	SY	E003	E109	E110	E111	E115			STD		Y
2301-4874106	MEDIAN, DOWELLED PCC, 6 INCH	SY	E003	E109	E110	E111	E115			STD		Y
2301-4874500	MEDIAN PCC PER PLAN	SY	E003	E109	E110	E111	E115			STD		Y
2301-4875004	MEDIAN 4 IN PCC	SY	E003	E109	E110	E111	E115			STD		Y
2301-4875005	MEDIAN 5 IN PCC	SY	E003	E109	E110	E111	E115			STD		Y
2301-4875006	MEDIAN 6 IN PCC	SY	E003	E109	E110	E111	E115			STD		Y
2301-4875008	MEDIAN 8 IN PCC	SY	E003	E109	E110	E111	E115			STD		Y
2301-4875009	MEDIAN 9 IN PCC	SY	E003	E109	E110	E111	E115			STD		Y
2301-4875010	MEDIAN 10 IN PCC	SY	E003	E109	E110	E111	E115			STD		Y
2301-4875011	MEDIAN 11 IN PCC	SY	E003	E109	E110	E111	E115			STD		Y
2301-4875012	MEDIAN 12 IN PCC	SY	E003	E109	E110	E111	E115			STD		Y
2301-4875014	MEDIAN 14 IN PCC	SY	E003	E109	E110	E111	E115			STD		Y
2301-4877020	2 INCH CONDUIT, PAVED ISLAND	LF	E001							PLAN	N	
2301-6911722	PCC PAV'T SAMPLES	LS	E005							STD		Y
2301-6912000	DOWEL BAR RETROFIT	EACH	E001							DS	N	
2301-7000110	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR PCC PAVEMENT THICKNESS (BY SCHEDULE)	EACH	E001							STD	N	
2301-7000120	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR QM-C PCC PAVEMENT COARSENESS AND WORKABILITY FACTORS	EACH	E001							DS	N	
2301-9091000	RUMBLE STRIP PANEL (PCC SURFACE)	EACH	E039							PLAN	N	
2302-1200070	PCC PAVEMENT WIDENING 7 IN	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2302-1200075	PCC PAVEMENT WIDENING 7 .5 IN	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2302-1200080	PCC PAVEMENT WIDENING 8 IN	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2302-1200085	PCC PAVEMENT WIDENING 8.5 IN	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2302-1200090	PCC PAVEMENT WIDENING 9 IN	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2302-1200095	PCC PAVEMENT WIDENING 9.5 IN	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2302-1200100	PCC PAVEMENT WIDENING 10 IN	SY	E023	E109	E110	E111	E115	E140	E141	STD		Y
2302-7430100	SHLD, TYPE A	STA	E001							STD		Y
2302-7430200	SHLD, TYPE B	STA	E001							STD		Y
2302-7430300	SHLD, TYPE C	STA	E001							STD		Y
2303-0000100	HMA, COMM MIX (INCLUDES ASPHALT BINDER), AS PER PLAN	TON	E019	E020	E110	E121				STD	N	
2303-0001000	HMA WEDGE, LEVELING OR STRENGTHENING COURSE	TON	E019	E020	E110	E121				STD	N	
2303-0002380	HMA INTERLAYER BASE, 3/8 IN. MIX	TON	E019	E020	E110	E121				DS	N	
2303-0003380	HMA THIN LIFT SURFACE, 3/8"	TON	E019	E020	E110	E121				DS	N	
2303-0013380	HMA (100,000 ESAL), BASE, INTER,OR SURF,3/8 IN. MIX,NO FRIC REQ	TON	E019	E020	E110	E121				STD	N	
2303-0013500	HMA (100,000 ESAL), BASE, INTER, OR SURF, 1/2 IN MIX NO FRIC REQ	TON	E019	E020	E110	E121				STD	N	
2303-0013750	HMA (100,000 ESAL), BASE, INTER,OR SURF, 3/4 IN. MIX, NO SPCL FRIC REQ	TON	E019	E020	E110	E122				STD	N	
2303-0021500	HMA (300,000 ESAL), BASE COURSE,1/2 IN. MIX	TON	E019	E020	E110	E121				STD	N	
2303-0021750	HMA (300,000 ESAL), BASE COURSE, 3/4 IN. MIX	TON	E019	E020	E110	E121				STD	N	
2303-0023380	HMA (300,000 ESAL), INTER OR SURF,3/8 IN. MIX NO FRIC REQ	TON	E019	E020	E110	E121				STD	N	
2303-0023500	HMA (300,000 ESAL), INTER OR SURF, 1/2 IN.MIX, NO FRIC REQ	TON	E019	E020	E110	E121				STD	N	
2303-0023750	HMA (300,000 ESAL), INTER OR SURF , 3/4 IN. MIX, NO SPCL FRIC REQ	TON	E019	E020	E110	E122				STD	N	
2303-0031500	HMA (1,000,000 ESAL), BASE COURSE, 1/2 IN. MIX	TON	E019	E020	E110	E121				STD	N	
2303-0031750	HMA (1,000,000 ESAL), BASE COURSE, 3/4 IN. MIX	TON	E019	E020	E110	E121				STD	N	
2303-0032500	HMA (1,000,000 ESAL), INTERMEDIATE COURSE, 1/2 IN MIX	TON	E019	E020	E110	E121				STD	N	
2303-0032750	HMA (1,000,000 ESAL), INTERMEDIATE COURSE,3/4 IN. MIX	TON	E019	E020	E110	E121				STD	N	
2303-0033380	HMA (1,000,000 ESAL), SURFACE COURSE, 3/8 IN MIX, NO FRIC REQ	TON	E019	E020	E110	E121				STD	N	
2303-0033382	HMA (1,000,000 ESAL), SURFACE COURSE, 3/8 IN. MIX, FRIC L-2	TON	E019	E020	E110	E121				STD	N	
2303-0033383	HMA (1,000,000 ESAL), SURFACE COURSE, 3/8 IN. MIX, FRIC L-3	TON	E019	E020	E110	E121				STD	N	
2303-0033384	HMA (1,000,000 ESAL), SURFACE COURSE,3/8 IN.MIX FRIC L-4	TON	E019	E020	E110	E121				STD	N	
2303-0033500	HMA (1,000,000 ESAL), SURFACE COURSE,1/2 IN MIX NO FRIC REQ	TON	E019	E020	E110	E121				STD	N	
2303-0033502	HMA (1,000,000 ESAL), SURFACE COURSE, 1/2 IN. MIX, FRIC L-2	TON	E019	E020	E110	E121				STD	N	
2303-0033503	HMA (1,000,000 ESAL), SURFACE COURSE, 1/2 IN. MIX, FRIC L-3	TON	E019	E020	E110	E121				STD	N	
2303-0033504	HMA (1,000,000 ESAL), SURFACE COURSE,1/2 IN MIX FRIC L-4	TON	E019	E020	E110	E121				STD	N	
2303-0041500	HMA (3,000,000 ESAL), BASE COURSE,1/2 IN MIX	TON	E019	E020	E110	E121				STD	N	
2303-0041750	HMA (3,000,000 ESAL), BASE COURSE,3/4 IN MIX	TON	E019	E020	E110	E121				STD	N	
2303-0042380	HMA (3,000,000 ESAL), INTERMEDIATE COURSE, 3/8 IN. MIX	TON	E019	E020	E110	E121				STD	N	
2303-0042500	HMA (3,000,000 ESAL), INTERMEDIATE COURSE,1/2 IN MIX	TON	E019	E020	E110	E121				STD	N	
2303-0042750	HMA (3,000,000 ESAL), INTERMEDIATE COURSE,3/4 IN MIX	TON	E019	E020	E110	E121				STD	N	
2303-0043380	HMA (3,000,000 ESAL), SURFACE COURSE, 3/8 IN. MIX, NO FRIC REQ	TON	E019	E020	E110	E121				STD	N	
2303-0043500	HMA (3,000,000 ESAL), SURFACE COURSE, 1/2 IN MIX, NO FRIC REQ	TON	E019	E020	E110	E121				STD	N	
2303-0043502	HMA (3,000,000 ESAL), SURFACE COURSE, 1/2 IN. MIX, FRIC L-2	TON	E019	E020	E110	E121				STD	N	
2303-0043503	HMA (3,000,000 ESAL), SURFACE COURSE, 1/2 IN MIX, FRIC L-3	TON	E019	E020	E110	E121				STD	N	
2303-0043504	HMA (3,000,000 ESAL), SURFACE COURSE, 1/2 IN MIX, FRIC L-4	TON	E019	E020	E110	E121				STD	N	
2303-0043750	HMA (3,000,000 ESAL), SURFACE COURSE, 3/4 IN MIX, NO FRIC REQ	TON	E019	E020	E110	E121				STD	N	
2303-0051500	HMA (10,000,000 ESAL), BASE COURSE, 1/2 IN. MIX	TON	E019	E020	E110	E121				STD	N	
2303-0051750	HMA (10,000,000 ESAL), BASE COURSE,3/4 IN. MIX	TON	E019	E020	E110	E121				STD	N	
2303-0051990	HMA (10,000,000 ESAL), BASE COURSE,1 IN. MIX	TON	E019	E020	E110	E121				STD	N	
2303-0052500	HMA (10,000,000 ESAL), INTERMEDIATE COURSE,1/2 IN.MIX	TON	E019	E020	E110	E121				STD	N	
2303-0052750	HMA (10,000,000 ESAL), INTERMEDIATE COURSE,3/4 IN.MIX	TON	E019	E020	E110	E121				STD	N	
2303-0053500	HMA (10,000,000 ESAL), SURFACE COURSE, 1/2 IN. MIX, NO FRIC REQ	TON	E019	E020	E110	E121				STD	N	
2303-0053502	HMA (10,000,000 ESAL), SURFACE COURSE, 1/2 IN. MIX, FRIC L-2	TON	E019	E020	E110	E121				STD	N	
2303-0053503	HMA (10,000,000 ESAL), SURFACE COURSE,1/2 IN. MIX FRIC L-3	TON	E019	E020	E110	E121				STD	N	
2303-0053504	HMA (10,000,000 ESAL), SURFACE COURSE,1/2 IN. MIX FRIC L-4	TON	E019	E020	E110	E121				STD	N	
2303-0053753	HMA (10,000,000 ESAL), SURFACE COURSE,3/4 IN. MIX FRIC L-3	TON	E019	E020	E110	E121				STD	N	
2303-0061380	HMA (30,000,000 ESAL), BASE COURSE,3/8 IN. MIX	TON	E019	E020	E110	E121				STD	N	
2303-0061500	HMA (30,000,000 ESAL), BASE COURSE,1/2 IN. MIX	TON	E019	E020	E110	E121				STD	N	
2303-0061750	HMA (30,000,000 ESAL), BASE COURSE, 3/4 IN. MIX	TON	E019	E020	E110	E121				STD	N	
2303-0061990	HMA (30,000,000 ESAL), BASE COURSE,1 IN. MIX	TON	E019	E020	E110	E121				STD	N	
2303-0062500	HMA (30,000,000 ESAL), INTERMEDIATE COURSE,1/2 IN. MIX	TON	E019	E020	E110	E121				STD	N	
2303-0062750	HMA (30,000,000 ESAL), INTERMEDIATE COURSE,3/4 IN. MIX	TON	E019	E020	E110	E121				STD	N	
2303-0063502	HMA (30,000,000 ESAL), SURFACE COURSE,1/2 IN. MIX FRIC L-2	TON	E019	E020	E110	E121				STD	N	
2303-0063503	HMA (30,000,000 ESAL), SURFACE COURSE,1/2 IN. MIX FRIC L-3	TON	E019	E020	E110	E121				STD	N	
2303-0063752	HMA (30,000,000 ESAL), SURFACE COURSE,3/4 IN. MIX FRIC L-2	TON	E019	E020	E110	E121				STD	N	
2303-0063753	HMA (30,000,000 ESAL), SURFACE COURSE,3/4 IN. MIX FRIC L-3	TON	E019	E020	E110	E121				STD	N	
2303-0071750	HMA (100,000,000 ESAL), BASE COURSE, 3/4 IN. MIX	TON	E019	E020	E110	E121				STD	N	
2303-0071990	HMA (100,000,000 ESAL), BASE COURSE,1 IN. MIX	TON	E019	E020	E110	E121				STD	N	
2303-0072500	HMA (100,000,000 ESAL), INTERMEDIATE COURSE, 1/2 IN. MIX	TON	E019	E020	E110	E121				STD	N	
2303-0073502	HMA (100,000,000 ESAL), SURFACE COURSE, 1/2 IN. MIX, FRIC. L-2	TON	E019	E020	E110	E121				STD	N	
2303-0101000	HMA, WEDGE, LEVELING OR STRENGTHENING COURSE	SY	E042	E020	E110	E121	E131			STD		Y
2303-0113380	HMA (100,000 ESAL),BASE,INTER,OR SURF, 3/8 IN. MIX NO FRIC REQ	SY	E042	E020	E110	E121	E131			STD		Y
2303-0113500	HMA (100,000 ESAL),BASE,INTER,OR SURF,1/2 IN. MIX NO FRIC REQ	SY	E042	E020	E110	E121	E131			STD		Y

Item Code	Description	Units	Form	Support Forms					Meas/ Pay	Plan Quantity N	Plan Quantity Y
2303-0121500	HMA (300,000 ESAL), BASE COURSE,1/2 IN. MIX	SY	E042	E020	E110	E121	E131		STD		Y
2303-0121750	HMA (300,000 ESAL), BASE COURSE,3/4 IN. MIX	SY	E042	E020	E110	E121	E131		STD		Y
2303-0122380	HMA (300,000 ESAL), INTER OR SURF,3/8 IN. MIX NO FRIC REQ	SY	E042	E020	E110	E121	E131		STD		Y
2303-0122500	HMA (300,000 ESAL), INTER OR SURF,1/2 IN. MIX NO FRIC REQ	SY	E042	E020	E110	E121	E131		STD		Y
2303-0131500	HMA (1,000,000 ESAL), BASE COURSE,1/2 IN. MIX	SY	E042	E020	E110	E121	E131		STD		Y
2303-0131750	HMA (1,000,000 ESAL), BASE COURSE,3/4 IN. MIX	SY	E042	E020	E110	E121	E131		STD		Y
2303-0132500	HMA (1,000,000 ESAL), INTERMEDIATE COURSE,1/2 IN. MIX	SY	E042	E020	E110	E121	E131		STD		Y
2303-0132750	HMA (1,000,000 ESAL),INTERMEDIATE COURSE,3/4 IN. MIX	SY	E042	E020	E110	E121	E131		STD		Y
2303-0133380	HMA (1,000,000 ESAL), SURF COURSE,3/8 IN. MIX NO FRIC REQ	SY	E042	E020	E110	E121	E131		STD		Y
2303-0133384	HMA (1,000,000 ESAL), SURF COURSE,3/8 IN. MIX FRIC L-4	SY	E042	E020	E110	E121	E131		STD		Y
2303-0133500	HMA (1,000,000 ESAL), SURF COURSE,1/2 IN. MIX NO FRIC REQ	SY	E042	E020	E110	E121	E131		STD		Y
2303-0133504	HMA (1,000,000 ESAL), SURF COURSE,1/2 IN. MIX FRIC L-4	SY	E042	E020	E110	E121	E131		STD		Y
2303-0141750	HMA (3,000,000 ESAL), BASE COURSE, 3/4 IN. MIX	SY	E042	E020	E110	E121	E131		STD		Y
2303-0142500	HMA (3,000,000 ESAL), INTERMEDIATE COURSE, 1/2 IN. MIX	SY	E042	E020	E110	E121	E131		STD		Y
2303-0142750	HMA (3,000,000 ESAL), INTERMEDIATE COURSE, 3/4 IN. MIX	SY	E042	E020	E110	E121	E131		STD		Y
2303-0143500	HMA (3,000,000 ESAL), SURF COURSE, 1/2 IN. MIX, NO FRIC REQ	SY	E042	E020	E110	E121	E131		STD		Y
2303-0143503	HMA (3,000,000 ESAL), SURF COURSE, 1/2 IN. MIX, FRIC L-3	SY	E042	E020	E110	E121	E131		STD		Y
2303-0143504	HMA (3,000,000 ESAL), SURF COURSE, 1/2 IN. MIX, FRIC L-4	SY	E042	E020	E110	E121	E131		STD		Y
2303-0143750	HMA (3,000,000 ESAL), SURFCOURSE, 3/4 IN. MIX, NO FRIC REQ	SY	E042	E020	E110	E121	E131		STD		Y
2303-0245000	ASPHALT BINDER, PG	TON	E001						STD	N	
2303-0245234	ASPHALT BINDER, PG 52-34	TON	E001						STD	N	
2303-0245828	ASPHALT BINDER, PG 58-28	TON	E001						STD	N	
2303-0245834	ASPHALT BINDER, PG 58-34	TON	E001						STD	N	
2303-0246422	ASPHALT BINDER, PG 64-22	TON	E001						STD	N	
2303-0246428	ASPHALT BINDER, PG 64-28	TON	E001						STD	N	
2303-0246434	ASPHALT BINDER, PG 64-34	TON	E001						STD	N	
2303-0247022	ASPHALT BINDER, PG 70-22	TON	E001						STD	N	
2303-0247028	ASPHALT BINDER, PG 70-28	TON	E001						STD	N	
2303-0247634	ASPHALT BINDER, PG 76-34	TON	E001						STD	N	
2303-3250000	FABRIC REINFORCEMENT WITH ADHESIVE	SY	E003	E020					STD		Y
2303-3250011	FABRIC REINFORCEMENT	SY	E003	E020					STD		Y
2303-6911000	HMA PAVEMENT SAMPLES	LS	E005						STD		Y
2303-7000510	HOT MIX ASPHALT MIXTURE INCORPORATED WITH ANTI-STRIP AGENT	TON	E001						PLAN	N	
2303-7000550	INTELLIGENT COMPACTION-HMA	LS	E005						SP		Y
2303-7000610	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR HMA MIXTURE LABORATORY VOIDS (FORMULA - BY PAY FACTOR)	EACH	E039						STD	N	
2303-7000620	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR HMA MIXTURE FIELD VOIDS (FORMULA - BY PAY FACTOR)	EACH	E039						STD	N	
2303-7000630	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR HMA MIXTURE LONGITUDINAL JOINT DENSITY (FORMULA - BY PAY FACTOR)	EACH	E039						DS	N	
2303-9091010	RUMBLE STRIP PANEL (HMA SURFACE)	EACH	E039						PLAN	N	
2303-9093010	HMA, DRIVEWAY	SY	E042	E020	E110	E121			PLAN		Y
2304-0100000	DETOUR PAVEMENT	SY	E003						STD		Y
2304-0101000	TEMPORARY PAVEMENT	SY	E003	E109	E110				PLAN	N	
2306-1000000	ASPH EMULSION-FOG SEAL (PAV'T)	GAL	E020						STD	N	
2307-0025003	AGG RDWY COVER 3/8 IN.	TON	E007						STD	N	
2307-0025005	AGG RDWY COVER 1/2 IN.	TON	E007						STD	N	
2307-0025009	AGG COVER	TON	E007						STD	N	
2307-0025012	AGG COVER - SAND	TON	E007						STD	N	
2307-0600000	BINDER BITUMEN	GAL	E020						STD	N	
2307-0600450	BINDER BITUMEN MC-3000/CRS-2	GAL	E020						STD	N	
2307-0600451	BINDER BITUMEN MC-3000	GAL	E020						STD	N	
2307-0600454	BINDER BITUMEN CRS-2	GAL	E020						STD	N	
2307-0600456	BINDER BITUMEN CRS-2P	GAL	E020						STD	N	
2307-1400000	ASPH EMULSION FOR DUST CONTROL	GAL	E020						STD	N	
2308-1000000	ASPH EMULSION-FOG SEAL (SHLD)	GAL	E020						STD	N	
2308-1000010	ASPHALT EMULSION CONTAINING GILSONITE FOR FOG SEAL (SHOULDERS)	GAL	E020						SS	N	
2309-8256610	SURF RECYCLING BY HEATER SCARIFICATION	SY	E003						STD		Y
2310-5151040	PORTLAND CEMENT CONCRETE OVERLAY, FURNISH ONLY	CY	E001	E115					STD	N	
2310-5151051	PORTLAND CEMENT CONCRETE OVERLAY, PLACEMENT ONLY (BONDED)	SY	E003	E109					STD		Y
2310-5151251	PCC OVERLAY, PLACEMENT ONLY (UNBONDED)	SY	E003	E109					STD		Y
2310-5151551	PCC OVERLAY, PLACEMENT ONLY (WHITE TOPPING)	SY	E003	E109					STD		Y
2310-5151600	PORTLAND CEMENT CONCRETE OVERLAY, QM-C, FURNISH ONLY	CY	E001	E115					DS	N	
2310-5151610	PORTLAND CEMENT CONCRETE OVERLAY, QM-C, PLACEMENT ONLY (BONDED)	SY	E003	E109					DS		Y
2310-5151620	PORTLAND CEMENT CONCRETE OVERLAY, QM-C, PLACEMENT ONLY(UNBONDED)	SY	E003	E109					DS		Y
2310-5151630	PORTLAND CEMENT CONCRETE OVERLAY, QM-C, PLACEMENT ONLY(WHITE TOPPING)	SY	E003	E109					DS		Y
2310-8255550	SURFACE PREPARATION	SY	E003						STD		Y
2310-8300530	HMA STRESS RELIEF COURSE	SY	E042	E020	E110	E121			STD		Y
2310-8300540	HMA STRESS RELIEF COURSE	TON	E019	E020	E110	E121	E131		STD	N	
2310-8300550	PAVEMENT INTERLAYER GEOTEXTILE	SY	E003						DS		Y
2310-8300560	COVER AGGREGATE, SAND, FOR SEAL COAT BOND BREAKER	TON	E007						STD	N	
2310-8300570	BINDER BITUMEN, FOR SEAL COAT BOND BREAKER	GAL	E001						STD	N	
2312-8260050	GRANULAR SURF ON RD, CL A CRUSHED STONE	CY	E007						STD	N	
2312-8260051	GRANULAR SURF ON RD, CL A CRUSHED STONE	TON	E007						STD	N	
2312-8260061	GRANULAR SURF ON RD, CL B CRUSHED STONE	TON	E007						STD	N	
2312-8260081	GRANULAR SURF ON RD, CL D CRUSHED STONE	TON	E007						STD	N	
2312-8260201	GRANULAR SURF ON RD, CL C GRAVEL	TON	E007						STD	N	
2312-8260250	GRANULAR SURF ON RD, CRUSHED STONE	TON	E007						STD	N	
2312-8260310	GRANULAR SURF ON RD, CRUSHED CONCRETE	TON	E007						STD	N	
2312-8400100	PREPARE AND HAUL GRAN . SURF. MAT'L. FURN. BY CONTRACTING AUTHORITY	TON	E001						STD	N	
2312-8400200	PREPARE AND HAUL GRAN . SURF. MAT'L. FURN. BY CONTRACTING AUTHORITY	CY	E004						STD	N	
2312-8401000	HAUL UNITS FOR GRAN. SURF. MAT'L. FURN. BY CONTRACTING AUTHORITY	MILE	E001						STD	N	
2312-8402000	STRIPPING (OVERBURDEN)	CY	E006						STD	N	
2314-0775010	CALCIUM CHLORIDE APPLIED	TON	E007						STD	N	
2314-0775015	WATER FOR SURF. APP. OF CALCIUM CHLORIDE	MGAL	E037						STD	N	
2314-8257000	DUST CONTROL SURFACE TREATMENT	STA	E001						PLAN	N	
2315-8275025	SURF CL A CRUSHED STONE DRIVEWAY	TON	E001						STD	N	
2315-8275030	SURF CL C GRAVEL DRIVEWAY	TON	E001						STD	N	
2315-8275036	SURF CL D CRUSHED STONE DRIVEWAY	TON	E001						STD	N	
2315-8275055	SURF DRIVEWAY	TON	E001						STD	N	
2316-0000110	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR PCC PAVEMENT SMOOTHNESS (BY SCHEDULE)	EACH	E001						STD	N	
2316-0000120	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR HMA PAVEMENT SMOOTHNESS (BY SCHEDULE)	EACH	E001						STD	N	

Item Code	Description	Units	Form	Support Forms	Meas/ Pay	Plan Quantity N	Plan Quantity Y
2317-7000110	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR PCC PAVEMENT SMOOTHNESS (BY SCHEDULE)	EACH	E001		STD	N	
2317-7000120	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR HMA PAVEMENT SMOOTHNESS (BY SCHEDULE)	EACH	E001		STD	N	
2318-1001100	COLD IN-PLACE RECYCLED ASPHALT PAVEMENT	SY	E003		STD	N	
2318-1001220	ASPHALT STABILIZING AGENT (FOAMED ASPHALT)	TON	E001		STD	N	
2318-1001223	ASPHALT STABILIZING AGENT (ENGINEERED EMULSION)	GAL	E001		SP	N	
2318-1001224	ASPHALT STABILIZING AGENT (STANDARD ASPHALT EMULSION)	GAL	E001		STD	N	
2319-1000000	SLURRY LEVELING	MILE	E001		STD	N	
2319-2000101	SLURRY WEDGE COURSE AGGREGATE	TON	E001		STD	N	
2319-2000102	SLURRY WEDGE FINE AGGREGATE	TON	E001		STD	N	
2319-2000200	SURF PREPARATION-SLURRY WEDGE	MILE	E001		STD	N	
2319-3000101	STRIP SLURRY TREATMENT COARSE AGGREGATE	TON	E001		STD	N	
2319-3000102	STRIP SLURRY TREATMENT FINE AGGREGATE	TON	E001		STD	N	
2319-3000200	SURF PREPARATION-STRIP SLURRY TREATMENT	MILE	E001		STD	N	
2319-4000000	ASPHALT EMULSION SLURRY LEVELING, WEDGE, & TREATMENT	GAL	E001		STD	N	
2401-6745065	RMVL OF BRIDGE END DRAINS	EACH	E039		PLAN	N	
2401-6745354	RMVL OF CONC FOOTINGS, AS PER PLAN	EACH	E039		PLAN	N	
2401-6745355	RMVL OF CONC FOOTINGS OF HIGHWAY SIGNS	EACH	E039		PLAN	N	
2401-6745356	RMVL OF CONC FOOTINGS OF LIGHT POLES	EACH	E039		PLAN	N	
2401-6745357	REMOVAL OF CONCRETE FOUNDATIONS, AS PER PLAN	EACH	E039		PLAN	N	
2401-6745358	REMOVAL OF CONCRETE FOUNDATIONS OF HIGHWAY SIGNS	EACH	E039		PLAN	N	
2401-6745359	REMOVAL OF CONCRETE FOUNDATIONS OF LIGHT POLES	EACH	E039		PLAN	N	
2401-6745625	RMVL OF EXISTING BRIDGE	LS	E005		STD		Y
2401-6745635	RMVL OF EXIST HANDRAIL	LS	E005		STD		Y
2401-6745636	RMVL OF EXIST HANDRAIL+END POSTS	LS	E005		STD		Y
2401-6745650	RMVL OF EXIST STRUCTURES	LS	E005		STD		Y
2401-6745765	RMVL OF LIGHT POLES	EACH	E039		PLAN	N	
2401-6745830	RMVL OF PCC MEDIAN BARRIER	LF	E001		PLAN	N	
2401-6745910	RMVL OF SIGN	EACH	E039		PLAN	N	
2401-6745915	RMVL OF SIGN SUPRT STRUCTURE+FOOTING	EACH	E039		PLAN	N	
2401-6745916	REMOVAL OF SIGN SUPPORT STRUCTURE AND FOUNDATION	EACH	E039		PLAN	N	
2401-6750001	REMOVALS AS PER PLAN	LS	E005		STD		Y
2401-7207010	REMOVAL OF CONCRETE	SY	E003	E100	PLAN	N	
2401-7207020	REMOVAL OF CONCRETE	CY	E004	E100	PLAN	N	
2401-7207030	REMOVAL OF CONCRETE	LS	E005		STD		Y
2402-0425030	GRANULAR BACKFILL	CY	E004		STD		Y
2402-0425031	GRANULAR BACKFILL	TON	E001		STD		Y
2402-0425032	GRANULAR BACKFILL, PLACE ONLY	TON	E001		PLAN		Y
2402-0425033	BACKFILL GRANULAR PLACE ONLY	CY	E004		PLAN		Y
2402-0425040	FLOODED BACKFILL	CY	E004		DS		Y
2402-0875150	COMPACTION W/MOISTURE COTROL(STRUCTURE)	CY	E008	E107 E108	STD		Y
2402-2720000	EXCAVATION CL 20	CY	E004		STD	N	
2402-2720100	EXCAVATION CL 20 RDWY PIPE CULV	CY	E004		STD		Y
2402-2721000	EXCAVATION CL 21	CY	E004		STD		Y
2402-2722000	EXCAVATION CL 22	CY	E004		STD	N	
2402-2722100	EXCAVATION CL 22 RDWY PIPE CULV	CY	E004		STD		Y
2402-2723000	EXCAVATION CL 23	CY	E004		STD	N	
2402-2723100	EXCAVATION CL 23 RDWY PIPE CULV	CY	E004		STD		Y
2402-2724000	EXCAVATION CL 24	CY	E004		STD	N	
2402-2724100	EXCAVATION CL 24 RDWY PIPE CULV	CY	E004		STD		Y
2402-2725005	FOUNDATION TREATMENT MATERIAL	TON	E039		STD	N	
2403-0100000	STRUCTURAL CONCRETE (MISCELLANEAOUS)	CY	E043	E145	STD		Y
2403-0100010	STRUCTURAL CONCRETE (BRIDGE)	CY	E043	E110 E119 E122 E145	STD		Y
2403-0100020	STRUCTURAL CONCRETE (RCB CULVERT)	CY	E043	E145	STD		Y
2403-0100030	STRUCTURAL CONCRETE 4500 PSI OR GREATER	CY	E043	E110 E119 E122 E145	DS		Y
2403-0900001	STRUCTURAL CONCRETE CL X	CY	E043	E145	STD		Y
2403-7000210	HIGH PERFORMANCE STRUCTURAL CONCRETE	CY	E001	E110 E119 E122 E145	DS		Y
2403-7000220	TRIAL BATCH HIGH PERFORMANCE STRUCTURAL CONCRETE	LS	E005		DS		Y
2403-7000310	IMPROVED DURABILITY CONCRETE	CY	E004		DS		Y
2403-7303000	STRUCTURAL CONCRETE COATING	SY	E003		DS		Y
2404-7775000	STEEL REINFORC	LB	E039		STD		Y
2404-7775005	STEEL REINFORC EPOXY COATED	LB	E039		STD		Y
2404-7775007	STEEL REINFORC GALVANIZED	LB	E039		STD		Y
2404-7775009	REINFORCING STEEL, STAINLESS STEEL	LB	E039		PLAN		Y
2405-2705000	EXCAVATE AND DEWATER	LS	E005		STD		Y
2407-0550000	BEAM, PPC	EACH	E016		STD	N	
2407-0550001	BEAM PPC ERECTED AS PER PLAN	EACH	E016		PLAN	N	
2407-0551130	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, A30	EACH	E016		STD	N	
2407-0551134	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, A34	EACH	E016		STD	N	
2407-0551138	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, A38	EACH	E016		STD	N	
2407-0551142	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, A42	EACH	E016		STD	N	
2407-0551146	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, A46	EACH	E016		STD	N	
2407-0551150	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, A50	EACH	E016		STD	N	
2407-0551155	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, A55	EACH	E016		STD	N	
2407-0551234	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, B34	EACH	E016		STD	N	
2407-0551238	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, B38	EACH	E016		STD	N	
2407-0551242	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, B42	EACH	E016		STD	N	
2407-0551246	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, B46	EACH	E016		STD	N	
2407-0551250	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, B50	EACH	E016		STD	N	
2407-0551255	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, B55	EACH	E016		STD	N	
2407-0551259	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, B59	EACH	E016		STD	N	
2407-0551263	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, B63	EACH	E016		STD	N	
2407-0551267	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, B67	EACH	E016		STD	N	
2407-0551330	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, C30	EACH	E016		STD	N	
2407-0551334	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, C34	EACH	E016		STD	N	
2407-0551338	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, C38	EACH	E016		STD	N	
2407-0551342	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, C42	EACH	E016		STD	N	
2407-0551346	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, C46	EACH	E016		STD	N	
2407-0551350	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, C50	EACH	E016		STD	N	
2407-0551355	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, C55	EACH	E016		STD	N	
2407-0551359	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, C59	EACH	E016		STD	N	
2407-0551363	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, C63	EACH	E016		STD	N	
2407-0551367	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, C67	EACH	E016		STD	N	
2407-0551371	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, C71	EACH	E016		STD	N	

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2407-0551375	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, C75	EACH	E016		STD	N	
2407-0551380	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, C80	EACH	E016		STD	N	
2407-0551435	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, D35	EACH	E016		STD	N	
2407-0551440	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, D40	EACH	E016		STD	N	
2407-0551445	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, D45	EACH	E016		STD	N	
2407-0551450	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, D50	EACH	E016		STD	N	
2407-0551455	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, D55	EACH	E016		STD	N	
2407-0551460	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, D60	EACH	E016		STD	N	
2407-0551465	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, D65	EACH	E016		STD	N	
2407-0551470	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, D70	EACH	E016		STD	N	
2407-0551475	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, D75	EACH	E016		STD	N	
2407-0551480	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, D80	EACH	E016		STD	N	
2407-0551485	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, D85	EACH	E016		STD	N	
2407-0551490	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, D90	EACH	E016		STD	N	
2407-0551495	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, D95	EACH	E016		STD	N	
2407-0551500	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, D100	EACH	E016		STD	N	
2407-0551505	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, D105	EACH	E016		STD	N	
2407-0551510	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, D110	EACH	E016		STD	N	
2407-0562120	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BT120	EACH	E016		STD	N	
2407-0562125	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BT125	EACH	E016		STD	N	
2407-0562130	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BT130	EACH	E016		STD	N	
2407-0562135	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BT135	EACH	E016		STD	N	
2407-0562140	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BT140	EACH	E016		STD	N	
2407-0562830	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTB30	EACH	E016		STD	N	
2407-0562835	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTB35	EACH	E016		STD	N	
2407-0562840	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTB40	EACH	E016		STD	N	
2407-0562845	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTB45	EACH	E016		STD	N	
2407-0562850	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTB50	EACH	E016		STD	N	
2407-0562855	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTB55	EACH	E016		STD	N	
2407-0562860	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTB60	EACH	E016		STD	N	
2407-0562865	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTB65	EACH	E016		STD	N	
2407-0562870	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTB70	EACH	E016		STD	N	
2407-0562875	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTB75	EACH	E016		STD	N	
2407-0562880	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTB80	EACH	E016		STD	N	
2407-0562885	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTB85	EACH	E016		STD	N	
2407-0562890	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTB90	EACH	E016		STD	N	
2407-0562895	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTB95	EACH	E016		STD	N	
2407-0562900	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTB100	EACH	E016		STD	N	
2407-0562905	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTB105	EACH	E016		STD	N	
2407-0563030	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTC30	EACH	E016		STD	N	
2407-0563035	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTC35	EACH	E016		STD	N	
2407-0563040	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTC40	EACH	E016		STD	N	
2407-0563045	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTC45	EACH	E016		STD	N	
2407-0563050	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTC50	EACH	E016		STD	N	
2407-0563055	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTC55	EACH	E016		STD	N	
2407-0563060	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTC60	EACH	E016		STD	N	
2407-0563065	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTC65	EACH	E016		STD	N	
2407-0563070	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTC70	EACH	E016		STD	N	
2407-0563075	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTC75	EACH	E016		STD	N	
2407-0563080	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTC80	EACH	E016		STD	N	
2407-0563085	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTC85	EACH	E016		STD	N	
2407-0563090	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTC90	EACH	E016		STD	N	
2407-0563095	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTC95	EACH	E016		STD	N	
2407-0563100	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTC100	EACH	E016		STD	N	
2407-0563105	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTC105	EACH	E016		STD	N	
2407-0563110	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTC110	EACH	E016		STD	N	
2407-0563115	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTC115	EACH	E016		STD	N	
2407-0563120	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTC120	EACH	E016		STD	N	
2407-0564050	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTD50	EACH	E016		STD	N	
2407-0564055	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTD55	EACH	E016		STD	N	
2407-0564060	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTD60	EACH	E016		STD	N	
2407-0564065	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTD65	EACH	E016		STD	N	
2407-0564070	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTD70	EACH	E016		STD	N	
2407-0564075	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTD75	EACH	E016		STD	N	
2407-0564080	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTD80	EACH	E016		STD	N	
2407-0564085	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTD85	EACH	E016		STD	N	
2407-0564090	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTD90	EACH	E016		STD	N	
2407-0564095	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTD95	EACH	E016		STD	N	
2407-0564100	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTD100	EACH	E016		STD	N	
2407-0564105	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTD105	EACH	E016		STD	N	
2407-0564110	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTD110	EACH	E016		STD	N	
2407-0564115	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTD115	EACH	E016		STD	N	
2407-0564120	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTD120	EACH	E016		STD	N	
2407-0564125	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTD125	EACH	E016		STD	N	
2407-0564130	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTD130	EACH	E016		STD	N	
2407-0564135	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTD135	EACH	E016		STD	N	
2407-0564260	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTE60	EACH	E016		STD	N	
2407-0564265	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTE65	EACH	E016		STD	N	
2407-0564270	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTE70	EACH	E016		STD	N	
2407-0564275	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTE75	EACH	E016		STD	N	
2407-0564280	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTE80	EACH	E016		STD	N	
2407-0564285	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTE85	EACH	E016		STD	N	
2407-0564290	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTE90	EACH	E016		STD	N	
2407-0564295	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTE95	EACH	E016		STD	N	
2407-0564300	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTE100	EACH	E016		STD	N	
2407-0564305	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTE105	EACH	E016		STD	N	
2407-0564310	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTE110	EACH	E016		STD	N	
2407-0564315	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTE115	EACH	E016		STD	N	
2407-0564320	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTE120	EACH	E016		STD	N	
2407-0564325	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTE125	EACH	E016		STD	N	
2407-0564330	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTE130	EACH	E016		STD	N	
2407-0564335	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTE135	EACH	E016		STD	N	
2407-0564340	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTE140	EACH	E016		STD	N	
2407-0564345	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTE145	EACH	E016		STD	N	
2407-0564350	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTE150	EACH	E016		STD	N	

Item Code	Description	Units	Form	Support Forms	Meas/ Pay	Plan Quantity N	Plan Quantity Y
2407-0564355	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, BTE155	EACH	E016		STD	N	
2407-2021000	DECK UNITS, INTERIOR PRESTRESSED CONCRETE DOUBLE TEE	EACH	E016		STD	N	
2407-2022000	DECK UNITS, EXTERIOR PRESTRESSED CONCRETE DOUBLE TEE	EACH	E016		STD	N	
2407-2023000	DECK UNITS, INTERIOR PRESTRESSED CONCRETE QUAD TEE	EACH	E016		STD	N	
2407-2024000	DECK UNITS, EXTERIOR PRESTRESSED CONCRETE QUAD TEE	EACH	E016		STD	N	
2408-6772011	REPAIR BEAM HEAT STRAIGHTENING, AS PER PLAN	LS	E005		SP2		Y
2408-7695220	STRUCTURAL STEEL HAUL+ERECT	LB	E001		PLAN		Y
2408-7695221	STRUCTURAL STEEL HAUL+ERECT	LS	E005		PLAN		Y
2408-7700000	STRUCTURAL STEEL HAUL+STORING	LS	E005		PLAN		Y
2408-7700010	STRUCTURAL STEEL - FABRICATE, STORE, AND DELIVER	LB	E001	E118	PLAN		Y
2408-7700020	STRUCTURAL STEEL - ERECT	LB	E001	E118	PLAN		Y
2408-7800000	STEEL STRUCTURAL	LB	E001	E118	STD		Y
2408-7900020	SLOTTED DECK DRAIN	LS	E005		PLAN		Y
2408-8500100	REINFORCED NEOPRENE	SF	E001		PLAN	N	
2409-4200001	MISCELLANEOUS HARDWARE	LB	E039		STD	N	
2409-4575001	TREATED TIMBER AND LUMBER	MFBM	E017		STD	N	
2409-4600001	UNTREATED TIMBER AND LUMBER	MFBM	E017		STD	N	
2410-4570001	PLANK DECK LUMBER	MFBM	E017		STD	N	
2411-4570501	LAMINATED WOOD DECK	MFBM	E017		STD	N	
2412-0000100	LONGITUDINAL GROOVING IN CONC	SY	E003		STD		Y
2413-0698041	DECK OVER-DEPTH OVERLAY (CLASS O PCC)	SY	E003	E111 E112 E120	DS	N	
2413-0698051	DECK OVER-DEPTH OVERLAY (CLASS HPC-O PCC)	SY	E003	E111 E112 E120	DS	N	
2413-0698066	DECK OVERLAY (CLASS O PCC)	SY	E003	E111 E112 E120	STD	N	
2413-0698067	DECK OVERLAY (CLASS HPC-O PCC)	SY	E003	E111 E112 E120	STD	N	
2413-0698074	DECK REPAIR, CLASS A	SY	E003		STD	N	
2413-0698075	DECK REPAIR, CLASS B	SY	E003		STD	N	
2413-0698081	DECK REPAIR, CLASS A, SPECIAL	SY	E003		DS	N	
2413-0698121	DECK SURFACING (CLASS O PCC)	SY	E003	E111 E112 E120	STD	N	
2413-0698131	DECK SURFACING (CLASS HPC-O PCC)	SY	E003	E111 E112 E120	STD	N	
2413-1100000	PREFORMED ELASTIC NEOPRENE JOINT	LF	E039		PLAN	N	
2413-1200000	STEEL EXTRUSION JOINT WITH NEOPRENE	LF	E039		PLAN		Y
2413-1200100	NEOPRENE GLAND INSTALLATION AND TESTING	LF	E039		PLAN		Y
2413-1300000	PREFORMED, PRE-COMPRESSED, SELF-EXPANDING, SEALANT SYSTEM WITH SILICONE PRE-COATED SURFACE	LF	E039		PLAN		Y
2414-6424038	CONCRETE BARRIER RAIL, 3'-8"	LF	E001	E115	STD		Y
2414-6424110	CONCRETE BARRIER RAILING	LF	E001	E115	STD		Y
2414-6424111	CONCRETE BARRIER RAILING, MEDIAN	LF	E001	E115	STD		Y
2414-6424119	CONCRETE BARRIER RAILING, AESTHETIC	LF	E001	E115	STD6		Y
2414-6424120	CONCRETE OPEN RAILING	LF	E001	E115	STD		Y
2414-6424124	CONCRETE OPEN RAILING, TL-4	LF	E001	E115	STD		Y
2414-6425410	CONCRETE BARRIER, REINFORCED, SEPARATION	LF	E001	E115	STD6		Y
2414-6425420	CONCRETE BARRIER, PARAPET	LF	E001	E115	STD6		Y
2414-6431100	RETROFIT CONCRETE BARRIER RAILING	LF	E001	E115	STD		Y
2414-6444100	STEEL PIPE PEDESTRIAN HAND RAILING	LF	E001		STD		Y
2414-6445100	STRUCTURAL STEEL PEDESTRIAN HAND RAILING	LF	E001		STD		Y
2414-6446100	ALUMINUM PEDESTRIAN HAND RAILING	LF	E001		STD		Y
2414-6460000	ORNAMENTAL METAL RAILING	LF	E001		PLAN		Y
2414-6625502	STRUCTURAL STEEL RAILING, TRAFFIC	LF	E001		PLAN		Y
2414-6772010	CONCRETE PARAPET, FENCE	LF	E001	E115	PLAN		Y
2414-6772020	STEEL FENCE, WELDED WIRE MESH	LF	E001		PLAN	N	
2414-7200010	SAFETY GRATE, TYPE 1 CULVERT	EACH	E039		PLAN	N	
2414-7200020	SAFETY GRATE, TYPE 2 CULVERT	EACH	E039		PLAN	N	
2414-7200030	SAFETY GRATE, TYPE 3 CULVERT	EACH	E039		PLAN	N	
2414-7200040	SAFETY GRATE, TYPE 4 CULVERT	EACH	E039		PLAN	N	
2415-2100000	PRECAST CONCRETE BOX CULVERT,	LF	E018		PLAN		Y
2415-2110302	PRECAST CONCRETE BOX CULVERT, 3 FT. X 2 FT.	LF	E018		PLAN		Y
2415-2110303	PRECAST CONCRETE BOX CULVERT, 3 FT. X 3 FT.	LF	E018		PLAN		Y
2415-2110402	PRECAST CONCRETE BOX CULVERT, 4 FT. X 2 FT.	LF	E018		PLAN		Y
2415-2110403	PRECAST CONCRETE BOX CULVERT, 4 FT. X 3 FT.	LF	E018		PLAN		Y
2415-2110404	PRECAST CONCRETE BOX CULVERT, 4 FT. X 4 FT.	LF	E018		PLAN		Y
2415-2110503	PRECAST CONCRETE BOX CULVERT, 5 FT. X 3 FT.	LF	E018		PLAN		Y
2415-2110504	PRECAST CONCRETE BOX CULVERT, 5 FT. X 4 FT.	LF	E018		PLAN		Y
2415-2110505	PRECAST CONCRETE BOX CULVERT, 5 FT. X 5 FT.	LF	E018		PLAN		Y
2415-2110506	PRECAST CONCRETE BOX CULVERT, 5 FT. X 6 FT.	LF	E018		PLAN		Y
2415-2110603	PRECAST CONCRETE BOX CULVERT, 6 FT. X 3 FT.	LF	E018		PLAN		Y
2415-2110604	PRECAST CONCRETE BOX CULVERT, 6 FT. X 4 FT.	LF	E018		PLAN		Y
2415-2110605	PRECAST CONCRETE BOX CULVERT, 6 FT. X 5 FT.	LF	E018		PLAN		Y
2415-2110606	PRECAST CONCRETE BOX CULVERT, 6 FT. X 6 FT.	LF	E018		PLAN		Y
2415-2110607	PRECAST CONCRETE BOX CULVERT, 6 FT. X 7 FT.	LF	E018		PLAN		Y
2415-2110608	PRECAST CONCRETE BOX CULVERT, 6 FT. X 8 FT.	LF	E018		PLAN		Y
2415-2110704	PRECAST CONCRETE BOX CULVERT, 7 FT. X 4 FT.	LF	E018		PLAN		Y
2415-2110705	PRECAST CONCRETE BOX CULVERT, 7 FT. X 5 FT.	LF	E018		PLAN		Y
2415-2110706	PRECAST CONCRETE BOX CULVERT, 7 FT. X 6 FT.	LF	E018		PLAN		Y
2415-2110707	PRECAST CONCRETE BOX CULVERT, 7 FT. X 7 FT.	LF	E018		PLAN		Y
2415-2110804	PRECAST CONCRETE BOX CULVERT, 8 FT. X 4 FT.	LF	E018		PLAN		Y
2415-2110805	PRECAST CONCRETE BOX CULVERT, 8 FT. X 5 FT.	LF	E018		PLAN		Y
2415-2110806	PRECAST CONCRETE BOX CULVERT, 8 FT. X 6 FT.	LF	E018		PLAN		Y
2415-2110807	PRECAST CONCRETE BOX CULVERT, 8 FT. X 7 FT.	LF	E018		PLAN		Y
2415-2110808	PRECAST CONCRETE BOX CULVERT, 8 FT. X 8 FT.	LF	E018		PLAN		Y
2415-2110809	PRECAST CONCRETE BOX CULVERT, 8 FT. X 9 FT.	LF	E018		PLAN		Y
2415-2110810	PRECAST CONCRETE BOX CULVERT, 8 FT. X 10 FT.	LF	E018		PLAN		Y
2415-2110905	PRECAST CONCRETE BOX CULVERT, 9 FT. X 5 FT.	LF	E018		PLAN		Y
2415-2110906	PRECAST CONCRETE BOX CULVERT, 9 FT. X 6 FT.	LF	E018		PLAN		Y
2415-2110907	PRECAST CONCRETE BOX CULVERT, 9 FT. X 7 FT.	LF	E018		PLAN		Y
2415-2110908	PRECAST CONCRETE BOX CULVERT, 9 FT. X 8 FT.	LF	E018		PLAN		Y
2415-2110909	PRECAST CONCRETE BOX CULVERT, 9 FT. X 9 FT.	LF	E018		PLAN		Y
2415-2111004	PRECAST CONCRETE BOX CULVERT, 10 FT. X 4 FT.	LF	E018		PLAN		Y
2415-2111005	PRECAST CONCRETE BOX CULVERT, 10 FT. X 5 FT.	LF	E018		PLAN		Y
2415-2111006	PRECAST CONCRETE BOX CULVERT, 10 FT. X 6 FT.	LF	E018		PLAN		Y
2415-2111007	PRECAST CONCRETE BOX CULVERT, 10 FT. X 7 FT.	LF	E018		PLAN		Y
2415-2111008	PRECAST CONCRETE BOX CULVERT, 10 FT. X 8 FT.	LF	E018		PLAN		Y
2415-2111009	PRECAST CONCRETE BOX CULVERT, 10 FT. X 9 FT.	LF	E018		PLAN		Y
2415-2111010	PRECAST CONCRETE BOX CULVERT, 10 FT. X 10 FT.	LF	E018		PLAN		Y
2415-2111011	PRECAST CONCRETE BOX CULVERT, 10 FT. X 11 FT.	LF	E018		PLAN		Y
2415-2111012	PRECAST CONCRETE BOX CULVERT, 10 FT. X 12 FT.	LF	E018		PLAN		Y

Item Code	Description	Units	Form	Support Forms	Meas/ Pay	Plan Quantity N	Plan Quantity Y
2415-2111104	PRECAST CONCRETE BOX CULVERT, 11 FT. X 4 FT.	LF	E018		PLAN		Y
2415-2111106	PRECAST CONCRETE BOX CULVERT, 11 FT. X 6 FT.	LF	E018		PLAN		Y
2415-2111108	PRECAST CONCRETE BOX CULVERT, 11 FT. X 8 FT.	LF	E018		PLAN		Y
2415-2111110	PRECAST CONCRETE BOX CULVERT, 11 FT. X 10 FT.	LF	E018		PLAN		Y
2415-2111111	PRECAST CONCRETE BOX CULVERT, 11 FT. X 11 FT.	LF	E018		PLAN		Y
2415-2111204	PRECAST CONCRETE BOX CULVERT, 12 FT. X 4 FT.	LF	E018		PLAN		Y
2415-2111205	PRECAST CONCRETE BOX CULVERT, 12 FT. X 5 FT.	LF	E018		PLAN		Y
2415-2111206	PRECAST CONCRETE BOX CULVERT, 12 FT. X 6 FT.	LF	E018		PLAN		Y
2415-2111207	PRECAST CONCRETE BOX CULVERT, 12 FT. X 7 FT.	LF	E018		PLAN		Y
2415-2111208	PRECAST CONCRETE BOX CULVERT, 12 FT. X 8 FT.	LF	E018		PLAN		Y
2415-2111209	PRECAST CONCRETE BOX CULVERT, 12 FT. X 9 FT.	LF	E018		PLAN		Y
2415-2111210	PRECAST CONCRETE BOX CULVERT, 12 FT. X 10 FT.	LF	E018		PLAN		Y
2415-2111211	PRECAST CONCRETE BOX CULVERT, 12 FT. X 11 FT.	LF	E018		PLAN		Y
2415-2111212	PRECAST CONCRETE BOX CULVERT, 12 FT. X 12 FT.	LF	E018		PLAN		Y
2415-2200000	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION	EACH	E039		PLAN		Y
2415-2200302	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 3 FT. X 2 FT	EACH	E039		PLAN		Y
2415-2200303	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 3 FT. X 3 FT	EACH	E039		PLAN		Y
2415-2200402	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 4 FT. X 2 FT	EACH	E039		PLAN		Y
2415-2200403	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 4 FT. X 3 FT	EACH	E039		PLAN		Y
2415-2200404	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 4 FT. X 4 FT	EACH	E039		PLAN		Y
2415-2200503	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 5 FT. X 3 FT	EACH	E039		PLAN		Y
2415-2200504	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 5 FT. X 4 FT	EACH	E039		PLAN		Y
2415-2200505	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 5 FT. X 5 FT	EACH	E039		PLAN		Y
2415-2200506	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 5 FT. X 6 FT	EACH	E039		PLAN		Y
2415-2200603	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 6 FT. X 3 FT	EACH	E039		PLAN		Y
2415-2200604	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 6 FT. X 4 FT	EACH	E039		PLAN		Y
2415-2200605	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 6 FT. X 5 FT	EACH	E039		PLAN		Y
2415-2200606	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 6 FT. X 6 FT	EACH	E039		PLAN		Y
2415-2200607	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 6 FT. X 7 FT	EACH	E039		PLAN		Y
2415-2200608	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 6 FT. X 8 FT	EACH	E039		PLAN		Y
2415-2200704	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 7 FT. X 4 FT	EACH	E039		PLAN		Y
2415-2200705	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 7 FT. X 5 FT	EACH	E039		PLAN		Y
2415-2200706	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 7 FT. X 6 FT	EACH	E039		PLAN		Y
2415-2200707	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 7 FT. X 7 FT	EACH	E039		PLAN		Y
2415-2200804	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 8 FT. X 4 FT	EACH	E039		PLAN		Y
2415-2200805	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 8 FT. X 5 FT	EACH	E039		PLAN		Y
2415-2200806	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 8 FT. X 6 FT	EACH	E039		PLAN		Y
2415-2200807	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 8 FT. X 7 FT	EACH	E039		PLAN		Y
2415-2200808	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 8 FT. X 8 FT	EACH	E039		PLAN		Y
2415-2200809	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 8 FT. X 9 FT	EACH	E039		PLAN		Y
2415-2200810	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 8 FT. X 10 FT	EACH	E039		PLAN		Y
2415-2200905	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 9 FT. X 5 FT	EACH	E039		PLAN		Y
2415-2200906	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 9 FT. X 6 FT	EACH	E039		PLAN		Y
2415-2200907	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 9 FT. X 7 FT	EACH	E039		PLAN		Y
2415-2200908	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 9 FT. X 8 FT	EACH	E039		PLAN		Y
2415-2200909	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 9 FT. X 9 FT	EACH	E039		PLAN		Y
2415-2201004	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 10 FT. X 4 FT	EACH	E039		PLAN		Y
2415-2201005	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 10 FT. X 5 FT	EACH	E039		PLAN		Y
2415-2201006	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 10 FT. X 6 FT	EACH	E039		PLAN		Y
2415-2201007	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 10 FT. X 7 FT	EACH	E039		PLAN		Y
2415-2201008	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 10 FT. X 8 FT	EACH	E039		PLAN		Y
2415-2201009	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 10 FT. X 9 FT	EACH	E039		PLAN		Y
2415-2201010	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 10 FT. X 10 FT	EACH	E039		PLAN		Y
2415-2201011	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 10 FT. X 11 FT	EACH	E039		PLAN		Y
2415-2201012	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 10 FT. X 12 FT	EACH	E039		PLAN		Y
2415-2201104	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 11 FT. X 4 FT	EACH	E039		PLAN		Y
2415-2201106	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 11 FT. X 6 FT	EACH	E039		PLAN		Y
2415-2201108	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 11 FT. X 8 FT	EACH	E039		PLAN		Y
2415-2201110	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 11 FT. X 10 FT	EACH	E039		PLAN		Y
2415-2201111	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 11 FT. X 11 FT	EACH	E039		PLAN		Y
2415-2201204	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 12 FT. X 4 FT	EACH	E039		PLAN		Y
2415-2201205	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 12 FT. X 5 FT	EACH	E039		PLAN		Y
2415-2201206	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 12 FT. X 6 FT	EACH	E039		PLAN		Y
2415-2201207	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 12 FT. X 7 FT	EACH	E039		PLAN		Y
2415-2201208	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 12 FT. X 8 FT	EACH	E039		PLAN		Y
2415-2201209	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 12 FT. X 9 FT	EACH	E039		PLAN		Y
2415-2201210	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 12 FT. X 10 FT	EACH	E039		PLAN		Y
2415-2201211	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 12 FT. X 11 FT	EACH	E039		PLAN		Y
2415-2201212	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 12 FT. X 12 FT	EACH	E039		PLAN		Y
2415-2300000	PRECAST CONCRETE BOX FLARED APRON,	EACH	E039		PLAN		Y
2415-3500000	PRECAST CONCRETE THREE-SIDED CULVERT,	LF	E018		DS		Y
2415-3510000	PRECAST CONCRETE WINGWALL	EACH	E039		DS		Y
2416-0100000	RIGID PIPE APRONS	EACH	E039		PLAN	N	
2416-0100012	APRON CONC 12 IN	EACH	E039		STD		Y
2416-0100015	APRON CONC 15 IN	EACH	E039		STD		Y
2416-0100018	APRON CONC 18 IN	EACH	E039		STD		Y
2416-0100021	APRON CONC, 21 IN. .	EACH	E039		STD		Y
2416-0100024	APRON CONC 24 IN	EACH	E039		STD		Y
2416-0100027	APRON CONC, 27 IN.	EACH	E039		STD		Y
2416-0100030	APRON CONC 30 IN	EACH	E039		STD		Y
2416-0100036	APRON CONC 36 IN	EACH	E039		STD		Y
2416-0100042	APRON CONC 42 IN	EACH	E039		STD		Y
2416-0100048	APRON CONC 48 IN	EACH	E039		STD		Y
2416-0100054	APRON CONC 54 IN	EACH	E039		STD		Y
2416-0100060	APRON CONC 60 IN	EACH	E039		STD		Y
2416-0100066	APRON CONC 66 IN	EACH	E039		STD		Y
2416-0100072	APRON CONC 72 IN	EACH	E039		STD		Y
2416-0100078	APRON CONC 78 IN	EACH	E039		STD		Y
2416-0100084	APRON CONC 84 IN	EACH	E039		STD		Y
2416-0101036	RMV. AND REIN. CONCRETE PIPE APRONS LESS THAN OR EQUAL TO 36 IN	EACH	E039		STD	N	
2416-0101136	REMOVE AND REINSTALL CONCRETE PIPE APRONS GREATER THAN 36 IN	EACH	E039		STD	N	
2416-0102218	APRON, LOW CLEARANCE CONCRETE, EQUIVALENT DIAMETER 18 IN.	EACH	E039		STD		Y
2416-0102224	APRON, LOW CLEARANCE CONCRETE, EQUIVALENT DIAMETER 24 IN.	EACH	E039		STD		Y
2416-0102230	APRON, LOW CLEARANCE CONCRETE, EQUIVALENT DIAMETER 30 IN.	EACH	E039		STD		Y
2416-0102236	APRON, LOW CLEARANCE CONCRETE, EQUIVALENT DIAMETER 36 IN.	EACH	E039		STD		Y

Item Code	Description	Units	Form	Support Forms	Meas/ Pay	Plan Quantity N	Plan Quantity Y
2416-0102242	APRON, LOW CLEARANCE CONCRETE, EQUIVALENT DIAMETER 42 IN.	EACH	E039		STD		Y
2416-0102248	APRON, LOW CLEARANCE CONCRETE, EQUIVALENT DIAMETER 48 IN.	EACH	E039		STD		Y
2416-0102254	APRON, LOW CLEARANCE CONCRETE, EQUIVALENT DIAMETER 54 IN.	EACH	E039		STD		Y
2416-0102260	APRON, LOW CLEARANCE CONCRETE, EQUIVALENT DIAMETER 60 IN.	EACH	E039		STD		Y
2416-0102272	APRON, LOW CLEARANCE CONCRETE, EQUIVALENT DIAMETER 72 IN.	EACH	E039		STD		Y
2416-0102284	APRON, LOW CLEARANCE CONCRETE, EQUIVALENT DIAMETER 84 IN.	EACH	E039		STD		Y
2416-0102290	APRON, LOW CLEARANCE CONCRETE, EQUIVALENT DIAMETER 90 IN.	EACH	E039		STD		Y
2416-0102296	APRON, LOW CLEARANCE CONCRETE, EQUIVALENT DIAMETER 96 IN.	EACH	E039		STD		Y
2416-0102308	APRON, LOW CLEARANCE CONCRETE, EQUIVALENT DIAMETER 108 IN.	EACH	E039		STD		Y
2416-0102320	APRON, LOW CLEARANCE CONCRETE, EQUIVALENT DIAMETER 120 IN.	EACH	E039		STD		Y
2416-0102332	APRON, LOW CLEARANCE CONCRETE, EQUIVALENT DIAMETER 132 IN.	EACH	E039		STD		Y
2416-1000000	RIGID PIPE CULV	LF	E018		PLAN	N	
2416-1160015	CULVERT, CONCRETE ENTRANCE PIPE, 15 IN. DIA	LF	E018		STD	N	
2416-1160018	CULV CONC ENT PIPE 18 IN	LF	E018		STD	N	
2416-1160021	CULV CONC ENT PIPE 21 IN	LF	E018		STD	N	
2416-1160024	CULV CONC ENT PIPE 24 IN	LF	E018		STD	N	
2416-1160027	CULV CONC ENT PIPE 27 IN	LF	E018		STD	N	
2416-1160030	CULV CONC ENT PIPE 30 IN	LF	E018		STD	N	
2416-1160036	CULV CONC ENT PIPE 36 IN	LF	E018		STD	N	
2416-1160042	CULV CONC ENT PIPE 42 IN	LF	E018		STD	N	
2416-1160048	CULV CONC ENT PIPE 48 IN	LF	E018		STD	N	
2416-1160054	CULV CONC ENT PIPE 54 IN	LF	E018		STD	N	
2416-1160060	CULV CONC ENT PIPE 60 IN	LF	E018		STD	N	
2416-1160066	CULV CONC ENT PIPE 66 IN	LF	E018		STD	N	
2416-1160072	CULV CONC ENT PIPE 72 IN	LF	E018		STD	N	
2416-1160078	CULV CONC ENT PIPE 78 IN	LF	E018		STD	N	
2416-1160084	CULV CONC ENT PIPE 84 IN	LF	E018		STD	N	
2416-1165015	CULVERT, 2000D CONCRETE ENTRANCE PIPE, 15 IN. DIA	LF	E018		STD	N	
2416-1165018	CULVERT, 2000D CONC ENTRANCE PIPE, 18 IN. DIA.	LF	E018		STD	N	
2416-1165021	CULVERT, 2000D CONC ENTRANCE PIPE, 21 IN. DIA.	LF	E018		STD	N	
2416-1165024	CULVERT, 2000D CONC ENTRANCE PIPE 24 IN. DIA.	LF	E018		STD	N	
2416-1165027	CULVERT, 2000D CONC ENTRANCE PIPE, 27 IN. DIA.	LF	E018		STD	N	
2416-1165030	CULVERT, 2000D CONC ENTRANCE PIPE, 30 IN. DIA.	LF	E018		STD	N	
2416-1165036	CULVERT, 2000D CONC ENTRANCE PIPE 36 IN. DIA.	LF	E018		STD	N	
2416-1165042	CULVERT, 2000D CONC ENTRANCE PIPE 42 IN. DIA.	LF	E018		STD	N	
2416-1165048	CULVERT, 2000D CONC ENTRANCE PIPE, 48 IN. DIA.	LF	E018		STD	N	
2416-1165054	CULVERT, 2000D CONC ENTRANCE PIPE, 54 IN. DIA.	LF	E018		STD	N	
2416-1165060	CULVERT, 2000D CONC ENTRANCE PIPE, 60 IN. DIA.	LF	E018		STD	N	
2416-1165066	CULVERT, 2000D CONC ENTRANCE PIPE, 66 IN. DIA.	LF	E018		STD	N	
2416-1165072	CULVERT, 2000D CONC ENTRANCE PIPE, 72 IN. DIA.	LF	E018		STD	N	
2416-1165078	CULVERT, 2000D CONC ENTRANCE PIPE, 78 IN. DIA.	LF	E018		STD	N	
2416-1165084	CULVERT, 2000D CONC ENTRANCE PIPE, 84 IN. DIA	LF	E018		STD	N	
2416-1170015	CULVERT, 3000D CONCRETE ENTRANCE PIPE, 15 IN. DIA	LF	E018		STD	N	
2416-1170018	CULVERT, 3000D CONC ENTRANCE PIPE, 18 IN. DIA.	LF	E018		STD	N	
2416-1170021	CULVERT, 3000D CONC ENTRANCE PIPE, 21 IN. DIA.	LF	E018		STD	N	
2416-1170024	CULVERT, 3000D CONC ENTRANCE PIPE, 24 IN. DIA.	LF	E018		STD	N	
2416-1170027	CULVERT, 3000D CONC ENTRANCE PIPE, 27 IN. DIA.	LF	E018		STD	N	
2416-1170030	CULVERT, 3000D CONC ENTRANCE PIPE, 30 IN. DIA.	LF	E018		STD	N	
2416-1170036	CULVERT, 3000D CONC ENTRANCE PIPE, 36 IN. DIA.	LF	E018		STD	N	
2416-1170042	CULVERT, 3000D CONC ENTRANCE PIPE, 42 IN. DIA.	LF	E018		STD	N	
2416-1170048	CULVERT, 3000D CONC ENTRANCE PIPE, 48 IN. DIA.	LF	E018		STD	N	
2416-1170054	CULVERT, 3000D CONC ENTRANCE PIPE, 54 IN. DIA.	LF	E018		STD	N	
2416-1170060	CULVERT, 3000D CONC ENTRANCE PIPE, 60 IN. DIA.	LF	E018		STD	N	
2416-1170066	CULVERT, 3000D CONC ENTRANCE PIPE, 66 IN. DIA.	LF	E018		STD	N	
2416-1170072	CULVERT, 3000D CONC ENTRANCE PIPE, 72 IN. DIA.	LF	E018		STD	N	
2416-1170078	CULVERT, 3000D CONC ENTRANCE PIPE, 78 IN. DIA.	LF	E018		STD	N	
2416-1170084	CULVERT, 3000D CONC ENTRANCE PIPE, 84 IN. DIA.	LF	E018		STD	N	
2416-1180018	CULV CONC RDWY PIPE 18 IN	LF	E018		STD	N	
2416-1180021	CULV CONC RDWY PIPE 21 IN	LF	E018		STD	N	
2416-1180024	CULV CONC RDWY PIPE 24 IN	LF	E018		STD	N	
2416-1180027	CULV CONC RDWY PIPE 27 IN	LF	E018		STD	N	
2416-1180030	CULV CONC RDWY PIPE 30 IN	LF	E018		STD	N	
2416-1180036	CULV CONC RDWY PIPE 36 IN	LF	E018		STD	N	
2416-1180042	CULV CONC RDWY PIPE 42 IN	LF	E018		STD	N	
2416-1180048	CULV CONC RDWY PIPE 48 IN	LF	E018		STD	N	
2416-1180054	CULV CONC RDWY PIPE 54 IN	LF	E018		STD	N	
2416-1180060	CULV CONC RDWY PIPE 60 IN	LF	E018		STD	N	
2416-1180066	CULV CONC RDWY PIPE 66 IN	LF	E018		STD	N	
2416-1180072	CULV CONC RDWY PIPE 72 IN	LF	E018		STD	N	
2416-1180078	CULV CONC RDWY PIPE 78 IN	LF	E018		STD	N	
2416-1180084	CULV CONC RDWY PIPE 84 IN	LF	E018		STD	N	
2416-1180096	CULV CONC RDWY PIPE 96 IN	LF	E018		STD	N	
2416-1190215	CULVERT, LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 15 IN.	LF	E018		STD	N	
2416-1190218	CULVERT, LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 18 IN	LF	E018		STD	N	
2416-1190224	CULVERT, LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 24 IN	LF	E018		STD	N	
2416-1190230	CULVERT, LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 30 IN	LF	E018		STD	N	
2416-1190236	CULVERT, LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 36 IN	LF	E018		STD	N	
2416-1190242	CULVERT, LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 42 IN	LF	E018		STD	N	
2416-1190248	CULVERT, LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 48 IN	LF	E018		STD	N	
2416-1190254	CULVERT, LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 54 IN	LF	E018		STD	N	
2416-1190260	CULVERT, LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 60 IN	LF	E018		STD	N	
2416-1190272	CULVERT, LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 72 IN	LF	E018		STD	N	
2416-1190284	CULVERT, LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 84 IN	LF	E018		STD	N	
2416-1190290	CULVERT, LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 90 IN	LF	E018		STD	N	
2416-1192215	CULVERT, 2000D LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 15 IN	LF	E018		STD	N	
2416-1192218	CULVERT, 2000D LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 18 IN	LF	E018		STD	N	
2416-1192224	CULVERT, 2000D LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 24 IN	LF	E018		STD	N	
2416-1192230	CULVERT, 2000D LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 30 IN	LF	E018		STD	N	
2416-1192236	CULVERT, 2000D LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 36 IN	LF	E018		STD	N	
2416-1192242	CULVERT, 2000D LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 42 IN	LF	E018		STD	N	
2416-1192248	CULVERT, 2000D LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 48 IN	LF	E018		STD	N	
2416-1192254	CULVERT, 2000D LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 54 IN	LF	E018		STD	N	
2416-1192260	CULVERT, 2000D LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 60 IN	LF	E018		STD	N	
2416-1192272	CULVERT, 2000D LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 72 IN	LF	E018		STD	N	
2416-1192284	CULVERT, 2000D LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 84 IN	LF	E018		STD	N	

Item Code	Description	Units	Form	Support Forms	Meas/ Pay	Plan Quantity N	Plan Quantity Y
2416-1192290	CULVERT, 2000D LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 90 IN	LF	E018		STD	N	
2416-1193215	CULVERT, 3000D LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 15 IN	LF	E018		STD	N	
2416-1193218	CULVERT, 3000D LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 18 IN	LF	E018		STD	N	
2416-1193224	CULVERT, 3000D LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 24 IN	LF	E018		STD	N	
2416-1193230	CULVERT, 3000D LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 30 IN	LF	E018		STD	N	
2416-1193236	CULVERT, 3000D LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 36 IN	LF	E018		STD	N	
2416-1193242	CULVERT, 3000D LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 42 IN	LF	E018		STD	N	
2416-1193248	CULVERT, 3000D LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 48 IN	LF	E018		STD	N	
2416-1193254	CULVERT, 3000D LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 54 IN	LF	E018		STD	N	
2416-1193260	CULVERT, 3000D LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 60 IN	LF	E018		STD	N	
2416-1193272	CULVERT, 3000D LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 72 IN	LF	E018		STD	N	
2416-1193284	CULVERT, 3000D LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 84 IN	LF	E018		STD	N	
2416-1193290	CULVERT, 3000D LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 90 IN	LF	E018		STD	N	
2416-1200218	CULVERT, LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 18 IN	LF	E018		STD	N	
2416-1200224	CULVERT, LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 24 IN	LF	E018		STD	N	
2416-1200230	CULVERT, LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 30 IN	LF	E018		STD	N	
2416-1200236	CULVERT, LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 36 IN	LF	E018		STD	N	
2416-1200242	CULVERT, LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 42 IN	LF	E018		STD	N	
2416-1200248	CULVERT, LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 48 IN	LF	E018		STD	N	
2416-1200254	CULVERT, LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 54 IN	LF	E018		STD	N	
2416-1200260	CULVERT, LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 60 IN	LF	E018		STD	N	
2416-1200272	CULVERT, LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 72 IN	LF	E018		STD	N	
2416-1200284	CULVERT, LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 84 IN	LF	E018		STD	N	
2416-1200290	CULVERT, LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 90 IN	LF	E018		STD	N	
2416-1200296	CULVERT, LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 96 IN	LF	E018		STD	N	
2416-1200308	CULVERT, LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 108 IN	LF	E018		STD	N	
2416-1200320	CULVERT, LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 120 IN	LF	E018		STD	N	
2416-1200332	CULVERT, LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 132 IN	LF	E018		STD	N	
2416-1202022	CULVERT, 3000D CONCRETE ARCH ROADWAY PIPE, 22 IN. X 14 IN.	LF	E018		STD	N	
2416-1202029	CULVERT, 3000D CONCRETE ARCH ROADWAY PIPE, 29 IN. X 18 IN.	LF	E018		STD	N	
2416-1202037	CULVERT, 3000D CONCRETE ARCH ROADWAY PIPE, 37 IN. X 23 IN.	LF	E018		STD	N	
2416-1202044	CULVERT, 3000D CONCRETE ARCH ROADWAY PIPE, 44 IN. X 27 IN.	LF	E018		STD	N	
2416-1202052	CULVERT, 3000D CONCRETE ARCH ROADWAY PIPE, 52 IN. X 32 IN.	LF	E018		STD	N	
2416-1202059	CULVERT, 3000D CONCRETE ARCH ROADWAY PIPE, 59 IN. X 36 IN.	LF	E018		STD	N	
2416-1202065	CULVERT, 3000D CONCRETE ARCH ROADWAY PIPE, 65 IN. X 40 IN.	LF	E018		STD	N	
2416-1202073	CULVERT, 3000D CONCRETE ARCH ROADWAY PIPE, 73 IN. X 45 IN.	LF	E018		STD	N	
2416-1202088	CULVERT, 3000D CONCRETE ARCH ROADWAY PIPE, 88 IN. X 54 IN.	LF	E018		STD	N	
2416-1202102	CULVERT, 3000D CONCRETE ARCH ROADWAY PIPE, 102 IN. X 62 IN.	LF	E018		STD	N	
2416-1202115	CULVERT, 3000D CONCRETE ARCH ROADWAY PIPE, 115 IN. X 72 IN.	LF	E018		STD	N	
2416-1202122	CULVERT, 3000D CONCRETE ARCH ROADWAY PIPE, 122 IN. X 78 IN.	LF	E018		STD	N	
2416-1202138	CULVERT, 3000D CONCRETE ARCH ROADWAY PIPE, 138 IN. X 88 IN.	LF	E018		STD	N	
2416-1202154	CULVERT, 3000D CONCRETE ARCH ROADWAY PIPE, 154 IN. X 97 IN.	LF	E018		STD	N	
2416-1202169	CULVERT, 3000D CONCRETE ARCH ROADWAY PIPE, 169 IN. X 107 IN.	LF	E018		STD	N	
2416-1202218	CULVERT, 3000D LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 18 IN	LF	E018		STD	N	
2416-1202224	CULVERT, 3000D LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 24 IN	LF	E018		STD	N	
2416-1202230	CULVERT, 3000D LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 30 IN	LF	E018		STD	N	
2416-1202236	CULVERT, 3000D LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 36 IN	LF	E018		STD	N	
2416-1202242	CULVERT, 3000D LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 42 IN	LF	E018		STD	N	
2416-1202248	CULVERT, 3000D LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 48 IN	LF	E018		STD	N	
2416-1202254	CULVERT, 3000D LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 54 IN	LF	E018		STD	N	
2416-1202260	CULVERT, 3000D LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 60 IN	LF	E018		STD	N	
2416-1202272	CULVERT, 3000D LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 72 IN	LF	E018		STD	N	
2416-1202284	CULVERT, 3000D LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 84 IN	LF	E018		STD	N	
2416-1202290	CULVERT, 3000D LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 90 IN	LF	E018		STD	N	
2416-1202296	CULVERT, 3000D LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 96 IN	LF	E018		STD	N	
2416-1202308	CULVERT, 3000D LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 108 IN	LF	E018		STD	N	
2416-1202320	CULVERT, 3000D LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 120 IN	LF	E018		STD	N	
2416-1202332	CULVERT, 3000D LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 132 IN	LF	E018		STD	N	
2416-1240018	CULV 3000D CONC RDWY PIPE 18 IN	LF	E018		STD	N	
2416-1240021	CULV 3000D CONC RDWY PIPE 21 IN.	LF	E018		STD	N	
2416-1240024	CULV 3000D CONC RDWY PIPE 24 IN	LF	E018		STD	N	
2416-1240027	CULV 3000D CONC RDWY PIPE 27 IN.	LF	E018		STD	N	
2416-1240030	CULV 3000D CONC RDWY PIPE 30 IN	LF	E018		STD	N	
2416-1240036	CULV 3000D CONC RDWY PIPE 36 IN	LF	E018		STD	N	
2416-1240042	CULV 3000D CONC RDWY PIPE 42 IN	LF	E018		STD	N	
2416-1240048	CULV 3000D CONC RDWY PIPE 48 IN	LF	E018		STD	N	
2416-1240054	CULV 3000D CONC RDWY PIPE 54 IN	LF	E018		STD	N	
2416-1240060	CULV 3000D CONC RDWY PIPE 60 IN	LF	E018		STD	N	
2416-1240066	CULV 3000D CONC RDWY PIPE 66 IN	LF	E018		STD	N	
2416-1240072	CULV 3000D CONC RDWY PIPE 72 IN	LF	E018		STD	N	
2416-1240078	CULV 3000D CONC RDWY PIPE 78 IN.	LF	E018		STD	N	
2416-1240084	CULV 3000D CONC RDWY PIPE 84 IN	LF	E018		STD	N	
2416-1245018	CULV 3750D CONC RDWY PIPE 18 IN	LF	E018		STD	N	
2416-1245024	CULV 3750D CONC RDWY PIPE 24 IN	LF	E018		STD	N	
2416-1245027	CULV 3750D CONC RDWY PIPE 27 IN	LF	E018		STD	N	
2416-1245030	CULV 3750D CONC RDWY PIPE 30 IN	LF	E018		STD	N	
2416-1245036	CULV 3750D CONC RDWY PIPE 36 IN	LF	E018		STD	N	
2416-1245042	CULV 3750D CONC RDWY PIPE 42 IN	LF	E018		STD	N	
2416-1245048	CULV 3750D CONC RDWY PIPE 48 IN	LF	E018		STD	N	
2416-1245054	CULV 3750D CONC RDWY PIPE 54 IN	LF	E018		STD	N	
2416-1245060	CULV 3750D CONC RDWY PIPE 60 IN	LF	E018		STD	N	
2416-1245066	CULV 3750D CONC RDWY PIPE 66 IN	LF	E018		STD	N	
2416-1245072	CULV 3750D CONC RDWY PIPE 72 IN	LF	E018		STD	N	
2416-1262018	CULVERT, CONCRETE PIPE, 2000D, TRENCHLESS, 18 IN. DIA	LF	E018		STD	N	
2416-1262021	CULVERT, CONCRETE PIPE, 2000D, TRENCHLESS, 21 IN. DIA	LF	E018		STD	N	
2416-1262024	CULVERT, CONCRETE PIPE, 2000D, TRENCHLESS, 24 IN. DIA	LF	E018		STD	N	
2416-1262027	CULVERT, CONCRETE PIPE, 2000D, TRENCHLESS, 27 IN. DIA	LF	E018		STD	N	
2416-1262030	CULVERT, CONCRETE PIPE, 2000D, TRENCHLESS, 30 IN. DIA	LF	E018		STD	N	
2416-1262036	CULVERT, CONCRETE PIPE, 2000D, TRENCHLESS, 36 IN. DIA	LF	E018		STD	N	
2416-1262042	CULVERT, CONCRETE PIPE, 2000D, TRENCHLESS, 42 IN. DIA	LF	E018		STD	N	
2416-1262048	CULVERT, CONCRETE PIPE, 2000D, TRENCHLESS, 48 IN. DIA	LF	E018		STD	N	
2416-1262054	CULVERT, CONCRETE PIPE, 2000D, TRENCHLESS, 54 IN. DIA	LF	E018		STD	N	
2416-1262060	CULVERT, CONCRETE PIPE, 2000D, TRENCHLESS, 60 IN. DIA	LF	E018		STD	N	
2416-1262066	CULVERT, CONCRETE PIPE, 2000D, TRENCHLESS, 66 IN. DIA	LF	E018		STD	N	
2416-1262072	CULVERT, CONCRETE PIPE, 2000D, TRENCHLESS, 72 IN. DIA	LF	E018		STD	N	

Item Code	Description	Units	Form	Support Forms	Meas/ Pay	Plan Quantity N	Plan Quantity Y
2416-1263018	CULVERT, CONCRETE PIPE, 3000D, TRENCHLESS, 18 IN. DIA	LF	E018		STD	N	
2416-1263021	CULVERT, CONCRETE PIPE, 3000D, TRENCHLESS, 21 IN. DIA	LF	E018		STD	N	
2416-1263024	CULVERT, CONCRETE PIPE, 3000D, TRENCHLESS, 24 IN. DIA	LF	E018		STD	N	
2416-1263027	CULVERT, CONCRETE PIPE, 3000D, TRENCHLESS, 27 IN. DIA	LF	E018		STD	N	
2416-1263030	CULVERT, CONCRETE PIPE, 3000D, TRENCHLESS, 30 IN. DIA	LF	E018		STD	N	
2416-1263036	CULVERT, CONCRETE PIPE, 3000D, TRENCHLESS, 36 IN. DIA	LF	E018		STD	N	
2416-1263042	CULVERT, CONCRETE PIPE, 3000D, TRENCHLESS, 42 IN. DIA	LF	E018		STD	N	
2416-1263048	CULVERT, CONCRETE PIPE, 3000D, TRENCHLESS, 48 IN. DIA	LF	E018		STD	N	
2416-1263054	CULVERT, CONCRETE PIPE, 3000D, TRENCHLESS, 54 IN. DIA	LF	E018		STD	N	
2416-1263060	CULVERT, CONCRETE PIPE, 3000D, TRENCHLESS, 60 IN. DIA	LF	E018		STD	N	
2416-1263066	CULVERT, CONCRETE PIPE, 3000D, TRENCHLESS, 66 IN. DIA	LF	E018		STD	N	
2416-1263072	CULVERT, CONCRETE PIPE, 3000D, TRENCHLESS, 72 IN. DIA	LF	E018		STD	N	
2416-1264018	CULVERT, CONCRETE PIPE, 3750D, TRENCHLESS, 18 IN. DIA	LF	E018		STD	N	
2416-1264021	CULVERT, CONCRETE PIPE, 3750D, TRENCHLESS, 21 IN. DIA	LF	E018		STD	N	
2416-1264024	CULVERT, CONCRETE PIPE, 3750D, TRENCHLESS, 24 IN. DIA	LF	E018		STD	N	
2416-1264027	CULVERT, CONCRETE PIPE, 3750D, TRENCHLESS, 27 IN. DIA	LF	E018		STD	N	
2416-1264030	CULVERT, CONCRETE PIPE, 3750D, TRENCHLESS, 30 IN. DIA	LF	E018		STD	N	
2416-1264036	CULVERT, CONCRETE PIPE, 3750D, TRENCHLESS, 36 IN. DIA	LF	E018		STD	N	
2416-1264042	CULVERT, CONCRETE PIPE, 3750D, TRENCHLESS, 42 IN. DIA	LF	E018		STD	N	
2416-1264048	CULVERT, CONCRETE PIPE, 3750D, TRENCHLESS, 48 IN. DIA	LF	E018		STD	N	
2416-1264054	CULVERT, CONCRETE PIPE, 3750D, TRENCHLESS, 54 IN. DIA	LF	E018		STD	N	
2416-1264060	CULVERT, CONCRETE PIPE, 3750D, TRENCHLESS, 60 IN. DIA	LF	E018		STD	N	
2416-1264066	CULVERT, CONCRETE PIPE, 3750D, TRENCHLESS, 66 IN. DIA	LF	E018		STD	N	
2416-1264072	CULVERT, CONCRETE PIPE, 3750D, TRENCHLESS, 72 IN. DIA	LF	E018		STD	N	
2416-1541036	RMV. AND REINSTALL RIGID PIPE CULVERT LESS THAN OR EQUAL TO 36 IN	LF	E018		STD	N	
2416-1541136	REMOVE AND REINSTALL RIGID PIPE CULVERT GREATER THAN 36 IN	LF	E018		STD	N	
2416-4040015	HALF PIPE, CONC, 15 IN.	LF	E018		SRP	N	
2416-4040018	HALF PIPE, CONC, 18 IN.	LF	E018		SRP	N	
2416-4040021	HALF PIPE, CONC, 21 IN.	LF	E018		SRP	N	
2416-4040024	HALF PIPE, CONC, 24 IN.	LF	E018		SRP	N	
2416-4040027	HALF PIPE, CONC, 27 IN.	LF	E018		SRP	N	
2416-4040030	HALF PIPE, CONC, 30 IN.	LF	E018		SRP	N	
2416-4040036	HALF PIPE, CONC, 36 IN.	LF	E018		SRP	N	
2416-4040042	HALF PIPE, CONC, 42 IN.	LF	E018		SRP	N	
2416-4040048	HALF PIPE, CONC, 48 IN.	LF	E018		SRP	N	
2416-8000204	STOCKPASS APRON, 4' X 6' PRECAST CONCRETE	EACH	E039		PLAN		Y
2416-8000205	STOCKPASS APRON, 5' X 7' PRECAST CONCRETE	EACH	E039		PLAN		Y
2416-8000254	STOCKPASS, 4' X 6' PRECAST CONCRETE	LF	E018		PLAN	N	
2416-8000255	STOCKPASS, 5' X 7' PRECAST CONCRETE	LF	E018		PLAN	N	
2417-0225000	METAL APRONS	EACH	E039		PLAN	N	
2417-0225006	APRON METAL 6 IN.	EACH	E039		STD		Y
2417-0225008	APRON METAL 8 IN	EACH	E039		STD		Y
2417-0225010	APRON METAL 10 IN.	EACH	E039		STD		Y
2417-0225012	APRON METAL 12 IN	EACH	E039		STD		Y
2417-0225015	APRON METAL 15 IN	EACH	E039		STD		Y
2417-0225018	APRON METAL 18 IN	EACH	E039		STD		Y
2417-0225021	APRON METAL 21 IN	EACH	E039		STD		Y
2417-0225024	APRON METAL 24 IN	EACH	E039		STD		Y
2417-0225030	APRON METAL 30 IN	EACH	E039		STD		Y
2417-0225036	APRON METAL 36 IN	EACH	E039		STD		Y
2417-0225042	APRON METAL 42 IN	EACH	E039		STD		Y
2417-0225048	APRON METAL 48 IN	EACH	E039		STD		Y
2417-0225054	APRON METAL 54 IN	EACH	E039		STD		Y
2417-0225060	APRON METAL 60 IN	EACH	E039		STD		Y
2417-0225066	APRON METAL 66 IN	EACH	E039		STD		Y
2417-0225072	APRON METAL 72 IN	EACH	E039		STD		Y
2417-0225078	APRON METAL 78 IN	EACH	E039		STD		Y
2417-0225084	APRON METAL 84 IN	EACH	E039		STD		Y
2417-0225090	APRON METAL 90 IN.	EACH	E039		STD		Y
2417-0225096	APRON METAL 96 IN.	EACH	E039		STD		Y
2417-0250017	APRON METAL ARCH 17 IN X 13 IN	EACH	E039		STD		Y
2417-0250021	APRON METAL ARCH 21 IN X 15 IN	EACH	E039		STD		Y
2417-0250024	APRON METAL ARCH 24 IN X 18IN	EACH	E039		STD		Y
2417-0250028	APRON METAL ARCH 28 IN X 20 IN	EACH	E039		STD		Y
2417-0250035	APRON METAL ARCH 35 IN X24 IN	EACH	E039		STD		Y
2417-0250042	APRON METAL ARCH 42 IN X29 IN	EACH	E039		STD		Y
2417-0250049	APRON METAL ARCH 49 IN X33 IN	EACH	E039		STD		Y
2417-0250057	APRON METAL ARCH 57 IN X38 IN	EACH	E039		STD		Y
2417-0250064	APRON METAL ARCH 64 IN X43 IN	EACH	E039		STD		Y
2417-0250071	APRON METAL ARCH 71 IN X47 IN	EACH	E039		STD		Y
2417-0250077	APRON METAL ARCH 77 IN X52 IN	EACH	E039		STD		Y
2417-0250083	APRON METAL ARCH 83 IN X57 IN	EACH	E039		STD		Y
2417-0330015	APRON SAFETY SLOPE 15 IN	EACH	E039		STD		Y
2417-0330018	APRON SAFETY SLOPE 18 IN	EACH	E039		STD		Y
2417-0330021	APRON SAFETY SLOPE 21 IN	EACH	E039		STD		Y
2417-0330024	APRON SAFETY SLOPE 24 IN	EACH	E039		STD		Y
2417-0330030	APRON SAFETY SLOPE 30 IN	EACH	E039		STD		Y
2417-0330036	APRON SAFETY SLOPE 36 IN	EACH	E039		STD		Y
2417-0330042	APRON SAFETY SLOPE 42 IN	EACH	E039		STD		Y
2417-0330048	APRON SAFETY SLOPE 48 IN	EACH	E039		STD		Y
2417-0330054	APRON SAFETY SLOPE 54 IN	EACH	E039		STD		Y
2417-0330060	APRON SAFETY SLOPE 60 IN	EACH	E039		STD		Y
2417-0341036	RMV+REINSTALL METAL APRON <= 36	EACH	E025		STD	N	
2417-0341136	RMV+REINSTALL METAL APRON > 36	EACH	E025		STD	N	
2417-1007000	CORR PIPE CULV, _____	LF	E018		PLAN	N	
2417-1040015	CULVERT, CORRUGATED METAL ENTRANCE PIPE, 15 IN. DIA	LF	E018		STD	N	
2417-1040018	CULV CMP ENT 18 IN	LF	E018		STD	N	
2417-1040021	CULV CMP ENT 21 IN	LF	E018		STD	N	
2417-1040024	CULV CMP ENT 24 IN	LF	E018		STD	N	
2417-1040030	CULV CMP ENT 30 IN	LF	E018		STD	N	
2417-1040036	CULV CMP ENT 36 IN	LF	E018		STD	N	
2417-1040042	CULV CMP ENT 42 IN	LF	E018		STD	N	
2417-1040048	CULV CMP ENT 48 IN	LF	E018		STD	N	
2417-1040054	CULV CMP ENT 54 IN	LF	E018		STD	N	
2417-1040060	CULV CMP ENT 60 IN	LF	E018		STD	N	

Item Code	Description	Units	Form	Support Forms	Meas/ Pay	Plan Quantity N	Plan Quantity Y
2417-1040066	CULV CMP ENT 66 IN	LF	E018		STD	N	
2417-1040072	CULV CMP ENT 72 IN	LF	E018		STD	N	
2417-1040078	CULV CMP ENT , 78 IN.	LF	E018		STD	N	
2417-1040084	CULV CMP ENT 84 IN	LF	E018		STD	N	
2417-1040090	CULV CMP ENT , 90 IN.	LF	E018		STD	N	
2417-1040096	CULV CMP ENT , 96 IN.	LF	E018		STD	N	
2417-1040102	CULV CMP ENT , 102 IN.	LF	E018		STD	N	
2417-1040108	CULV CMP ENT , 108 IN.	LF	E018		STD	N	
2417-1040114	CULV CMP ENT , 114 IN.	LF	E018		STD	N	
2417-1040120	CULV CMP ENT , 120 IN.	LF	E018		STD	N	
2417-1060018	CULV CMP RDWY 18 IN	LF	E018		STD	N	
2417-1060021	CULV CMP RDWY 21 IN	LF	E018		STD	N	
2417-1060024	CULV CMP RDWY 24 IN	LF	E018		STD	N	
2417-1060030	CULV CMP RDWY 30 IN	LF	E018		STD	N	
2417-1060036	CULV CMP RDWY 36 IN	LF	E018		STD	N	
2417-1060042	CULV CMP RDWY 42 IN	LF	E018		STD	N	
2417-1060048	CULV CMP RDWY 48 IN	LF	E018		STD	N	
2417-1060054	CULV CMP RDWY 54 IN	LF	E018		STD	N	
2417-1060060	CULV CMP RDWY 60 IN	LF	E018		STD	N	
2417-1060066	CULV CMP RDWY 66 IN	LF	E018		STD	N	
2417-1060072	CULV CMP RDWY 72 IN	LF	E018		STD	N	
2417-1060078	CULV CMP RDWY 78 IN	LF	E018		STD	N	
2417-1060084	CULV CMP RDWY 84 IN	LF	E018		STD	N	
2417-1060090	CULV CMP RDWY 90 IN	LF	E018		STD	N	
2417-1060096	CULV CMP RDWY 96 IN	LF	E018		STD	N	
2417-1060102	CULV CMP RDWY 102 IN	LF	E018		STD	N	
2417-1060108	CULV CMP RDWY 108 IN	LF	E018		STD	N	
2417-1060114	CULV CMP RDWY 114 IN	LF	E018		STD	N	
2417-1060120	CULV CMP RDWY 120 IN	LF	E018		STD	N	
2417-1080017	CULV CMP ARCH ENT 17 INX13 IN	LF	E018		STD	N	
2417-1080021	CULV CMP ARCH ENT 21 INX15 IN	LF	E018		STD	N	
2417-1080024	CULV CMP ARCH ENT 24 INX18 IN	LF	E018		STD	N	
2417-1080028	CULV CMP ARCH ENT 28 INX20 IN	LF	E018		STD	N	
2417-1080035	CULV CMP ARCH ENT 35 INX24 IN	LF	E018		STD	N	
2417-1080042	CULV CMP ARCH ENT 42 INX29 IN	LF	E018		STD	N	
2417-1080049	CULV CMP ARCH ENT 49 INX33 IN	LF	E018		STD	N	
2417-1080057	CULV CMP ARCH ENT 57 INX38 IN	LF	E018		STD	N	
2417-1080060	CULV CMP ARCH ENT 60 INX46 IN	LF	E018		STD	N	
2417-1080064	CULV CMP ARCH ENT 64 INX43 IN	LF	E018		STD	N	
2417-1080066	CULV CMP ARCH ENT 66 INX51 IN	LF	E018		STD	N	
2417-1080071	CULV CMP ARCH ENT 71 INX47 IN	LF	E018		STD	N	
2417-1080073	CULV CMP ARCH ENT 73 INX55 IN	LF	E018		STD	N	
2417-1080077	CULV CMP ARCH ENT 77 INX52 IN	LF	E018		STD	N	
2417-1080081	CULV CMP ARCH ENT 81 INX59 IN	LF	E018		STD	N	
2417-1080083	CULV CMP ARCH ENT 83 INX57 IN	LF	E018		STD	N	
2417-1080087	CULV CMP ARCH ENT 87 INX63 IN	LF	E018		STD	N	
2417-1080095	CULV CMP ARCH ENT 95 INX67 IN	LF	E018		STD	N	
2417-1080103	CULV CMP ARCH EXT 103 INX71 IN	LF	E018		STD	N	
2417-1080112	CULV CMP ARCH EXT 112 INX75 IN	LF	E018		STD	N	
2417-1080117	CULV CMP ARCH EXT 117 INX79 IN	LF	E018		STD	N	
2417-1080128	CULV CMP ARCH EXT 128 INX83 IN	LF	E018		STD	N	
2417-1100017	CULV CMP ARCH RDWY 17 INX13 IN	LF	E018		STD	N	
2417-1100021	CULV CMP ARCH RDWY 21 INX15 IN	LF	E018		STD	N	
2417-1100024	CULV CMP ARCH RDWY 24 INX18 IN	LF	E018		STD	N	
2417-1100028	CULV CMP ARCH RDWY 28 INX20 IN	LF	E018		STD	N	
2417-1100035	CULV CMP ARCH RDWY 35 INX24 IN	LF	E018		STD	N	
2417-1100042	CULV CMP ARCH RDWY 42 INX29 IN	LF	E018		STD	N	
2417-1100049	CULV CMP ARCH RDWY 49 INX33 IN	LF	E018		STD	N	
2417-1100057	CULV CMP ARCH RDWY 57 INX38 IN	LF	E018		STD	N	
2417-1100060	CULV CMP ARCH RDWY 60 INX46 IN	LF	E018		STD	N	
2417-1100064	CULV CMP ARCH RDWY 64 INX43 IN	LF	E018		STD	N	
2417-1100066	CULV CMP ARCH RDWY 66 INX51 IN	LF	E018		STD	N	
2417-1100071	CULV CMP ARCH RDWY 71 INX47 IN	LF	E018		STD	N	
2417-1100073	CULV CMP ARCH RDWY 73 INX55 IN	LF	E018		STD	N	
2417-1100077	CULV CMP ARCH RDWY 77 INX52 IN	LF	E018		STD	N	
2417-1100081	CULV CMP ARCH RDWY 81 INX59 IN	LF	E018		STD	N	
2417-1100083	CULV CMP ARCH RDWY 83 INX57 IN	LF	E018		STD	N	
2417-1100087	CULV CMP ARCH RDWY 87 INX63 IN	LF	E018		STD	N	
2417-1100095	CULV CMP ARCH RDWY 95 INX67 IN	LF	E018		STD	N	
2417-1100103	CULV CMP ARCH RDWY 103 INX71 IN	LF	E018		STD	N	
2417-1100112	CULV CMP ARCH RDWY 112 INX75 IN	LF	E018		STD	N	
2417-1100117	CULV CMP ARCH RDWY 117 INX79 IN	LF	E018		STD	N	
2417-1100128	CULV CMP ARCH RDWY 128 INX83 IN	LF	E018		STD	N	
2417-1130015	CULVERT, CORRUGATED POLYETHYLENE ENTRANCE PIPE, 15 IN	LF	E018		STD	N	
2417-1130018	CULV CORR POLYETHYLENE ENT PIPE 18 IN	LF	E018		STD	N	
2417-1130024	CULV CORR POLYETHYLENE ENT PIPE 24 IN	LF	E018		STD	N	
2417-1140018	CULV CORR POLYETHYLENE RDWY PIPE 18 IN	LF	E018		STD	N	
2417-1140021	CULV CORR POLYETHYLENE RDWY PIPE 21 IN	LF	E018		STD	N	
2417-1140024	CULV CORR POLYETHYLENE RDWY PIPE 24 IN	LF	E018		STD	N	
2417-1140030	CULV CORR POLYETHYLENE RDWY PIPE 30 IN	LF	E018		STD	N	
2417-1140036	CULV CORR POLYETHYLENE RDWY PIPE 36 IN	LF	E018		STD	N	
2417-1140042	CULV CORR POLYETHYLENE RDWY PIPE 42 IN	LF	E018		STD	N	
2417-1461036	RMV+REINSTALL CORR PIPE CULV </= 36	LF	E018		STD	N	
2417-1461136	RMV+REINSTALL CORR PIPE CULV > 36	LF	E018		STD	N	
2417-2307015	DRAIN, CORRUGATED METAL SLOTTED PIPE, 15 IN., W/6 IN. GRATE	LF	E018		PLAN	N	
2417-2307021	DRAIN, CORRUGATED METAL SLOTTED PIPE, 21 IN., W/6 IN. GRATE	LF	E018		PLAN	N	
2417-2307024	DRAIN, CORRUGATED METAL SLOTTED PIPE, 24 IN., W/6 IN. GRATE	LF	E018		PLAN	N	
2417-2307030	DRAIN, CORRUGATED METAL SLOTTED PIPE, 30 IN., W/6 IN. GRATE	LF	E018		PLAN	N	
2417-2307036	DRAIN, CORRUGATED METAL SLOTTED PIPE, 36 IN., W/6 IN. GRATE	LF	E018		SRP	N	
2417-2307115	DRAIN, CORRUGATED METAL SLOTTED PIPE, 15 IN., W/12 IN. GRATE	LF	E018		PLAN	N	
2417-3550024	SLOTTED FLUME CORR METAL 24 IN	LF	E018		PLAN	N	
2417-3550030	SLOTTED FLUME CORR METAL 30 IN	LF	E018		PLAN	N	
2417-3550036	SLOTTED FLUME CORR METAL 36 IN	LF	E018		PLAN	N	
2417-3550042	SLOTTED FLUME CORR METAL 42 IN	LF	E018		PLAN	N	
2417-3550048	SLOTTED FLUME CORR METAL 48 IN	LF	E018		PLAN	N	

Item Code	Description	Units	Form	Support Forms	Meas/ Pay	Plan Quantity N	Plan Quantity Y
2417-3550054	SLOTTED FLUME CORR METAL 54 IN	LF	E018		PLAN	N	
2417-5895012	BEVELED PIPE AND GUARD, 12 INCH	EACH	E039		SRP	N	
2417-5895015	BEVELED PIPE AND GUARD, 15 INCH	EACH	E039		SRP	N	
2417-5895018	BEVELED PIPE AND GUARD, 18 INCH	EACH	E039		SRP	N	
2417-5895021	BEVELED PIPE AND GUARD, 21 INCH	EACH	E039		SRP	N	
2417-5895024	BEVELED PIPE AND GUARD, 24 INCH	EACH	E039		SRP	N	
2418-0000010	TEMPORARY STREAM DIVERSION	EACH	E039		STD	N	
2420-1280060	CULV STRUCTURAL PL RDWY PIPE 60 IN	LF	E018		STD		Y
2420-1280066	CULV STRUCTURAL PL RDWY PIPE 66 IN	LF	E018		STD		Y
2420-1280072	CULV STRUCTURAL PL RDWY PIPE 72 IN	LF	E018		STD		Y
2420-1280078	CULV STRUCTURAL PL RDWY PIPE 78 IN	LF	E018		STD		Y
2420-1280084	CULV STRUCTURAL PL RDWY PIPE 84 IN	LF	E018		STD		Y
2420-1280090	CULV STRUCTURAL PL RDWY PIPE 90 IN	LF	E018		STD		Y
2420-1280096	CULV STRUCTURAL PL RDWY PIPE 96 IN	LF	E018		STD		Y
2420-1280102	CULV STRUCTURAL PL RDWY PIPE 102 IN	LF	E018		STD		Y
2420-1280108	CULV STRUCTURAL PL RDWY PIPE 108 IN	LF	E018		STD		Y
2420-1280114	CULV STRUCTURAL PL RDWY PIPE 114 IN	LF	E018		STD		Y
2420-1280120	CULV STRUCTURAL PL RDWY PIPE 120 IN	LF	E018		STD		Y
2420-1280126	CULV STRUCTURAL PL RDWY PIPE 126 IN	LF	E018		STD		Y
2420-1280132	CULV STRUCTURAL PL RDWY PIPE 132 IN	LF	E018		STD		Y
2420-1280138	CULV STRUCTURAL PL RDWY PIPE 138 IN	LF	E018		STD		Y
2420-1280144	CULV STRUCTURAL PL RDWY PIPE 144 IN	LF	E018		STD		Y
2420-1280150	CULV STRUCTURAL PL RDWY PIPE 150 IN	LF	E018		STD		Y
2420-1280156	CULV STRUCTURAL PL RDWY PIPE 156 IN	LF	E018		STD		Y
2420-1280162	CULV STRUCTURAL PL RDWY PIPE 162 IN	LF	E018		STD		Y
2420-1280168	CULV STRUCTURAL PL RDWY PIPE 168 IN	LF	E018		STD		Y
2420-1280174	CULV STRUCTURAL PL RDWY PIPE 174 IN	LF	E018		STD		Y
2420-1280180	CULV STRUCTURAL PL RDWY PIPE 180 IN	LF	E018		STD		Y
2420-1300073	CULV STRUCTURAL PL PIPE-ARCH, 73 IN. X 55 IN.	LF	E018		STD		Y
2420-1300084	CULV STRUCTURAL PL PIPE-ARCH, 84 IN. X 61 IN.	LF	E018		STD		Y
2420-1300095	CULV STRUCTURAL PL PIPE-ARCH, 95 IN. X 67 IN.	LF	E018		STD		Y
2420-1300106	CULV STRUCTURAL PL PIPE-ARCH, 106 IN. X 73 IN.	LF	E018		STD		Y
2420-1300117	CULV STRUCTURAL PL PIPE-ARCH, 117 IN. X 79 IN.	LF	E018		STD		Y
2420-1300131	CULV STRUCTURAL PL PIPE-ARCH 131 IN. X 85 IN	LF	E018		STD		Y
2420-1300142	CULV STRUCTURAL PL PIPE-ARCH 142 IN. X 91 IN	LF	E018		STD		Y
2420-1300154	CULV STRUCTURAL PL PIPE-ARCH 154 IN. X 100 IN.	LF	E018		STD		Y
2420-1300159	CULV STRUCTURAL PL PIPE-ARCH, 159 IN. X 112 IN.	LF	E018		STD		Y
2420-1300170	CULV STRUCTURAL PL PIPE-ARCH 170 IN. X 118 IN.	LF	E018		STD		Y
2420-1300184	CULV STRUCTURAL PL PIPE-ARCH, 184 IN. X 124 IN.	LF	E018		STD		Y
2420-1300195	CULV STRUCTURAL PL PIPE-ARCH 195 IN. X 130 IN.	LF	E018		STD		Y
2420-1300206	CULV, STRUCTURAL PL PIPE-ARCH, 206 IN. X 136 IN.	LF	E018		STD		Y
2420-1300217	CULV STRUCTURAL PL PIPE-ARCH 217 IN. X 142 IN.	LF	E018		STD		Y
2420-1300231	CULV STRUCTURAL PL PIPE-ARCH, 231 IN. X 148 IN.	LF	E018		STD		Y
2420-1300239	CULV STRUCTURAL PL PIPE-ARCH 239 IN. X 154 IN.	LF	E018		STD		Y
2420-1300247	CULV STRUCTURAL PL PIPE-ARCH, 247 IN. X 158 IN.	LF	E018		STD		Y
2422-0360000	UNCLASSIED APRONS	EACH	E039		PLAN	N	
2422-0360015	APRON UNCL 15 IN	EACH	E039		STD		Y
2422-0360018	APRON UNCL 18 IN	EACH	E039		STD		Y
2422-0360021	APRON UNCL 21 IN	EACH	E039		STD		Y
2422-0360024	APRON UNCL 24 IN	EACH	E039		STD		Y
2422-0360030	APRON UNCL 30 IN	EACH	E039		STD		Y
2422-0360036	APRON UNCL 36 IN	EACH	E039		STD		Y
2422-0360042	APRON UNCL 42 IN	EACH	E039		STD		Y
2422-0360048	APRON UNCL 48 IN	EACH	E039		STD		Y
2422-0360054	APRON UNCL 54 IN	EACH	E039		STD		Y
2422-0360060	APRON UNCL 60 IN	EACH	E039		STD		Y
2422-0360066	APRON UNCL 66 IN	EACH	E039		STD		Y
2422-0360072	APRON UNCL 72 IN	EACH	E039		STD		Y
2422-0360078	APRON UNCL, 78 IN.	EACH	E039		STD		Y
2422-0360084	APRON, UNCL, 84 IN	EACH	E039		STD		Y
2422-1720000	UNCL PIPE CULV, _____	LF	E018		PLAN	N	
2422-1722015	CULVERT, UNCLASSIFIED ENTRANCE PIPE, 15 IN. DIA	LF	E018		STD	N	
2422-1722018	CULV UNCL ENT PIPE 18 IN	LF	E018		STD	N	
2422-1722021	CULV UNCL ENT PIPE 21 IN	LF	E018		STD	N	
2422-1722024	CULV UNCL ENT PIPE 24 IN	LF	E018		STD	N	
2422-1722030	CULV UNCL ENT PIPE 30 IN	LF	E018		STD	N	
2422-1722036	CULV UNCL ENT PIPE 36 IN	LF	E018		STD	N	
2422-1722042	CULV UNCL ENT PIPE 42 IN	LF	E018		STD	N	
2422-1722048	CULV UNCL ENT PIPE 48 IN	LF	E018		STD	N	
2422-1722054	CULV UNCL ENT PIPE 54 IN	LF	E018		STD	N	
2422-1722060	CULV UNCL ENT PIPE 60 IN	LF	E018		STD	N	
2422-1722066	CULV UNCL ENT PIPE 66 IN	LF	E018		STD	N	
2422-1722072	CULV UNCL ENT PIPE 72 IN	LF	E018		STD	N	
2422-1722078	CULV UNCL ENT PIPE, 78 IN.	LF	E018		STD	N	
2422-1722084	CULV UNCL ENT PIPE, 84 IN.	LF	E018		STD	N	
2422-1723018	CULV UNCL RDWY PIPE 18 IN	LF	E018		STD	N	
2422-1723021	CULV UNCL RDWY PIPE, 21 IN.	LF	E018		STD	N	
2422-1723024	CULV UNCL RDWY PIPE 24 IN	LF	E018		STD	N	
2422-1723030	CULV UNCL RDWY PIPE 30 IN	LF	E018		STD	N	
2422-1723036	CULV UNCL RDWY PIPE 36 IN	LF	E018		STD	N	
2422-1723042	CULV UNCL RDWY PIPE 42 IN	LF	E018		STD	N	
2422-1723048	CULV UNCL RDWY PIPE 48 IN	LF	E018		STD	N	
2422-1723054	CULV UNCL RDWY PIPE 54 IN	LF	E018		STD	N	
2422-1723060	CULV UNCL RDWY PIPE 60 IN	LF	E018		STD	N	
2422-1723066	CULV UNCL RDWY PIPE, 66 IN.	LF	E018		STD	N	
2422-1723072	CULV UNCL RDWY PIPE 72 IN	LF	E018		STD	N	
2422-1723078	CULV UNCL RDWY PIPE, 78 IN.	LF	E018		STD	N	
2422-1723084	CULV UNCL RDWY PIPE 84 IN	LF	E018		STD	N	
2423-0001000	ROADSIDE DYNAMIC MESSAGE SIGN (D.M.S.) SUPPORT	EACH	E039		SBP	N	
2423-0001001	ROADSIDE DYNAMIC MESSAGE SIGN (D.M.S.), INSTALL	EACH	E039		PLAN	N	
2423-0001010	DYNAMIC MESSAGE SIGN (D.M.S.) INSTALLATION	EACH	E039		SP2	N	
2423-1010500	O'HD SIGN SUPPORT STRUCTURE, ALUMINUM SUPERSTRUCTURE, 50 FT. SPAN	EACH	E039		STD4	N	
2423-1010550	O'HD SIGN SUPPORT STRUCTURE, ALUMINUM SUPERSTRUCTURE, 55 FT. SPAN	EACH	E039		STD4	N	
2423-1010600	O'HD SIGN SUPPORT STRUCTURE, ALUMINUM SUPERSTRUCTURE, 60 FT. SPAN	EACH	E039		STD4	N	
2423-1010650	O'HD SIGN SUPPORT STRUCTURE, ALUMINUM SUPERSTRUCTURE, 65 FT. SPAN	EACH	E039		STD4	N	

Item Code	Description	Units	Form	Support Forms	Meas/ Pay	Plan Quantity N	Plan Quantity Y
2423-1010700	O'HD SIGN SUPPORT STRUCTURE, ALUMINUM SUPERSTRUCTURE, 70 FT. SPAN	EACH	E039		STD4	N	
2423-1010750	O'HD SIGN SUPPORT STRUCTURE, ALUMINUM SUPERSTRUCTURE, 75 FT. SPAN	EACH	E039		STD4	N	
2423-1010800	O'HD SIGN SUPPORT STRUCTURE, ALUMINUM SUPERSTRUCTURE, 80 FT. SPAN	EACH	E039		STD4	N	
2423-1010850	O'HD SIGN SUPPORT STRUCTURE, ALUMINUM SUPERSTRUCTURE, 85 FT. SPAN	EACH	E039		STD4	N	
2423-1010900	O'HD SIGN SUPPORT STRUCTURE, ALUMINUM SUPERSTRUCTURE, 90 FT. SPAN	EACH	E039		STD4	N	
2423-1010950	O'HD SIGN SUPPORT STRUCTURE, ALUMINUM SUPERSTRUCTURE, 95 FT. SPAN	EACH	E039		STD4	N	
2423-1011000	O'HD SIGN SUPPORT STRUCTURE, ALUMINUM SUPERSTRUCTURE, 100 FT. SPAN	EACH	E039		STD4	N	
2423-1050330	O'HD SIGN SUPPORT STRUCTURE, CANTILEVERED, 33 Ft. ARM	EACH	E039		STD4	N	
2423-1050340	O'HD SIGN SUPPORT STRUCTURE, CANTILEVERED, 34 Ft. ARM	EACH	E039		STD4	N	
2423-1050350	O'HD SIGN SUPPORT STRUCTURE, CANTILEVERED, 35 Ft. ARM	EACH	E039		STD4	N	
2423-1060050	STEEL OVERHEAD SIGN TRUSS, 50 FT. SPAN	EACH	E039		STD4	N	
2423-1060055	STEEL OVERHEAD SIGN TRUSS, 55 FT. SPAN	EACH	E039		STD4	N	
2423-1060060	STEEL OVERHEAD SIGN TRUSS, 60 FT. SPAN	EACH	E039		STD4	N	
2423-1060065	STEEL OVERHEAD SIGN TRUSS, 65 FT. SPAN	EACH	E039		STD4	N	
2423-1060070	STEEL OVERHEAD SIGN TRUSS, 70 FT. SPAN	EACH	E039		STD4	N	
2423-1060075	STEEL OVERHEAD SIGN TRUSS, 75 FT. SPAN	EACH	E039		STD4	N	
2423-1060080	STEEL OVERHEAD SIGN TRUSS, 80 FT. SPAN	EACH	E039		STD4	N	
2423-1060085	STEEL OVERHEAD SIGN TRUSS, 85 FT. SPAN	EACH	E039		STD4	N	
2423-1060090	STEEL OVERHEAD SIGN TRUSS, 90 FT. SPAN	EACH	E039		STD4	N	
2423-1060095	STEEL OVERHEAD SIGN TRUSS, 95 FT. SPAN	EACH	E039		STD4	N	
2423-1060100	STEEL OVERHEAD SIGN TRUSS, 100 FT. SPAN	EACH	E039		STD4	N	
2423-1060105	STEEL OVERHEAD SIGN TRUSS, 105 FT. SPAN	EACH	E039		STD4	N	
2423-1060110	STEEL OVERHEAD SIGN TRUSS, 110 FT. SPAN	EACH	E039		STD4	N	
2423-1060115	STEEL OVERHEAD SIGN TRUSS, 115 FT. SPAN	EACH	E039		STD4	N	
2423-1060120	STEEL OVERHEAD SIGN TRUSS, 120 FT. SPAN	EACH	E039		STD4	N	
2423-1060125	STEEL OVERHEAD SIGN TRUSS, 125 FT. SPAN	EACH	E039		STD4	N	
2423-1060130	STEEL OVERHEAD SIGN TRUSS, 130 FT. SPAN	EACH	E039		STD4	N	
2423-9070000	BRIDGE-MOUNTED SIGN SUPPORT MODIFICATION	EACH	E039		PLAN	N	
2423-9070012	BRIDGE-MOUNTED SIGN SUPPORT, 2 BRACKET, STEEL	EACH	E039		PLAN	N	
2423-9070013	BRIDGE-MOUNTED SIGN SUPPORT, 3 BRACKET, STEEL	EACH	E039		PLAN	N	
2423-9070014	BRIDGE-MOUNTED SIGN SUPPORT, 4 BRACKET, STEEL	EACH	E039		PLAN	N	
2423-9300000	BRACKET ASSEMBLY, LIGHT POLE	EACH	E039	E145	PLAN	N	
2424-6772250	SHOTCRETE	SF	E002		STD	N	
2426-2629000	EPOXY	GAL	E001		PLAN	N	
2426-6772010	BEAM REPAIR, AS PER PLAN	LS	E005		PLAN		Y
2426-6772011	BEAM REPAIR, AS PER PLAN	SF	E002		PLAN	N	
2426-6772013	REPAIR BEAM ENDS	EACH	E039		PLAN	N	
2426-6772016	CONCRETE REPAIR	SF	E002		STD	N	
2426-6772020	PARTIAL DEPTH BRIDGE DECK FINISH PATCH	SF	E002		DS	N	
2426-6772120	BRIDGE REPAIR	LS	E005		PLAN		Y
2427-0686010	BRIGE CLEANING	LS	E005		STD		Y
2429-0000100	PRE-ENGINEERED STEEL TRUSS TRAIL BRIDGE	EACH	E039		STD	N	
2430-0000100	MODULAR BLOCK RETAINING WALL	SF	E002		STD	N	
2431-0000100	SEGMENTAL BLOCK RETAINING WALL	SF	E002		STD	N	
2432-0000100	MECHANICALLY STABILIZED EARTH RETAINING WALL	SF	E002		STD	N	
2433-0001024	CONCRETE DRILLED SHAFT, 24 IN. DIAMETER	LF	E039	E145	STD	N	
2433-0001030	CONCRETE DRILLED SHAFT, 30 IN. DIAMETER	LF	E039	E145	STD	N	
2433-0001036	CONCRETE DRILLED SHAFT, 36 IN. DIAMETER	LF	E039	E145	STD	N	
2433-0001042	CONCRETE DRILLED SHAFT, 42 IN. DIAMETER	LF	E039	E145	STD	N	
2433-0001048	CONCRETE DRILLED SHAFT, 48 IN. DIAMETER	LF	E039	E145	STD	N	
2433-0001054	CONCRETE DRILLED SHAFT, 54 IN. DIAMETER	LF	E039	E145	STD	N	
2433-0001060	CONCRETE DRILLED SHAFT, 60 IN. DIAMETER	LF	E039	E145	STD	N	
2433-0001072	CONCRETE DRILLED SHAFT, 72 IN. DIAMETER	LF	E039	E145	STD	N	
2433-0001078	CONCRETE DRILLED SHAFT, 78 IN. DIAMETER	LF	E039	E145	STD	N	
2433-0002000	LOAD CELL TEST	EACH	E039		STD	N	
2433-0003000	DEMONSTRATION SHAFT	LF	E039	E145	STD	N	
2434-0000100	DISC BEARING ASSEMBLIES	EACH	E039		STD		Y
2435-0130148	MANHOLE, SANITARY SEWER, SW-301, 48 IN.	EACH	E039	E132 E145	STD	N	
2435-0130160	MANHOLE, SANITARY SEWER, SW-301, 60 IN.	EACH	E039	E132 E145	STD	N	
2435-0130172	MANHOLE, SANITARY SEWER, SW-301, 72 IN.	EACH	E039	E132 E145	STD	N	
2435-0130184	MANHOLE, SANITARY SEWER, SW-301, 84 IN.	EACH	E039	E132 E145	STD	N	
2435-0130196	MANHOLE, SANITARY SEWER, SW-301, 96 IN.	EACH	E039	E132 E145	STD	N	
2435-0130200	MANHOLE, SANITARY SEWER, SW-302	EACH	E039	E132 E145	STD	N	
2435-0130202	MANHOLE, SANITARY SEWER, SW-302, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0130204	MANHOLE, SANITARY SEWER, SW-302, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0130210	MANHOLE, SANITARY SEWER, SW-302 MODIFIED	EACH	E039	E132 E145	STD	N	
2435-0130212	MANHOLE, SANITARY SEWER, SW-302 MODIFIED, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0130214	MANHOLE, SANITARY SEWER, SW-302 MODIFIED, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0130348	MANHOLE, SANITARY SEWER, SW-303, 48 IN.	EACH	E039	E132 E145	STD	N	
2435-0130360	MANHOLE, SANITARY SEWER, SW-303, 60 IN.	EACH	E039	E132 E145	STD	N	
2435-0130372	MANHOLE, SANITARY SEWER, SW-303, 72 IN.	EACH	E039	E132 E145	STD	N	
2435-0130384	MANHOLE, SANITARY SEWER, SW-303, 84 IN.	EACH	E039	E132 E145	STD	N	
2435-0130396	MANHOLE, SANITARY SEWER, SW-303, 96 IN.	EACH	E039	E132 E145	STD	N	
2435-0130400	MANHOLE, SANITARY SEWER, SW-304	EACH	E039	E132 E145	STD	N	
2435-0130402	MANHOLE, SANITARY SEWER, SW-304, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0130404	MANHOLE, SANITARY SEWER, SW-304, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0130410	MANHOLE, SANITARY SEWER, SW-304 MODIFIED	EACH	E039	E132 E145	STD	N	
2435-0130412	MANHOLE, SANITARY SEWER, SW-304 MODIFIED, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0130414	MANHOLE, SANITARY SEWER, SW-304 MODIFIED, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0130500	MANHOLE, SANITARY SEWER, SW-305	EACH	E039	E132 E145	STD	N	
2435-0140148	MANHOLE, STORM SEWER, SW-401, 48 IN.	EACH	E039	E132 E145	STD	N	
2435-0140160	MANHOLE, STORM SEWER, SW-401, 60 IN.	EACH	E039	E132 E145	STD	N	
2435-0140172	MANHOLE, STORM SEWER, SW-401, 72 IN.	EACH	E039	E132 E145	STD	N	
2435-0140184	MANHOLE, STORM SEWER, SW-401, 84 IN.	EACH	E039	E132 E145	STD	N	
2435-0140196	MANHOLE, STORM SEWER, SW-401, 96 IN.	EACH	E039	E132 E145	STD	N	
2435-0140200	MANHOLE, STORM SEWER, SW-402	EACH	E039	E132 E145	STD	N	
2435-0140202	MANHOLE, STORM SEWER, SW-402, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0140204	MANHOLE, STORM SEWER, SW-402, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0140210	MANHOLE, STORM SEWER, SW-402 MODIFIED	EACH	E039	E132 E145	STD	N	
2435-0140212	MANHOLE, STORM SEWER, SW-402 MODIFIED, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0140214	MANHOLE, STORM SEWER, SW-402 MODIFIED, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0140300	MANHOLE, STORM SEWER, SW-403	EACH	E039	E132 E145	STD	N	
2435-0140302	MANHOLE, STORM SEWER, SW-403, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0140304	MANHOLE, STORM SEWER, SW-403, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0140310	MANHOLE, STORM SEWER, SW-403 MODIFIED	EACH	E039	E132 E145	STD	N	

Item Code	Description	Units	Form	Support Forms	Meas/ Pay	Plan Quantity N	Plan Quantity Y
2435-0140312	MANHOLE, STORM SEWER, SW-403 MODIFIED, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0140314	MANHOLE, STORM SEWER, SW-403 MODIFIED, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0140400	MANHOLE, STORM SEWER, SW-404	EACH	E039	E132 E145	STD	N	
2435-0140402	MANHOLE, STORM SEWER, SW-404, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0140404	MANHOLE, STORM SEWER, SW-404, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0140410	MANHOLE, STORM SEWER, SW-404 MODIFIED	EACH	E039	E132 E145	STD	N	
2435-0140412	MANHOLE, STORM SEWER, SW-404 MODIFIED, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0140414	MANHOLE, STORM SEWER, SW-404 MODIFIED, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0140500	MANHOLE, STORM SEWER, SW-405	EACH	E039	E132 E145	STD	N	
2435-0250100	INTAKE, SW-501	EACH	E039	E132 E145	STD	N	
2435-0250102	INTAKE, SW-501, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0250104	INTAKE, SW-501, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0250110	INTAKE, SW-501 MODIFIED	EACH	E039	E132 E145	STD	N	
2435-0250112	INTAKE, SW-501 MODIFIED, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0250114	INTAKE, SW-501 MODIFIED, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0250200	INTAKE, SW-502	EACH	E039	E132 E145	STD	N	
2435-0250202	INTAKE, SW-502, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0250204	INTAKE, SW-502, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0250210	INTAKE, SW-502 MODIFIED	EACH	E039	E132 E145	STD	N	
2435-0250212	INTAKE, SW-502 MODIFIED, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0250214	INTAKE, SW-502 MODIFIED, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0250248	INTAKE, SW-502, 48 IN.	EACH	E039	E132 E145	STD	N	
2435-0250260	INTAKE, SW-502, 60 IN.	EACH	E039	E132 E145	STD	N	
2435-0250272	INTAKE, SW-502, 72 IN.	EACH	E039	E132 E145	STD	N	
2435-0250284	INTAKE, SW-502, 84 IN.	EACH	E039	E132 E145	STD	N	
2435-0250296	INTAKE, SW-502, 96 IN.	EACH	E039	E132 E145	STD	N	
2435-0250300	INTAKE, SW-503	EACH	E039	E132 E145	STD	N	
2435-0250302	INTAKE, SW-503, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0250304	INTAKE, SW-503, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0250310	INTAKE, SW-503 MODIFIED	EACH	E039	E132 E145	STD	N	
2435-0250312	INTAKE, SW-503 MODIFIED, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0250314	INTAKE, SW-503 MODIFIED, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0250400	INTAKE, SW-504	EACH	E039	E132 E145	STD	N	
2435-0250402	INTAKE, SW-504, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0250404	INTAKE, SW-504, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0250410	INTAKE, SW-504 MODIFIED	EACH	E039	E132 E145	STD	N	
2435-0250412	INTAKE, SW-504 MODIFIED, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0250414	INTAKE, SW-504 MODIFIED, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0250500	INTAKE, SW-505	EACH	E039	E132 E145	STD	N	
2435-0250502	INTAKE, SW-505, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0250504	INTAKE, SW-505, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0250510	INTAKE, SW-505 MODIFIED	EACH	E039	E132 E145	STD	N	
2435-0250512	INTAKE, SW-505 MODIFIED, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0250514	INTAKE, SW-505 MODIFIED, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0250600	INTAKE, SW-506	EACH	E039	E132 E145	STD	N	
2435-0250602	INTAKE, SW-506, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0250604	INTAKE, SW-506, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0250610	INTAKE, SW-506 MODIFIED	EACH	E039	E132 E145	STD	N	
2435-0250612	INTAKE, SW-506 MODIFIED, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0250614	INTAKE, SW-506 MODIFIED, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0250700	INTAKE, SW-507	EACH	E039	E132 E145	STD	N	
2435-0250702	INTAKE, SW-507, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0250704	INTAKE, SW-507, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0250710	INTAKE, SW-507 MODIFIED	EACH	E039	E132 E145	STD	N	
2435-0250712	INTAKE, SW-507 MODIFIED, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0250714	INTAKE, SW-507 MODIFIED, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0250800	INTAKE, SW-508	EACH	E039	E132 E145	STD	N	
2435-0250802	INTAKE, SW-508, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0250804	INTAKE, SW-508, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0250810	INTAKE, SW-508 MODIFIED	EACH	E039	E132 E145	STD	N	
2435-0250812	INTAKE, SW-508 MODIFIED, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0250814	INTAKE, SW-508 MODIFIED, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0250900	INTAKE, SW-509	EACH	E039	E132 E145	STD	N	
2435-0250902	INTAKE, SW-509, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0250904	INTAKE, SW-509, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0250910	INTAKE, SW-509 MODIFIED	EACH	E039	E132 E145	STD	N	
2435-0250912	INTAKE, SW-509 MODIFIED, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0250914	INTAKE, SW-509 MODIFIED, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0251000	INTAKE, SW-510	EACH	E039	E132 E145	STD	N	
2435-0251002	INTAKE, SW-510, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0251004	INTAKE, SW-510, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0251010	INTAKE, SW-510 MODIFIED	EACH	E039	E132 E145	STD	N	
2435-0251012	INTAKE, SW-510 MODIFIED, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0251014	INTAKE, SW-510 MODIFIED, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0251100	INTAKE, SW-511	EACH	E039	E132 E145	STD	N	
2435-0251102	INTAKE, SW-511, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0251104	INTAKE, SW-511, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0251110	INTAKE, SW-511 MODIFIED	EACH	E039	E132 E145	STD	N	
2435-0251112	INTAKE, SW-511 MODIFIED, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0251114	INTAKE, SW-511 MODIFIED, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0251218	INTAKE, SW-512, 18 IN.	EACH	E039	E132 E145	STD	N	
2435-0251219	INTAKE, SW-512, 18 IN., WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0251220	INTAKE, SW-512, 18 IN., TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0251224	INTAKE, SW-512, 24 IN.	EACH	E039	E132 E145	STD	N	
2435-0251225	INTAKE, SW-512, 24 IN., WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0251226	INTAKE, SW-512, 24 IN., TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0251230	INTAKE, SW-512, 30 IN.	EACH	E039	E132 E145	STD	N	
2435-0251231	INTAKE, SW-512, 30 IN., WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0251232	INTAKE, SW-512, 30 IN., TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0251236	INTAKE, SW-512, 36 IN.	EACH	E039	E132 E145	STD	N	
2435-0251237	INTAKE, SW-512, 36 IN., WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0251238	INTAKE, SW-512, 36 IN., TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0251300	INTAKE, SW-513	EACH	E039	E132 E145	STD	N	
2435-0251310	INTAKE, SW-513 MODIFIED	EACH	E039	E132 E145	STD	N	
2435-0254100	INTAKE, SW-541	EACH	E039	E132 E145	STD	N	

Item Code	Description	Units	Form	Support Forms	Meas/ Pay	Plan Quantity N	Plan Quantity Y
2435-0254102	INTAKE, SW-541, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0254104	INTAKE, SW-541, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0254110	INTAKE, SW-541 MODIFIED	EACH	E039	E132 E145	STD	N	
2435-0254112	INTAKE, SW-541 MODIFIED, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0254114	INTAKE, SW-541 MODIFIED, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0254200	INTAKE EXTENSION UNIT, SW-542	EACH	E039	E132 E145	STD	N	
2435-0254210	INTAKE EXTENSION UNIT, SW-542 MODIFIED	EACH	E039	E132 E145	STD	N	
2435-0254500	INTAKE, SW-545	EACH	E039	E132 E145	STD	N	
2435-0254502	INTAKE, SW-545, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0254504	INTAKE, SW-545, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0254510	INTAKE, SW-545 MODIFIED	EACH	E039	E132 E145	STD	N	
2435-0254512	INTAKE, SW-545 MODIFIED, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0254514	INTAKE, SW-545 MODIFIED, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0254600	INTAKE, SW-546	EACH	E039	E132 E145	STD	N	
2435-0254602	INTAKE, SW-546, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0254604	INTAKE, SW-546, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0254610	INTAKE, SW-546 MODIFIED	EACH	E039	E132 E145	STD	N	
2435-0254612	INTAKE, SW-546 MODIFIED, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0254614	INTAKE, SW-546 MODIFIED, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0254700	BARRIER INTAKE, SW-547	EACH	E039	E132 E145	STD	N	
2435-0254702	BARRIER INTAKE, SW-547, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0254704	BARRIER INTAKE, SW-547, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0254710	BARRIER INTAKE, SW-547 MODIFIED	EACH	E039	E132 E145	STD	N	
2435-0254712	BARRIER INTAKE, SW-547 MODIFIED, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0254714	BARRIER INTAKE, SW-547 MODIFIED, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0254800	BARRIER INTAKE, SW-548	EACH	E039	E132 E145	STD	N	
2435-0254802	BARRIER INTAKE, SW-548, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0254804	BARRIER INTAKE, SW-548, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0254810	BARRIER INTAKE, SW-548 MODIFIED	EACH	E039	E132 E145	STD	N	
2435-0254812	BARRIER INTAKE, SW-548 MODIFIED, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0254814	BARRIER INTAKE, SW-548 MODIFIED, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0254900	BARRIER INTAKE, SW-549	EACH	E039	E132 E145	STD	N	
2435-0254902	BARRIER INTAKE, SW-549, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0254904	BARRIER INTAKE, SW-549, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0254910	BARRIER INTAKE, SW-549 MODIFIED	EACH	E039	E132 E145	STD	N	
2435-0254912	BARRIER INTAKE, SW-549 MODIFIED, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0254914	BARRIER INTAKE, SW-549 MODIFIED, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0256200	INTAKE, SW-562	EACH	E039	E132 E145	STD	N	
2435-0256202	INTAKE, SW-562, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0256204	INTAKE, SW-562, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0256210	INTAKE, SW-562 MODIFIED	EACH	E039	E132 E145	STD	N	
2435-0256212	INTAKE, SW-562 MODIFIED, WELL ONLY	EACH	E039	E132 E145	STD	N	
2435-0256214	INTAKE, SW-562 MODIFIED, TOP ONLY	EACH	E039	E132 E145	STD	N	
2435-0400000	DROP CONNECTION, SW-307	EACH	E039	E132	STD	N	
2435-0500000	CASTING EXTENSION RINGS	EACH	E039	E132	STD	N	
2435-0600010	MANHOLE ADJUSTMENT, MINOR	EACH	E039	E132	STD	N	
2435-0600020	MANHOLE ADJUSTMENT, MAJOR	EACH	E039	E132	STD	N	
2435-0600110	INTAKE ADJUSTMENT, MINOR	EACH	E039	E132	STD	N	
2435-0600120	INTAKE ADJUSTMENT, MAJOR	EACH	E039	E132	STD	N	
2435-0700010	CONNECTION TO EXISTING MANHOLE	EACH	E039	E132	STD	N	
2435-0700020	CONNECTION TO EXISTING INTAKE	EACH	E039	E132	STD	N	
2435-0800350	TRAVEL TRAILER DUMP STATION, SW-350	EACH	E039	E132	PLAN	N	
2435-0900000	BRIDGE END DRAIN, SW-538	EACH	E039	E132	SRP	N	
2499-0100000	PIPE INSTALLED BY TRENCHLESS CONSTRUCTION	LF	E018		SP2	N	
2499-0700008	ERECT DETOUR BRIDGE UNITS	LS	E005		PLAN		Y
2499-0700009	HAUL DETOUR BRIDGE UNITS	LS	E005		PLAN		Y
2499-0700070	BRIDGE RAISING	LS	E005		PLAN		Y
2499-0800000	PAVING NOTCH REPLACEMENT	LF	E039		PLAN	N	
2499-0926010	CRUSHED BRICK	TON	E007		PLAN	N	
2499-2300001	DECK DRAINS	LS	E005		PLAN		Y
2499-2300002	BRIDGE DRAINAGE SYSTEM	LS	E005		PLAN		Y
2499-2300026	DRAIN EXTENSIONS	EACH	E039		PLAN	N	
2499-3575000	SPECIAL FLUME	EACH	E039		PLAN	N	
2499-4000036	SLIPLINING EXIST. CULVERTS, LESS THAN OR EQUAL TO 36" IN.DIA. OR HEIGHT	LF	E039		DS		Y
2499-4000136	SLIPLINING EXIST. CULVERTS, GREATER THAN 36 IN. DIA.OR HEIGHT	LF	E039		DS		Y
2499-6000000	BAFFLE OR WEIR FOR RCB CULV.	LF	E018		PLAN	N	
2499-6000100	CLEAN OUT PIPE CULVERT	LF	E018		PLAN	N	
2499-6000200	SEALER COAT FOR PRESTRESSED CONCRETE BEAM ENDS	EACH	E039		PLAN	N	
2499-9000000	MODULAR EXPANSION JOINT ASSEMBLY	LF	E039		DS		Y
2499-9000100	MODULAR EXPANSION JOINT ASSEMBLY LEAK TESTING	EACH	E039		DS		Y
2501-0100010	PILES, WOOD (TREATED TIMBER FOUNDATION PILES)	LF	E039		STD		Y
2501-0100020	PILES, OVERSIZE WOOD (TREATED TIMBER FOUNDATON PILES)	LF	E039		STD		Y
2501-0100030	PILES, WOOD (TREATED TIMBER TRESTLE PILES)	LF	E039		STD		Y
2501-0100040	PILES, OVERSIZE WOOD (TREATED TIMBER TRESTLE PLIES)	LF	E039		STD		Y
2501-0200836	PILES, STEEL, HP 8 X 36	LF	E039		STD		Y
2501-0201042	PILES, STEEL, HP 10 X 42	LF	E039		STD		Y
2501-0201057	PILES, STEEL, HP 10 X 57	LF	E039		STD		Y
2501-0201253	PILES, STEEL, HP 12 X 53	LF	E039		STD		Y
2501-0201263	PILES, STEEL, HP 12 X 63	LF	E039		STD		Y
2501-0201274	PILES, STEEL, HP 12 X 74	LF	E039		STD		Y
2501-0201284	PILES, STEEL, HP 12 X 84	LF	E039		STD		Y
2501-0201473	PILES, STEEL, HP 14 X 73	LF	E039		STD		Y
2501-0201489	PILES, STEEL, HP 14 X 89	LF	E039		STD		Y
2501-0201502	PILES, STEEL, HP 14 X 102	LF	E039		STD		Y
2501-0201517	PILES, STEEL, HP 14 X 117	LF	E039		STD		Y
2501-0301014	PILES, STEEL PIPE, 14 IN. (P10A TYPE 1)	LF	E039		STD		Y
2501-0301016	PILES, STEEL PIPE, 16 IN. (P10A TYPE 1)	LF	E039		STD		Y
2501-0308014	PILES, STEEL PIPE, 14 IN. (P10L TYPE 1)	LF	E039		STD		Y
2501-0308016	PILES, STEEL PIPE, 16 IN. (P10L TYPE 1)	LF	E039		STD		Y
2501-2500010	DYNAMIC PILE TEST	LS	E021		STD		Y
2501-5374050	PILE LOAD TESTS	LS	E021		STD		Y
2501-5374060	TEST PILE	LS	E021		STD		Y
2501-5475042	CONCRETE ENCASEMENT OF STEEL H PILES, HP 10 X 42(P10A TYPE 3)	LF	E039	E115	STD	N	
2501-5475053	CONCRETE ENCASEMENT OF STEEL H PILES, HP 12 X 53(P10A TYPE 3)	LF	E039	E115	STD	N	
2501-5476057	CONCRETE ENCASEMENT OF STEEL H PILES, HP 10 X 57(P10A TYPE 3)	LF	E039	E115	STD	N	

Item Code	Description	Units	Form	Support Forms	Meas/ Pay	Plan Quantity N	Plan Quantity Y
2501-5478042	CONCRETE ENCASEMENT OF STEEL H PILES, HP 10 X 42(P10L TYPE 3	LF	E039	E115	STD	N	
2501-5478053	CONCRETE ENCASEMENT OF STEEL H PILES, HP 12 X 53(P10L TYPE 3	LF	E039	E115	STD	N	
2501-5478057	CONCRETE ENCASEMENT OF STEEL H PILES, HP 10 X 57(P10L TYPE 3	LF	E039	E115	STD	N	
2501-5478073	CONCRETE ENCASEMENT OF STEEL H PILES, HP 14 X 73(P10L TYPE 3	LF	E039	E115	STD	N	
2501-5478089	CONCRETE ENCASEMENT OF STEEL H PILES, HP 14 X 89(P10L TYPE 3	LF	E039	E115	STD	N	
2501-5650212	PILES, PRESTRESSED CONCRETE, 12 IN. (BR.STD. 1046)	LF	E039		STD		Y
2501-5650214	PILES, PRESTRESSED CONCRETE, 14 IN. (P10A TYPE 2	LF	E039		STD		Y
2501-5650216	PILES, PRESTRESSED CONCRETE, 16 IN. (P10A TYPE 2	LF	E039		STD		Y
2501-5658214	PILES, PRESTRESSED CONCRETE, 14 IN. (P10L TYPE 2)	LF	E039		STD		Y
2501-5658216	PILES, PRESTRESSED CONCRETE, 16 IN. (P10L TYPE 2)	LF	E039		STD		Y
2501-5774000	PILES CONCRETE SHEET	SF	E002		STD	N	
2501-5775000	PILING STEEL SHEET	SF	E002		STD	N	
2501-6335010	PREBORED HOLES	LF	E039		STD	N	
2501-8400170	TEMP SHEET PILING + SHORING	LS	E005		PLAN		Y
2501-8400171	TEMP SHEET PILE RETAIN WALL	LS	E005		PLAN		Y
2501-8400172	TEMPORARY SHORING	LS	E005		PLAN		Y
2501-8400179	TEMP SUPPORTS	LS	E005		PLAN		Y
2502-2301000	FIN DRAIN, AS PER PLAN	LF	E001		PLAN	N	
2502-2308100	TRENCH DRAIN	LF	E001		STD	N	
2502-2308110	CONTINUOUS TRENCH DRAIN (500-20)	LF	E001		PLAN	N	
2502-4388050	INTAKE STANDPIPE, AS PER PLAN	EACH	E039		STD	N	
2502-4388106	INTAKE STANDPIPE 6 IN, AS PER PLAN	EACH	E039		STD	N	
2502-4388108	INTAKE STANDPIPE 8 IN, AS PER PLAN	EACH	E039		STD	N	
2502-6745952	RMVL OF SUBDRAIN	LF	E001		PLAN	N	
2502-8212024	SUBDRAIN LONGITUDINAL (BACKSLOPE) 4IN	LF	E022		STD	N	
2502-8212026	SUBDRAIN LONGITUDINAL (BACKSLOPE) 6IN	LF	E022		STD	N	
2502-8212034	SUBDRAIN LONGITUDINAL (SHLD) 4 IN	LF	E022		STD	N	
2502-8212036	SUBDRAIN LONGITUDINAL (SHLD) 6 IN	LF	E022		STD	N	
2502-8212104	SUBDRAIN PLASTIC PIPE 4 IN	LF	E001		STD	N	
2502-8212106	SUBDRAIN PLASTIC PIPE 6 IN	LF	E001		STD	N	
2502-8212108	SUBDRAIN PLASTIC PIPE 8 IN	LF	E001		STD	N	
2502-8212110	SUBDRAIN PLASTIC PIPE 10 IN	LF	E001		STD	N	
2502-8212112	SUBDRAIN PLASTIC PIPE 12 IN	LF	E001		STD	N	
2502-8212115	SUBDRAIN PLASTIC PIPE 15 IN	LF	E001		STD	N	
2502-8212118	SUBDRAIN PLASTIC PIPE 18 IN	LF	E001		STD	N	
2502-8212204	SUBDRAIN PERFORATED PLASTIC PIPE 4 IN	LF	E001		STD	N	
2502-8212206	SUBDRAIN PERFORATED PLASTIC PIPE 6 IN	LF	E001		STD	N	
2502-8212208	SUBDRAIN PERFORATED PLASTIC PIPE 8 IN	LF	E001		STD	N	
2502-8212210	SUBDRAIN PERFORATED PLASTIC PIPE 10 IN	LF	E001		STD	N	
2502-8212212	SUBDRAIN PERFORATED PLASTIC PIPE 12 IN	LF	E001		STD	N	
2502-8212304	SUBDRAIN STD PERFORATED 4 IN, AS PER PLAN	LF	E001		STD	N	
2502-8212306	SUBDRAIN STD PERFORATED 6 IN, AS PER PLAN	LF	E001		STD	N	
2502-8212308	SUBDRAIN STD PERFORATED 8 IN, ASPER PLAN	LF	E001		STD	N	
2502-8212310	SUBDRAIN, STD, PERFORATED, 10 IN AS PER PLAN	LF	E001		STD	N	
2502-8212312	SUBDRAIN, STD, PERFORATED, 12 IN AS PER PLAN	LF	E001		STD	N	
2502-8212404	SUBDRAIN STD NON-PERFORATED 4 IN AS PER PLAN	LF	E001		STD	N	
2502-8212406	SUBDRAIN STD NON-PERFORATED 6 IN AS PER PLAN	LF	E001		STD	N	
2502-8212408	SUBDRAIN STD NON-PERFORATED 8 IN AS PER PLAN	LF	E001		STD	N	
2502-8212410	SUBDRAIN STD NON-PERFORATED 10 IN AS PER PLAN	LF	E001		STD	N	
2502-8212415	SUBDRAIN STD NON-PERFORATED 15 IN AS PER PLAN	LF	E001		STD	N	
2502-8213104	SUBDRAIN PVC 4 IN STD NON-PERFORATED	LF	E001		STD	N	
2502-8213106	SUBDRAIN PVC 6 IN STD NON-PERFORATED	LF	E001		STD	N	
2502-8213108	SUBDRAIN PVC 8 IN STD NON-PERFORATED	LF	E001		STD	N	
2502-8213110	SUBDRAIN PVC 10 IN STD NON-PERFORATED	LF	E001		STD	N	
2502-8213112	SUBDRAIN PVC 12 IN STD NON-PERFORATED	LF	E001		STD	N	
2502-8213204	SUBDRAIN PVC 4 IN STD PERFORATED	LF	E001		STD	N	
2502-8213206	SUBDRAIN PVC 6 IN STD PERFORATED	LF	E001		STD	N	
2502-8213208	SUBDRAIN PVC 8 IN STD PERFORATED	LF	E001		STD	N	
2502-8213210	SUBDRAIN PVC 10 IN STD PERFORATED	LF	E001		STD	N	
2502-8213212	SUBDRAIN PVC 12 IN STD PERFORATED	LF	E001		STD	N	
2502-8214512	SUBDRAIN, 1500D CONC PIPE, 12 IN	LF	E001		STD	N	
2502-8214515	SUBDRAIN, 1500D CONC PIPE, 15 IN	LF	E001		STD	N	
2502-8214518	SUBDRAIN, 1500D CONC PIPE, 18 IN	LF	E001		STD	N	
2502-8214521	SUBDRAIN, 1500D CONC PIPE, 21 IN	LF	E001		STD	N	
2502-8214524	SUBDRAIN, 1500D CONC PIPE, 24 IN	LF	E001		STD	N	
2502-8214530	SUBDRAIN, 1500D CONC PIPE, 30 IN	LF	E001		STD	N	
2502-8214536	SUBDRAIN, 1500D CONC PIPE, 36 IN	LF	E001		STD	N	
2502-8214542	SUBDRAIN, 1500D CONC PIPE, 42 IN	LF	E001		STD	N	
2502-8214548	SUBDRAIN, 1500D CONC PIPE, 48 IN	LF	E001		STD	N	
2502-8215012	SUBDRAIN 2000D CONC PIPE, 12 IN	LF	E001		STD	N	
2502-8215015	SUBDRAIN 2000D CONC PIPE, 15 IN	LF	E001		STD	N	
2502-8215018	SUBDRAIN 2000D CONC PIPE, 18 IN	LF	E001		STD	N	
2502-8215021	SUBDRAIN 2000D CONC PIPE, 21 IN	LF	E001		STD	N	
2502-8215024	SUBDRAIN 2000D CONC PIPE, 24 IN	LF	E001		STD	N	
2502-8215030	SUBDRAIN 2000D CONC PIPE, 30 IN	LF	E001		STD	N	
2502-8215036	SUBDRAIN 2000D CONC PIPE, 36 IN	LF	E001		STD	N	
2502-8215042	SUBDRAIN 2000D CONC PIPE, 42 IN	LF	E001		STD	N	
2502-8215048	SUBDRAIN 2000D CONC PIPE, 48 IN	LF	E001		STD	N	
2502-8215104	SUBDRAIN CMP 4 IN	LF	E001		STD	N	
2502-8215106	SUBDRAIN CMP 6 IN	LF	E001		STD	N	
2502-8215108	SUBDRAIN CMP 8 IN	LF	E001		STD	N	
2502-8215110	SUBDRAIN CMP 10 IN	LF	E001		STD	N	
2502-8215112	SUBDRAIN CMP 12 IN	LF	E001		STD	N	
2502-8215115	SUBDRAIN CMP 15 IN	LF	E001		STD	N	
2502-8215118	SUBDRAIN CMP 18 IN	LF	E001		STD	N	
2502-8215121	SUBDRAIN CMP 21 IN	LF	E001		STD	N	
2502-8215124	SUBDRAIN CMP 24 IN	LF	E001		STD	N	
2502-8215130	SUBDRAIN CMP 30 IN	LF	E001		STD	N	
2502-8215136	SUBDRAIN CMP 36 IN	LF	E001		STD	N	
2502-8215142	SUBDRAIN CMP 42 IN	LF	E001		STD	N	
2502-8215148	SUBDRAIN CMP 48 IN	LF	E001		STD	N	
2502-8215160	SUBDRAIN CMP 60 IN	LF	E001		STD	N	
2502-8215172	SUBDRAIN CMP 72 IN	LF	E001		STD	N	
2502-8215406	SUBDRAIN CMP PERFORATED 6 IN	LF	E001		STD	N	
2502-8215408	SUBDRAIN CMP PERFORATED 8 IN	LF	E001		STD	N	

Item Code	Description	Units	Form	Support Forms	Meas/ Pay	Plan Quantity N	Plan Quantity Y
2502-8215410	SUBDRAIN CMP PERFORATED 10 IN	LF	E001		STD	N	
2502-8215412	SUBDRAIN CMP PERFORATED 12 IN	LF	E001		STD	N	
2502-8215804	SUBDRAIN TILE 4 IN	LF	E001		STD	N	
2502-8215805	SUBDRAIN TILE 5 IN	LF	E001		STD	N	
2502-8215806	SUBDRAIN TILE 6 IN	LF	E001		STD	N	
2502-8215808	SUBDRAIN TILE 8 IN	LF	E001		STD	N	
2502-8215810	SUBDRAIN TILE 10 IN	LF	E001		STD	N	
2502-8215812	SUBDRAIN TILE 12 IN	LF	E001		STD	N	
2502-8215815	SUBDRAIN TILE 15 IN	LF	E001		STD	N	
2502-8215824	SUBDRAIN TILE 24 IN	LF	E001		STD	N	
2502-8215830	SUBDRAIN, TILE, 30 IN. DIA.	LF	E001		STD	N	
2502-8215836	SUBDRAIN, TILE, 36 IN. DIA.	LF	E001		STD	N	
2502-8215904	SUBDRAIN TILE EXTRA QUALITY 4 IN	LF	E001		STD	N	
2502-8215912	SUBDRAIN TILE EXTRA QUALITY 12 IN	LF	E001		STD	N	
2502-8221006	SUBDRAIN RISER 6 IN AS PER PLAN	EACH	E039		PLAN	N	
2502-8221008	SUBDRAIN RISER 8 IN AS PER PLAN	EACH	E039		PLAN	N	
2502-8221012	SUBDRAIN RISER 12 IN AS PER PLAN	EACH	E039		PLAN	N	
2502-8221303	SUBDRAIN OUTLET, DR-303	EACH	E039		STD5	N	
2502-8221304	SUBDRAIN OUTLET, DR-304	EACH	E039		STD5	N	
2502-8221305	SUBDRAIN OUTLET, DR-305	EACH	E039		STD5	N	
2503-0110008	STORM SEWER GRAVITY MAIN, TRENCHED, 8 IN.	LF	E024		STD	N	
2503-0110010	STORM SEWER GRAVITY MAIN, TRENCHED, 10 IN.	LF	E024		STD	N	
2503-0110012	STORM SEWER GRAVITY MAIN, TRENCHED, 12 IN.	LF	E024		STD	N	
2503-0110015	STORM SEWER GRAVITY MAIN, TRENCHED, 15 IN.	LF	E024		STD	N	
2503-0110018	STORM SEWER GRAVITY MAIN, TRENCHED, 18 IN.	LF	E024		STD	N	
2503-0110021	STORM SEWER GRAVITY MAIN, TRENCHED, 21 IN.	LF	E024		STD	N	
2503-0110024	STORM SEWER GRAVITY MAIN, TRENCHED, 24 IN.	LF	E024		STD	N	
2503-0110027	STORM SEWER GRAVITY MAIN, TRENCHED, 27 IN.	LF	E024		STD	N	
2503-0110030	STORM SEWER GRAVITY MAIN, TRENCHED, 30 IN.	LF	E024		STD	N	
2503-0110033	STORM SEWER GRAVITY MAIN, TRENCHED, 33 IN.	LF	E024		STD	N	
2503-0110036	STORM SEWER GRAVITY MAIN, TRENCHED, 36 IN.	LF	E024		STD	N	
2503-0110042	STORM SEWER GRAVITY MAIN, TRENCHED, 42 IN.	LF	E024		STD	N	
2503-0110048	STORM SEWER GRAVITY MAIN, TRENCHED, 48 IN.	LF	E024		STD	N	
2503-0110054	STORM SEWER GRAVITY MAIN, TRENCHED, 54 IN.	LF	E024		STD	N	
2503-0110060	STORM SEWER GRAVITY MAIN, TRENCHED, 60 IN.	LF	E024		STD	N	
2503-0111012	STORM SEWER GRAVITY MAIN, TRENCHED, HDPE PIPE, 12 IN	LF	E024		STD	N	
2503-0111015	STORM SEWER GRAVITY MAIN, TRENCHED, HDPE PIPE, 15 IN	LF	E024		STD	N	
2503-0111018	STORM SEWER GRAVITY MAIN, TRENCHED, HDPE PIPE, 18 IN	LF	E024		STD	N	
2503-0111021	STORM SEWER GRAVITY MAIN, TRENCHED, HDPE PIPE, 21 IN	LF	E024		STD	N	
2503-0111024	STORM SEWER GRAVITY MAIN, TRENCHED, HDPE PIPE, 24 IN	LF	E024		STD	N	
2503-0111027	STORM SEWER GRAVITY MAIN, TRENCHED, HDPE PIPE, 27 IN	LF	E024		STD	N	
2503-0111030	STORM SEWER GRAVITY MAIN, TRENCHED, HDPE PIPE, 30 IN	LF	E024		STD	N	
2503-0111033	STORM SEWER GRAVITY MAIN, TRENCHED, HDPE PIPE, 33 IN	LF	E024		STD	N	
2503-0111036	STORM SEWER GRAVITY MAIN, TRENCHED, HDPE PIPE, 36 IN	LF	E024		STD	N	
2503-0111042	STORM SEWER GRAVITY MAIN, TRENCHED, HDPE PIPE, 42 IN	LF	E024		STD	N	
2503-0111048	STORM SEWER GRAVITY MAIN, TRENCHED, HDPE PIPE, 48 IN	LF	E024		STD	N	
2503-0111054	STORM SEWER GRAVITY MAIN, TRENCHED, HDPE PIPE, 54 IN	LF	E024		STD	N	
2503-0111060	STORM SEWER GRAVITY MAIN, TRENCHED, HDPE PIPE, 60 IN	LF	E024		STD	N	
2503-0112008	STORM SEWER GRAVITY MAIN, TRENCHED, PVC, 8 IN.	LF	E024		STD	N	
2503-0112010	STORM SEWER GRAVITY MAIN, TRENCHED, PVC, 10 IN.	LF	E024		STD	N	
2503-0112012	STORM SEWER GRAVITY MAIN, TRENCHED, PVC, 12 IN.	LF	E024		STD	N	
2503-0112015	STORM SEWER GRAVITY MAIN, TRENCHED, PVC, 15 IN.	LF	E024		STD	N	
2503-0112018	STORM SEWER GRAVITY MAIN, TRENCHED, PVC, 18 IN.	LF	E024		STD	N	
2503-0112021	STORM SEWER GRAVITY MAIN, TRENCHED, PVC, 21 IN.	LF	E024		STD	N	
2503-0112024	STORM SEWER GRAVITY MAIN, TRENCHED, PVC, 24 IN.	LF	E024		STD	N	
2503-0112027	STORM SEWER GRAVITY MAIN, TRENCHED, PVC, 27 IN.	LF	E024		STD	N	
2503-0112030	STORM SEWER GRAVITY MAIN, TRENCHED, PVC, 30 IN.	LF	E024		STD	N	
2503-0112033	STORM SEWER GRAVITY MAIN, TRENCHED, PVC, 33 IN.	LF	E024		STD	N	
2503-0112036	STORM SEWER GRAVITY MAIN, TRENCHED, PVC, 36 IN.	LF	E024		STD	N	
2503-0112042	STORM SEWER GRAVITY MAIN, TRENCHED, PVC, 42 IN.	LF	E024		STD	N	
2503-0112048	STORM SEWER GRAVITY MAIN, TRENCHED, PVC, 48 IN.	LF	E024		STD	N	
2503-0114212	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 12 IN	LF	E024		STD	N	
2503-0114215	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 15 IN	LF	E024		STD	N	
2503-0114218	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 18 IN	LF	E024		STD	N	
2503-0114221	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 21 IN	LF	E024		STD	N	
2503-0114224	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 24 IN	LF	E024		STD	N	
2503-0114227	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 27 IN	LF	E024		STD	N	
2503-0114230	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 30 IN	LF	E024		STD	N	
2503-0114233	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 33 IN	LF	E024		STD	N	
2503-0114236	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 36 IN	LF	E024		STD	N	
2503-0114242	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 42 IN	LF	E024		STD	N	
2503-0114248	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 48 IN	LF	E024		STD	N	
2503-0114254	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 54 IN	LF	E024		STD	N	
2503-0114260	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 60 IN	LF	E024		STD	N	
2503-0114266	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 66 IN	LF	E024		STD	N	
2503-0114272	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 72 IN	LF	E024		STD	N	
2503-0114412	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 12 IN	LF	E024		STD	N	
2503-0114415	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 15 IN	LF	E024		STD	N	
2503-0114418	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 18 IN	LF	E024		STD	N	
2503-0114421	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 21 IN	LF	E024		STD	N	
2503-0114424	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 24 IN	LF	E024		STD	N	
2503-0114427	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 27 IN	LF	E024		STD	N	
2503-0114430	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 30 IN	LF	E024		STD	N	
2503-0114433	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 33 IN	LF	E024		STD	N	
2503-0114436	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 36 IN	LF	E024		STD	N	
2503-0114442	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 42 IN	LF	E024		STD	N	
2503-0114448	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 48 IN	LF	E024		STD	N	
2503-0114454	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 54 IN	LF	E024		STD	N	
2503-0114460	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 60 IN	LF	E024		STD	N	
2503-0114466	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 66 IN	LF	E024		STD	N	
2503-0114472	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 72 IN	LF	E024		STD	N	
2503-0114612	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 3750D (CLASS V), 12 IN	LF	E024		STD	N	
2503-0114615	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 3750D (CLASS V), 15 IN	LF	E024		STD	N	
2503-0114618	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 3750D (CLASS V), 18 IN	LF	E024		STD	N	
2503-0114621	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 3750D (CLASS V), 21 IN	LF	E024		STD	N	

Item Code	Description	Units	Form	Support Forms	Meas/ Pay	Plan Quantity N	Plan Quantity Y
2503-0114624	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 3750D (CLASS V), 24 IN	LF	E024		STD	N	
2503-0114627	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 3750D (CLASS V), 27 IN	LF	E024		STD	N	
2503-0114630	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 3750D (CLASS V), 30 IN	LF	E024		STD	N	
2503-0114633	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 3750D (CLASS V), 33 IN	LF	E024		STD	N	
2503-0114636	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 3750D (CLASS V), 36 IN	LF	E024		STD	N	
2503-0114642	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 3750D (CLASS V), 42 IN	LF	E024		STD	N	
2503-0114648	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 3750D (CLASS V), 48 IN	LF	E024		STD	N	
2503-0114654	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 3750D (CLASS V), 54 IN	LF	E024		STD	N	
2503-0114660	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 3750D (CLASS V), 60 IN	LF	E024		STD	N	
2503-0114666	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 3750D (CLASS V), 66 IN	LF	E024		STD	N	
2503-0114672	STORM SEWER GRAVITY MAIN, TRENCHED, RCP, 3750D (CLASS V), 72 IN	LF	E024		STD	N	
2503-0116315	STORM SEWER GRAVITY MAIN, TRENCHED, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 15 IN.	LF	E024		STD	N	
2503-0116318	STORM SEWER GRAVITY MAIN, TRENCHED, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 18 IN.	LF	E024		STD	N	
2503-0116324	STORM SEWER GRAVITY MAIN, TRENCHED, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 24 IN.	LF	E024		STD	N	
2503-0116330	STORM SEWER GRAVITY MAIN, TRENCHED, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 30 IN.	LF	E024		STD	N	
2503-0116336	STORM SEWER GRAVITY MAIN, TRENCHED, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 36 IN.	LF	E024		STD	N	
2503-0116342	STORM SEWER GRAVITY MAIN, TRENCHED, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 42 IN.	LF	E024		STD	N	
2503-0116348	STORM SEWER GRAVITY MAIN, TRENCHED, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 48 IN.	LF	E024		STD	N	
2503-0116354	STORM SEWER GRAVITY MAIN, TRENCHED, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 54 IN.	LF	E024		STD	N	
2503-0116360	STORM SEWER GRAVITY MAIN, TRENCHED, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 60 IN.	LF	E024		STD	N	
2503-0116372	STORM SEWER GRAVITY MAIN, TRENCHED, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 72 IN.	LF	E024		STD	N	
2503-0116384	STORM SEWER GRAVITY MAIN, TRENCHED, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 84 IN.	LF	E024		STD	N	
2503-0116515	STORM SEWER GRAVITY MAIN, TRENCHED, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 15 IN.	LF	E024		STD	N	
2503-0116518	STORM SEWER GRAVITY MAIN, TRENCHED, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 18 IN.	LF	E024		STD	N	
2503-0116524	STORM SEWER GRAVITY MAIN, TRENCHED, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 24 IN.	LF	E024		STD	N	
2503-0116530	STORM SEWER GRAVITY MAIN, TRENCHED, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 30 IN.	LF	E024		STD	N	
2503-0116536	STORM SEWER GRAVITY MAIN, TRENCHED, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 36 IN.	LF	E024		STD	N	
2503-0116542	STORM SEWER GRAVITY MAIN, TRENCHED, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 42 IN.	LF	E024		STD	N	
2503-0116548	STORM SEWER GRAVITY MAIN, TRENCHED, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 48 IN.	LF	E024		STD	N	
2503-0116554	STORM SEWER GRAVITY MAIN, TRENCHED, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 54 IN.	LF	E024		STD	N	
2503-0116560	STORM SEWER GRAVITY MAIN, TRENCHED, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 60 IN.	LF	E024		STD	N	
2503-0116572	STORM SEWER GRAVITY MAIN, TRENCHED, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 72 IN.	LF	E024		STD	N	
2503-0116584	STORM SEWER GRAVITY MAIN, TRENCHED, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 84 IN.	LF	E024		STD	N	
2503-0120008	STORM SEWER GRAVITY MAIN, TRENCHLESS, 8 IN	LF	E024		STD	N	
2503-0120010	STORM SEWER GRAVITY MAIN, TRENCHLESS, 10 IN.	LF	E024		STD	N	
2503-0120012	STORM SEWER GRAVITY MAIN, TRENCHLESS, 12 IN.	LF	E024		STD	N	
2503-0120015	STORM SEWER GRAVITY MAIN, TRENCHLESS, 15 IN.	LF	E024		STD	N	
2503-0120018	STORM SEWER GRAVITY MAIN, TRENCHLESS, 18 IN.	LF	E024		STD	N	
2503-0120021	STORM SEWER GRAVITY MAIN, TRENCHLESS, 21 IN.	LF	E024		STD	N	
2503-0120024	STORM SEWER GRAVITY MAIN, TRENCHLESS, 24 IN.	LF	E024		STD	N	
2503-0120027	STORM SEWER GRAVITY MAIN, TRENCHLESS, 27 IN.	LF	E024		STD	N	
2503-0120030	STORM SEWER GRAVITY MAIN, TRENCHLESS, 30 IN.	LF	E024		STD	N	
2503-0120033	STORM SEWER GRAVITY MAIN, TRENCHLESS, 33 IN.	LF	E024		STD	N	
2503-0120036	STORM SEWER GRAVITY MAIN, TRENCHLESS, 36 IN.	LF	E024		STD	N	
2503-0120042	STORM SEWER GRAVITY MAIN, TRENCHLESS, 42 IN.	LF	E024		STD	N	
2503-0120048	STORM SEWER GRAVITY MAIN, TRENCHLESS, 48 IN.	LF	E024		STD	N	
2503-0120054	STORM SEWER GRAVITY MAIN, TRENCHLESS, 54 IN.	LF	E024		STD	N	
2503-0120060	STORM SEWER GRAVITY MAIN, TRENCHLESS, 60 IN.	LF	E024		STD	N	
2503-0121012	STORM SEWER GRAVITY MAIN, TRENCHLESS, HDPE PIPE, 12 IN	LF	E024		STD	N	
2503-0121015	STORM SEWER GRAVITY MAIN, TRENCHLESS, HDPE PIPE, 15 IN	LF	E024		STD	N	
2503-0121018	STORM SEWER GRAVITY MAIN, TRENCHLESS, HDPE PIPE, 18 IN	LF	E024		STD	N	
2503-0121021	STORM SEWER GRAVITY MAIN, TRENCHLESS, HDPE PIPE, 21 IN	LF	E024		STD	N	
2503-0121024	STORM SEWER GRAVITY MAIN, TRENCHLESS, HDPE PIPE, 24 IN	LF	E024		STD	N	
2503-0121027	STORM SEWER GRAVITY MAIN, TRENCHLESS, HDPE PIPE, 27 IN	LF	E024		STD	N	
2503-0121030	STORM SEWER GRAVITY MAIN, TRENCHLESS, HDPE PIPE, 30 IN	LF	E024		STD	N	
2503-0121033	STORM SEWER GRAVITY MAIN, TRENCHLESS, HDPE PIPE, 33 IN	LF	E024		STD	N	
2503-0121036	STORM SEWER GRAVITY MAIN, TRENCHLESS, HDPE PIPE, 36 IN	LF	E024		STD	N	
2503-0121042	STORM SEWER GRAVITY MAIN, TRENCHLESS, HDPE PIPE, 42 IN	LF	E024		STD	N	
2503-0121048	STORM SEWER GRAVITY MAIN, TRENCHLESS, HDPE PIPE, 48 IN	LF	E024		STD	N	
2503-0121054	STORM SEWER GRAVITY MAIN, TRENCHLESS, HDPE PIPE, 54 IN	LF	E024		STD	N	
2503-0121060	STORM SEWER GRAVITY MAIN, TRENCHLESS, HDPE PIPE, 60 IN	LF	E024		STD	N	
2503-0122008	STORM SEWER GRAVITY MAIN, TRENCHLESS, PVC, 8 IN	LF	E024		STD	N	
2503-0122010	STORM SEWER GRAVITY MAIN, TRENCHLESS, PVC, 10 IN	LF	E024		STD	N	
2503-0122012	STORM SEWER GRAVITY MAIN, TRENCHLESS, PVC, 12 IN	LF	E024		STD	N	
2503-0122015	STORM SEWER GRAVITY MAIN, TRENCHLESS, PVC, 15 IN	LF	E024		STD	N	
2503-0122018	STORM SEWER GRAVITY MAIN, TRENCHLESS, PVC, 18 IN	LF	E024		STD	N	
2503-0122021	STORM SEWER GRAVITY MAIN, TRENCHLESS, PVC, 21 IN	LF	E024		STD	N	
2503-0122024	STORM SEWER GRAVITY MAIN, TRENCHLESS, PVC, 24 IN	LF	E024		STD	N	
2503-0122027	STORM SEWER GRAVITY MAIN, TRENCHLESS, PVC, 27 IN	LF	E024		STD	N	
2503-0122030	STORM SEWER GRAVITY MAIN, TRENCHLESS, PVC, 30 IN	LF	E024		STD	N	
2503-0122033	STORM SEWER GRAVITY MAIN, TRENCHLESS, PVC, 33 IN	LF	E024		STD	N	
2503-0122036	STORM SEWER GRAVITY MAIN, TRENCHLESS, PVC, 36 IN	LF	E024		STD	N	
2503-0122042	STORM SEWER GRAVITY MAIN, TRENCHLESS, PVC, 42 IN	LF	E024		STD	N	

Item Code	Description	Units	Form	Support Forms	Meas/ Pay	Plan Quantity N	Plan Quantity Y
2503-0122048	STORM SEWER GRAVITY MAIN, TRENCHLESS, PVC, 48 IN	LF	E024		STD	N	
2503-0124212	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 2000D (CLASS III), 12 IN	LF	E024		STD	N	
2503-0124215	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 2000D (CLASS III), 15 IN	LF	E024		STD	N	
2503-0124218	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 2000D (CLASS III), 18 IN	LF	E024		STD	N	
2503-0124221	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 2000D (CLASS III), 21 IN	LF	E024		STD	N	
2503-0124224	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 2000D (CLASS III), 24 IN	LF	E024		STD	N	
2503-0124227	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 2000D (CLASS III), 27 IN	LF	E024		STD	N	
2503-0124230	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 2000D (CLASS III), 30 IN	LF	E024		STD	N	
2503-0124233	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 2000D (CLASS III), 33 IN	LF	E024		STD	N	
2503-0124236	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 2000D (CLASS III), 36 IN	LF	E024		STD	N	
2503-0124242	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 2000D (CLASS III), 42 IN	LF	E024		STD	N	
2503-0124248	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 2000D (CLASS III), 48 IN	LF	E024		STD	N	
2503-0124254	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 2000D (CLASS III), 54 IN	LF	E024		STD	N	
2503-0124260	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 2000D (CLASS III), 60 IN	LF	E024		STD	N	
2503-0124266	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 2000D (CLASS III), 66 IN	LF	E024		STD	N	
2503-0124272	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 2000D (CLASS III), 72 IN	LF	E024		STD	N	
2503-0124412	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3000D (CLASS IV), 12 IN	LF	E024		STD	N	
2503-0124415	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3000D (CLASS IV), 15 IN	LF	E024		STD	N	
2503-0124418	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3000D (CLASS IV), 18 IN	LF	E024		STD	N	
2503-0124421	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3000D (CLASS IV), 21 IN	LF	E024		STD	N	
2503-0124424	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3000D (CLASS IV), 24 IN	LF	E024		STD	N	
2503-0124427	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3000D (CLASS IV), 27 IN	LF	E024		STD	N	
2503-0124430	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3000D (CLASS IV), 30 IN	LF	E024		STD	N	
2503-0124433	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3000D (CLASS IV), 33 IN	LF	E024		STD	N	
2503-0124436	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3000D (CLASS IV), 36 IN	LF	E024		STD	N	
2503-0124442	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3000D (CLASS IV), 42 IN	LF	E024		STD	N	
2503-0124448	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3000D (CLASS IV), 48 IN	LF	E024		STD	N	
2503-0124454	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3000D (CLASS IV), 54 IN	LF	E024		STD	N	
2503-0124460	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3000D (CLASS IV), 60 IN	LF	E024		STD	N	
2503-0124466	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3000D (CLASS IV), 66 IN	LF	E024		STD	N	
2503-0124472	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3000D (CLASS IV), 72 IN	LF	E024		STD	N	
2503-0124612	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3750D (CLASS V), 12 IN	LF	E024		STD	N	
2503-0124615	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3750D (CLASS V), 15 IN	LF	E024		STD	N	
2503-0124618	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3750D (CLASS V), 18 IN	LF	E024		STD	N	
2503-0124621	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3750D (CLASS V), 21 IN	LF	E024		STD	N	
2503-0124624	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3750D (CLASS V), 24 IN	LF	E024		STD	N	
2503-0124627	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3750D (CLASS V), 27 IN	LF	E024		STD	N	
2503-0124630	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3750D (CLASS V), 30 IN	LF	E024		STD	N	
2503-0124633	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3750D (CLASS V), 33 IN	LF	E024		STD	N	
2503-0124636	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3750D (CLASS V), 36 IN	LF	E024		STD	N	
2503-0124642	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3750D (CLASS V), 42 IN	LF	E024		STD	N	
2503-0124648	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3750D (CLASS V), 48 IN	LF	E024		STD	N	
2503-0124654	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3750D (CLASS V), 54 IN	LF	E024		STD	N	
2503-0124660	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3750D (CLASS V), 60 IN	LF	E024		STD	N	
2503-0124666	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3750D (CLASS V), 66 IN	LF	E024		STD	N	
2503-0124672	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3750D (CLASS V), 72 IN	LF	E024		STD	N	
2503-0126315	STORM SEWER GRAVITY MAIN, TRENCHLESS, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 15 IN.	LF	E024		STD	N	
2503-0126318	STORM SEWER GRAVITY MAIN, TRENCHLESS, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 18 IN.	LF	E024		STD	N	
2503-0126324	STORM SEWER GRAVITY MAIN, TRENCHLESS, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 24 IN.	LF	E024		STD	N	
2503-0126330	STORM SEWER GRAVITY MAIN, TRENCHLESS, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 30 IN.	LF	E024		STD	N	
2503-0126336	STORM SEWER GRAVITY MAIN, TRENCHLESS, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 36 IN.	LF	E024		STD	N	
2503-0126342	STORM SEWER GRAVITY MAIN, TRENCHLESS, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 42 IN.	LF	E024		STD	N	
2503-0126348	STORM SEWER GRAVITY MAIN, TRENCHLESS, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 48 IN.	LF	E024		STD	N	
2503-0126354	STORM SEWER GRAVITY MAIN, TRENCHLESS, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 54 IN.	LF	E024		STD	N	
2503-0126360	STORM SEWER GRAVITY MAIN, TRENCHLESS, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 60 IN.	LF	E024		STD	N	
2503-0126372	STORM SEWER GRAVITY MAIN, TRENCHLESS, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 72 IN.	LF	E024		STD	N	
2503-0126384	STORM SEWER GRAVITY MAIN, TRENCHLESS, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 84 IN.	LF	E024		STD	N	
2503-0126515	STORM SEWER GRAVITY MAIN, TRENCHLESS, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 15 IN.	LF	E024		STD	N	
2503-0126518	STORM SEWER GRAVITY MAIN, TRENCHLESS, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 18 IN.	LF	E024		STD	N	
2503-0126524	STORM SEWER GRAVITY MAIN, TRENCHLESS, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 24 IN.	LF	E024		STD	N	
2503-0126530	STORM SEWER GRAVITY MAIN, TRENCHLESS, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 30 IN.	LF	E024		STD	N	
2503-0126536	STORM SEWER GRAVITY MAIN, TRENCHLESS, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 36 IN.	LF	E024		STD	N	
2503-0126542	STORM SEWER GRAVITY MAIN, TRENCHLESS, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 42 IN.	LF	E024		STD	N	
2503-0126548	STORM SEWER GRAVITY MAIN, TRENCHLESS, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 48 IN.	LF	E024		STD	N	
2503-0126554	STORM SEWER GRAVITY MAIN, TRENCHLESS, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 54 IN.	LF	E024		STD	N	
2503-0126560	STORM SEWER GRAVITY MAIN, TRENCHLESS, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 60 IN.	LF	E024		STD	N	
2503-0126572	STORM SEWER GRAVITY MAIN, TRENCHLESS, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 72 IN.	LF	E024		STD	N	
2503-0126584	STORM SEWER GRAVITY MAIN, TRENCHLESS, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 84 IN.	LF	E024		STD	N	
2503-0130008	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 8 IN	LF	E024		STD	N	
2503-0130010	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 10 IN	LF	E024		STD	N	
2503-0130012	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 12 IN	LF	E024		STD	N	
2503-0130015	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 15 IN	LF	E024		STD	N	
2503-0130018	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 18 IN	LF	E024		STD	N	

Item Code	Description	Units	Form	Support Forms	Meas/ Pay	Plan Quantity N	Plan Quantity Y
2503-0130021	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 21 IN	LF	E024		STD	N	
2503-0130024	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 24 IN	LF	E024		STD	N	
2503-0130027	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 27 IN	LF	E024		STD	N	
2503-0130030	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 30 IN	LF	E024		STD	N	
2503-0130033	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 33 IN	LF	E024		STD	N	
2503-0130036	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 36 IN	LF	E024		STD	N	
2503-0130042	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 42 IN	LF	E024		STD	N	
2503-0130048	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 48 IN	LF	E024		STD	N	
2503-0130054	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 54 IN	LF	E024		STD	N	
2503-0130060	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 60 IN	LF	E024		STD	N	
2503-0131012	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, HDPE PIPE, 12 IN	LF	E024		STD	N	
2503-0131015	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, HDPE PIPE, 15 IN	LF	E024		STD	N	
2503-0131018	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, HDPE PIPE, 18 IN	LF	E024		STD	N	
2503-0131021	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, HDPE PIPE, 21 IN	LF	E024		STD	N	
2503-0131024	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, HDPE PIPE, 24 IN	LF	E024		STD	N	
2503-0131027	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, HDPE PIPE, 27 IN	LF	E024		STD	N	
2503-0131030	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, HDPE PIPE, 30 IN	LF	E024		STD	N	
2503-0131033	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, HDPE PIPE, 33 IN	LF	E024		STD	N	
2503-0131036	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, HDPE PIPE, 36 IN	LF	E024		STD	N	
2503-0131042	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, HDPE PIPE, 42 IN	LF	E024		STD	N	
2503-0131048	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, HDPE PIPE, 48 IN	LF	E024		STD	N	
2503-0131054	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, HDPE PIPE, 54 IN	LF	E024		STD	N	
2503-0131060	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, HDPE PIPE, 60 IN	LF	E024		STD	N	
2503-0132008	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, PVC, 8 IN	LF	E024		STD	N	
2503-0132010	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, PVC, 10 IN	LF	E024		STD	N	
2503-0132012	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, PVC, 12 IN	LF	E024		STD	N	
2503-0132015	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, PVC, 15 IN	LF	E024		STD	N	
2503-0132018	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, PVC, 18 IN	LF	E024		STD	N	
2503-0132021	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, PVC, 21 IN	LF	E024		STD	N	
2503-0132024	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, PVC, 24 IN	LF	E024		STD	N	
2503-0132027	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, PVC, 27 IN	LF	E024		STD	N	
2503-0132030	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, PVC, 30 IN	LF	E024		STD	N	
2503-0132033	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, PVC, 33 IN	LF	E024		STD	N	
2503-0132036	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, PVC, 36 IN	LF	E024		STD	N	
2503-0132042	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, PVC, 42 IN	LF	E024		STD	N	
2503-0132048	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, PVC, 48 IN	LF	E024		STD	N	
2503-0134212	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 2000D (CLASS III), 12 IN	LF	E024		STD	N	
2503-0134215	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 2000D (CLASS III), 15 IN	LF	E024		STD	N	
2503-0134218	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 2000D (CLASS III), 18 IN	LF	E024		STD	N	
2503-0134221	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 2000D (CLASS III), 21 IN	LF	E024		STD	N	
2503-0134224	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 2000D (CLASS III), 24 IN	LF	E024		STD	N	
2503-0134227	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 2000D (CLASS III), 27 IN	LF	E024		STD	N	
2503-0134230	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 2000D (CLASS III), 30 IN	LF	E024		STD	N	
2503-0134233	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 2000D (CLASS III), 33 IN	LF	E024		STD	N	
2503-0134236	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 2000D (CLASS III), 36 IN	LF	E024		STD	N	
2503-0134242	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 2000D (CLASS III), 42 IN	LF	E024		STD	N	
2503-0134248	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 2000D (CLASS III), 48 IN	LF	E024		STD	N	
2503-0134254	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 2000D (CLASS III), 54 IN	LF	E024		STD	N	
2503-0134260	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 2000D (CLASS III), 60 IN	LF	E024		STD	N	
2503-0134266	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 2000D (CLASS III), 66 IN	LF	E024		STD	N	
2503-0134272	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 2000D (CLASS III), 72 IN	LF	E024		STD	N	
2503-0134412	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3000D (CLASS IV), 12 IN	LF	E024		STD	N	
2503-0134415	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3000D (CLASS IV), 15 IN	LF	E024		STD	N	
2503-0134418	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3000D (CLASS IV), 18 IN	LF	E024		STD	N	
2503-0134421	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3000D (CLASS IV), 21 IN	LF	E024		STD	N	
2503-0134424	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3000D (CLASS IV), 24 IN	LF	E024		STD	N	
2503-0134427	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3000D (CLASS IV), 27 IN	LF	E024		STD	N	
2503-0134430	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3000D (CLASS IV), 30 IN	LF	E024		STD	N	
2503-0134433	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3000D (CLASS IV), 33 IN	LF	E024		STD	N	
2503-0134436	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3000D (CLASS IV), 36 IN	LF	E024		STD	N	
2503-0134442	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3000D (CLASS IV), 42 IN	LF	E024		STD	N	
2503-0134448	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3000D (CLASS IV), 48 IN	LF	E024		STD	N	
2503-0134454	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3000D (CLASS IV), 54 IN	LF	E024		STD	N	
2503-0134460	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3000D (CLASS IV), 60 IN	LF	E024		STD	N	
2503-0134466	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3000D (CLASS IV), 66 IN	LF	E024		STD	N	
2503-0134472	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3000D (CLASS IV), 72 IN	LF	E024		STD	N	
2503-0134612	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3750D (CLASS V), 12 IN	LF	E024		STD	N	
2503-0134615	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3750D (CLASS V), 15 IN	LF	E024		STD	N	
2503-0134618	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3750D (CLASS V), 18 IN	LF	E024		STD	N	
2503-0134621	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3750D (CLASS V), 21 IN	LF	E024		STD	N	
2503-0134624	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3750D (CLASS V), 24 IN	LF	E024		STD	N	
2503-0134627	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3750D (CLASS V), 27 IN	LF	E024		STD	N	
2503-0134630	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3750D (CLASS V), 30 IN	LF	E024		STD	N	
2503-0134633	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3750D (CLASS V), 33 IN	LF	E024		STD	N	
2503-0134636	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3750D (CLASS V), 36 IN	LF	E024		STD	N	
2503-0134642	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3750D (CLASS V), 42 IN	LF	E024		STD	N	
2503-0134648	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3750D (CLASS V), 48 IN	LF	E024		STD	N	
2503-0134654	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3750D (CLASS V), 54 IN	LF	E024		STD	N	
2503-0134660	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3750D (CLASS V), 60 IN	LF	E024		STD	N	
2503-0134666	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3750D (CLASS V), 66 IN	LF	E024		STD	N	
2503-0134672	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3750D (CLASS V), 72 IN	LF	E024		STD	N	
2503-0136315	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 15 IN.	LF	E024		STD	N	
2503-0136318	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 18 IN.	LF	E024		STD	N	
2503-0136324	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 24 IN.	LF	E024		STD	N	
2503-0136330	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 30 IN.	LF	E024		STD	N	
2503-0136336	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 36 IN.	LF	E024		STD	N	
2503-0136342	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 42 IN.	LF	E024		STD	N	
2503-0136348	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 48 IN.	LF	E024		STD	N	

Item Code	Description	Units	Form	Support Forms	Meas/ Pay	Plan Quantity N	Plan Quantity Y
2503-0136354	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 54 IN.	LF	E024		STD	N	
2503-0136360	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 60 IN.	LF	E024		STD	N	
2503-0136372	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 72 IN.	LF	E024		STD	N	
2503-0136384	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 84 IN.	LF	E024		STD	N	
2503-0136515	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 15 IN.	LF	E024		STD	N	
2503-0136518	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 18 IN.	LF	E024		STD	N	
2503-0136524	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 24 IN.	LF	E024		STD	N	
2503-0136530	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 30 IN.	LF	E024		STD	N	
2503-0136536	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 36 IN.	LF	E024		STD	N	
2503-0136542	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 42 IN.	LF	E024		STD	N	
2503-0136548	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 48 IN.	LF	E024		STD	N	
2503-0136554	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 54 IN.	LF	E024		STD	N	
2503-0136560	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 60 IN.	LF	E024		STD	N	
2503-0136572	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 72 IN.	LF	E024		STD	N	
2503-0136584	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 84 IN.	LF	E024		STD	N	
2503-0140008	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 8 IN	LF	E024		STD	N	
2503-0140010	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 10 IN	LF	E024		STD	N	
2503-0140012	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 12 IN	LF	E024		STD	N	
2503-0140015	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 15 IN	LF	E024		STD	N	
2503-0140018	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 18 IN	LF	E024		STD	N	
2503-0140021	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 21 IN	LF	E024		STD	N	
2503-0140024	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 24 IN	LF	E024		STD	N	
2503-0140027	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 27 IN	LF	E024		STD	N	
2503-0140030	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 30 IN	LF	E024		STD	N	
2503-0140033	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 33 IN	LF	E024		STD	N	
2503-0140036	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 36 IN	LF	E024		STD	N	
2503-0140042	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 42 IN	LF	E024		STD	N	
2503-0140048	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 48 IN	LF	E024		STD	N	
2503-0140054	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 54 IN	LF	E024		STD	N	
2503-0140060	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 60 IN	LF	E024		STD	N	
2503-0141012	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, HDPE PIPE, 12 IN	LF	E024		STD	N	
2503-0141015	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, HDPE PIPE, 15 IN	LF	E024		STD	N	
2503-0141018	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, HDPE PIPE, 18 IN	LF	E024		STD	N	
2503-0141021	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, HDPE PIPE, 21 IN	LF	E024		STD	N	
2503-0141024	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, HDPE PIPE, 24 IN	LF	E024		STD	N	
2503-0141027	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, HDPE PIPE, 27 IN	LF	E024		STD	N	
2503-0141030	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, HDPE PIPE, 30 IN	LF	E024		STD	N	
2503-0141033	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, HDPE PIPE, 33 IN	LF	E024		STD	N	
2503-0141036	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, HDPE PIPE, 36 IN	LF	E024		STD	N	
2503-0141042	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, HDPE PIPE, 42 IN	LF	E024		STD	N	
2503-0141048	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, HDPE PIPE, 48 IN	LF	E024		STD	N	
2503-0141054	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, HDPE PIPE, 54 IN	LF	E024		STD	N	
2503-0141060	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, HDPE PIPE, 60 IN	LF	E024		STD	N	
2503-0142008	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, PVC, 8 IN	LF	E024		STD	N	
2503-0142010	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, PVC, 10 IN	LF	E024		STD	N	
2503-0142012	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, PVC, 12 IN	LF	E024		STD	N	
2503-0142015	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, PVC, 15 IN	LF	E024		STD	N	
2503-0142018	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, PVC, 18 IN	LF	E024		STD	N	
2503-0142021	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, PVC, 21 IN	LF	E024		STD	N	
2503-0142024	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, PVC, 24 IN	LF	E024		STD	N	
2503-0142027	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, PVC, 27 IN	LF	E024		STD	N	
2503-0142030	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, PVC, 30 IN	LF	E024		STD	N	
2503-0142033	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, PVC, 33 IN	LF	E024		STD	N	
2503-0142036	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, PVC, 36 IN	LF	E024		STD	N	
2503-0142042	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, PVC, 42 IN	LF	E024		STD	N	
2503-0142048	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, PVC, 48 IN	LF	E024		STD	N	
2503-0144212	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 2000D (CLASS III), 12 IN	LF	E024		STD	N	
2503-0144215	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 2000D (CLASS III), 15 IN	LF	E024		STD	N	
2503-0144218	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 2000D (CLASS III), 18 IN	LF	E024		STD	N	
2503-0144221	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 2000D (CLASS III), 21 IN	LF	E024		STD	N	
2503-0144224	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 2000D (CLASS III), 24 IN	LF	E024		STD	N	
2503-0144227	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 2000D (CLASS III), 27 IN	LF	E024		STD	N	
2503-0144230	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 2000D (CLASS III), 30 IN	LF	E024		STD	N	
2503-0144233	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 2000D (CLASS III), 33 IN	LF	E024		STD	N	
2503-0144236	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 2000D (CLASS III), 36 IN	LF	E024		STD	N	
2503-0144242	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 2000D (CLASS III), 42 IN	LF	E024		STD	N	
2503-0144248	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 2000D (CLASS III), 48 IN	LF	E024		STD	N	
2503-0144254	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 2000D (CLASS III), 54 IN	LF	E024		STD	N	
2503-0144260	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 2000D (CLASS III), 60 IN	LF	E024		STD	N	
2503-0144266	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 2000D (CLASS III), 66 IN	LF	E024		STD	N	
2503-0144272	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 2000D (CLASS III), 72 IN	LF	E024		STD	N	
2503-0144412	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3000D (CLASS IV), 12 IN	LF	E024		STD	N	
2503-0144415	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3000D (CLASS IV), 15 IN	LF	E024		STD	N	
2503-0144418	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3000D (CLASS IV), 18 IN	LF	E024		STD	N	
2503-0144421	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3000D (CLASS IV), 21 IN	LF	E024		STD	N	
2503-0144424	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3000D (CLASS IV), 24 IN	LF	E024		STD	N	
2503-0144427	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3000D (CLASS IV), 27 IN	LF	E024		STD	N	
2503-0144430	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3000D (CLASS IV), 30 IN	LF	E024		STD	N	
2503-0144433	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3000D (CLASS IV), 33 IN	LF	E024		STD	N	
2503-0144436	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3000D (CLASS IV), 36 IN	LF	E024		STD	N	

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2503-0144442	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3000D (CLASS IV), 42 IN	LF	E024		STD	N	
2503-0144448	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3000D (CLASS IV), 48 IN	LF	E024		STD	N	
2503-0144454	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3000D (CLASS IV), 54 IN	LF	E024		STD	N	
2503-0144460	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3000D (CLASS IV), 60 IN	LF	E024		STD	N	
2503-0144466	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3000D (CLASS IV), 66 IN	LF	E024		STD	N	
2503-0144472	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3000D (CLASS IV), 72 IN	LF	E024		STD	N	
2503-0144612	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3750D (CLASS V), 12 IN	LF	E024		STD	N	
2503-0144615	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3750D (CLASS V), 15 IN	LF	E024		STD	N	
2503-0144618	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3750D (CLASS V), 18 IN	LF	E024		STD	N	
2503-0144621	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3750D (CLASS V), 21 IN	LF	E024		STD	N	
2503-0144624	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3750D (CLASS V), 24 IN	LF	E024		STD	N	
2503-0144627	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3750D (CLASS V), 27 IN	LF	E024		STD	N	
2503-0144630	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3750D (CLASS V), 30 IN	LF	E024		STD	N	
2503-0144633	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3750D (CLASS V), 33 IN	LF	E024		STD	N	
2503-0144636	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3750D (CLASS V), 36 IN	LF	E024		STD	N	
2503-0144642	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3750D (CLASS V), 42 IN	LF	E024		STD	N	
2503-0144648	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3750D (CLASS V), 48 IN	LF	E024		STD	N	
2503-0144654	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3750D (CLASS V), 54 IN	LF	E024		STD	N	
2503-0144660	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3750D (CLASS V), 60 IN	LF	E024		STD	N	
2503-0144666	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3750D (CLASS V), 66 IN	LF	E024		STD	N	
2503-0144672	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3750D (CLASS V), 72 IN	LF	E024		STD	N	
2503-0146315	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 15 IN.	LF	E024		STD	N	
2503-0146318	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 18 IN.	LF	E024		STD	N	
2503-0146324	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 24 IN.	LF	E024		STD	N	
2503-0146330	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 30 IN.	LF	E024		STD	N	
2503-0146336	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 36 IN.	LF	E024		STD	N	
2503-0146342	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 42 IN.	LF	E024		STD	N	
2503-0146348	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 48 IN.	LF	E024		STD	N	
2503-0146354	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 54 IN.	LF	E024		STD	N	
2503-0146360	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 60 IN.	LF	E024		STD	N	
2503-0146372	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 72 IN.	LF	E024		STD	N	
2503-0146384	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 84 IN.	LF	E024		STD	N	
2503-0146515	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 15 IN.	LF	E024		STD	N	
2503-0146518	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 18 IN.	LF	E024		STD	N	
2503-0146524	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 24 IN.	LF	E024		STD	N	
2503-0146530	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 30 IN.	LF	E024		STD	N	
2503-0146536	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 36 IN.	LF	E024		STD	N	
2503-0146542	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 42 IN.	LF	E024		STD	N	
2503-0146548	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 48 IN.	LF	E024		STD	N	
2503-0146554	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 54 IN.	LF	E024		STD	N	
2503-0146560	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 60 IN.	LF	E024		STD	N	
2503-0146572	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 72 IN.	LF	E024		STD	N	
2503-0146584	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 3000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 84 IN.	LF	E024		STD	N	
2503-0200036	REMOVE STORM SEWER PIPE LESS THAN OR EQUAL TO 36 IN.	LF	E024		STD	N	
2503-0200136	REMOVE STORM SEWER PIPE GREATER THAN 36 IN.	LF	E024		STD	N	
2503-0200236	REMOVE AND REINSTALL STORM SEWER PIPE LESS THAN OR EQUAL TO 36 IN	LF	E024		STD	N	
2503-0200336	REMOVE AND REINSTALL STORM SEWER PIPE GREATER THAN 36 IN	LF	E024		STD	N	
2503-0200341	STORM SEWER ABANDONMENT, FILL AND PLUG, LESS THAN OR EQUAL TO 36 IN. DIA.	LF	E018		STD	N	
2503-0200342	STORM SEWER ABANDONMENT, FILL AND PLUG, GREATER THAN 36 IN. DIA.	LF	E018		STD	N	
2503-0500381	BRIDGE END DRAIN, AS PER PLAN	EACH	E039		PLAN	N	
2503-0500401	BRIDGE END DRAIN, DR-401	EACH	E039		SRP	N	
2503-0500402	BRIDGE END DRAIN, DR-402	EACH	E039		SRP	N	
2503-3775012	GATE OUTLET CONTROL FLAP 12 IN	EACH	E039		PLAN	N	
2503-3775015	GATE OUTLET CONTROL FLAP 15 IN	EACH	E039		PLAN	N	
2503-3775018	GATE OUTLET CONTROL FLAP 18 IN	EACH	E039		PLAN	N	
2503-3775024	GATE OUTLET CONTROL FLAP 24 IN	EACH	E039		PLAN	N	
2503-3775030	GATE OUTLET CONTROL FLAP 30 IN	EACH	E039		PLAN	N	
2503-3775036	GATE OUTLET CONTROL FLAP 36 IN	EACH	E039		PLAN	N	
2503-3775042	GATE OUTLET CONTROL FLAP 42 IN	EACH	E039		PLAN	N	
2503-3775048	GATE OUTLET CONTROL FLAP 48 IN	EACH	E039		PLAN	N	
2503-3775054	GATE OUTLET CONTROL FLAP 54 IN	EACH	E039		PLAN	N	
2503-3775060	GATE OUTLET CONTROL FLAP 60 IN	EACH	E039		PLAN	N	
2503-3775072	GATE OUTLET CONTROL FLAP 72 IN	EACH	E039		PLAN	N	
2504-0110008	SANITARY SEWER GRAVITY MAIN, TRENCHED, 8 IN	LF	E024		STD	N	
2504-0110010	SANITARY SEWER GRAVITY MAIN, TRENCHED, 10 IN	LF	E024		STD	N	
2504-0110012	SANITARY SEWER GRAVITY MAIN, TRENCHED, 12 IN	LF	E024		STD	N	
2504-0110015	SANITARY SEWER GRAVITY MAIN, TRENCHED, 15 IN	LF	E024		STD	N	
2504-0110018	SANITARY SEWER GRAVITY MAIN, TRENCHED, 18 IN	LF	E024		STD	N	
2504-0110021	SANITARY SEWER GRAVITY MAIN, TRENCHED, 21 IN	LF	E024		STD	N	
2504-0110024	SANITARY SEWER GRAVITY MAIN, TRENCHED, 24 IN	LF	E024		STD	N	
2504-0110027	SANITARY SEWER GRAVITY MAIN, TRENCHED, 27 IN	LF	E024		STD	N	
2504-0110030	SANITARY SEWER GRAVITY MAIN, TRENCHED, 30 IN	LF	E024		STD	N	
2504-0110033	SANITARY SEWER GRAVITY MAIN, TRENCHED, 33 IN	LF	E024		STD	N	

Item Code	Description	Units	Form	Support Forms	Meas/ Pay	Plan Quantity N	Plan Quantity Y
2504-0110036	SANITARY SEWER GRAVITY MAIN, TRENCHED, 36 IN	LF	E024		STD	N	
2504-0110042	SANITARY SEWER GRAVITY MAIN, TRENCHED, 42 IN	LF	E024		STD	N	
2504-0110048	SANITARY SEWER GRAVITY MAIN, TRENCHED, 48 IN	LF	E024		STD	N	
2504-0110054	SANITARY SEWER GRAVITY MAIN, TRENCHED, 54 IN	LF	E024		STD	N	
2504-0110060	SANITARY SEWER GRAVITY MAIN, TRENCHED, 60 IN	LF	E024		STD	N	
2504-0112212	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 12 IN	LF	E024		STD	N	
2504-0112215	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 15 IN	LF	E024		STD	N	
2504-0112218	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 18 IN	LF	E024		STD	N	
2504-0112221	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 21 IN	LF	E024		STD	N	
2504-0112224	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 24 IN	LF	E024		STD	N	
2504-0112227	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 27 IN	LF	E024		STD	N	
2504-0112230	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 30 IN	LF	E024		STD	N	
2504-0112233	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 33 IN	LF	E024		STD	N	
2504-0112236	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 36 IN	LF	E024		STD	N	
2504-0112242	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 42 IN	LF	E024		STD	N	
2504-0112248	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 48 IN	LF	E024		STD	N	
2504-0112254	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 54 IN	LF	E024		STD	N	
2504-0112260	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 60 IN	LF	E024		STD	N	
2504-0112266	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 66 IN	LF	E024		STD	N	
2504-0112272	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 2000D (CLASS III), 72 IN	LF	E024		STD	N	
2504-0112412	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 12 IN	LF	E024		STD	N	
2504-0112415	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 15 IN	LF	E024		STD	N	
2504-0112418	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 18 IN	LF	E024		STD	N	
2504-0112421	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 21 IN	LF	E024		STD	N	
2504-0112424	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 24 IN	LF	E024		STD	N	
2504-0112427	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 27 IN	LF	E024		STD	N	
2504-0112430	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 30 IN	LF	E024		STD	N	
2504-0112433	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 33 IN	LF	E024		STD	N	
2504-0112436	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 36 IN	LF	E024		STD	N	
2504-0112442	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 42 IN	LF	E024		STD	N	
2504-0112448	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 48 IN	LF	E024		STD	N	
2504-0112454	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 54 IN	LF	E024		STD	N	
2504-0112460	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 60 IN	LF	E024		STD	N	
2504-0112466	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 66 IN	LF	E024		STD	N	
2504-0112472	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3000D (CLASS IV), 72 IN	LF	E024		STD	N	
2504-0112612	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3750D (CLASS V), 12 IN	LF	E024		STD	N	
2504-0112615	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3750D (CLASS V), 15 IN	LF	E024		STD	N	
2504-0112618	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3750D (CLASS V), 18 IN	LF	E024		STD	N	
2504-0112621	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3750D (CLASS V), 21 IN	LF	E024		STD	N	
2504-0112624	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3750D (CLASS V), 24 IN	LF	E024		STD	N	
2504-0112627	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3750D (CLASS V), 27 IN	LF	E024		STD	N	
2504-0112630	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3750D (CLASS V), 30 IN	LF	E024		STD	N	
2504-0112633	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3750D (CLASS V), 33 IN	LF	E024		STD	N	
2504-0112636	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3750D (CLASS V), 36 IN	LF	E024		STD	N	
2504-0112642	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3750D (CLASS V), 42 IN	LF	E024		STD	N	
2504-0112648	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3750D (CLASS V), 48 IN	LF	E024		STD	N	
2504-0112654	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3750D (CLASS V), 54 IN	LF	E024		STD	N	
2504-0112660	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3750D (CLASS V), 60 IN	LF	E024		STD	N	
2504-0112666	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3750D (CLASS V), 66 IN	LF	E024		STD	N	
2504-0112672	SANITARY SEWER GRAVITY MAIN, TRENCHED, RCP, 3750D (CLASS V), 72 IN	LF	E024		STD	N	
2504-0114008	SANITARY SEWER GRAVITY MAIN, TRENCHED, PVC, 8 IN	LF	E024		STD	N	
2504-0114010	SANITARY SEWER GRAVITY MAIN, TRENCHED, PVC, 10 IN	LF	E024		STD	N	
2504-0114012	SANITARY SEWER GRAVITY MAIN, TRENCHED, PVC, 12 IN	LF	E024		STD	N	
2504-0114015	SANITARY SEWER GRAVITY MAIN, TRENCHED, PVC, 15 IN	LF	E024		STD	N	
2504-0114018	SANITARY SEWER GRAVITY MAIN, TRENCHED, PVC, 18 IN	LF	E024		STD	N	
2504-0114021	SANITARY SEWER GRAVITY MAIN, TRENCHED, PVC, 21 IN	LF	E024		STD	N	
2504-0114024	SANITARY SEWER GRAVITY MAIN, TRENCHED, PVC, 24 IN	LF	E024		STD	N	
2504-0114027	SANITARY SEWER GRAVITY MAIN, TRENCHED, PVC, 27 IN	LF	E024		STD	N	
2504-0114030	SANITARY SEWER GRAVITY MAIN, TRENCHED, PVC, 30 IN	LF	E024		STD	N	
2504-0114036	SANITARY SEWER GRAVITY MAIN, TRENCHED, PVC, 36 IN	LF	E024		STD	N	
2504-0115012	SANITARY SEWER GRAVITY MAIN, TRENCHED, POLYPROPYLENE (PP) PIPE, 12 IN	LF	E024		STD	N	
2504-0115015	SANITARY SEWER GRAVITY MAIN, TRENCHED, POLYPROPYLENE (PP) PIPE, 15 IN	LF	E024		STD	N	
2504-0115018	SANITARY SEWER GRAVITY MAIN, TRENCHED, POLYPROPYLENE (PP) PIPE, 18 IN	LF	E024		STD	N	
2504-0115021	SANITARY SEWER GRAVITY MAIN, TRENCHED, POLYPROPYLENE (PP) PIPE, 21 IN	LF	E024		STD	N	
2504-0115024	SANITARY SEWER GRAVITY MAIN, TRENCHED, POLYPROPYLENE (PP) PIPE, 24 IN	LF	E024		STD	N	
2504-0115030	SANITARY SEWER GRAVITY MAIN, TRENCHED, POLYPROPYLENE (PP) PIPE, 30 IN	LF	E024		STD	N	
2504-0115036	SANITARY SEWER GRAVITY MAIN, TRENCHED, POLYPROPYLENE (PP) PIPE, 36 IN	LF	E024		STD	N	
2504-0116004	SANITARY SEWER GRAVITY MAIN, TRENCHED, DIP, 4 IN	LF	E024		STD	N	
2504-0116006	SANITARY SEWER GRAVITY MAIN, TRENCHED, DIP, 6 IN	LF	E024		STD	N	
2504-0116008	SANITARY SEWER GRAVITY MAIN, TRENCHED, DIP, 8 IN	LF	E024		STD	N	
2504-0116010	SANITARY SEWER GRAVITY MAIN, TRENCHED, DIP, 10 IN	LF	E024		STD	N	
2504-0116012	SANITARY SEWER GRAVITY MAIN, TRENCHED, DIP, 12 IN	LF	E024		STD	N	
2504-0116014	SANITARY SEWER GRAVITY MAIN, TRENCHED, DIP, 14 IN	LF	E024		STD	N	
2504-0116016	SANITARY SEWER GRAVITY MAIN, TRENCHED, DIP, 16 IN	LF	E024		STD	N	
2504-0116018	SANITARY SEWER GRAVITY MAIN, TRENCHED, DIP, 18 IN	LF	E024		STD	N	
2504-0116020	SANITARY SEWER GRAVITY MAIN, TRENCHED, DIP, 20 IN	LF	E024		STD	N	
2504-0116024	SANITARY SEWER GRAVITY MAIN, TRENCHED, DIP, 24 IN	LF	E024		STD	N	
2504-0116030	SANITARY SEWER GRAVITY MAIN, TRENCHED, DIP, 30 IN	LF	E024		STD	N	
2504-0116036	SANITARY SEWER GRAVITY MAIN, TRENCHED, DIP, 36 IN	LF	E024		STD	N	
2504-0116042	SANITARY SEWER GRAVITY MAIN, TRENCHED, DIP, 42 IN	LF	E024		STD	N	
2504-0116048	SANITARY SEWER GRAVITY MAIN, TRENCHED, DIP, 48 IN	LF	E024		STD	N	
2504-0116054	SANITARY SEWER GRAVITY MAIN, TRENCHED, DIP, 54 IN	LF	E024		STD	N	
2504-0118008	SANITARY SEWER GRAVITY MAIN, TRENCHED, VCP, STD. STRENGTH, 8 IN	LF	E024		STD	N	
2504-0118010	SANITARY SEWER GRAVITY MAIN, TRENCHED, VCP, STD. STRENGTH, 10 IN	LF	E024		STD	N	
2504-0118012	SANITARY SEWER GRAVITY MAIN, TRENCHED, VCP, STD. STRENGTH, 12 IN	LF	E024		STD	N	
2504-0118015	SANITARY SEWER GRAVITY MAIN, TRENCHED, VCP, STD. STRENGTH, 15 IN	LF	E024		STD	N	
2504-0118018	SANITARY SEWER GRAVITY MAIN, TRENCHED, VCP, STD. STRENGTH, 18 IN	LF	E024		STD	N	
2504-0118021	SANITARY SEWER GRAVITY MAIN, TRENCHED, VCP, STD. STRENGTH, 21 IN	LF	E024		STD	N	
2504-0118024	SANITARY SEWER GRAVITY MAIN, TRENCHED, VCP, STD. STRENGTH, 24 IN	LF	E024		STD	N	
2504-0118027	SANITARY SEWER GRAVITY MAIN, TRENCHED, VCP, STD. STRENGTH, 27 IN	LF	E024		STD	N	
2504-0118030	SANITARY SEWER GRAVITY MAIN, TRENCHED, VCP, STD. STRENGTH, 30 IN	LF	E024		STD	N	
2504-0118033	SANITARY SEWER GRAVITY MAIN, TRENCHED, VCP, STD. STRENGTH, 33 IN	LF	E024		STD	N	
2504-0118036	SANITARY SEWER GRAVITY MAIN, TRENCHED, VCP, STD. STRENGTH, 36 IN	LF	E024		STD	N	
2504-0118039	SANITARY SEWER GRAVITY MAIN, TRENCHED, VCP, STD. STRENGTH, 39 IN	LF	E024		STD	N	
2504-0118042	SANITARY SEWER GRAVITY MAIN, TRENCHED, VCP, STD. STRENGTH, 42 IN	LF	E024		STD	N	

Item Code	Description	Units	Form	Support Forms	Meas/ Pay	Plan Quantity N	Plan Quantity Y
2504-0119008	SANITARY SEWER GRAVITY MAIN, TRENCHED, VCP, EXTRA STRENGTH, 8 IN	LF	E024		STD	N	
2504-0119010	SANITARY SEWER GRAVITY MAIN, TRENCHED, VCP, EXTRA STRENGTH, 10 IN	LF	E024		STD	N	
2504-0119012	SANITARY SEWER GRAVITY MAIN, TRENCHED, VCP, EXTRA STRENGTH, 12 IN	LF	E024		STD	N	
2504-0119015	SANITARY SEWER GRAVITY MAIN, TRENCHED, VCP, EXTRA STRENGTH, 15 IN	LF	E024		STD	N	
2504-0119018	SANITARY SEWER GRAVITY MAIN, TRENCHED, VCP, EXTRA STRENGTH, 18 IN	LF	E024		STD	N	
2504-0119021	SANITARY SEWER GRAVITY MAIN, TRENCHED, VCP, EXTRA STRENGTH, 21 IN	LF	E024		STD	N	
2504-0119024	SANITARY SEWER GRAVITY MAIN, TRENCHED, VCP, EXTRA STRENGTH, 24 IN	LF	E024		STD	N	
2504-0119027	SANITARY SEWER GRAVITY MAIN, TRENCHED, VCP, EXTRA STRENGTH, 27 IN	LF	E024		STD	N	
2504-0119030	SANITARY SEWER GRAVITY MAIN, TRENCHED, VCP, EXTRA STRENGTH, 30 IN	LF	E024		STD	N	
2504-0119033	SANITARY SEWER GRAVITY MAIN, TRENCHED, VCP, EXTRA STRENGTH, 33 IN	LF	E024		STD	N	
2504-0119036	SANITARY SEWER GRAVITY MAIN, TRENCHED, VCP, EXTRA STRENGTH, 36 IN	LF	E024		STD	N	
2504-0119039	SANITARY SEWER GRAVITY MAIN, TRENCHED, VCP, EXTRA STRENGTH, 39 IN	LF	E024		STD	N	
2504-0119042	SANITARY SEWER GRAVITY MAIN, TRENCHED, VCP, EXTRA STRENGTH, 42 IN	LF	E024		STD	N	
2504-0120008	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, 8 IN	LF	E024		STD	N	
2504-0120010	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, 10 IN	LF	E024		STD	N	
2504-0120012	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, 12 IN	LF	E024		STD	N	
2504-0120015	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, 15 IN	LF	E024		STD	N	
2504-0120018	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, 18 IN	LF	E024		STD	N	
2504-0120021	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, 21 IN	LF	E024		STD	N	
2504-0120024	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, 24 IN	LF	E024		STD	N	
2504-0120027	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, 27 IN	LF	E024		STD	N	
2504-0120030	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, 30 IN	LF	E024		STD	N	
2504-0120033	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, 33 IN	LF	E024		STD	N	
2504-0120036	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, 36 IN	LF	E024		STD	N	
2504-0120042	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, 42 IN	LF	E024		STD	N	
2504-0120048	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, 48 IN	LF	E024		STD	N	
2504-0120054	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, 54 IN	LF	E024		STD	N	
2504-0120060	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, 60 IN	LF	E024		STD	N	
2504-0122212	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 2000D (CLASS III), 12 IN	LF	E024		STD	N	
2504-0122215	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 2000D (CLASS III), 15 IN	LF	E024		STD	N	
2504-0122218	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 2000D (CLASS III), 18 IN	LF	E024		STD	N	
2504-0122221	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 2000D (CLASS III), 21 IN	LF	E024		STD	N	
2504-0122224	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 2000D (CLASS III), 24 IN	LF	E024		STD	N	
2504-0122227	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 2000D (CLASS III), 27 IN	LF	E024		STD	N	
2504-0122230	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 2000D (CLASS III), 30 IN	LF	E024		STD	N	
2504-0122233	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 2000D (CLASS III), 33 IN	LF	E024		STD	N	
2504-0122236	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 2000D (CLASS III), 36 IN	LF	E024		STD	N	
2504-0122242	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 2000D (CLASS III), 42 IN	LF	E024		STD	N	
2504-0122248	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 2000D (CLASS III), 48 IN	LF	E024		STD	N	
2504-0122254	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 2000D (CLASS III), 54 IN	LF	E024		STD	N	
2504-0122260	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 2000D (CLASS III), 60 IN	LF	E024		STD	N	
2504-0122266	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 2000D (CLASS III), 66 IN	LF	E024		STD	N	
2504-0122272	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 2000D (CLASS III), 72 IN	LF	E024		STD	N	
2504-0122412	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3000D (CLASS IV), 12 IN	LF	E024		STD	N	
2504-0122415	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3000D (CLASS IV), 15 IN	LF	E024		STD	N	
2504-0122418	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3000D (CLASS IV), 18 IN	LF	E024		STD	N	
2504-0122421	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3000D (CLASS IV), 21 IN	LF	E024		STD	N	
2504-0122424	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3000D (CLASS IV), 24 IN	LF	E024		STD	N	
2504-0122427	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3000D (CLASS IV), 27 IN	LF	E024		STD	N	
2504-0122430	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3000D (CLASS IV), 30 IN	LF	E024		STD	N	
2504-0122433	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3000D (CLASS IV), 33 IN	LF	E024		STD	N	
2504-0122436	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3000D (CLASS IV), 36 IN	LF	E024		STD	N	
2504-0122442	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3000D (CLASS IV), 42 IN	LF	E024		STD	N	
2504-0122448	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3000D (CLASS IV), 48 IN	LF	E024		STD	N	
2504-0122454	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3000D (CLASS IV), 54 IN	LF	E024		STD	N	
2504-0122460	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3000D (CLASS IV), 60 IN	LF	E024		STD	N	
2504-0122466	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3000D (CLASS IV), 66 IN	LF	E024		STD	N	
2504-0122472	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3000D (CLASS IV), 72 IN	LF	E024		STD	N	
2504-0125012	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, POLYPROPYLENE (PP) PIPE, 12 IN	LF	E024		STD	N	
2504-0125015	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, POLYPROPYLENE (PP) PIPE, 15 IN	LF	E024		STD	N	
2504-0125018	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, POLYPROPYLENE (PP) PIPE, 18 IN	LF	E024		STD	N	
2504-0125021	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, POLYPROPYLENE (PP) PIPE, 21 IN	LF	E024		STD	N	
2504-0125024	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, POLYPROPYLENE (PP) PIPE, 24 IN	LF	E024		STD	N	
2504-0125030	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, POLYPROPYLENE (PP) PIPE, 30 IN	LF	E024		STD	N	
2504-0125036	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, POLYPROPYLENE (PP) PIPE, 36 IN	LF	E024		STD	N	
2504-0122612	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3750D (CLASS V), 12 IN	LF	E024		STD	N	
2504-0122615	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3750D (CLASS V), 15 IN	LF	E024		STD	N	
2504-0122618	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3750D (CLASS V), 18 IN	LF	E024		STD	N	
2504-0122621	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3750D (CLASS V), 21 IN	LF	E024		STD	N	
2504-0122624	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3750D (CLASS V), 24 IN	LF	E024		STD	N	
2504-0122627	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3750D (CLASS V), 27 IN	LF	E024		STD	N	
2504-0122630	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3750D (CLASS V), 30 IN	LF	E024		STD	N	
2504-0122633	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3750D (CLASS V), 33 IN	LF	E024		STD	N	
2504-0122636	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3750D (CLASS V), 36 IN	LF	E024		STD	N	
2504-0122642	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3750D (CLASS V), 42 IN	LF	E024		STD	N	
2504-0122648	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3750D (CLASS V), 48 IN	LF	E024		STD	N	
2504-0122654	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3750D (CLASS V), 54 IN	LF	E024		STD	N	
2504-0122660	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3750D (CLASS V), 60 IN	LF	E024		STD	N	
2504-0122666	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3750D (CLASS V), 66 IN	LF	E024		STD	N	
2504-0122672	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, RCP, 3750D (CLASS V), 72 IN	LF	E024		STD	N	
2504-0124008	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, PVC, 8 IN	LF	E024		STD	N	
2504-0124010	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, PVC, 10 IN	LF	E024		STD	N	
2504-0124012	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, PVC, 12 IN	LF	E024		STD	N	
2504-0124015	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, PVC, 15 IN	LF	E024		STD	N	
2504-0124018	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, PVC, 18 IN	LF	E024		STD	N	
2504-0124021	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, PVC, 21 IN	LF	E024		STD	N	
2504-0124024	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, PVC, 24 IN	LF	E024		STD	N	
2504-0124027	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, PVC, 27 IN	LF	E024		STD	N	
2504-0124030	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, PVC, 30 IN	LF	E024		STD	N	
2504-0124036	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, PVC, 36 IN	LF	E024		STD	N	
2504-0126004	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, DIP, 4 IN	LF	E024		STD	N	
2504-0126006	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, DIP, 6 IN	LF	E024		STD	N	
2504-0126008	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, DIP, 8 IN	LF	E024		STD	N	
2504-0126010	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, DIP, 10 IN	LF	E024		STD	N	
2504-0126012	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, DIP, 12 IN	LF	E024		STD	N	

Item Code	Description	Units	Form	Support Forms	Meas/ Pay	Plan Quantity N	Plan Quantity Y
2504-0126014	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, DIP, 14 IN	LF	E024		STD	N	
2504-0126016	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, DIP, 16 IN	LF	E024		STD	N	
2504-0126018	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, DIP, 18 IN	LF	E024		STD	N	
2504-0126020	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, DIP, 20 IN	LF	E024		STD	N	
2504-0126024	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, DIP, 24 IN	LF	E024		STD	N	
2504-0126030	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, DIP, 30 IN	LF	E024		STD	N	
2504-0126036	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, DIP, 36 IN	LF	E024		STD	N	
2504-0126042	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, DIP, 42 IN	LF	E024		STD	N	
2504-0126048	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, DIP, 48 IN	LF	E024		STD	N	
2504-0126054	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, DIP, 54 IN	LF	E024		STD	N	
2504-0128008	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, VCP, STD. STRENGTH, 8 IN	LF	E024		STD	N	
2504-0128010	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, VCP, STD. STRENGTH, 10 IN	LF	E024		STD	N	
2504-0128012	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, VCP, STD. STRENGTH, 12 IN	LF	E024		STD	N	
2504-0128015	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, VCP, STD. STRENGTH, 15 IN	LF	E024		STD	N	
2504-0128018	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, VCP, STD. STRENGTH, 18 IN	LF	E024		STD	N	
2504-0128021	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, VCP, STD. STRENGTH, 21 IN	LF	E024		STD	N	
2504-0128024	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, VCP, STD. STRENGTH, 24 IN	LF	E024		STD	N	
2504-0128027	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, VCP, STD. STRENGTH, 27 IN	LF	E024		STD	N	
2504-0128030	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, VCP, STD. STRENGTH, 30 IN	LF	E024		STD	N	
2504-0128033	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, VCP, STD. STRENGTH, 33 IN	LF	E024		STD	N	
2504-0128036	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, VCP, STD. STRENGTH, 36 IN	LF	E024		STD	N	
2504-0128039	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, VCP, STD. STRENGTH, 39 IN	LF	E024		STD	N	
2504-0128042	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, VCP, STD. STRENGTH, 42 IN	LF	E024		STD	N	
2504-0129008	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, VCP, EXTRA STRENGTH, 8 IN	LF	E024		STD	N	
2504-0129010	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, VCP, EXTRA STRENGTH, 10 IN	LF	E024		STD	N	
2504-0129012	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, VCP, EXTRA STRENGTH, 12 IN	LF	E024		STD	N	
2504-0129015	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, VCP, EXTRA STRENGTH, 15 IN	LF	E024		STD	N	
2504-0129018	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, VCP, EXTRA STRENGTH, 18 IN	LF	E024		STD	N	
2504-0129021	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, VCP, EXTRA STRENGTH, 21 IN	LF	E024		STD	N	
2504-0129024	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, VCP, EXTRA STRENGTH, 24 IN	LF	E024		STD	N	
2504-0129027	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, VCP, EXTRA STRENGTH, 27 IN	LF	E024		STD	N	
2504-0129030	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, VCP, EXTRA STRENGTH, 30 IN	LF	E024		STD	N	
2504-0129033	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, VCP, EXTRA STRENGTH, 33 IN	LF	E024		STD	N	
2504-0129036	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, VCP, EXTRA STRENGTH, 36 IN	LF	E024		STD	N	
2504-0129039	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, VCP, EXTRA STRENGTH, 39 IN	LF	E024		STD	N	
2504-0129042	SANITARY SEWER GRAVITY MAIN, TRENCHLESS, VCP, EXTRA STRENGTH, 42 IN	LF	E024		STD	N	
2504-0130008	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 8 IN	LF	E024		STD	N	
2504-0130010	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 10 IN	LF	E024		STD	N	
2504-0130012	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 12 IN	LF	E024		STD	N	
2504-0130015	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 15 IN	LF	E024		STD	N	
2504-0130018	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 18 IN	LF	E024		STD	N	
2504-0130021	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 21 IN	LF	E024		STD	N	
2504-0130024	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 24 IN	LF	E024		STD	N	
2504-0130027	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 27 IN	LF	E024		STD	N	
2504-0130030	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 30 IN	LF	E024		STD	N	
2504-0130033	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 33 IN	LF	E024		STD	N	
2504-0130036	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 36 IN	LF	E024		STD	N	
2504-0130042	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 42 IN	LF	E024		STD	N	
2504-0130048	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 48 IN	LF	E024		STD	N	
2504-0130054	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 54 IN	LF	E024		STD	N	
2504-0130060	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, 60 IN	LF	E024		STD	N	
2504-0132212	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 2000D (CLASS III), 12 IN	LF	E024		STD	N	
2504-0132215	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 2000D (CLASS III), 15 IN	LF	E024		STD	N	
2504-0132218	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 2000D (CLASS III), 18 IN	LF	E024		STD	N	
2504-0132221	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 2000D (CLASS III), 21 IN	LF	E024		STD	N	
2504-0132224	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 2000D (CLASS III), 24 IN	LF	E024		STD	N	
2504-0132227	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 2000D (CLASS III), 27 IN	LF	E024		STD	N	
2504-0132230	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 2000D (CLASS III), 30 IN	LF	E024		STD	N	
2504-0132233	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 2000D (CLASS III), 33 IN	LF	E024		STD	N	
2504-0132236	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 2000D (CLASS III), 36 IN	LF	E024		STD	N	
2504-0132242	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 2000D (CLASS III), 42 IN	LF	E024		STD	N	
2504-0132248	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 2000D (CLASS III), 48 IN	LF	E024		STD	N	
2504-0132254	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 2000D (CLASS III), 54 IN	LF	E024		STD	N	
2504-0132260	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 2000D (CLASS III), 60 IN	LF	E024		STD	N	
2504-0132266	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 2000D (CLASS III), 66 IN	LF	E024		STD	N	
2504-0132272	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 2000D (CLASS III), 72 IN	LF	E024		STD	N	
2504-0132412	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3000D (CLASS IV), 12 IN	LF	E024		STD	N	
2504-0132415	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3000D (CLASS IV), 15 IN	LF	E024		STD	N	
2504-0132418	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3000D (CLASS IV), 18 IN	LF	E024		STD	N	
2504-0132421	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3000D (CLASS IV), 21 IN	LF	E024		STD	N	
2504-0132424	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3000D (CLASS IV), 24 IN	LF	E024		STD	N	
2504-0132427	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3000D (CLASS IV), 27 IN	LF	E024		STD	N	
2504-0132430	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3000D (CLASS IV), 30 IN	LF	E024		STD	N	
2504-0132433	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3000D (CLASS IV), 33 IN	LF	E024		STD	N	
2504-0132436	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3000D (CLASS IV), 36 IN	LF	E024		STD	N	
2504-0132442	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3000D (CLASS IV), 42 IN	LF	E024		STD	N	
2504-0132448	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3000D (CLASS IV), 48 IN	LF	E024		STD	N	
2504-0132454	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3000D (CLASS IV), 54 IN	LF	E024		STD	N	
2504-0132460	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3000D (CLASS IV), 60 IN	LF	E024		STD	N	
2504-0132466	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3000D (CLASS IV), 66 IN	LF	E024		STD	N	
2504-0132472	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3000D (CLASS IV), 72 IN	LF	E024		STD	N	
2504-0132612	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3750D (CLASS V), 12 IN	LF	E024		STD	N	
2504-0132615	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3750D (CLASS V), 15 IN	LF	E024		STD	N	
2504-0132618	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3750D (CLASS V), 18 IN	LF	E024		STD	N	
2504-0132621	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3750D (CLASS V), 21 IN	LF	E024		STD	N	
2504-0132624	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3750D (CLASS V), 24 IN	LF	E024		STD	N	
2504-0132627	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3750D (CLASS V), 27 IN	LF	E024		STD	N	
2504-0132630	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3750D (CLASS V), 30 IN	LF	E024		STD	N	
2504-0132633	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3750D (CLASS V), 33 IN	LF	E024		STD	N	
2504-0132636	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3750D (CLASS V), 36 IN	LF	E024		STD	N	
2504-0132642	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3750D (CLASS V), 42 IN	LF	E024		STD	N	
2504-0132648	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3750D (CLASS V), 48 IN	LF	E024		STD	N	
2504-0132654	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3750D (CLASS V), 54 IN	LF	E024		STD	N	
2504-0132660	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3750D (CLASS V), 60 IN	LF	E024		STD	N	
2504-0132666	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3750D (CLASS V), 66 IN	LF	E024		STD	N	

Item Code	Description	Units	Form	Support Forms	Meas/ Pay	Plan Quantity N	Plan Quantity Y
2504-0132672	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCP, 3750D (CLASS V), 72 IN	LF	E024		STD	N	
2504-0134008	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, PVC, 8 IN	LF	E024		STD	N	
2504-0134010	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, PVC, 10 IN	LF	E024		STD	N	
2504-0134012	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, PVC, 12 IN	LF	E024		STD	N	
2504-0134015	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, PVC, 15 IN	LF	E024		STD	N	
2504-0134018	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, PVC, 18 IN	LF	E024		STD	N	
2504-0134021	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, PVC, 21 IN	LF	E024		STD	N	
2504-0134024	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, PVC, 24 IN	LF	E024		STD	N	
2504-0134027	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, PVC, 27 IN	LF	E024		STD	N	
2504-0134030	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, PVC, 30 IN	LF	E024		STD	N	
2504-0134036	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, PVC, 36 IN	LF	E024		STD	N	
2504-0136004	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, DIP, 4 IN	LF	E024		STD	N	
2504-0136006	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, DIP, 6 IN	LF	E024		STD	N	
2504-0136008	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, DIP, 8 IN	LF	E024		STD	N	
2504-0136010	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, DIP, 10 IN	LF	E024		STD	N	
2504-0136012	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, DIP, 12 IN	LF	E024		STD	N	
2504-0136014	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, DIP, 14 IN	LF	E024		STD	N	
2504-0136016	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, DIP, 16 IN	LF	E024		STD	N	
2504-0136018	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, DIP, 18 IN	LF	E024		STD	N	
2504-0136020	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, DIP, 20 IN	LF	E024		STD	N	
2504-0136024	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, DIP, 24 IN	LF	E024		STD	N	
2504-0136030	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, DIP, 30 IN	LF	E024		STD	N	
2504-0136036	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, DIP, 36 IN	LF	E024		STD	N	
2504-0136042	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, DIP, 42 IN	LF	E024		STD	N	
2504-0136048	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, DIP, 48 IN	LF	E024		STD	N	
2504-0136054	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, DIP, 54 IN	LF	E024		STD	N	
2504-0138008	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, VCP, STD. STRENGTH, 8 IN	LF	E024		STD	N	
2504-0138010	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, VCP, STD. STRENGTH, 10 IN	LF	E024		STD	N	
2504-0138012	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, VCP, STD. STRENGTH, 12 IN	LF	E024		STD	N	
2504-0138015	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, VCP, STD. STRENGTH, 15 IN	LF	E024		STD	N	
2504-0138018	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, VCP, STD. STRENGTH, 18 IN	LF	E024		STD	N	
2504-0138021	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, VCP, STD. STRENGTH, 21 IN	LF	E024		STD	N	
2504-0138024	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, VCP, STD. STRENGTH, 24 IN	LF	E024		STD	N	
2504-0138027	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, VCP, STD. STRENGTH, 27 IN	LF	E024		STD	N	
2504-0138030	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, VCP, STD. STRENGTH, 30 IN	LF	E024		STD	N	
2504-0138033	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, VCP, STD. STRENGTH, 33 IN	LF	E024		STD	N	
2504-0138036	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, VCP, STD. STRENGTH, 36 IN	LF	E024		STD	N	
2504-0138039	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, VCP, STD. STRENGTH, 39 IN	LF	E024		STD	N	
2504-0138042	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, VCP, STD. STRENGTH, 42 IN	LF	E024		STD	N	
2504-0139008	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, VCP, EXTRA STRENGTH, 8 IN	LF	E024		STD	N	
2504-0139010	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, VCP, EXTRA STRENGTH, 10 IN	LF	E024		STD	N	
2504-0139012	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, VCP, EXTRA STRENGTH, 12 IN	LF	E024		STD	N	
2504-0139015	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, VCP, EXTRA STRENGTH, 15 IN	LF	E024		STD	N	
2504-0139018	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, VCP, EXTRA STRENGTH, 18 IN	LF	E024		STD	N	
2504-0139021	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, VCP, EXTRA STRENGTH, 21 IN	LF	E024		STD	N	
2504-0139024	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, VCP, EXTRA STRENGTH, 24 IN	LF	E024		STD	N	
2504-0139027	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, VCP, EXTRA STRENGTH, 27 IN	LF	E024		STD	N	
2504-0139030	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, VCP, EXTRA STRENGTH, 30 IN	LF	E024		STD	N	
2504-0139033	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, VCP, EXTRA STRENGTH, 33 IN	LF	E024		STD	N	
2504-0139036	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, VCP, EXTRA STRENGTH, 36 IN	LF	E024		STD	N	
2504-0139039	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, VCP, EXTRA STRENGTH, 39 IN	LF	E024		STD	N	
2504-0139042	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, VCP, EXTRA STRENGTH, 42 IN	LF	E024		STD	N	
2504-0140008	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 8 IN	LF	E024		STD	N	
2504-0140010	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 10 IN	LF	E024		STD	N	
2504-0140012	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 12 IN	LF	E024		STD	N	
2504-0140015	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 15 IN	LF	E024		STD	N	
2504-0140018	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 18 IN	LF	E024		STD	N	
2504-0140021	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 21 IN	LF	E024		STD	N	
2504-0140024	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 24 IN	LF	E024		STD	N	
2504-0140027	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 27 IN	LF	E024		STD	N	
2504-0140030	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 30 IN	LF	E024		STD	N	
2504-0140033	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 33 IN	LF	E024		STD	N	
2504-0140036	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 36 IN	LF	E024		STD	N	
2504-0140042	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 42 IN	LF	E024		STD	N	
2504-0140048	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 48 IN	LF	E024		STD	N	
2504-0140054	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 54 IN	LF	E024		STD	N	
2504-0140060	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, 60 IN	LF	E024		STD	N	
2504-0142212	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 2000D (CLASS III), 12 IN	LF	E024		STD	N	
2504-0142215	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 2000D (CLASS III), 15 IN	LF	E024		STD	N	
2504-0142218	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 2000D (CLASS III), 18 IN	LF	E024		STD	N	
2504-0142221	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 2000D (CLASS III), 21 IN	LF	E024		STD	N	
2504-0142224	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 2000D (CLASS III), 24 IN	LF	E024		STD	N	
2504-0142227	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 2000D (CLASS III), 27 IN	LF	E024		STD	N	
2504-0142230	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 2000D (CLASS III), 30 IN	LF	E024		STD	N	
2504-0142233	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 2000D (CLASS III), 33 IN	LF	E024		STD	N	
2504-0142236	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 2000D (CLASS III), 36 IN	LF	E024		STD	N	
2504-0142242	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 2000D (CLASS III), 42 IN	LF	E024		STD	N	
2504-0142248	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 2000D (CLASS III), 48 IN	LF	E024		STD	N	
2504-0142254	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 2000D (CLASS III), 54 IN	LF	E024		STD	N	
2504-0142260	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 2000D (CLASS III), 60 IN	LF	E024		STD	N	
2504-0142266	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 2000D (CLASS III), 66 IN	LF	E024		STD	N	
2504-0142272	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 2000D (CLASS III), 72 IN	LF	E024		STD	N	
2504-0142412	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3000D (CLASS IV), 12 IN	LF	E024		STD	N	
2504-0142415	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3000D (CLASS IV), 15 IN	LF	E024		STD	N	
2504-0142418	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3000D (CLASS IV), 18 IN	LF	E024		STD	N	
2504-0142421	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3000D (CLASS IV), 21 IN	LF	E024		STD	N	
2504-0142424	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3000D (CLASS IV), 24 IN	LF	E024		STD	N	
2504-0142427	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3000D (CLASS IV), 27 IN	LF	E024		STD	N	
2504-0142430	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3000D (CLASS IV), 30 IN	LF	E024		STD	N	
2504-0142433	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3000D (CLASS IV), 33 IN	LF	E024		STD	N	
2504-0142436	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3000D (CLASS IV), 36 IN	LF	E024		STD	N	
2504-0142442	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3000D (CLASS IV), 42 IN	LF	E024		STD	N	
2504-0142448	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3000D (CLASS IV), 48 IN	LF	E024		STD	N	
2504-0142454	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3000D (CLASS IV), 54 IN	LF	E024		STD	N	
2504-0142460	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3000D (CLASS IV), 60 IN	LF	E024		STD	N	

Item Code	Description	Units	Form	Support Forms	Meas/ Pay	Plan Quantity N	Y
2504-0142466	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3000D (CLASS IV), 66 IN	LF	E024		STD	N	
2504-0142472	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3000D (CLASS IV), 72 IN	LF	E024		STD	N	
2504-0142612	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3750D (CLASS V), 12 IN	LF	E024		STD	N	
2504-0142615	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3750D (CLASS V), 15 IN	LF	E024		STD	N	
2504-0142618	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3750D (CLASS V), 18 IN	LF	E024		STD	N	
2504-0142621	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3750D (CLASS V), 21 IN	LF	E024		STD	N	
2504-0142624	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3750D (CLASS V), 24 IN	LF	E024		STD	N	
2504-0142627	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3750D (CLASS V), 27 IN	LF	E024		STD	N	
2504-0142630	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3750D (CLASS V), 30 IN	LF	E024		STD	N	
2504-0142633	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3750D (CLASS V), 33 IN	LF	E024		STD	N	
2504-0142636	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3750D (CLASS V), 36 IN	LF	E024		STD	N	
2504-0142642	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3750D (CLASS V), 42 IN	LF	E024		STD	N	
2504-0142648	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3750D (CLASS V), 48 IN	LF	E024		STD	N	
2504-0142654	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3750D (CLASS V), 54 IN	LF	E024		STD	N	
2504-0142660	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3750D (CLASS V), 60 IN	LF	E024		STD	N	
2504-0142666	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3750D (CLASS V), 66 IN	LF	E024		STD	N	
2504-0142672	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCP, 3750D (CLASS V), 72 IN	LF	E024		STD	N	
2504-0144008	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, PVC, 8 IN	LF	E024		STD	N	
2504-0144010	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, PVC, 10 IN	LF	E024		STD	N	
2504-0144012	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, PVC, 12 IN	LF	E024		STD	N	
2504-0144015	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, PVC, 15 IN	LF	E024		STD	N	
2504-0144018	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, PVC, 18 IN	LF	E024		STD	N	
2504-0144021	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, PVC, 21 IN	LF	E024		STD	N	
2504-0144024	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, PVC, 24 IN	LF	E024		STD	N	
2504-0144027	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, PVC, 27 IN	LF	E024		STD	N	
2504-0144030	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, PVC, 30 IN	LF	E024		STD	N	
2504-0144036	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, PVC, 36 IN	LF	E024		STD	N	
2504-0146004	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, DIP, 4 IN	LF	E024		STD	N	
2504-0146006	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, DIP, 6 IN	LF	E024		STD	N	
2504-0146008	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, DIP, 8 IN	LF	E024		STD	N	
2504-0146010	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, DIP, 10 IN	LF	E024		STD	N	
2504-0146012	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, DIP, 12 IN	LF	E024		STD	N	
2504-0146014	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, DIP, 14 IN	LF	E024		STD	N	
2504-0146016	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, DIP, 16 IN	LF	E024		STD	N	
2504-0146018	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, DIP, 18 IN	LF	E024		STD	N	
2504-0146020	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, DIP, 20 IN	LF	E024		STD	N	
2504-0146024	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, DIP, 24 IN	LF	E024		STD	N	
2504-0146030	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, DIP, 30 IN	LF	E024		STD	N	
2504-0146036	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, DIP, 36 IN	LF	E024		STD	N	
2504-0146042	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, DIP, 42 IN	LF	E024		STD	N	
2504-0146048	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, DIP, 48 IN	LF	E024		STD	N	
2504-0146054	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, DIP, 54 IN	LF	E024		STD	N	
2504-0148008	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, VCP, STD. STRENGTH, 8 IN	LF	E024		STD	N	
2504-0148010	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, VCP, STD. STRENGTH, 10 IN	LF	E024		STD	N	
2504-0148012	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, VCP, STD. STRENGTH, 12 IN	LF	E024		STD	N	
2504-0148015	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, VCP, STD. STRENGTH, 15 IN	LF	E024		STD	N	
2504-0148018	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, VCP, STD. STRENGTH, 18 IN	LF	E024		STD	N	
2504-0148021	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, VCP, STD. STRENGTH, 21 IN	LF	E024		STD	N	
2504-0148024	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, VCP, STD. STRENGTH, 24 IN	LF	E024		STD	N	
2504-0148027	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, VCP, STD. STRENGTH, 27 IN	LF	E024		STD	N	
2504-0148030	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, VCP, STD. STRENGTH, 30 IN	LF	E024		STD	N	
2504-0148033	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, VCP, STD. STRENGTH, 33 IN	LF	E024		STD	N	
2504-0148036	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, VCP, STD. STRENGTH, 36 IN	LF	E024		STD	N	
2504-0148039	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, VCP, STD. STRENGTH, 39 IN	LF	E024		STD	N	
2504-0148042	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, VCP, STD. STRENGTH, 42 IN	LF	E024		STD	N	
2504-0149008	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, VCP, EXTRA STRENGTH, 8 IN	LF	E024		STD	N	
2504-0149010	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, VCP, EXTRA STRENGTH, 10 IN	LF	E024		STD	N	
2504-0149012	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, VCP, EXTRA STRENGTH, 12 IN	LF	E024		STD	N	
2504-0149015	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, VCP, EXTRA STRENGTH, 15 IN	LF	E024		STD	N	
2504-0149018	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, VCP, EXTRA STRENGTH, 18 IN	LF	E024		STD	N	
2504-0149021	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, VCP, EXTRA STRENGTH, 21 IN	LF	E024		STD	N	
2504-0149024	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, VCP, EXTRA STRENGTH, 24 IN	LF	E024		STD	N	
2504-0149027	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, VCP, EXTRA STRENGTH, 27 IN	LF	E024		STD	N	
2504-0149030	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, VCP, EXTRA STRENGTH, 30 IN	LF	E024		STD	N	
2504-0149033	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, VCP, EXTRA STRENGTH, 33 IN	LF	E024		STD	N	
2504-0149036	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, VCP, EXTRA STRENGTH, 36 IN	LF	E024		STD	N	
2504-0149039	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, VCP, EXTRA STRENGTH, 39 IN	LF	E024		STD	N	
2504-0149042	SANITARY SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, VCP, EXTRA STRENGTH, 42 IN	LF	E024		STD	N	
2504-0150204	SANITARY SEWER FORCE MAIN, TRENCHED, DIP, 4 IN.	LF	E024		STD	N	
2504-0150206	SANITARY SEWER FORCE MAIN, TRENCHED, DIP, 6 IN.	LF	E024		STD	N	
2504-0150208	SANITARY SEWER FORCE MAIN, TRENCHED, DIP, 8 IN.	LF	E024		STD	N	
2504-0150210	SANITARY SEWER FORCE MAIN, TRENCHED, DIP, 10 IN.	LF	E024		STD	N	
2504-0150212	SANITARY SEWER FORCE MAIN, TRENCHED, DIP, 12 IN.	LF	E024		STD	N	
2504-0150214	SANITARY SEWER FORCE MAIN, TRENCHED, DIP, 14 IN.	LF	E024		STD	N	
2504-0150216	SANITARY SEWER FORCE MAIN, TRENCHED, DIP, 16 IN.	LF	E024		STD	N	
2504-0150218	SANITARY SEWER FORCE MAIN, TRENCHED, DIP, 18 IN.	LF	E024		STD	N	
2504-0150220	SANITARY SEWER FORCE MAIN, TRENCHED, DIP, 20 IN.	LF	E024		STD	N	
2504-0150224	SANITARY SEWER FORCE MAIN, TRENCHED, DIP, 24 IN.	LF	E024		STD	N	
2504-0150230	SANITARY SEWER FORCE MAIN, TRENCHED, DIP, 30 IN.	LF	E024		STD	N	
2504-0150236	SANITARY SEWER FORCE MAIN, TRENCHED, DIP, 36 IN.	LF	E024		STD	N	
2504-0150242	SANITARY SEWER FORCE MAIN, TRENCHED, DIP, 42 IN.	LF	E024		STD	N	
2504-0150248	SANITARY SEWER FORCE MAIN, TRENCHED, DIP, 48 IN.	LF	E024		STD	N	
2504-0150254	SANITARY SEWER FORCE MAIN, TRENCHED, DIP, 54 IN.	LF	E024		STD	N	
2504-0150404	SANITARY SEWER FORCE MAIN, TRENCHED, PVC, 4 IN.	LF	E024		STD	N	
2504-0150406	SANITARY SEWER FORCE MAIN, TRENCHED, PVC, 6 IN.	LF	E024		STD	N	
2504-0150408	SANITARY SEWER FORCE MAIN, TRENCHED, PVC, 8 IN.	LF	E024		STD	N	
2504-0150410	SANITARY SEWER FORCE MAIN, TRENCHED, PVC, 10 IN.	LF	E024		STD	N	
2504-0150412	SANITARY SEWER FORCE MAIN, TRENCHED, PVC, 12 IN.	LF	E024		STD	N	
2504-0160204	SANITARY SEWER FORCE MAIN, TRENCHLESS, DIP, 4 IN	LF	E024		STD	N	
2504-0160206	SANITARY SEWER FORCE MAIN, TRENCHLESS, DIP, 6 IN	LF	E024		STD	N	
2504-0160208	SANITARY SEWER FORCE MAIN, TRENCHLESS, DIP, 8 IN	LF	E024		STD	N	
2504-0160210	SANITARY SEWER FORCE MAIN, TRENCHLESS, DIP, 10 IN	LF	E024		STD	N	
2504-0160212	SANITARY SEWER FORCE MAIN, TRENCHLESS, DIP, 12 IN	LF	E024		STD	N	
2504-0160214	SANITARY SEWER FORCE MAIN, TRENCHLESS, DIP, 14 IN	LF	E024		STD	N	
2504-0160216	SANITARY SEWER FORCE MAIN, TRENCHLESS, DIP, 16 IN	LF	E024		STD	N	

Item Code	Description	Units	Form	Support Forms	Meas/ Pay	Plan Quantity N	Plan Quantity Y
2504-0160218	SANITARY SEWER FORCE MAIN, TRENCHLESS, DIP, 18 IN	LF	E024		STD	N	
2504-0160220	SANITARY SEWER FORCE MAIN, TRENCHLESS, DIP, 20 IN	LF	E024		STD	N	
2504-0160224	SANITARY SEWER FORCE MAIN, TRENCHLESS, DIP, 24 IN	LF	E024		STD	N	
2504-0160230	SANITARY SEWER FORCE MAIN, TRENCHLESS, DIP, 30 IN	LF	E024		STD	N	
2504-0160236	SANITARY SEWER FORCE MAIN, TRENCHLESS, DIP, 36 IN	LF	E024		STD	N	
2504-0160242	SANITARY SEWER FORCE MAIN, TRENCHLESS, DIP, 42 IN	LF	E024		STD	N	
2504-0160248	SANITARY SEWER FORCE MAIN, TRENCHLESS, DIP, 48 IN	LF	E024		STD	N	
2504-0160254	SANITARY SEWER FORCE MAIN, TRENCHLESS, DIP, 54 IN	LF	E024		STD	N	
2504-0160404	SANITARY SEWER FORCE MAIN, TRENCHLESS, PVC, 4 IN	LF	E024		STD	N	
2504-0160406	SANITARY SEWER FORCE MAIN, TRENCHLESS, PVC, 6 IN	LF	E024		STD	N	
2504-0160408	SANITARY SEWER FORCE MAIN, TRENCHLESS, PVC, 8 IN	LF	E024		STD	N	
2504-0160410	SANITARY SEWER FORCE MAIN, TRENCHLESS, PVC, 10 IN	LF	E024		STD	N	
2504-0160412	SANITARY SEWER FORCE MAIN, TRENCHLESS, PVC, 12 IN	LF	E024		STD	N	
2504-0170204	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHED, DIP, 4 IN	LF	E024		STD	N	
2504-0170206	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHED, DIP, 6 IN	LF	E024		STD	N	
2504-0170208	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHED, DIP, 8 IN	LF	E024		STD	N	
2504-0170210	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHED, DIP, 10 IN	LF	E024		STD	N	
2504-0170212	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHED, DIP, 12 IN	LF	E024		STD	N	
2504-0170214	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHED, DIP, 14 IN	LF	E024		STD	N	
2504-0170216	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHED, DIP, 16 IN	LF	E024		STD	N	
2504-0170218	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHED, DIP, 18 IN	LF	E024		STD	N	
2504-0170220	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHED, DIP, 20 IN	LF	E024		STD	N	
2504-0170224	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHED, DIP, 24 IN	LF	E024		STD	N	
2504-0170230	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHED, DIP, 30 IN	LF	E024		STD	N	
2504-0170236	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHED, DIP, 36 IN	LF	E024		STD	N	
2504-0170242	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHED, DIP, 42 IN	LF	E024		STD	N	
2504-0170248	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHED, DIP, 48 IN	LF	E024		STD	N	
2504-0170254	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHED, DIP, 54 IN	LF	E024		STD	N	
2504-0170404	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHED, PVC, 4 IN	LF	E024		STD	N	
2504-0170406	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHED, PVC, 6 IN	LF	E024		STD	N	
2504-0170408	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHED, PVC, 8 IN	LF	E024		STD	N	
2504-0170410	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHED, PVC, 10 IN	LF	E024		STD	N	
2504-0170412	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHED, PVC, 12 IN	LF	E024		STD	N	
2504-0180204	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHLESS, DIP, 4 IN	LF	E024		STD	N	
2504-0180206	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHLESS, DIP, 6 IN	LF	E024		STD	N	
2504-0180208	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHLESS, DIP, 8 IN	LF	E024		STD	N	
2504-0180210	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHLESS, DIP, 10 IN	LF	E024		STD	N	
2504-0180212	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHLESS, DIP, 12 IN	LF	E024		STD	N	
2504-0180214	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHLESS, DIP, 14 IN	LF	E024		STD	N	
2504-0180216	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHLESS, DIP, 16 IN	LF	E024		STD	N	
2504-0180218	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHLESS, DIP, 18 IN	LF	E024		STD	N	
2504-0180220	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHLESS, DIP, 20 IN	LF	E024		STD	N	
2504-0180224	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHLESS, DIP, 24 IN	LF	E024		STD	N	
2504-0180230	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHLESS, DIP, 30 IN	LF	E024		STD	N	
2504-0180236	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHLESS, DIP, 36 IN	LF	E024		STD	N	
2504-0180242	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHLESS, DIP, 42 IN	LF	E024		STD	N	
2504-0180248	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHLESS, DIP, 48 IN	LF	E024		STD	N	
2504-0180254	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHLESS, DIP, 54 IN	LF	E024		STD	N	
2504-0180404	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHLESS, PVC, 4 IN	LF	E024		STD	N	
2504-0180406	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHLESS, PVC, 6 IN	LF	E024		STD	N	
2504-0180408	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHLESS, PVC, 8 IN	LF	E024		STD	N	
2504-0180410	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHLESS, PVC, 10 IN	LF	E024		STD	N	
2504-0180412	SANITARY SEWER FORCE MAIN WITH CASING PIPE, TRENCHLESS, PVC, 12 IN	LF	E024		STD	N	
2504-0200204	SANITARY SEWER SERVICE STUB, DUCTILE IRON, 4 IN	LF	E024		STD	N	
2504-0200206	SANITARY SEWER SERVICE STUB, DUCTILE IRON, 6 IN	LF	E024		STD	N	
2504-0200208	SANITARY SEWER SERVICE STUB, DUCTILE IRON, 8 IN	LF	E024		STD	N	
2504-0200404	SANITARY SEWER SERVICE STUB, PVC, 4 IN	LF	E024		STD	N	
2504-0200406	SANITARY SEWER SERVICE STUB, PVC, 6 IN	LF	E024		STD	N	
2504-0200408	SANITARY SEWER SERVICE STUB, PVC, 8 IN	LF	E024		STD	N	
2504-0200604	SANITARY SEWER SERVICE STUB WITH RISER, DUCTILE IRON, 4 IN	LF	E024		STD	N	
2504-0200606	SANITARY SEWER SERVICE STUB WITH RISER, DUCTILE IRON, 6 IN	LF	E024		STD	N	
2504-0200608	SANITARY SEWER SERVICE STUB WITH RISER, DUCTILE IRON, 8 IN	LF	E024		STD	N	
2504-0200804	SANITARY SEWER SERVICE STUB WITH RISER, PVC, 4 IN	LF	E024		STD	N	
2504-0200806	SANITARY SEWER SERVICE STUB WITH RISER, PVC, 6 IN	LF	E024		STD	N	
2504-0200808	SANITARY SEWER SERVICE STUB WITH RISER, PVC, 8 IN	LF	E024		STD	N	
2504-0220000	SANITARY SEWER SERVICE RELOCATION	EACH	E039		STD	N	
2504-0230000	SEWAGE AIR RELEASE VALVE AND PIT	EACH	E039		STD	N	
2504-0240036	REMOVE SANITARY SEWER PIPE LESS THAN OR EQUAL TO 36 IN	LF	E039		STD	N	
2504-0240136	REMOVE SANITARY SEWER PIPE GREATER THAN 36 IN	LF	E039		STD	N	
2504-0240145	SANITARY SEWER CLEANOUT	EACH	E018		STD	N	
2504-0240236	SANITARY SEWER ABANDONMENT, FILL AND PLUG, LESS THAN OR EQUAL TO 36 IN. DIA	LF	E018		STD	N	
2504-0240237	SANITARY SEWER ABANDONMENT, FILL AND PLUG, GREATER THAN 36 IN. DIA	LF	E018		STD	N	
2504-0320300	SANITARY SEWER CLEANOUT, SW-203	EACH	E039		PLAN	N	
2505-4008120	REMOVAL OF STEEL BEAM GUARDRAIL	LF	E039		STD	N	
2505-4008130	REMOVAL OF CABLE GUARDRAIL	LF	E039		STD	N	
2505-4008300	STEEL BEAM GUARDRAIL	LF	E039		STD		Y
2505-4008400	STEEL BEAM GUARDRAIL BARRIER TRANSITION SECTION	EACH	E039		STD	N	
2505-4020580	G'RAIL SPECIAL ANCHOR SECTION	EACH	E039		PLAN	N	
2505-4021010	STEEL BEAM GUARDRAIL END ANCHOR, BOLTED	EACH	E039		STD	N	
2505-4021020	STEEL BEAM GUARDRAIL END ANCHOR, W-BEAM	EACH	E039		STD	N	
2505-4021030	STEEL BEAM GUARDRAIL END ANCHOR, THRIE BEAM	EACH	E039		STD	N	
2505-4021700	STEEL BEAM GUARDRAIL END TERMINAL	EACH	E039		STD	N	
2505-4021701	STEEL BEAM GUARDRAIL FLARED END TERMINAL	EACH	E039		STD	N	
2505-4021705	STEEL BEAM GUARDRAIL MEDIAN END TERMINAL	EACH	E039		PLAN	N	
2505-4502100	STEEL BEAM GUARDRAIL, POST ADAPTER UNIT, BA-21C	EACH	E039		SRP		Y
2505-6000000	GUARDRAIL HEIGHT ADJUSTMENT	LF	E018		PLAN		Y
2505-6000111	HIGH TENSION CABLE GUARDRAIL	LF	E001		STD		Y
2505-6000121	HIGH TENSION CABLE GUARDRAIL, END ANCHOR	EACH	E039		STD	N	
2505-6000131	HIGH TENSION CABLE GUARDRAIL, SPARE PARTS KIT	EACH	E039		STD	N	
2505-6000211	LOW TENSION CABLE GUARDRAIL	LF	E039		STD		Y
2505-6000221	LOW TENSION CABLE GUARDRAIL END ANCHOR	EACH	E039		STD	N	
2505-6001010	LINE POST, REPAIR	EACH	E039		SP	N	
2505-6001012	LINE POST, REPLACE	EACH	E039		SP	N	
2505-6001014	LINE POST FOUNDATION, REPLACE	EACH	E039		SP	N	
2505-6001020	END ANCHOR, REPAIR	EACH	E039		SP	N	

Item Code	Description	Units	Form	Support Forms	Meas/ Pay	Plan Quantity N	Plan Quantity Y
2505-6001030	TURNBUCKLE, REPLACE	EACH	E039		SP	N	
2505-6001040	HIGH TENSION CABLE GUARDRAIL, REPLACE	LF	E039		SP	N	
2506-4984000	FLOWABLE MORTAR	CY	E001		STD	N	
2507-0050005	EARTH SCREW ANCHOR	EACH	E039		PLAN	N	
2507-3250005	ENGINEERING FABRIC	SY	E003		STD	N	
2507-4011100	CONCRETE GROUT FOR REVETMENT OR GABIONS	CY	E001		STD	N	
2507-6799000	BANK SHAPING	LS	E005		STD		Y
2507-6800000	MAT'L FOR FILTER BLANKET	TON	E001		STD	N	
2507-6800011	REVETMENT, CLASS A	SY	E003		STD	N	
2507-6800021	REVETMENT, CLASS B	TON	E001		STD	N	
2507-6800032	REVETMENT, CLASS C	TON	E001		STD	N	
2507-6800042	REVETMENT, CLASS D	TON	E001		STD	N	
2507-6800061	REVETMENT, CLASS E	TON	E001		STD	N	
2507-6825001	REVETMENT CONC HAUL AND PLACE	CY	E004		PLAN	N	
2507-6825005	REVETMENT CONC HAUL AND PLACE	TON	E001		PLAN	N	
2507-6850053	REVETMENT SPECIAL	TON	E001		PLAN	N	
2507-6875002	REVETMENT, REMOVE AND REPLACE	CY	E025		PLAN	N	
2507-8029000	STONE EROSION	TON	E001		STD	N	
2507-8100000	CONCRETE BLOCKS, AS PER PLAN	EACH	E039		PLAN	N	
2507-8100331	CONCRETE BLOCKS, 3' X 3' X 1', AS PER PLAN	EACH	E039		PLAN	N	
2507-8100332	CONCRETE BLOCKS, 3' X 3' X 2', AS PER PLAN	EACH	E039		PLAN	N	
2507-8100333	CONCRETE BLOCKS, 3' X 3' X 3', AS PER PLAN	EACH	E039		PLAN	N	
2507-8500040	FABRIC FORMED CONC. REVT, ARTICULATING BLOCK MAT, 4 INCH	SY	E003		DS		Y
2507-8500060	FABRIC FORMED CONC. REVT, ARTICULATING BLOCK MAT, 6 INCH	SY	E003		DS		Y
2507-8500080	FABRIC FORMED CONC. REVT, ARTICULATING BLOCK MAT, 8 INCH	SY	E003		DS		Y
2507-8500100	FABRIC FORMED CONC. REVT, ARTICULATING BLOCK MAT, 10 INCH	SY	E003		DS		Y
2507-8500120	FABRIC FORMED CONC. REVT, ARTICULATING BLOCK MAT, 12 INCH	SY	E003		DS		Y
2507-8501010	FABRIC FORMED CONC REVT, ARMOR UNIT	SY	E003		DS		Y
2507-8501020	FABRIC FORMED CONC REVT, ARMOR UNIT REINFORCED	SY	E003		DS		Y
2507-8501100	CONCRETE GROUT FOR FABRIC FORMED CONC REVT	CY	E001		DS	N	
2508-0804000	BRIDGE CLEANING FOR PAINTING	LS	E005		STD		Y
2508-0805000	BLAST CLEANING OF STRUCTURAL STEEL	LS	E005		STD		Y
2508-0970000	CONTAINMENT	LS	E005		STD		Y
2508-0990000	PAINT WASTE TRANSPORT + DISPOSAL	LS	E005		STD		Y
2508-0991000	PAINTING OF STRUCTURAL STEEL	LS	E005		STD		Y
2510-5125000	BREAKING UP PAVEMENT	SY	E003	E101	STD		Y
2510-5204000	PAVT SCARIFICATION (HMA PRIOR TO PAVEMENT REMOVAL)	SY	E003		STD		Y
2510-6745030	RMVL OF ANCHOR LUGS	EACH	E039		STD	N	
2510-6745640	RMVL OF EXIST P.C. OVERLAY	SY	E003		PLAN	N	
2510-6745850	REMOVAL OF PAVEMENT	SY	E003	E101	STD	N	
2510-6750501	REMOVAL AND CRUSHING OF PAVEMENT	SY	E003	E101	STD		Y
2510-6750600	REMOVAL OF INTAKES AND UTILITY ACCESSES	EACH	E039		STD	N	
2511-0300000	REMOVAL OF RECREATIONAL TRAIL	SY	E003		STD		Y
2511-0301200	RECREATIONAL TRAIL, HOT MIX ASPHALT, 2 IN	SY	E042	E020 E110 E121 E131	STD		Y
2511-0301300	RECREATIONAL TRAIL, HOT MIX ASPHALT, 3 IN	SY	E042	E020 E110 E121 E131	STD		Y
2511-0301400	RECREATIONAL TRAIL, HOT MIX ASPHALT, 4 IN	SY	E042	E020 E110 E121 E131	STD		Y
2511-0301500	RECREATIONAL TRAIL, HOT MIX ASPHALT, 5 IN	SY	E042	E020 E110 E121 E131	STD		Y
2511-0301600	RECREATIONAL TRAIL, HOT MIX ASPHALT, 6 IN	SY	E042	E020 E110 E121 E131	STD		Y
2511-0301800	RECREATIONAL TRAIL, HOT MIX ASPHALT, 8 IN	SY	E042	E020 E110 E121 E131	STD		Y
2511-0302400	RECREATIONAL TRAIL, PCC, 4 IN.	SY	E023	E109 E110 E111 E115 E140 E141	STD		Y
2511-0302500	RECREATIONAL TRAIL, PCC, 5 IN.	SY	E023	E109 E110 E111 E115 E140 E141	STD		Y
2511-0302600	RECREATIONAL TRAIL, PCC, 6 IN.	SY	E023	E109 E110 E111 E115 E140 E141	STD		Y
2511-0302700	RECREATIONAL TRAIL, PCC, 7 IN.	SY	E023	E109 E110 E111 E115 E140 E141	STD		Y
2511-0302800	RECREATIONAL TRAIL, PCC, 8 IN.	SY	E023	E109 E110 E111 E115 E140 E141	STD		Y
2511-0310100	SPECIAL COMPACTION OF SUBGRADE FOR RECREATIONAL TRAIL	STA	E001	E107 E108	STD		Y
2511-6745900	RMVL OF SIDEWALK	SY	E003		STD		Y
2511-7526004	SIDEWALK PCC 4 IN	SY	E003	E110 E115	STD		Y
2511-7526005	SIDEWALK PCC 5 IN	SY	E003	E110 E115	STD		Y
2511-7526006	SIDEWALK PCC 6 IN	SY	E003	E110 E115	STD		Y
2511-7526007	SIDEWALK, PCC, 7 IN	SY	E003	E110 E115	STD		Y
2511-7526008	SIDEWALK, PCC, 8 IN	SY	E003	E110 E115	STD		Y
2511-7526010	SIDEWALK, PCC, 10 IN.	SY	E003	E110 E115	STD		Y
2511-7526105	SIDEWALK REINF PCC 5 IN	SY	E003	E110 E111 E115	STD		Y
2511-7526106	SIDEWALK REINF PCC 6 IN	SY	E003	E110 E111 E115	STD		Y
2511-7526107	SIDEWALK, REINF PCC 7 IN	SY	E003	E110 E111 E115	STD		Y
2511-7526108	SIDEWALK REINF PCC 8 IN	SY	E003	E110 E111 E115	STD		Y
2511-7528101	DETECTABLE WARNINGS	SF	E002		STD	N	
2511-7528150	PEDESTRIAN CHANNELIZER	LF	E001		SRP	N	
2512-1725156	CURB+GUTTER PCC 1.5'	LF	E001	E110 E115	STD	N	
2512-1725206	CURB+GUTTER PCC 2.0'	LF	E001	E110 E115	STD	N	
2512-1725256	CURB+GUTTER PCC 2.5'	LF	E001	E110 E115	STD	N	
2512-1725306	CURB+GUTTER PCC 3.0'	LF	E001	E110 E115	STD	N	
2512-1725356	CURB+GUTTER PCC 3.5'	LF	E001	E110 E115	STD	N	
2512-1725406	CURB+GUTTER PCC 4.0'	LF	E001	E110 E115	STD	N	
2512-1725456	CURB+GUTTER PCC 4.5'	LF	E001	E110 E115	STD	N	
2512-1725506	CURB+GUTTER PCC 5.0'	LF	E001	E110 E115	STD	N	
2512-1725556	CURB+GUTTER PCC 5.5'	LF	E001	E110 E115	STD	N	
2512-1750006	CURB+GUTTER PCC, AS PER PLAN	LF	E001	E110 E115	STD	N	
2512-1859000	CURB SPECIAL AS PER PLAN	LF	E001	E115	STD	N	
2512-1950000	CURB DOWELLED PCC AS PER PLAN	LF	E001	E115	STD	N	
2513-0001000	CONCRETE BARRIER, BA-100	LF	E001	E115	STD5		Y
2513-0001005	CONCRETE BARRIER, BA-100 AND FOOTING	LF	E001	E115	STD5		Y
2513-0001011	CONCRETE BARRIER, BA-101	EACH	E001	E115	STD5		Y
2513-0001020	CONCRETE BARRIER, BA-102	LF	E001	E115	STD5		Y
2513-0001025	CONCRETE BARRIER, BA-102 AND FOOTING	LF	E001	E115	STD5		Y
2513-0001030	CONCRETE BARRIER, BA-103	LF	E001	E115	STD5		Y
2513-0001035	CONCRETE BARRIER, BA-103 AND FOOTING	LF	E001	E115	STD5		Y
2513-0001040	CONCRETE BARRIER, BA-104	LF	E001	E115	STD5		Y
2513-0001050	CONCRETE BARRIER, BA-105	EACH	E039	E115	STD5	N	
2513-0001070	CONCRETE BARRIER RAIL, BA-107	EACH	E039	E115	STD5	N	
2513-0001081	CONCRETE BARRIER, TAPERED END, BA-108	EACH	E039	E115	STD5	N	
2513-0001105	CONCRETE BARRIER, BA-105 AND FOOTING	EACH	E039	E115	STD5	N	
2513-0471000	BARRIER CONC APPROACH AS PER PLAN	EACH	E039	E115	PLAN	N	
2513-0471001	BARRIER CONC APPROACH MODIFIED	EACH	E039	E115	PLAN	N	
2513-0474990	BARRIER CONC REINF AS PER PLAN	LF	E001	E115	STD		Y

Item Code	Description	Units	Form	Support Forms	Meas/ Pay	Plan Quantity N	Plan Quantity Y
2513-0475000	BARRIER CONC TRANSITION SECTION	EACH	E001	E115	SRP		Y
2513-2350010	CONCRETE BARRIER (PEDESTRIAN/TRAFFIC)	LF	E001	E115	PLAN		Y
2513-2350015	CONCRETE BARRIER END SECTION (PEDESTRIAN/TRAFFIC)	EACH	E001	E115	PLAN	N	
2513-4870003	MEDIAN BARRIER PCC	LF	E001	E115	STD		Y
2514-0000100	REMOVAL POSTS (OBJECT MARKER FOR FLUME)	EACH	E039		STD	N	
2515-2475005	DRIVES PCC 5 IN	SY	E003	E110 E111 E115	STD		Y
2515-2475006	DRIVES PCC 6 IN	SY	E003	E110 E111 E115	STD		Y
2515-2475007	DRIVES PCC 7 IN	SY	E003	E110 E111 E115	STD		Y
2515-2475008	DRIVES PCC 8 IN	SY	E003	E110 E111 E115	STD		Y
2515-2475009	DRIVES PCC 9 IN	SY	E003	E110 E111 E115	STD		Y
2515-2475075	DRIVES PCC 7 1/2 IN	SY	E003	E110 E111 E115	STD		Y
2515-2475095	DRIVES PCC 9 1/2 IN	SY	E003	E110 E111 E115	STD		Y
2515-2475106	DRIVES REINF PCC 6 IN	SY	E003	E110 E111 E115	STD		Y
2515-6745600	REMOVAL OF PAVED DRIVEWAY	SY	E003		STD		Y
2516-8625000	COMBINED CONC SIDEWALK AND RETAINING WALL	CY	E004	E110 E115	STD		Y
2516-8725000	PCC RETAINING WALL	CY	E004	E115	STD		Y
2516-8725006	LIMESTONE RETAINING WALL	SF	E002		PLAN		Y
2516-8725065	SPECIAL RETAINING WALL, AS PER PLAN	SF	E002		PLAN		Y
2517-4225210	RAILROAD APPROACH SECTION, P.C.C.	SY	E023	E109 E110 E111 E115 E140 E141	STD		Y
2517-4225220	RAILROAD APPROACH SECTION, HMA	SY	E042	E020 E110 E121 E131	STD		Y
2518-0470005	CROSSOVER BARRICADE	EACH	E039		PLAN	N	
2518-6745880	RMVL OF RD CLOSURE BARRICADE	EACH	E039		PLAN	N	
2518-6765001	REMOVE AND REINSTALL CROSSOVER BARRICADES	EACH	E025		PLAN	N	
2518-6891810	PERMANENT ROAD CLOSURE, RURAL, SI-181	LF	E039		SRP	N	
2518-6891820	PERMANENT ROAD CLOSURE, URBAN, SI-182	EACH	E039		SRP	N	
2518-6910000	SAFETY CLOSURE	EACH	E039		STD	N	
2519-1001000	FENCE, CHAIN LINK, VINYL COATED	LF	E001		STD	N	
2519-1002042	FENCE, CHAIN LINK, 42 IN. HEIGHT	LF	E001		STD	N	
2519-1002048	FENCE, CHAIN LINK, 48 IN. HEIGHT	LF	E001		STD	N	
2519-1002060	FENCE, CHAIN LINK, 60 IN. HEIGHT	LF	E001		STD	N	
2519-1002072	FENCE, CHAIN LINK, 72 IN. HEIGHT	LF	E001		STD	N	
2519-1002084	FENCE, CHAIN LINK, 84 IN. HEIGHT	LF	E001		STD	N	
2519-1002096	FENCE, CHAIN LINK, 96 IN. HEIGHT	LF	E001		STD	N	
2519-1002120	FENCE, CHAIN LINK, 120 IN. HEIGHT	LF	E001		STD	N	
2519-1003072	FENCE, CHAIN LINK WITH SECURITY TOP, 72 IN. HEIGHT	LF	E001		STD	N	
2519-1004072	FENCE, CHAIN LINK, 72 IN. HEIGHT, ON WALL	LF	E001		STD	N	
2519-1019018	FENCE UNDERLAYMENT, 18 INCH WIDE	LF	E001		PLAN	N	
2519-2000010	FENCE, CHANNEL CROSSING, TYPE A	LF	E001		STD	N	
2519-2000020	FENCE, CHANNEL CROSSING, TYPE B	LF	E001		STD	N	
2519-2000100	FENCE, CHANNEL CROSSING, CHAIN LINK, AS PER PLAN	LF	E001		STD	N	
2519-3000000	FLOOD PLAIN FENCE	LF	E001		STD	N	
2519-3280000	FENCE, FIELD	LF	E001		STD	N	
2519-3300400	FIELD FENCE BRACE PANELS	EACH	E039		STD	N	
2519-3300600	FENCE, SAFETY	LF	E001		PLAN	N	
2519-3300700	FENCE, TEMPORARY	LF	E001		PLAN	N	
2519-3500096	DEER FENCE, 96 IN.	LF	E001		PLAN	N	
2519-3600201	CHANNEL CROSSING, DEER FENCE, TYPE A	LF	E001		PLAN	N	
2519-3600221	DEER FENCE BRACE PANELS	EACH	E039		PLAN	N	
2519-3610000	SMALL ANIMAL BARRIER	LF	E001		PLAN	N	
2519-3700000	GATE AS PER PLAN	EACH	E039		STD	N	
2519-3700001	GATE DEER AS PER PLAN	EACH	E039		PLAN	N	
2519-3711600	GATE ASSEMBLY, CHAIN LINK, 16 FT.	EACH	E039		STD5	N	
2519-3750012	GATE FIELD FENCE 12'	EACH	E039		STD	N	
2519-3750017	GATE, FIELD FENCE, 16 FT.	EACH	E039		STD5	N	
2519-3750018	GATE FIELD FENCE 18'	EACH	E039		STD	N	
2519-3750020	GATE FIELD FENCE 20'	EACH	E039		STD	N	
2519-3750022	GATE FIELD FENCE 22'	EACH	E039		STD	N	
2519-3750024	GATE FIELD FENCE 24'	EACH	E039		STD	N	
2519-3760000	ENTRANCE BOLLARD	EACH	E039		PLAN	N	
2519-4200010	REMOVAL AND REINSTALLATION OF FENCE, BARBED WIRE	LF	E018		STD		Y
2519-4200020	REMOVAL AND REINSTALLATION OF FENCE, CHAIN LINK	LF	E018		STD		Y
2519-4200030	REMOVAL AND REINSTALLATION OF FENCE, DEER	LF	E018		STD		Y
2519-4200040	REMOVAL AND REINSTALLATION OF FENCE, FIELD	LF	E018		STD		Y
2519-4200090	REMOVAL AND REINSTALLATION OF FENCE,	LF	E018		STD		Y
2519-4200110	REMOVAL OF FENCE, BARBED WIRE	LF	E018		STD		Y
2519-4200120	REMOVAL OF FENCE, CHAIN LINK	LF	E018		STD		Y
2519-4200130	REMOVAL OF FENCE, DEER	LF	E018		STD		Y
2519-4200140	REMOVAL OF FENCE, FIELD	LF	E018		STD		Y
2519-4200190	REMOVAL OF FENCE,	LF	E018		STD		Y
2520-3350010	FIELD LABORATORY	EACH	E039		STD	N	
2520-3350015	FIELD OFFICE	EACH	E039		STD	N	
2522-8929100	LIGHT TOWER 100'	EACH	E039		STD	N	
2522-8929120	LIGHT TOWER 120'	EACH	E039		STD	N	
2522-8929130	LIGHT TOWER 130'	EACH	E039		STD	N	
2522-8929140	LIGHT TOWER 140'	EACH	E039		STD	N	
2522-8929150	LIGHT TOWER 150'	EACH	E039		STD	N	
2522-8929160	LIGHT TOWER 160'	EACH	E039		STD	N	
2522-8929300	LIGHT TOWER RMV+REPLACE	EACH	E025		PLAN	N	
2522-8930230	LUMINAIRE, TOWER FLOODLIGHTING	EACH	E039		STD	N	
2523-0000100	LIGHTING POLES	EACH	E039		STD	N	
2523-0000200	ELECTRICAL CIRCUITS	LF	E018		STD		Y
2523-0000310	HANDHOLES AND JUNCTION BOXES	EACH	E039		STD	N	
2523-0000400	CONTROL CABINET	EACH	E039		STD	N	
2523-0000500	UNDER DECK LIGHTING (RM-41)	EACH	E039		STD	N	
2523-6765009	REMOVE & REINSTALL LIGHT POLE & LUMINAIRE	EACH	E025		PLAN	N	
2524-6765010	RMV+RE-INSTALL SIGN, AS PER PLAN	EACH	E025		PLAN	N	
2524-6765014	RMV+REINSTALL MILEPOST MARKER	EACH	E025		PLAN	N	
2524-6765015	RMV+REINSTALL DELINEATOR POSTS	EACH	E025		PLAN	N	
2524-6765110	REMOVAL OF TYPE A SIGN	EACH	E039		PLAN	N	
2524-6765120	REMOVAL OF TYPE B SIGN	EACH	E039		PLAN	N	
2524-6765210	REMOVAL OF TYPE A SIGN ASSEMBLY	EACH	E039		PLAN	N	
2524-6765220	REMOVAL OF TYPE B SIGN ASSEMBLY	EACH	E039		PLAN	N	
2524-9081260	CONC FOOT -FOR BRKWY SIGN POST 2' DIA X 6'	EACH	E039	E145	STD	N	
2524-9081265	CONC FOOT -FOR BRKWY SIGN POST 2' DIA X 6'6"	EACH	E039	E145	STD	N	
2524-9081267	CONC FOOT -FOR BRKWY SIGN POST 2' DIA X 7'	EACH	E039	E145	STD	N	

Item Code	Description	Units	Form	Support Forms	Meas/ Pay	Plan Quantity N	Plan Quantity Y
2524-9081275	CONC FOOT -FOR BRKWY SIGN POST 2'8" DIA X 7'6"	EACH	E039	E145	STD	N	
2524-9081280	CONC FOOT -FOR BRKWY SIGN POST 2'8" DIA X 8'	EACH	E039	E145	STD	N	
2524-9081285	CONC FOOT -FOR BRKWY SIGN POST 2'8" DIA X 8'6"	EACH	E039	E145	STD	N	
2524-9081290	CONC FOOT -FOR BRKWY SIGN POST 2'8" DIA X 9'	EACH	E039	E145	STD	N	
2524-9089100	DELINEATOR, RIGID - TYPE I	EACH	E001		STD	N	
2524-9089110	DELINEATOR, RIGID - TYPE IA	EACH	E001		STD	N	
2524-9089200	DELINEATOR, RIGID - TYPE I	EACH	E001		STD	N	
2524-9089300	DELINEATOR, RIGID - TYPE II	EACH	E001		STD	N	
2524-9100010	OBJECT MARKER, TYPE 1	EACH	E039		PLAN	N	
2524-9100020	OBJECT MARKER, TYPE 2	EACH	E039		SRP	N	
2524-9100030	OBJECT MARKER, TYPE 3	EACH	E039		STD	N	
2524-9130011	GUIDANCE MARKER CHEVRON W1-8 (SPECIAL)	EACH	E039		SRP	N	
2524-9210000	MILEPOST MARKERS	EACH	E039		STD	N	
2524-9215006	ROUTE MARKER 6 IN X 6 IN	EACH	E039		STD	N	
2524-9265010	POSTS, STEEL, AS PER PLAN	EACH	E039		PLAN	N	
2524-9275100	POSTS WOOD - TYPE A/B SIGNS 4 INX4 IN	LF	E039		STD	N	
2524-9275222	POSTS WOOD- TYPE A/B SIGNS 4 INX6 IN	LF	E039		STD	N	
2524-9276010	PERFORATED SQUARE STEEL TUBE POSTS	LF	E039		SP	N	
2524-9276021	PERFORATED SQUARE STEEL TUBE POST ANCHOR, BREAK-AWAY SOIL INSTALLATION	EACH	E039		SP	N	
2524-9276024	PERFORATED SQUARE STEEL TUBE POST ANCHOR, BREAK-AWAY CONCRETE INSTALLATION	EACH	E039		SP	N	
2524-9276027	PERFORATED SQUARE STEEL TUBE POST ANCHOR, TRIANGULAR SLIP BASE ASSEMBLY	EACH	E039		SP	N	
2524-9278046	STEEL BREAKAWAY SIGN POSTS, RETANGULAR TUBE, 4" X 6"	LF	E039		SRP	N	
2524-9281000	STEEL BREAKAWAY SIGN POSTS FOR TYPE A OR B SIGNS, INSTALL ONLY	EACH	E039		PLAN	N	
2524-9281090	STEEL BREAKAWAY SIGN POSTS FOR TYPE A OR B SIGNS, W 6 X 9	LF	E039		STD	N	
2524-9281121	STEEL BREAKAWAY SIGN POSTS FOR TYPE A OR B SIGNS, W 6 X 12	LF	E039		STD	N	
2524-9281150	STEEL BREAKAWAY SIGN POSTS FOR TYPE A OR B SIGNS, W 6 X 15	LF	E039		STD	N	
2524-9281180	STEEL BREAKAWAY SIGN POSTS FOR TYPE A OR B SIGNS, W 8 X 18	LF	E039		STD	N	
2524-9281210	STEEL BREAKAWAY SIGN POSTS FOR TYPE A OR B SIGNS, W 8 X 21	LF	E039		STD	N	
2524-9281322	STEEL BREAKAWAY SIGN POSTS FOR TYPE A OR B SIGNS, W 10 X 22	LF	E039		STD	N	
2524-9281326	STEEL BREAKAWAY SIGN POSTS FOR TYPE A OR B SIGNS, W 10 X 26	LF	E039		STD	N	
2524-9281426	STEEL BREAKAWAY SIGN POSTS FOR TYPE A OR B SIGNS, W 12 X 26	LF	E039		STD	N	
2524-9282010	WILDLIFE WARNING REFLECTORS, AS PER PLAN	EACH	E039		PLAN	N	
2524-9290006	SIGNS MODIFICATION OF EXIST	EACH	E039		PLAN	N	
2524-9290009	SIGN MOUNT BRACKETS SPECIAL	EACH	E039		PLAN	N	
2524-9325001	TYPE A SIGNS ALUM	SF	E002		STD	N	
2524-9325005	TYPE A SIGNS STEEL	SF	E002		STD	N	
2524-9325007	TYPE A SIGNS , PLYWOOD	SF	E002		STD	N	
2524-9325100	TYPE A SIGNS ,MODIFICATION, AS PER PLAN	EACH	E039		PLAN	N	
2524-9325150	INSTALL TYPE A SIGN	EACH	E039		PLAN	N	
2524-9380001	TYPE B SIGNS, EXTRUDED ALUMINUM STRUCTURAL PANELS	SF	E002		STD	N	
2524-9680002	TYPE B SIGNS, FORMED STEEL PANEL	SF	E002		STD	N	
2524-9680250	INSTALL TYPE B SIGN	EACH	E039		PLAN	N	
2525-0000100	TRAFFIC SIGNALIZATION	LS	E005		STD		Y
2525-0000120	REMOVAL OF TRAFFIC SIGNALIZATION	LS	E005		STD		Y
2525-0000200	LOOP DETECTORS (ADD OR RPLC TO AN EXISTING SNL SYSTEM)	EACH	E039		PLAN	N	
2526-8285000	SURVEY CONSTRUCTION	LS	E005		STD		Y
2527-8400065	TEMP DELINEATORS	EACH	E001		STD	N	
2527-9263005	PAVT MARKERS RAISED	EACH	E001		STD	N	
2527-9263100	PAINTED AIRPORT PAVEMENT MARKINGS	SF	E002		SP	N	
2527-9263104	AIRPORT PAVEMENT MARKINGS REMOVED	SF	E002		SP	N	
2527-9263109	PAINTED PAVEMENT MARKING WATERBORNE OR SOLVENT	STA	E026		STD	N	
2527-9263112	PAINTED PAVEMENT MARKINGS, HIGHBUILD WATERBORNE	STA	E026		SP	N	
2527-9263117	PAINTED PAVEMENT MARKINGS, DURABLE	STA	E026		STD	N	
2527-9263118	PAINTED PAVEMENT MARKINGS, supplemental description required	STA	E026		STD	N	
2527-9263122	PERMANENT TAPE MARKINGS REGULAR TAPE	STA	E026		STD	N	
2527-9263124	PERMANENT TAPE MARKINGS PREFORMED POLYMER MARKING MATERIAL	STA	E026		STD	N	
2527-9263126	PERM TAPE MARKING (PROFILED PAVEMENT MARKING TAPE)	STA	E026		STD	N	
2527-9263128	PERM TAPE MARKING (INTERSECTION MARKING TAPE)	STA	E026		STD	N	
2527-9263130	REMOVABLE TAPE MARKINGS	STA	E026		STD	N	
2527-9263131	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS	STA	E026		SS	N	
2527-9263137	PAINTED SYMBOLS AND LEGENDS, WATERBORNE OR SOLVENT	EACH	E039		STD	N	
2527-9263138	PAINTED SYMBOLS AND LEGENDS, HIGHBUILD WATERBORNE	EACH	E039		SP	N	
2527-9263143	PAINTED SYMBOLS AND LEGENDS, DURABLE	EACH	E039		STD	N	
2527-9263146	PAINTED SYMBOLS AND LEGENDS, supplemental description required	EACH	E039		STD	N	
2527-9263152	PRE-CUT SYMBOLS+LEGEND,REGULAR TAPE	EACH	E039		STD	N	
2527-9263154	PRE-CUT SYMBOLS+LEGEND, PREFORMED POLYMER MARKING MATERIAL	EACH	E039		STD	N	
2527-9263156	PRE-CUT SYMBOLS&LEGEND (PROFILED PAVE MARKING TAPE)	EACH	E039		STD	N	
2527-9263158	PRE-CUT SYMBOLS&LEGEND (INTERSECTION MARKING TAPE)	EACH	E039		STD	N	
2527-9263180	PAVT MARKINGS RMVD	STA	E026		STD	N	
2527-9263190	SYMBOLS+LEGEND RMVD	EACH	E039		STD	N	
2527-9263600	REMOVABLE NONREFLECTIVE PREFORMED TAPE	STA	E026		STD	N	
2527-9270111	GROOVES CUT FOR PAVEMENT MARKINGS	STA	E026	E110	STD	N	
2527-9270120	GROOVES CUT FOR SYMBOLS AND LEGENDS	EACH	E039	E110	STD	N	
2528-3800000	MODULAR GLARE SCREEN	LF	E001		STD	N	
2528-4983200	MONITOR W/INCIDENT RESPONSE	CDAY	E039		STD	N	
2528-5160000	NO EXCUSE ROAD OPENING BONUS	LS	E005		PROP	N	
2528-5160100	CRITICAL CLOSURE INCENTIVE PMT(or Disincentive Assessment)	CDAY	E039		PROP	N	
2528-5160211	LANE AND/OR SHOULDER CLOSURE INCENTIVE PMT(or discentive)	DAY	E039		STD	N	
2528-5160220	LANE AND/OR SHOULDER CLOSURE INCENTIVE PMT(or discentive)	HOUR	E039		STD	N	
2528-8400048	TEMPORARY BARRIER RAIL, CONCRETE	LF	E001		STD	N	
2528-8400049	TEMPORARY BARRIER RAIL, STEEL	LF	E001		STD	N	
2528-8400055	TEMPORARY TO PERMANENT BARRIER CONNECTION	EACH	E039		PLAN	N	
2528-8400157	TEMP FLOODLIGHTING LUMINAIRE	EACH	E039	E126	STD	N	
2528-8400256	TEMP TRAFFIC SIGNALS	EACH	E039	E126	STD	N	
2528-8445110	TRAFFIC CONTROL	LS	E005	E126	STD		Y
2528-8445113	FLAGGERS	EACH	E029		STD	N	
2528-8445115	PILOT CARS	EACH	E029		STD	N	
2528-9109020	TEMPORARY LANE SEPARATOR SYSTEM	LF	E001		STD	N	
2528-9290050	PORTABLE DYNAMIC MESSAGE SIGN (PDMS)	CDAY	E039		STD	N	
2529-0400057	HMA (COMPOSITE SECTION)	TON	E001		STD	N	
2529-2242304	CD JOINT ASSEMBLY	EACH	E001		STD	N	
2529-2242320	CT JOINT ASSEMBLY	EACH	E001		STD	N	
2529-5070110	PATCH FULL-DEPTH FINISH BY AREA	SY	E003	E110 E115 E003 Modified (FD Patches)	STD	N	
2529-5070111	PATCHES, FULL-DEPTH FINISH, BY AREA (50 FEET OR GREATER IN LENGTH)	SY	E003	E110 E115 E003 Modified (FD Patches)	STD	N	
2529-5070120	PATCH FULL-DEPTH FINISH BY COUNT	EACH	E039		STD	N	

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2529-8174010	SUBBASE (PATCH)	SY	E003		STD	N	
2529-8174020	SUBBASE PATCH WITH EF JOINT	SY	E003		STD	N	
2529-8174050	PATCH SUBDRAIN	EACH	E039		STD	N	
2529-8200100	PRESSURE RELIEF JOINT	LF	E001		PLAN	N	
2529-8200200	PRESSURE RELIEF JOINT, CF	LF	E001		PLAN	N	
2529-8201000	JOINT, ASS'Y, EF	EACH	E039		SRP	N	
2529-8202000	RUMBLE STRIP PANEL (IN FULL DEPTH PATCH)	EACH	E039		SRP	N	
2530-0400061	HMA (PARTIAL DEPTH PATCH MATERIAL)	TON	E001		STD	N	
2530-5070210	PATCH PARTIAL-DEPTH PCC FINISH	SF	E002	E110 E115	STD	N	
2530-5070221	REGULAR PARTIAL DEPTH HMA FINISH PATCHES, BY AREA	SY	E003	E110	STD	N	
2530-5070231	IRREGULAR PARTIAL DEPTH HMA FINISH PATCHES, BY AREA	SY	E003	E110	STD	N	
2530-5070240	PARTIAL DEPTH PCC JOINT AND CRACK REPAIR PATCHES	LF	E039	E110 E115	DS	N	
2530-5070250	OVERDEPTH PATCHES	SF	E002	E110 E115	DS	N	
2531-5200010	PAV'T SURF REPAIR (MILL LIMESTONE)	SY	E003		STD	N	
2531-5200020	PAV'T SURF REPAIR (MILL GRAVEL)	SY	E003		STD	N	
2532-5200001	PAV'T SURF REPAIR (GRIND LIMESTONE)	SY	E003	E112	STD		Y
2532-5200002	PAV'T SURF REPAIR (GRIND GRAVEL)	SY	E003	E112	STD		Y
2533-4980005	MOBILIZATION	LS	E030		STD		Y
2533-4980020	MOBILIZATION, ON-CALL	EACH	E039		SP	N	
2535-8700001	WALL TYPE 4 CLOSED FACE CRIB	SY	E003		STD	N	
2535-8700002	WALL TYPE 6 CLOSED FACE CRIB	SY	E003		STD	N	
2535-8700003	WALL TYPE 8 CLOSED FACE CRIB	SY	E003		STD	N	
2535-8700004	WALL TYPE 4 OPEN FACE CRIB	SY	E003		STD	N	
2535-8700006	WALL TYPE 6 OPEN FACE CRIB	SY	E003		STD	N	
2535-8700008	WALL TYPE 8 OPEN FACE CRIB	SY	E003		STD	N	
2436-0000100	PRECAST NOISE WALL	SF	E003		STD		Y
2536-6745045	RMVL OF ASBESTOS	LS	E005		STD		Y
2537-6746000	RMVL OF UNDERGROUND TANKS	EACH	E039		STD	N	
2537-6911020	SAMPLE AND TEST PETROL CONTAM (REMOVE TANK)	EACH	E039		STD	N	
2537-8820900	WATER SAMPLING WELL	EACH	E039		STD	N	
2537-8900000	REMEDIATION OF PETROLEUM CONTAM SOIL	CY	E004		STD	N	
2537-8900100	SAMPLE AND TEST PETROL CONTAM (REMEDIATION)	EACH	E039		STD	N	
2537-8900500	AMENDED SOIL	CY	E004		SP2	N	
2538-6970000	SALVAGE, REMOVAL, DISPOSAL OF OBSTRUC ON PARCEL NO.	LS	E005	E127	STD		Y
2538-6970010	SALVAGE, REMOVAL, DISPOSAL OF OBSTRUCTIONS	LS	E005	E127	STD		Y
2538-6975110	SEAL WELLS	EACH	E039		STD	N	
2539-4254500	HOLES (FOR PRESSURE GROUT)	EACH	E001		STD	N	
2539-6294000	PORTL+CEMENT (PRESSURE GROUTING)	TON	E001		STD	N	
2539-6500000	RAW POLYURETHANE MATERIAL	LB	E039		SP	N	
2540-4480507	JOINT REPAIR LONGITUDINAL	LF	E001		STD	N	
2541-1003001	SAWING AND SEALING JOINTS (HMA SURFACES)	LF	E001		PLAN	N	
2541-1004011	CRACK AND JOINT CLEANING AND SEALING (HMA SURFACES)	MILE	E001		STD	N	
2541-1005001	SEALER MATERIAL (HMA SURFACES)	LB	E001		STD	N	
2542-1006001	CRACK AND JOINT CLEANING AND FILLING (PCC PAVEMENT)	MILE	E001		STD	N	
2542-1007000	SEALING MATERIAL (PCC SURFACES)	LB	E001		STD	N	
2543-1000000	TRANSVERSE JOINT REPAIR	TON	E001		STD	N	
2543-1000110	TRANSVERSE JOINT CLEANING AND SEALING	MILE	E001		DS	N	
2543-1000120	TRANSVERSE JOINT LEVELING	LB	E001		DS	N	
2544-1001100	CLEAN+FILL CRACK (PAV'T MAINT)	MILE	E001		STD	N	
2544-1001200	CLEAN+FILL CRACK (SHLD MAINT)	MILE	E001		STD	N	
2544-1002010	HMA FOR CRACK FILLING	TON	E001		STD	N	
2544-1003000	FILLER MAT'L (MAINT)	GAL	E001		STD	N	
2545-1000000	OVERLAY TYPE B GUIDE SIGNS	SF	E002		STD	N	
2546-1000100	GABION OR MATTRESS	CY	E004		STD		Y
2546-1000200	ANCHOR STAKE	EACH	E039		STD	N	
2548-0000100	MILLED SHOULDER RUMBLE STRIPS, HMA SURFACE	STA	E001		STD		Y
2548-0000110	ASPHALT EMULSION FOR FOG SEAL (SHOULDER RUMBLE STRIPS)	GAL	E001		DS	N	
2548-0000120	ASPHALT EMULSION CONTAINING GILSONITE FOR FOG SEAL (SHOULDER RUMBLE STRIPS)	GAL	E001		SS	N	
2548-0000200	MILLED SHOULDER RUMBLE STRIPS, PCC SURFACE	STA	E001		STD		Y
2548-0000310	MILLED CENTERLINE RUMBLE STRIPS, HMA SURFACE	STA	E001		STD		Y
2548-0000320	MILLED CENTERLINE RUMBLE STRIPS, PCC SURFACE	STA	E001		STD		Y
2549-0001036	PIPE LINING, RESIN, CURED-IN-PLACE, LESS THAN OR EQUAL TO 36 IN. DIA. OR HEIGHT	LF	E024		STD	N	
2549-0001037	PIPE LINING, RESIN, CURED-IN-PLACE, GREATER THAN 36 IN.DIA. OR HEIGHT	LF	E024		STD	N	
2549-0002036	PIPE LINING, DEFORMED/REFORMED POLYETHYLENE, LESS THAN OR EQUAL TO 36 IN. DIA. OR HEIGHT	LF	E024		STD	N	
2549-0002037	PIPE LINING, DEFORMED/REFORMED POLYETHYLENE, GREATER THAN 36 IN. DIA. OR HEIGHT	LF	E024		STD	N	
2549-0003036	PIPE LINING, FOLDED/FORMED POLYVINYL CHLORIDE,LESS THAN OR EQUAL TO 36 IN. DIA. OR HEIGHT	LF	E024		STD	N	
2549-0003037	PIPE LINING, FOLDED/FORMED POLYVINYL CHLORIDE,GREATER THAN 36 IN. DIA. OR HEIGHT	LF	E024		STD	N	
2549-0004036	PIPE LINING, SLIPLINING, LESS THAN OR EQUAL TO 36 IN. DIA.OR HEIGHT	LF	E024		STD	N	
2549-0004037	PIPE LINING, SLIPLINING, GREATER THAN 36 IN. DIA. OR HEIGHT	LF	E024		STD	N	
2549-0006100	BUILDING SANITARY SEWER SERVICE RECONNECTION	EACH	E039		STD	N	
2549-0006210	SPOT REPAIR BY PIPE REPLACEMENT, BY COUNT	EACH	E039		STD	N	
2549-0006220	SPOT REPAIR BY PIPE REPLACEMENT, BY LINEAR FOOT	LF	E039		STD	N	
2549-0006311	INFILTRATION BARRIER	EACH	E039		STD	N	
2549-0006320	URETHANE CHIMNEY SEAL	EACH	E039		STD	N	
2549-0006410	IN-SITU MANHOLE REPLACEMENT, CAST-IN-PLACE CONCRETE	VLF	E039	E115 E132 E145	STD	N	
2549-0006420	IN-SITU MANHOLE REPLACEMENT, CAST-IN-PLACE CONCRETE WITH PLASTIC LINER	VLF	E039	E115 E132 E145	STD	N	
2549-0006430	MANHOLE LINING WITH CENTRIFUGALLY CAST CEMENTITIOUS MORTAR LINER WITH EPOXY SEAL	VLF	E039		STD	N	
2551-0000110	TEMP CRASH CUSHION	EACH	E039		STD	N	
2551-0000120	TEMP CRASH CUSHION, REDIRECTIVE (R)	EACH	E039		STD	N	
2551-0000130	TEMP CRASH CUSHION, SEVERE USE (SU)	EACH	E039		STD	N	
2551-0000210	PERMANENT CRASH CUSHION	EACH	E039		STD	N	
2551-0000230	PERMANENT CRASH CUSHION, SEVERE USE (SU)	EACH	E039		STD	N	
2551-0000300	PERMANENT CRASH CUSHION SPARE PARTS KIT	EACH	E039		STD	N	
2552-0000140	ROCK EXCAVATION	CY	E004		STD	N	
2552-0000210	TRENCH FOUNDATION	TON	E001		STD	N	
2552-0000220	REPLACEMENT OF UNSUITABLE BACKFILL MATERIAL	CY	E004	E110	STD	N	
2552-0000230	SPECIAL PIPE EMBEDMENT OR ENCASEMENT	LF	E001	E107 E110 E115	STD	N	
2552-0000300	TRENCH COMPACTION TESTING	LS	E005	E107 E110 E115	STD	N	
2554-0112004	WATER MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 4 IN	LF	E001		STD	N	
2554-0112006	WATER MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 6 IN	LF	E001		STD	N	
2554-0112008	WATER MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 8 IN	LF	E001		STD	N	
2554-0112010	WATER MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 10 IN	LF	E001		STD	N	
2554-0112012	WATER MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 12 IN	LF	E001		STD	N	

Item Code	Description	Units	Form	Support Forms	Meas/ Pay	Plan Quantity N	Plan Quantity Y
2554-0112014	WATER MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 14 IN	LF	E001		STD	N	
2554-0112016	WATER MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 16 IN	LF	E001		STD	N	
2554-0112018	WATER MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 18 IN	LF	E001		STD	N	
2554-0112020	WATER MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 20 IN	LF	E001		STD	N	
2554-0112024	WATER MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 24 IN	LF	E001		STD	N	
2554-0112030	WATER MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 30 IN	LF	E001		STD	N	
2554-0112036	WATER MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 36 IN	LF	E001		STD	N	
2554-0112042	WATER MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 42 IN	LF	E001		STD	N	
2554-0112048	WATER MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 48 IN	LF	E001		STD	N	
2554-0112054	WATER MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 54 IN	LF	E001		STD	N	
2554-0112060	WATER MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 60 IN	LF	E001		STD	N	
2554-0112064	WATER MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 64 IN	LF	E001		STD	N	
2554-0114004	WATER MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 4 IN	LF	E001		STD	N	
2554-0114006	WATER MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 6 IN	LF	E001		STD	N	
2554-0114008	WATER MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 8 IN	LF	E001		STD	N	
2554-0114010	WATER MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 10 IN	LF	E001		STD	N	
2554-0114012	WATER MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 12 IN	LF	E001		STD	N	
2554-0114014	WATER MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 14 IN	LF	E001		STD	N	
2554-0114016	WATER MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 16 IN	LF	E001		STD	N	
2554-0114018	WATER MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 18 IN	LF	E001		STD	N	
2554-0114020	WATER MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 20 IN	LF	E001		STD	N	
2554-0114024	WATER MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 24 IN	LF	E001		STD	N	
2554-0114030	WATER MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 30 IN	LF	E001		STD	N	
2554-0122004	WATER MAIN, TRENCHLESS, DUCTILE IRON PIPE (DIP), 4 IN	LF	E001		STD	N	
2554-0122006	WATER MAIN, TRENCHLESS, DUCTILE IRON PIPE (DIP), 6 IN	LF	E001		STD	N	
2554-0122008	WATER MAIN, TRENCHLESS, DUCTILE IRON PIPE (DIP), 8 IN	LF	E001		STD	N	
2554-0122010	WATER MAIN, TRENCHLESS, DUCTILE IRON PIPE (DIP), 10 IN	LF	E001		STD	N	
2554-0122012	WATER MAIN, TRENCHLESS, DUCTILE IRON PIPE (DIP), 12 IN	LF	E001		STD	N	
2554-0122014	WATER MAIN, TRENCHLESS, DUCTILE IRON PIPE (DIP), 14 IN	LF	E001		STD	N	
2554-0122016	WATER MAIN, TRENCHLESS, DUCTILE IRON PIPE (DIP), 16 IN	LF	E001		STD	N	
2554-0122018	WATER MAIN, TRENCHLESS, DUCTILE IRON PIPE (DIP), 18 IN	LF	E001		STD	N	
2554-0122020	WATER MAIN, TRENCHLESS, DUCTILE IRON PIPE (DIP), 20 IN	LF	E001		STD	N	
2554-0122024	WATER MAIN, TRENCHLESS, DUCTILE IRON PIPE (DIP), 24 IN	LF	E001		STD	N	
2554-0122030	WATER MAIN, TRENCHLESS, DUCTILE IRON PIPE (DIP), 30 IN	LF	E001		STD	N	
2554-0122036	WATER MAIN, TRENCHLESS, DUCTILE IRON PIPE (DIP), 36 IN	LF	E001		STD	N	
2554-0122042	WATER MAIN, TRENCHLESS, DUCTILE IRON PIPE (DIP), 42 IN	LF	E001		STD	N	
2554-0122048	WATER MAIN, TRENCHLESS, DUCTILE IRON PIPE (DIP), 48 IN	LF	E001		STD	N	
2554-0122054	WATER MAIN, TRENCHLESS, DUCTILE IRON PIPE (DIP), 54 IN	LF	E001		STD	N	
2554-0122060	WATER MAIN, TRENCHLESS, DUCTILE IRON PIPE (DIP), 60 IN	LF	E001		STD	N	
2554-0122064	WATER MAIN, TRENCHLESS, DUCTILE IRON PIPE (DIP), 64 IN	LF	E001		STD	N	
2554-0124004	WATER MAIN, TRENCHLESS, POLYVINYL CHLORIDE PIPE (PVC), 4 IN	LF	E001		STD	N	
2554-0124006	WATER MAIN, TRENCHLESS, POLYVINYL CHLORIDE PIPE (PVC), 6 IN	LF	E001		STD	N	
2554-0124008	WATER MAIN, TRENCHLESS, POLYVINYL CHLORIDE PIPE (PVC), 8 IN	LF	E001		STD	N	
2554-0124010	WATER MAIN, TRENCHLESS, POLYVINYL CHLORIDE PIPE (PVC), 10IN	LF	E001		STD	N	
2554-0124012	WATER MAIN, TRENCHLESS, POLYVINYL CHLORIDE PIPE (PVC), 12IN	LF	E001		STD	N	
2554-0124014	WATER MAIN, TRENCHLESS, POLYVINYL CHLORIDE PIPE (PVC), 14IN	LF	E001		STD	N	
2554-0124016	WATER MAIN, TRENCHLESS, POLYVINYL CHLORIDE PIPE (PVC), 16IN	LF	E001		STD	N	
2554-0124018	WATER MAIN, TRENCHLESS, POLYVINYL CHLORIDE PIPE (PVC), 18IN	LF	E001		STD	N	
2554-0124020	WATER MAIN, TRENCHLESS, POLYVINYL CHLORIDE PIPE (PVC), 20IN	LF	E001		STD	N	
2554-0124024	WATER MAIN, TRENCHLESS, POLYVINYL CHLORIDE PIPE (PVC), 24IN	LF	E001		STD	N	
2554-0124030	WATER MAIN, TRENCHLESS, POLYVINYL CHLORIDE PIPE (PVC), 30IN	LF	E001		STD	N	
2554-0132004	WATER MAIN WITH CASING PIPE, TRENCHED, DUCTILE IRON PIPE (DIP), 4 IN	LF	E001		STD	N	
2554-0132006	WATER MAIN WITH CASING PIPE, TRENCHED, DUCTILE IRON PIPE (DIP), 6 IN	LF	E001		STD	N	
2554-0132008	WATER MAIN WITH CASING PIPE, TRENCHED, DUCTILE IRON PIPE (DIP), 8 IN	LF	E001		STD	N	
2554-0132010	WATER MAIN WITH CASING PIPE, TRENCHED, DUCTILE IRON PIPE (DIP), 10 IN	LF	E001		STD	N	
2554-0132012	WATER MAIN WITH CASING PIPE, TRENCHED, DUCTILE IRON PIPE (DIP), 12 IN	LF	E001		STD	N	
2554-0132014	WATER MAIN WITH CASING PIPE, TRENCHED, DUCTILE IRON PIPE (DIP), 14 IN	LF	E001		STD	N	
2554-0132016	WATER MAIN WITH CASING PIPE, TRENCHED, DUCTILE IRON PIPE (DIP), 16 IN	LF	E001		STD	N	
2554-0132018	WATER MAIN WITH CASING PIPE, TRENCHED, DUCTILE IRON PIPE (DIP), 18 IN	LF	E001		STD	N	
2554-0132020	WATER MAIN WITH CASING PIPE, TRENCHED, DUCTILE IRON PIPE (DIP), 20 IN	LF	E001		STD	N	
2554-0132024	WATER MAIN WITH CASING PIPE, TRENCHED, DUCTILE IRON PIPE (DIP), 24 IN	LF	E001		STD	N	
2554-0132030	WATER MAIN WITH CASING PIPE, TRENCHED, DUCTILE IRON PIPE (DIP), 30 IN	LF	E001		STD	N	
2554-0132036	WATER MAIN WITH CASING PIPE, TRENCHED, DUCTILE IRON PIPE (DIP), 36 IN	LF	E001		STD	N	
2554-0132042	WATER MAIN WITH CASING PIPE, TRENCHED, DUCTILE IRON PIPE (DIP), 42 IN	LF	E001		STD	N	
2554-0132048	WATER MAIN WITH CASING PIPE, TRENCHED, DUCTILE IRON PIPE (DIP), 48 IN	LF	E001		STD	N	
2554-0132054	WATER MAIN WITH CASING PIPE, TRENCHED, DUCTILE IRON PIPE (DIP), 54 IN	LF	E001		STD	N	
2554-0132060	WATER MAIN WITH CASING PIPE, TRENCHED, DUCTILE IRON PIPE (DIP), 60 IN	LF	E001		STD	N	
2554-0132064	WATER MAIN WITH CASING PIPE, TRENCHED, DUCTILE IRON PIPE (DIP), 64 IN	LF	E001		STD	N	
2554-0134004	WATER MAIN WITH CASING PIPE, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 4 IN	LF	E001		STD	N	
2554-0134006	WATER MAIN WITH CASING PIPE, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 6 IN	LF	E001		STD	N	
2554-0134008	WATER MAIN WITH CASING PIPE, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 8 IN	LF	E001		STD	N	
2554-0134010	WATER MAIN WITH CASING PIPE, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 10 IN	LF	E001		STD	N	
2554-0134012	WATER MAIN WITH CASING PIPE, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 12 IN	LF	E001		STD	N	
2554-0134014	WATER MAIN WITH CASING PIPE, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 14 IN	LF	E001		STD	N	
2554-0134016	WATER MAIN WITH CASING PIPE, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 16 IN	LF	E001		STD	N	
2554-0134018	WATER MAIN WITH CASING PIPE, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 18 IN	LF	E001		STD	N	
2554-0134020	WATER MAIN WITH CASING PIPE, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 20 IN	LF	E001		STD	N	
2554-0134024	WATER MAIN WITH CASING PIPE, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 24 IN	LF	E001		STD	N	
2554-0134030	WATER MAIN WITH CASING PIPE, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 30 IN	LF	E001		STD	N	
2554-0142004	WATER MAIN WITH CASING PIPE, TRENCHLESS, DUCTILE IRON PIPE (DIP), 4 IN	LF	E001		STD	N	
2554-0142006	WATER MAIN WITH CASING PIPE, TRENCHLESS, DUCTILE IRON PIPE (DIP), 6 IN	LF	E001		STD	N	
2554-0142008	WATER MAIN WITH CASING PIPE, TRENCHLESS, DUCTILE IRON PIPE (DIP), 8 IN	LF	E001		STD	N	
2554-0142010	WATER MAIN WITH CASING PIPE, TRENCHLESS, DUCTILE IRON PIPE (DIP), 10 IN	LF	E001		STD	N	
2554-0142012	WATER MAIN WITH CASING PIPE, TRENCHLESS, DUCTILE IRON PIPE (DIP), 12 IN	LF	E001		STD	N	
2554-0142014	WATER MAIN WITH CASING PIPE, TRENCHLESS, DUCTILE IRON PIPE (DIP), 14 IN	LF	E001		STD	N	
2554-0142016	WATER MAIN WITH CASING PIPE, TRENCHLESS, DUCTILE IRON PIPE (DIP), 16 IN	LF	E001		STD	N	
2554-0142018	WATER MAIN WITH CASING PIPE, TRENCHLESS, DUCTILE IRON PIPE (DIP), 18 IN	LF	E001		STD	N	
2554-0142020	WATER MAIN WITH CASING PIPE, TRENCHLESS, DUCTILE IRON PIPE (DIP), 20 IN	LF	E001		STD	N	
2554-0142024	WATER MAIN WITH CASING PIPE, TRENCHLESS, DUCTILE IRON PIPE (DIP), 24 IN	LF	E001		STD	N	
2554-0142030	WATER MAIN WITH CASING PIPE, TRENCHLESS, DUCTILE IRON PIPE (DIP), 30 IN	LF	E001		STD	N	
2554-0142036	WATER MAIN WITH CASING PIPE, TRENCHLESS, DUCTILE IRON PIPE (DIP), 36 IN	LF	E001		STD	N	
2554-0142042	WATER MAIN WITH CASING PIPE, TRENCHLESS, DUCTILE IRON PIPE (DIP), 42 IN	LF	E001		STD	N	
2554-0142048	WATER MAIN WITH CASING PIPE, TRENCHLESS, DUCTILE IRON PIPE (DIP), 48 IN	LF	E001		STD	N	
2554-0142054	WATER MAIN WITH CASING PIPE, TRENCHLESS, DUCTILE IRON PIPE (DIP), 54 IN	LF	E001		STD	N	
2554-0142060	WATER MAIN WITH CASING PIPE, TRENCHLESS, DUCTILE IRON PIPE (DIP), 60 IN	LF	E001		STD	N	

Item Code	Description	Units	Form	Support Forms	Meas/ Pay	Plan Quantity N	Plan Quantity Y
2554-0142064	WATER MAIN WITH CASING PIPE, TRENCHLESS, DUCTILE IRON PIPE (DIP), 64 IN	LF	E001		STD	N	
2554-0144004	WATER MAIN WITH CASING PIPE, TRENCHLESS, PVC, 4 IN	LF	E001		STD	N	
2554-0144006	WATER MAIN WITH CASING PIPE, TRENCHLESS, PVC, 6 IN	LF	E001		STD	N	
2554-0144008	WATER MAIN WITH CASING PIPE, TRENCHLESS, PVC, 8 IN	LF	E001		STD	N	
2554-0144010	WATER MAIN WITH CASING PIPE, TRENCHLESS, PVC, 10 IN	LF	E001		STD	N	
2554-0144012	WATER MAIN WITH CASING PIPE, TRENCHLESS, PVC, 12 IN	LF	E001		STD	N	
2554-0144014	WATER MAIN WITH CASING PIPE, TRENCHLESS, PVC, 14 IN	LF	E001		STD	N	
2554-0144016	WATER MAIN WITH CASING PIPE, TRENCHLESS, PVC, 16 IN	LF	E001		STD	N	
2554-0144018	WATER MAIN WITH CASING PIPE, TRENCHLESS, PVC, 18 IN	LF	E001		STD	N	
2554-0144020	WATER MAIN WITH CASING PIPE, TRENCHLESS, PVC, 20 IN	LF	E001		STD	N	
2554-0144024	WATER MAIN WITH CASING PIPE, TRENCHLESS, PVC, 24 IN	LF	E001		STD	N	
2554-0144030	WATER MAIN WITH CASING PIPE, TRENCHLESS, PVC, 30 IN	LF	E001		STD	N	
2554-0202200	FITTINGS BY COUNT, DUCTILE IRON PIPE	EACH	E039		STD	N	
2554-0202400	FITTINGS BY COUNT, POLYVINYL CHLORIDE (PVC)	EACH	E039		STD	N	
2554-0203000	FITTINGS BY WEIGHT, DUCTILE IRON PIPE	LBS	E039		STD	N	
2554-0204000	WATER SERVICE STUB,	EACH	E039		STD	N	
2554-0204107	WATER SERVICE STUB, COPPER, 3/4 IN.	EACH	E039		STD	N	
2554-0204110	WATER SERVICE STUB, COPPER, 1 IN.	EACH	E039		STD	N	
2554-0204115	WATER SERVICE STUB, COPPER, 1-1/2 IN.	EACH	E039		STD	N	
2554-0204120	WATER SERVICE STUB, COPPER, 2 IN.	EACH	E039		STD	N	
2554-0204207	WATER SERVICE STUB, PVC, 3/4 IN.	EACH	E039		STD	N	
2554-0204210	WATER SERVICE STUB, PVC, 1 IN.	EACH	E039		STD	N	
2554-0204215	WATER SERVICE STUB, PVC, 1-1/2 IN.	EACH	E039		STD	N	
2554-0204220	WATER SERVICE STUB, PVC, 2 IN.	EACH	E039		STD	N	
2554-0206000	VALVE, BUTTERFLY, DIP,	EACH	E039		STD	N	
2554-0206004	VALVE, BUTTERFLY, DIP, 4 IN.	EACH	E039		STD	N	
2554-0206006	VALVE, BUTTERFLY, DIP, 6 IN.	EACH	E039		STD	N	
2554-0206008	VALVE, BUTTERFLY, DIP, 8 IN.	EACH	E039		STD	N	
2554-0206010	VALVE, BUTTERFLY, DIP, 10 IN.	EACH	E039		STD	N	
2554-0206012	VALVE, BUTTERFLY, DIP, 12 IN.	EACH	E039		STD	N	
2554-0207000	VALVE, GATE, DIP,	EACH	E039		STD	N	
2554-0207004	VALVE, GATE, DIP, 4 IN.	EACH	E039		STD	N	
2554-0207006	VALVE, GATE, DIP, 6 IN.	EACH	E039		STD	N	
2554-0207008	VALVE, GATE, DIP, 8 IN.	EACH	E039		STD	N	
2554-0207010	VALVE, GATE, DIP, 10 IN.	EACH	E039		STD	N	
2554-0207012	VALVE, GATE, DIP, 12 IN.	EACH	E039		STD	N	
2554-0208000	TAPPING VALVE ASSEMBLY,	EACH	E039		STD	N	
2554-0208004	TAPPING VALVE ASSEMBLY, 4 IN.	EACH	E039		STD	N	
2554-0208006	TAPPING VALVE ASSEMBLY, 6 IN.	EACH	E039		STD	N	
2554-0208008	TAPPING VALVE ASSEMBLY, 8 IN.	EACH	E039		STD	N	
2554-0208010	TAPPING VALVE ASSEMBLY, 10 IN	EACH	E039		STD	N	
2554-0208012	TAPPING VALVE ASSEMBLY, 12 IN	EACH	E039		STD	N	
2554-0210201	FIRE HYDRANT ASSEMBLY, WM-201	EACH	E039		STD	N	
2554-0211000	FLUSHING DEVICE (BLOWOFF),	EACH	E039		STD	N	
2554-0211002	FLUSHING DEVICE (BLOWOFF), 2 IN.	EACH	E039		STD	N	
2554-0211004	FLUSHING DEVICE (BLOWOFF), 4 IN.	EACH	E039		STD	N	
2554-0211006	FLUSHING DEVICE (BLOWOFF), 6 IN.	EACH	E039		STD	N	
2554-0211008	FLUSHING DEVICE (BLOWOFF), 8 IN.	EACH	E039		STD	N	
2554-0211010	FLUSHING DEVICE (BLOWOFF), 10 IN.	EACH	E039		STD	N	
2554-0211012	FLUSHING DEVICE (BLOWOFF), 12 IN.	EACH	E039		STD	N	
2554-0212020	VALVE BOX EXTENSION	EACH	E039		STD	N	
2554-0212030	VALVE BOX REPLACEMENT	EACH	E039		STD	N	
2554-0214000	FIRE HYDRANT ADJUSTMENT	EACH	E039		STD	N	
2555-0000010	DELIVER AND STOCKPILE SALVAGED MATERIALS	LS	E005		STD		Y
2590-0000020	PROJECT MANAGEMENT	LS	E005		SP		Y
2595-0005100	RAILROAD PROTECTIVE LIABILITY INSURANCE FOR	LS	E005		SP		Y
2595-0005105	RAILROAD PROTECTIVE LIABILITY INSURANCE FOR BNSF RAILWAY CO	LS	E005		SP		Y
2595-0005110	RAILROAD PROTECTIVE LIABILITY INSURANCE FOR CBEC RAILWAY INC	LS	E005		SP		Y
2595-0005115	RAILROAD PROTECTIVE LIABILITY INSURANCE FOR CEDAR RAPIDS AND IOWA CITY RAILWAY INC	LS	E005		SP		Y
2595-0005120	RAILROAD PROTECTIVE LIABILITY INSURANCE FOR CHICAGO, CENTRAL AND PACIFIC RAILROAD / CEDAR RIVER RAILROAD COMPANY	LS	E005		SP		Y
2595-0005125	RAILROAD PROTECTIVE LIABILITY INSURANCE FOR DAKOTA, MINNESOTA, AND EASTERN RAILROAD CORP.	LS	E005		SP		Y
2595-0005130	RAILROAD PROTECTIVE LIABILITY INSURANCE FOR D & I RAILROAD CO	LS	E005		SP		Y
2595-0005135	RAILROAD PROTECTIVE LIABILITY INSURANCE FOR IOWA INTERSTATE RAILROAD LTD	LS	E005		SP		Y
2595-0005140	RAILROAD PROTECTIVE LIABILITY INSURANCE FOR IOWA NORTHERN RAILWAY CO	LS	E005		SP		Y
2595-0005145	RAILROAD PROTECTIVE LIABILITY INSURANCE FOR NORFOLK SOUTHERN RAILWAY CO	LS	E005		SP		Y
2595-0005150	RAILROAD PROTECTIVE LIABILITY INSURANCE FOR UNION PACIFIC RAILROAD CO	LS	E005		DS		Y
2595-0450079	RAILROAD SUBBALLAST, FURNISH+PLACE	TON	E001		SP2	N	
2595-0450081	RAILROAD BALLAST	TON	E001		SP2	N	
2595-6470000	RAIL (RAILROAD)	TLF	E001		SP2	N	
2595-7400100	REMOVAL OF RAILROAD CROSSING	LS	E005		PLAN		Y
2595-7400200	REMOVAL OF RAILROAD TRACK	TLF	E001		PLAN	N	
2599-6343000	PRELIMINARY ENGINEERING	LS	E005		SP2		Y
2599-6344000	CONSTRUCTION ENGINEERING	LS	E005		SP2		Y
2599-8500100	RENOVATION, AS PER PLAN	LS	E005		PLAN		Y
2599-9999001	('ACRES' ITEM)	ACRE	E001	E123	PLAN	N	
2599-9999002	('CALENDAR DAYS' ITEM)	CDAY	E039		PLAN	N	
2599-9999003	('CUBIC YARDS' ITEM)	CY	E004		PLAN	N	
2599-9999004	('DAYS' ITEM)	DAY	E039		PLAN	N	
2599-9999005	('EACH' ITEM)	EACH	E039		PLAN	N	
2599-9999006	('GALLONS' ITEM)	GAL	E039		PLAN	N	
2599-9999007	('HOURS' ITEM)	HOUR	E039		PLAN	N	
2599-9999008	('POUNDS' ITEM)	LB	E039		PLAN	N	
2599-9999009	('LINEAR FEET' ITEM)	LF	E001		PLAN	N	
2599-9999010	('LUMP SUM' ITEM)	LS	E005		PLAN		Y
2599-9999011	('THOUSANDS OF BOARD FEET' ITEM)	MFBM	E017		PLAN	N	
2599-9999012	('THOUSANDS OF GALLONS' ITEM)	MGAL	E037		PLAN	N	
2599-9999013	('MILES' ITEM)	MILE	E001		PLAN	N	
2599-9999014	('SQUARE FEET' ITEM)	SF	E002		PLAN	N	
2599-9999015	('SQUARES' ITEM)	SQ	E040		PLAN	N	
2599-9999016	('STATION YARDS' ITEM)	ST-Y	E001		PLAN	N	
2599-9999017	('STATIONS' ITEM)	STA	E001		PLAN	N	
2599-9999018	('SQUARE YARDS' ITEM)	SY	E003		PLAN	N	
2599-9999019	('TRACK LINEAR FEET' ITEM)	TLF	E001		PLAN	N	

Item Code	Description	Units	Form	Support Forms	Meas/ Pay	Plan Quantity N	Plan Quantity Y
2599-9999020	('TONS' ITEM)	TON	E001		PLAN	N	
2599-9999021	('UNITS' ITEM)	UNIT	E001		PLAN	N	
2601-2632110	FERTILIZING	ACRE	E033	E123	STD	N	
2601-2633100	MOWING	ACRE	E001	E123	STD	N	
2601-2634100	MULCHING	ACRE	E033	E123	STD	N	
2601-2634105	MULCHING, BONDED FIBER MATRIX	ACRE	E033	E123	PLAN	N	
2601-2634110	MULCH, MECHANICALLY-BONDED FIBER MATRIX	ACRE	E033	E123	STD	N	
2601-2634150	MULCHING WOOD CELLULOSE FIBER	ACRE	E033	E123	PLAN	N	
2601-2634450	COMPOST	ACRE	E033	E123	STD	N	
2601-2634500	OVERSEED & FERTILIZING	ACRE	E034	E123	STD	N	
2601-2635800	SEEDBED AERATION	ACRE	E001	E123	PLAN	N	
2601-2636015	NATIVE GRASS SEEDING	ACRE	E035	E124	STD	N	
2601-2636017	NATIVE GRASS SEEDING (INSTALL ONLY)	ACRE	E035	E124	STD	N	
2601-2636018	WETLAND GRASS SEEDING	ACRE	E035	E124	STD	N	
2601-2636041	SEEDING & FERTILIZE	ACRE	E034	E123	STD	N	
2601-2636043	SEEDING & FERTILIZING (RURAL)	ACRE	E034	E123	STD	N	
2601-2636044	SEEDING & FERTILIZING (URBAN)	ACRE	E034	E123	STD	N	
2601-2636045	SEEDING SPECIAL AREAS	ACRE	E034	E123	STD	N	
2601-2636054	WILDFLOWER SEEDING	ACRE	E035	E124	STD	N	
2601-2638105	SLOPE PROTECTION, BONDED FIBER MATRIX	SQ	E036		PLAN	N	
2601-2638352	SLOPE PROTECTION, WOOD EXCELSIOR MAT	SQ	E036		STD5	N	
2601-2638900	SLOPE RESHAPING	SQ	E039		PLAN	N	
2601-2639010	SODDING	SQ	E040		STD	N	
2601-2640330	SPECIAL DITCH CONTROL PLASTIC NETTING	SQ	E036		STD	N	
2601-2640350	SPECIAL DITCH CONTROL WOOD EXCELSIOR MAT	SQ	E036		STD	N	
2601-2642100	STABILIZE CROP - SEED & FERTILIZE	ACRE	E034	E123	STD	N	
2601-2642120	STABILIZE CROP - SEED & FERTILIZE (URBAN)	ACRE	E034	E123	STD	N	
2601-2643110	WATERING FOR SOD, SPECIAL DITCH CONTROL OR SLOPE PROTECTION	MGAL	E037		STD	N	
2601-2643300	MOBILIZATION FOR WATERING	EACH	E005		STD	N	
2601-2643411	TURF REINFORCEMENT MAT, TYPE 1	SQ	E036		STD	N	
2601-2643412	TURF REINFORCEMENT MAT, TYPE 2	SQ	E036		STD	N	
2601-2643413	TURF REINFORCEMENT MAT, TYPE 3	SQ	E036		STD	N	
2601-2643414	TURF REINFORCEMENT MAT, TYPE 4	SQ	E036		STD	N	
2601-2700010	OUTLET OR CHANNEL SCOUR PROTECTION	SF	E039		PLAN	N	
2601-3000000	STOP LOG STRUCTURE	EACH	E039		PLAN	N	
2601-3000110	MONITORING WELL	EACH	E039		SP2	N	
2601-3000112	MONITORING WELL ABANDONMENT	EACH	E039		SP2	N	
2601-3000120	STAFF GAGE	EACH	E039		SP2	N	
2601-3000201	HERBICIDE APPLICATION, CUT STUMP	EACH	E001		PLAN	N	
2602-0000010	SILT DITCHES	LF	E001		STD	N	
2602-0000020	SILT FENCE	LF	E001		STD	N	
2602-0000030	SILT FENCE FOR DITCH CHECKS	LF	E001		STD	N	
2602-0000040	SILT DIKES	LF	E001		STD	N	
2602-0000050	SILT BASINS	EACH	E001		STD	N	
2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	E001		STD	N	
2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK	LF	E001		STD	N	
2602-0000110	BALES FOR DITCH CHECKS	EACH	E039		PLAN	N	
2602-0000120	DITCH CHECK (SYNTHETIC - HDPE)	LF	E001		PLAN	N	
2602-0000130	TEMPORARY SEDIMENT CONTROL BASIN	EACH	E039		PLAN	N	
2602-0000135	REMOVAL OF TEMPORARY SEDIMENT CONTROL BASIN	EACH	E039		PLAN	N	
2602-0000140	MAINTENANCE OF TEMPORARY SEDIMENT CONTROL BASIN	EACH	E039		PLAN	N	
2602-0000150	STABILIZED CONSTRUCTION ENTRANCE	LF	E001		PLAN	N	
2602-0000160	ROCK CHECK DAM	LF	E001		PLAN	N	
2602-0000170	MAINTENANCE OF ROCK CHECK DAM	EACH	E039		PLAN	N	
2602-0000180	REMOVAL OF ROCK CHECK DAM	EACH	E039		PLAN	N	
2602-0000212	FLOATING SILT CURTAIN, HANGING	LF	E001		DS	N	
2602-0000222	FLOATING SILT CURTAIN, TOTAL CONTAINMENT	LF	E001		DS	N	
2602-0000230	CLEAN-OUT OF FLOATING SILT CURTAIN (CONTAINMENT)	LF	E001		DS	N	
2602-0000306	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 6 IN. DIA	LF	E001		PLAN	N	
2602-0000309	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 9 IN. DIA	LF	E001		PLAN	N	
2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA	LF	E001		PLAN	N	
2602-0000320	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 20 IN. DIA	LF	E001		PLAN	N	
2602-0000350	REMOVAL OF PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE	LF	E001		PLAN	N	
2602-0010010	MOBILIZATIONS, EROSION CONTROL	EACH	E039		SS	N	
2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL	EACH	E039		SS	N	
2610-0000110	SHRUB,	EACH	E038		STD	N	
2610-0000120	TREE,	EACH	E038		STD	N	
2610-0000130	VINE,	EACH	E038		STD	N	
2610-0000140	SHRUB, TRANSPLANTING	EACH	E031		PLAN	N	
2610-0000150	TREE, TRANSPLANTING	EACH	E038		PLAN	N	
2610-0000180	FLOWERS, AS PER PLAN	LS	E005		PLAN		Y
2610-0000200	MULCH	CY	E004	E123	STD	N	
2610-0000212	MULCH, SHREDDED BARK	CY	E004	E123	STD	N	
2610-0000214	MULCH, WOOD CHIPS	CY	E004	E123	STD	N	
2610-0000300	FERTILIZER	LB	E001		STD	N	
2610-0000400	WATERING FOR PLANTS	MGAL	E037		STD	N	
2610-0000600	TILLAGE	LS	E005		PLAN		Y
2610-0000700	TREE SHELTERS	EACH	E039		PLAN	N	
2611-0000100	SHRUBS, FURNISHED AND INSTALLED (WITH WARRANTY)	EACH	E041		STD	N	
2611-0000200	TREES, FURNISHED AND INSTALLED (WITH WARRANTY)	EACH	E041		STD	N	
2612-0000100	ROADSIDE MOWING	ACRE	E001	E123	STD		Y
2612-0000500	ROADSIDE SPRAYING	ACRE	E001	E123	PLAN	N	
2612-0000520	ROADSIDE SPRAYING FOR WEED CONTROL	ACRE	E001	E123	PLAN	N	
6000-2528010	RAILROAD FLAGGERS	DAY	E029		SP	N	
6100-1105021	(EWO) RESTORATION OF HAUL ROADS	EACH	E039	APPROPRIATE DOC. AS NEEDED	STD	N	
6100-1105031	(EW0) VALUE ENGINEERING INCENTIVE PROPOSAL	EACH	E039	APPROPRIATE DOC. AS NEEDED	STD	N	
6100-1107010	(EW0) WATER FOR DUST CONTROL (PRE-ESTAB.)	MGAL	E037		STD	N	
6100-1109010	(EWO) UNINCORPORATED MATERIALS	LS	E005		STD		Y
6100-2101010	(EWO) CLEARING AND GRUBBING	EACH	E001		STD	N	
6100-2102020	(EW0) WATER FOR EMBANKMENT CONSTRUCTION	MGAL	E037		STD	N	
6100-2102030	(EW0) DRY IN EXCESS OF REQUIREMENT FOR TPY B	CY	E004		STD	N	
6100-2102041	(EW0) PRESERVATION OF ARCHAEOLOGICAL SAL	EACH	E039	APPROPRIATE DOC. AS NEEDED	STD	N	
6100-2108010	(EW0) COMPACTION IN EXCESS OF TYPE B	CY	E004		STD	N	
6100-2109010	(EW0) CORRECTION OF SUBGRADE	CY	E004		STD	N	
6100-2300010	(EWO) SURFACE CORRECTION FOR PAVEMENT SMOOTHNESS	EACH	E001		STD	N	

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6100-2301010	(EW0) PCC COLD WEATHER PROTECTION	SY	E003		STD	N	
6100-2303011	{EWO} HMA MIX INCORPORATED WITH ANTI-STRIP AGENT (PRE-ESTAB.)	TON	E001		STD	N	
6100-2307010	(EW0) ADDITIONAL ROLLING OF SEALCOAT	SY	E003		STD	N	
6100-2402010	(EW0) EXTRA DEPTH EXCV. FOR STRUCTURES	CY	E004		STD	N	
6100-2402021	(EW0) REMOVAL AND RECONSTRUCT COFFERDAMS	EACH	E039	APPROPRIATE DOC. AS NEEDED	STD	N	
6100-2403010	(EW0) HEATING OF STRUCTURAL CONCRETE	CY	E004		STD	N	
6100-2403020	(EW0) PROTECTION OF STRUCTURAL CONC.	CY	E004		STD	N	
6100-2413020	(EW0)MTLS. IMPROVING DECK OVERLAY PROFILE	CY	E004		STD	N	
6100-2500010	(EWO) REMOVAL, MISCELLANEOUS	EACH	E039		STD	N	
6100-2501010	(EW0) SPLICING OF STEEL H-PILES	EACH	E039		STD	N	
6100-2501020	(EW0)SPLICING OF WOOD PILES	EACH	E039		STD	N	
6100-2501080	(EW0)PILE POINTS	EACH	E039		STD	N	
6100-2501110	{EWO} PREBORED HOLES	LF	E039		STD	N	
6100-2501140	{EWO} JETTING	LS	E005		STD	N	
6100-2501150	(EWO) DRIVE EXT. OR EXTRA PILE FURNISHED BY CONTRACTING AUTHORITY	LF	E039		STD	N	
6100-2501160	(EWO) UNUSED PILE PURCHASED BY CONTRACTING AUTHORITY	LF	E040		STD	N	
6100-2503010	(EW0)OVERDEPTH EXCAVATION SUBDRAIN SEWER	LF	E001		STD	N	
6100-2503030	(EW0)UNEXPECTED ROCK EXCAVATION FOR SEWER	LF	E001	APPROPRIATE DOC. AS NEEDED	STD	N	
6100-2503041	(EW0)INTAKES AND UTILITY ACCESS LOWER FLO-LN	EACH	E039	APPROPRIATE DOC. AS NEEDED	STD	N	
6100-2503050	(EW0)TYPE C-1 CONNECTOR	EACH	E039		STD	N	
6100-2505010	(EW0)UNEXPTD ROCK EXCAV. GRD RAIL, SIGN, LIGHT	CY	E004		STD	N	
6100-2505020	(EWO) GUARDRAIL, MISCELLANEOUS PARTS OR REPAIR	EACH	E039		STD	N	
6100-2510010	(EW0)REMOVAL OF LUGS, PER LANE	EACH	E039		STD	N	
6100-2519010	(EW0)ELECTRIC GROUNDS FOR FENCING	EACH	E039		STD	N	
6100-2521011	(EW0)CERTIFIED PLANT INSPECTION	EACH	E039	APPROPRIATE DOC. AS NEEDED	STD	N	
6100-2528021	(EW0)WASHING OF TRAFFIC CONTROL DEVICES	EACH	E039	APPROPRIATE DOC. AS NEEDED	STD	N	
6100-2528030	(EWO) TRAFFIC CONTROL	DAY	E039		STD	N	
6100-2528035	(EWO) TRAFFIC CONTROL	EACH	E039		STD	N	
6100-2529011	(EWO) INCREASED DEPTH OF SUBBASE FOR FULL DEPTH PATCHES (PRE-ESTABLISHED PRICE)	SY	E003		STD	N	
6100-2529021	(EWO) ADDITIONAL COST FOR P.C.C. PATCH CONSTRUCTED AS A COMPOSITE SECTION	SY	E003		STD	N	
6100-2529040	(EWO) ADDITIONAL COST FOR INCREASED P.C.C. PATCH THICKNESS	SY	E003		STD	N	
6100-2533010	(EWO) MOBILIZATION, ADDITIONAL	EACH	E041		STD	N	
6100-2601010	(EW0)STAKING SOD FLUME, SLOPE, DITCH CHANNEL	SQ	E040		STD	N	
6100-2601030	(EW0)DEBRIS PICKUP AND DISPOSAL EROSION CNTR	CY	E004		STD	N	
6100-2601050	(EW0)EXRTA LENGTH STAPLES OR STAKES	SQ	E040		STD	N	
6100-2601062	(EWO) MOBILIZATIONS, EROSION CONTROL (PRE-EST PRICE)	EACH	E039	APPROPRIATE DOC. AS NEEDED	SS	N	
6100-2601064	(EWO) MOBILIZATION, EMER.EROSION CONTRL(PRE-EST PRICE)	EACH	E039	APPROPRIATE DOC. AS NEEDED	SS	N	
6100-2602021	(EW0)SUBSTITUTION OF PLANTS OR PLANTING MTLS	EACH	E039	APPROPRIATE DOC. AS NEEDED	STD	N	
6200-1102010	{PRICE ADJUSTMENT} AMOUNT OF COMMITMENT NOT PAID TO DBE FIRM	EACH	E039	APPROPRIATE DOC. AS NEEDED	STD	N	
6200-1105010	(PRICE ADJUST)EQUIPMENT CROSSING	EACH	E039		STD	N	
6200-1108010	(PRICE ADJUST)LIQUIDATED DAMAGES	DAY	E039		STD	N	
6200-2303011	{PRICE ADJUST} HMA PAV'T Q.I. DEFICIENT DENSITY	TON	E001		STD	N	
6200-2303021	{PRICE ADJUST} HMA PAV'T Q.I. DEFICIENT DENSITY	SY	E003		STD	N	
6200-2303031	{PRICE ADJUST} HMA PAV'T Q.I. DEFICIENT THICKNESS (BY SCHEDULE	SY	E003		STD	N	
6200-2303040	{PRICE ADJUST} NONCOMPLYING FILM THICKNESS OF HMA (BY CM 2.53)	EACH	E039	APPROPRIATE DOC. AS NEEDED	STD	N	
6200-2316010	{PRICE ADJUST} DISINCENTIVE FOR BUMPS,DIPS NOT CORRECTED(PRE-ESTABISHED PRICE	EACH	E039	APPROPRIATE DOC. AS NEEDED	STD	N	
6200-2505011	{PRICE ADJUST} GUARDRAIL, INCOMPLETE INSTALLATION WHEN ROADWAY IS OPEN TO TRAFFIC (PRE-ESTABLISHED PRICE)	DAY	E039	APPROPRIATE DOC. AS NEEDED	STD	N	
6200-2601011	{PRICE ADJUST} MOWING, FAILURE TO COMPLETE WORK IN ALLOTED TIME (PRE-ESTABLISHED PRICE)	DAY	E039	APPROPRIATE DOC. AS NEEDED	DS	N	
6200-2601021	{PRICE ADJUST} WATERING, FAILURE TO COMPLETE WORK IN ALLOTED TIME (PRE-ESTABLISHED PRICE)	CDAY	E039	APPROPRIATE DOC. AS NEEDED	DS	N	
6200-5000011	(PRICE ADJUST)AGG TEST DEVIATION	EACH	E039	APPROPRIATE DOC. AS NEEDED	STD	N	
6200-5000021	(PRICE ADJUST)SLUMP TEST DEVIATION	EACH	E039	APPROPRIATE DOC. AS NEEDED	STD	N	
6200-5000031	(PRICE ADJUST)AIR TEST DEVIATION	EACH	E039	APPROPRIATE DOC. AS NEEDED	STD	N	
6200-5000041	(PRICE ADJUST)RAIN DAMAGE PCC	EACH	E039	APPROPRIATE DOC. AS NEEDED	STD	N	
6200-5000051	(PRICE ADJUST)L-JOINT TIE STEEL DEFICIENT	EACH	E039	APPROPRIATE DOC. AS NEEDED	STD	N	
6200-5000061	(PRICE ADJUST)PCC DENSITY DEFICIENT	EACH	E039	APPROPRIATE DOC. AS NEEDED	STD	N	
6200-5000071	(PRICE ADJUST)PCC TRANSVERSE GROOVE DEFICIENT	EACH	E039	APPROPRIATE DOC. AS NEEDED	STD	N	
6200-5000081	(PRICE ADJUST)NON-COMPLYING TRAFFIC CONTROL	EACH	E039	APPROPRIATE DOC. AS NEEDED	STD	N	
6200-5000092	{PRICE ADJUST}NON-COMPLYING VISCOSITY OF LIQUID ASPHALT BINDER (BY CM 2.53	EACH	E039	APPROPRIATE DOC. AS NEEDED	STD	N	
6200-5000102	{PRICE ADJUST} NON-COMPLYING PENETRATION OF LIQUID ASPHALT BINDER(BY CM 2.53	EACH	E039	APPROPRIATE DOC. AS NEEDED	STD	N	
6200-5000111	(PRICE ADJUST)NON-COMPLYING EMULSION RESIDUE	EACH	E039	APPROPRIATE DOC. AS NEEDED	STD	N	
6200-5000122	{PRICE ADJUST}NON-COMPLYING VISCOSITY OF ASPHALT BINDER (BY CM 2.53)	EACH	E039	APPROPRIATE DOC. AS NEEDED	STD	N	
6200-5000132	{PRICE ADJUST} ASPHALT BINDER CONTENT DEVIATION (BY CM 2.53)	EACH	E039	APPROPRIATE DOC. AS NEEDED	STD	N	
6200-5000142	{PRICE ADJUST} SEGREGATION IN HMA MIX (BY CM 2.53)	EACH	E039	APPROPRIATE DOC. AS NEEDED	STD	N	
6200-5000152	{PRICE ADJUST} NON-COMPLYING FILLER/BITUMEN RATIO FOR HMA MIX(BY CM 2.53)	EACH	E039	APPROPRIATE DOC. AS NEEDED	STD	N	
6200-5000161	(PRICE ADJUST)COST FOR CHANGE IN PILE	EACH	E039	APPROPRIATE DOC. AS NEEDED	STD	N	
6200-5000171	(PRICE ADJUST)FUEL ADJUSTMENT	EACH	E039	APPROPRIATE DOC. AS NEEDED	STD	N	
6200-7000012	{PRICE ADJUST} FAILURE TO MEET DBE COMMITMENT (DIFF BETWEEN ACTUAL DBE $ PAID & CONTRACTOR'S DBE COMMITMENT)	EACH	E039	APPROPRIATE DOC. AS NEEDED	STD	N	
6200-7000021	(PRICE ADJUST)INCENTIVE FOR CLOSURE DAYS	EACH	E039	APPROPRIATE DOC. AS NEEDED	STD	N	
6200-7000023	(PRICE ADJUST)DISINCENTIVE FOR CLOSURE DAYS	EACH	E039	APPROPRIATE DOC. AS NEEDED	STD	N	
6200-7000051	(PRICE ADJUST)INCENTIVE NEW BRDG DECK SMOOTH	EACH	E039	APPROPRIATE DOC. AS NEEDED	STD	N	
6200-7000061	(PRICE ADJUST)INCENTIVE O'LA BRDG DECK SMOOTH	EACH	E039	APPROPRIATE DOC. AS NEEDED	STD	N	
6200-7000071	(PRICE ADJUST)PRICE REDUCTION NEW BRDG DECK	EACH	E039	APPROPRIATE DOC. AS NEEDED	STD	N	
6200-7000081	(PRICE ADJUST)PRICE REDUCTION O'LA BRDG DECK	EACH	E039	APPROPRIATE DOC. AS NEEDED	STD	N	

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2102-2625002	EMBANKMENT-IN-PLACE (CONTRACTOR FURNISHED)	CY	E006								PLAN	N	
2102-6336000	PRE-SPLITTING OF ROCK CUTS	SY	E003								SP	N	
2107-4200200	QUALITY CONTROL PROGRAM (QM-E)	LS	E005	E107	E110						SP		Y
2107-4200300	TEST SECTIONS (QM-E)	EACH	E039	E107	E110						SP	N	
2107-4200400	FIELD LABORATORY (QM-E)	EACH	E039								SP	N	
2114-1000100	CLASS A SUBBASE, HOT MIX ASPHALT BASE	SY	E042	E020	E110	E121	E131				STD		Y
2114-1000200	CLASS A SUBBASE, SLIP FORMED PCC BASE	SY	E023	E110	E111	E115	E140	E141			STD		Y
2121-2000010	FURNISH AND APPLY GRANULAR SHOULDER MATERIAL	TON	E007								SS	N	
2121-2000020	FURNISH AND APPLY GRANULAR SHOULDER MATERIAL	CY	E004	E110							SS	N	
2122-5191002	PAVED SHOULDER, REINFORCED RE-44F(2)	SY	E023	E109	E110	E111	E115	E140	E141		STD5		Y
2122-5191003	REINFORCED PAVED SHOULDER (RE-44J)	SY	E023	E109	E110	E111	E115	E140	E141		STD5		Y
2122-5191004	REINFORCED PAVED SHOULDER	SY	E023	E109	E110	E111	E115	E140	E141		STD5		Y
2122-7451000	SHLD STRENGTHENING OPTL ACC OR PCC 8	SY	E003	E110 & APPROPRIATE ACC OR PCC FOR							PLAN		Y
2126-8300200	RECLAIM & STOCKPILE PRESENT SUR. MAT.	CY	E006								STD	N	
2212-5070320	PATCH PARTIAL-DEPTH REPAIR	SY	E003	E110	E115	E121					STD	N	
2212-5075000	SURFACE PATCHES	TON	E001	E121							STD	N	
2301-0680120	BRIDGE APPROACH SECTION, 12 INCH	SY	E023	E109	E110	E111	E115				STD		Y
2301-0685100	BRIDGE APPROACH SECTION	SY	E023	E109	E110	E111	E115				STD		Y
2301-0685120	BRIDGE APPROACH SECTION, DOUBLE-REINFORCED	SY	E023	E109	E110	E111	E115				STD		Y
2301-0690180	BRIDGE APPROACH, RK-18	SY	E023	E109	E110	E111	E115	E140	E141		STD5		Y
2301-0690190	BRIDGE APPROACH, RK-19	SY	E023	E109	E110	E111	E115	E140	E141		STD5		Y
2301-0690200	BRIDGE APPROACH, RK-20	SY	E023	E109	E110	E111	E115	E140	E141		STD5		Y
2301-0690250	BRIDGE APPROACH, RK-25	SY	E023	E109	E110	E111	E115	E140	E141		STD5		Y
2301-0690260	BRIDGE APPROACH, RK-26	SY	E023	E109	E110	E111	E115	E140	E141		STD5		Y
2301-0690270	BRIDGE APPROACH, RK-27	SY	E023	E109	E110	E111	E115	E140	E141		STD5		Y
2301-1004000	Std. / Slip PCC QM-C Cl. 3i - Variable Thickness	SY	E023	E109	E110	E111	E115	E140	E141		SS		Y
2301-1004060	Std. / Slip PCC QM-C Cl. 3i - 6 in.	SY	E023	E109	E110	E111	E115	E140	E141		SS		Y
2301-1004065	Std. / Slip PCC QM-C Cl. 3i - 6.5 in.	SY	E023	E109	E110	E111	E115	E140	E141		SS		Y
2301-1004070	Std. / Slip PCC QM-C Cl. 3i - 7 in.	SY	E023	E109	E110	E111	E115	E140	E141		SS		Y
2301-1004075	Std. / Slip PCC QM-C Cl. 3i - 7.5 in.	SY	E023	E109	E110	E111	E115	E140	E141		SS		Y
2301-1004080	Std. / Slip PCC QM-C Cl. 3i - 8 in.	SY	E023	E109	E110	E111	E115	E140	E141		SS		Y
2301-1004085	Std. / Slip PCC QM-C Cl. 3i - 8.5 in.	SY	E023	E109	E110	E111	E115	E140	E141		SS		Y
2301-1004090	Std. / Slip PCC QM-C Cl. 3i - 9 in.	SY	E023	E109	E110	E111	E115	E140	E141		SS		Y
2301-9090000	QUALITY MANAGEMENT - CONCRETE	CY	E001	E115							DS	N	
2301-9090100	PCC PAVING 3-D MACHINE CONTROL	LS	E005								DS		Y
2301-9091020	MILLED SHOULDER RUMBLE STRIPS (PCC SURFACE)	LF	E001								DS		Y
2301-9091021	MILLED SHOULDER RUMBLE STRIPS (PCC SURFACE)	STA	E001								SS		Y
2301-9091100	LONGITUDINAL GROOVING IN CONCRETE	SY	E003	E112							SP		Y
2303-0072750	HMA (100,000,000 ESAL), INTERMEDIATECOURSE,3/4 IN MIX	TON	E019	E020	E110	E121					STD	N	
2303-0073752	HMA (100,000,000 ESAL), SURFACE COURSE, 3/4 IN MIX FRIC L-2	TON	E019	E020	E110	E121					STD	N	
2303-0091500	HMA (MARSHALL), BASE COURSE, 1/2 IN.MIX	TON	E019	E020	E110	E121					SP	N	
2303-0091750	HMA (MARSHALL), BASE COURSE,3/4 IN.MIX	TON	E019	E020	E110	E121					SP	N	
2303-0092500	HMA (MARSHALL), INTERMEDIATE COURSE, 1/2 IN MIX	TON	E019	E020	E110	E121					SP	N	
2303-0092750	HMA (MARSHALL), INTERMEDIATE COURSE, 3/4 IN MIX	TON	E019	E020	E110	E121					SP	N	
2303-0093380	HMA (MARSHALL),SUFACE COURSE, 3/8 IN MIX	TON	E019	E020	E110	E121					SP	N	
2303-0093500	HMA (MARSHALL),SURFACE COURSE, 1/2 IN MIX	TON	E019	E020	E110	E121					SP	N	
2303-0093750	HMA (MARSHALL),SURFACE COURSE, 3/4 IN MIX	TON	E019	E020	E110	E121					SP	N	
2303-0191500	HMA (MARSHALL), BASE COURSE, 1/2 IN.MIX	SY	E042	E020	E110	E121	E131				SP		Y
2303-0191750	HMA (MARSHALL), BASE COURSE, 3/4 IN.MIX	SY	E042	E020	E110	E121	E131				SP		Y
2303-0192500	HMA (MARSHALL), INTERMEDIATE COURSE, 1/2 IN MIX	SY	E042	E020	E110	E121	E131				SP		Y
2303-0192750	HMA (MARSHALL), INTERMEDIATE COURSE, 3/4 IN MIX	SY	E042	E020	E110	E121	E131				SP		Y
2303-0193380	HMA (MARSHALL), SURFACE COURSE, 3/8 IN.MIX	SY	E042	E020	E110	E121	E131				SP		Y
2303-0193500	HMA (MARSHALL), SURFACE COURSE, 1/2 IN.MIX	SY	E042	E020	E110	E121	E131				SP		Y
2303-0193750	HMA (MARSHALL), SURFACE COURSE, 3/4 IN.MIX	SY	E042	E020	E110	E121	E131				SP		Y
2303-3250012	ASPHALT FABRIC OVERLAY	SY	E003	E020							STD		Y
2303-3400000	ADJUSTMENT OF FIXTURES	EACH	E039								STD	N	
2303-6930500	HYDRATED LIME	TON	E007								STD	N	
2303-9091020	MILLED SHOULDER RUMBLE STRIPS (HMA SURFACE)	LF	E001								DS		Y
2303-9091021	MILLED SHOULDER RUMBLE STRIPS (HMA SURFACE)	STA	E001								SS		Y
2303-9500000	ULTRA-THIN HMA CONCRETE WEARING SURFACE	SY	E042	E020	E110	E121					SP		Y
2310-5151050	PAVT PCC SLIP-FORM FURNISH ONLY(BONDED)	CY	E001	E115							STD	N	
2310-5151150	PAVT PCC SLIP-FORM FURNISH ONLY(UNBONDED)	CY	E001	E115							STD	N	
2310-5151151	PCC OVERLAY, PLACE ONLY (BONDED)	SY	E003	E109							STD		Y
2310-5151250	PCC OVERLAY, FURNISH ONLY (UNBONDED)	CY	E001	E115							STD	N	
2310-8300400	Slurry Seal Bond Breaker	SY	E003								SS		Y
2315-8275051	SURF DRIVEWAY	CY	E004								STD	N	
2318-1001200	ASPHALT REJUVENATING AGENT	GAL	E001								STD	N	
2318-1001210	FULL DEPTH RECLAMATION	SY	E003	E110							DS	N	
2318-1001222	ASPHALT STABILIZING AGENT (EMULISIFIED ASPHALT)	GAL	E001								DS	N	
2318-1001230	MINERAL STABILIZING AGENT	TON	E001								DS	N	
2319-2000100	AGG-SLURRY WEDGE	TON	E001								STD	N	
2319-3000100	AGG-STRIP SLURRY TREATMENT	TON	E001								STD	N	
2319-9990104	AGGREGATE FOR MICROSURFACING	Ton	E001								SS	N	
2319-9990105	PREPARATION OF SURFACE FOR MICROSURFACING	Mile	E001								SS	N	
2319-9990106	EMULSIFIED ASPHALT FOR MICROSURFACING	Gal	E001								SS	N	
2319-9990110	AGGREGATE FOR MICROSURFACING, NO SPECIAL FRICTION REQUIREMENT	TON	E001								SS	N	
2319-9990112	AGGREGATE FOR MICROSURFACING, FRICTION L-2	TON	E001								SS	N	
2319-9990114	AGGREGATE FOR MICROSURFACING, FRICTION L-4	TON	E001								SS	N	
2399-5145000	DETOUR PAVEMENT	SY	E003	E109	E110						PLAN	N	
2399-5145130	DETOUR PAVEMENT	SY	E003	E109	E110						PLAN	N	
2399-8400160	TEMP PAVT	SY	E003	E109	E110						PLAN	N	
2401-6745760	RMVL OF INTAKE	EACH	E039								SP	N	
2401-6745980	RMVL OF UTILITY ACCESS	EACH	E039								SP2	N	
2402-2725000	INTERMEDIATE FOUNDATION IMPROVEMENTS	LS	E005								SP		Y
2402-2725002	INTERMEDIATE FOUNDATION IMPROVEMENTS VERIFICATION TESTING	LS	E005								SP		Y
2403-0100900	QUALITY MANAGEMENT - STRUCTURAL CONCRETE (QM-SC)	LS	E005	E115							DS		Y
2403-6344000	PRESTRESS CAST-IN-PLACE CONC	LS	E005								PLAN		Y
2403-7302000	COLORED SEALER COATING FOR STRUCTURAL CONCRETE	SY	E003								DS		Y
2407-0550130	BEAM PPC A 30	EACH	E016								STD	N	
2407-0550134	BEAM PPC A 34	EACH	E016								STD	N	
2407-0550138	BEAM PPC A 38	EACH	E016								STD	N	
2407-0550142	BEAM PPC A 42	EACH	E016								STD	N	
2407-0550146	BEAM PPC A 46	EACH	E016								STD	N	
2407-0550150	BEAM PPC A 50	EACH	E016								STD	N	
2407-0550155	BEAM PPC A 55	EACH	E016								STD	N	
2407-0550234	BEAM PPC B 34	EACH	E016								STD	N	
2407-0550238	BEAM PPC B 38	EACH	E016								STD	N	
2407-0550242	BEAM PPC B 42	EACH	E016								STD	N	
2407-0550246	BEAM PPC B 46	EACH	E016								STD	N	
2407-0550250	BEAM PPC B 50	EACH	E016								STD	N	
2407-0550255	BEAM PPC B 55	EACH	E016								STD	N	
2407-0550259	BEAM PPC B 59	EACH	E016								STD	N	
2407-0550263	BEAM PPC B 63	EACH	E016								STD	N	
2407-0550267	BEAM PPC B 67	EACH	E016								STD	N	
2407-0550330	BEAM PPC C 30	EACH	E016								STD	N	
2407-0550334	BEAM PPC C 34	EACH	E016								STD	N	
2407-0550338	BEAM PPC C 38	EACH	E016								STD	N	
2407-0550342	BEAM PPC C 42	EACH	E016								STD	N	
2407-0550346	BEAM PPC C 46	EACH	E016								STD	N	
2407-0550350	BEAM PPC C 50	EACH	E016								STD	N	
2407-0550355	BEAM PPC C 55	EACH	E016								STD	N	

Item Code	Description	Units	Form	Support Forms							Meas/Pay	Plan Quantity N	Plan Quantity Y						
2407-0550359	BEAM PPC C 59	EACH	E016								STD	N							
2407-0550363	BEAM PPC C 63	EACH	E016								STD	N							
2407-0550367	BEAM PPC C 67	EACH	E016								STD	N							
2407-0550371	BEAM PPC C 71	EACH	E016								STD	N							
2407-0550375	BEAM PPC C 75	EACH	E016								STD	N							
2407-0550380	BEAM PPC C 80	EACH	E016								STD	N							
2407-0550435	BEAM PPC D 35	EACH	E016								STD	N							
2407-0550440	BEAM PPC D 40	EACH	E016								STD	N							
2407-0550445	BEAM PPC D 45	EACH	E016								STD	N							
2407-0550450	BEAM PPC D 50	EACH	E016								STD	N							
2407-0550455	BEAM PPC D 55	EACH	E016								STD	N							
2407-0550460	BEAM PPC D 60	EACH	E016								STD	N							
2407-0550465	BEAM PPC D 65	EACH	E016								STD	N							
2407-0550470	BEAM PPC D 70	EACH	E016								STD	N							
2407-0550475	BEAM PPC D 75	EACH	E016								STD	N							
2407-0550480	BEAM PPC D 80	EACH	E016								STD	N							
2407-0550485	BEAM PPC D 85	EACH	E016								STD	N							
2407-0550490	BEAM PPC D 90	EACH	E016								STD	N							
2407-0550495	BEAM PPC D 95	EACH	E016								STD	N							
2407-0554480	BEAM PPC D 80 N	EACH	E016								STD	N							
2407-0554495	BEAM PPC D 95 N	EACH	E016								STD	N							
2407-0555650	BEAM PPC A 50 R	EACH	E016								STD	N							
2407-0555655	BEAM PPC A 55 R	EACH	E016								STD	N							
2407-0555755	BEAM PPC B 55 R	EACH	E016								STD	N							
2407-0555759	BEAM PPC B 59 R	EACH	E016								STD	N							
2407-0555763	BEAM PPC B 63 R	EACH	E016								STD	N							
2407-0555767	BEAM PPC B 67 R	EACH	E016								STD	N							
2407-0555967	BEAM PPC C 67 R	EACH	E016								STD	N							
2407-0555971	BEAM PPC C 71 R	EACH	E016								STD	N							
2407-0555974	BEAM PPC C 74 R	EACH	E016								STD	N							
2407-0555975	BEAM PPC C 75 R	EACH	E016								STD	N							
2407-0555980	BEAM PPC C 80 R	EACH	E016								STD	N							
2407-0580130	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXA30	EACH	E016								STD	N							
2407-0580134	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXA34	EACH	E016								STD	N							
2407-0580138	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXA38	EACH	E016								STD	N							
2407-0580142	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXA42	EACH	E016								STD	N							
2407-0580146	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXA46	EACH	E016								STD	N							
2407-0580150	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXA50	EACH	E016								STD	N							
2407-0580155	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXA55	EACH	E016								STD	N							
2407-0580234	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXB34	EACH	E016								STD	N							
2407-0580238	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXB38	EACH	E016								STD	N							
2407-0580242	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXB42	EACH	E016								STD	N							
2407-0580246	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXB46	EACH	E016								STD	N							
2407-0580250	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXB50	EACH	E016								STD	N							
2407-0580255	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXB55	EACH	E016								STD	N							
2407-0580259	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXB59	EACH	E016								STD	N							
2407-0580263	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXB63	EACH	E016								STD	N							
2407-0580267	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXB67	EACH	E016								STD	N							
2407-0580330	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXC30	EACH	E016								STD	N							
2407-0580334	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXC34	EACH	E016								STD	N							
2407-0580338	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXC38	EACH	E016								STD	N							
2407-0580342	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXC42	EACH	E016								STD	N							
2407-0580346	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXC46	EACH	E016								STD	N							
2407-0580350	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXC50	EACH	E016								STD	N							
2407-0580355	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXC55	EACH	E016								STD	N							
2407-0580359	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXC59	EACH	E016								STD	N							
2407-0580363	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXC63	EACH	E016								STD	N							
2407-0580367	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXC67	EACH	E016								STD	N							
2407-0580371	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXC71	EACH	E016								STD	N							
2407-0580375	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXC75	EACH	E016								STD	N							
2407-0580380	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXC80	EACH	E016								STD	N							
2407-0580435	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXD35	EACH	E016								STD	N							
2407-0580440	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXD40	EACH	E016								STD	N							
2407-0580445	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXD45	EACH	E016								STD	N							
2407-0580450	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXD50	EACH	E016								STD	N							
2407-0580455	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXD55	EACH	E016								STD	N							
2407-0580460	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXD60	EACH	E016								STD	N							
2407-0580465	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXD65	EACH	E016								STD	N							
2407-0580470	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXD70	EACH	E016								STD	N							
2407-0580475	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXD75	EACH	E016								STD	N							
2407-0580480	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXD80	EACH	E016								STD	N							
2407-0580485	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXD85	EACH	E016								STD	N							
2407-0580490	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXD90	EACH	E016								STD	N							
2407-0580495	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXD95	EACH	E016								STD	N							
2407-0580500	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXD100	EACH	E016								STD	N							
2407-0580505	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXD105	EACH	E016								STD	N							
2407-0580510	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXD110	EACH	E016								STD	N							
2407-0580515	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXD115	EACH	E016								STD	N							
2407-0580520	BEAMS, PRETENSIONED PRESTRESSED CONCRETE, LXD120	EACH	E016								STD	N							
2407-0603030	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, C30	EACH	E016								STD	N							
2407-0603035	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, C35	EACH	E016								STD	N							
2407-0603040	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, C40	EACH	E016								STD	N							
2407-0603045	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, C45	EACH	E016								STD	N							
2407-0603050	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, C50	EACH	E016								STD	N							
2407-0603055	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, C55	EACH	E016								STD	N							
2407-0603060	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, C60	EACH	E016								STD	N							
2407-0603065	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, C65	EACH	E016								STD	N							
2407-0603070	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, C70	EACH	E016								STD	N							
2407-0603075	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, C75	EACH	E016								STD	N							
2407-0603080	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, C80	EACH	E016								STD	N							
2407-0603085	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, C85	EACH	E016								STD	N							
2407-0603090	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, C90	EACH	E016								STD	N							
2407-0603095	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, C95	EACH	E016								STD	N							
2407-0603100	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, C100	EACH	E016								STD	N							
2407-0603105	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, C105	EACH	E016								STD	N							
2407-0603110	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, C110	EACH	E016								STD	N							
2407-0603115	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, C115	EACH	E016								STD	N							
2407-0603120	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, C120	EACH	E016								STD	N							
2407-0604050	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, D50	EACH	E016								STD	N							
2407-0604055	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, D55	EACH	E016								STD	N							
2407-0604060	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, D60	EACH	E016								STD	N							
2407-0604065	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, D65	EACH	E016								STD	N							
2407-0604070	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, D70	EACH	E016								STD	N							
2407-0604075	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, D75	EACH	E016								STD	N							
2407-0604080	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, D80	EACH	E016								STD	N							
2407-0604085	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, D85	EACH	E016								STD	N							
2407-0604090	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, D90	EACH	E016								STD	N							
2407-0604095	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, D95	EACH	E016								STD	N							
2407-0604100	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, D100	EACH	E016								STD	N							
2407-0604105	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, D105	EACH	E016								STD	N							
2407-0604110	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, D110	EACH	E016								STD	N							
2407-0604115	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, D115	EACH	E016								STD	N							

Item Code	Description	Units	Form	Support Forms							Meas/Pay	Plan Quantity N	Plan Quantity Y						
2407-0604120	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, D120	EACH	E016								STD	N							
2407-0604125	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, D125	EACH	E016								STD	N							
2407-0604130	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, D130	EACH	E016								STD	N							
2407-0604135	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, D135	EACH	E016								STD	N							
2407-0604140	BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, D140	EACH	E016								STD	N							
2408-7900000	HANDHOLE SCREEN	EACH	E039								PLAN	N							
2408-8500000	PRE-ENGINEERED STEEL TRUSS TRAIL BRIDGE	LS	E005								SS		Y						
2408-8500001	PRE-ENGINEERED STEEL TRUSS TRAIL BRIDGE,	EACH	E039								SS	N							
2409-4200000	HARDWARE GALVANIZED	LB	E001								STD		Y						
2409-4575000	TREATED LUMBER	MFBM	E017								STD	N							
2409-4600000	UNTREATED LUMBER	MFBM	E017								STD	N							
2410-4570000	PLANK FLOOR LUMBER	MFBM	E017								STD	N							
2411-4570500	LAMINATED WOOD FLOOR	MFBM	E017								STD	N							
2413-0698040	BRIDGE FLOOR OVER-DEPTH OVERLAY (CLASS O PCC)	SY	E003	E111	E112	E120					DS	N							
2413-0698050	BRIDGE FLOOR OVER-DEPTH OVERLAY (CLASS HPC-O PCC)	SY	E003	E111	E112	E120					DS	N							
2413-0698068	BRIDGE FLOOR OVERLAY (CLASS O PCC)	SY	E003	E111	E112	E120					STD	N							
2413-0698069	BRIDGE FLOOR OVERLAY (CLASS HPC-O PCC)	SY	E003	E111	E112	E120					STD	N							
2413-0698071	BRIDGE FLOOR OVERLAY	SY	E003	E111	E112	E120					STD	N							
2413-0698072	BRIDGE FLOOR REPAIR CL A	SY	E003	E112							STD	N							
2413-0698073	BRIDGE FLOOR REPAIR CL B	SY	E003	E112							STD	N							
2413-0698080	BRIDGE FLOOR REPAIR, CLASS A, SPECIAL	SY	E003	E111	E120						DS	N							
2413-0698110	BRIDGE FLOOR SURF	SY	E003	E111	E120						STD	N							
2413-0698120	BRIDGE FLOOR SURFACING (CLASS O PCC)	SY	E003	E111	E120						STD	N							
2413-0698130	BRIDGE FLOOR SURFACING (CLASS HPC-O PCC)	SY	E003	E111	E120						STD	N							
2414-6625000	STEEL CHANNEL RAILING	LF	E001								PLAN		Y						
2414-6770013	REM0VE AND STOCKPILE EXIST HANDRAIL	LS	E005								PLAN		Y						
2415-2111408	PRECAST CONCRETE BOX CULVERT, 14 FT. X 8 FT.	LF	E018								PLAN		Y						
2415-2201408	PRECAST CONC. BOX CULVERT STR END SEC, 14 FT.X 8FT.	EACH	E039								PLAN		Y						
2416-0102022	APRONS, CONCRETE ARCH, 22 IN X 14 IN	EACH	E039								STD		Y						
2416-0102029	APRONS, CONCRETE ARCH, 29 IN X 18 IN	EACH	E039								STD		Y						
2416-0102037	APRONS, CONCRETE ARCH, 37 IN X 23 IN	EACH	E039								STD		Y						
2416-0102044	APRONS, CONCRETE ARCH, 44 IN X 27 IN	EACH	E039								STD		Y						
2416-0102052	APRONS, CONCRETE ARCH, 52 IN X 32 IN	EACH	E039								STD		Y						
2416-0102059	APRONS, CONCRETE ARCH, 59 IN X 36 IN	EACH	E039								STD		Y						
2416-0102065	APRONS, CONCRETE ARCH, 65 IN X 40 IN	EACH	E039								STD		Y						
2416-0102073	APRONS, CONCRETE ARCH, 73 IN X 45 IN	EACH	E039								STD		Y						
2416-0102088	APRONS, CONCRETE ARCH, 88 IN X 54 IN	EACH	E039								STD		Y						
2416-0102102	APRONS, CONCRETE ARCH, 102 IN. X 62 IN.	EACH	E039								STD		Y						
2416-0102115	APRONS, CONCRETE ARCH, 115 IN. X 72 IN.	EACH	E039								STD		Y						
2416-0102122	APRONS, CONCRETE ARCH, 122 IN. X 78 IN.	EACH	E039								STD		Y						
2416-0102138	APRONS, CONCRETE ARCH, 138 IN. X 88 IN.	EACH	E039								STD		Y						
2416-0102154	APRONS, CONCRETE ARCH, 154 IN. X 97 IN.	EACH	E039								STD		Y						
2416-0102169	APRONS, CONCRETE ARCH, 169 IN. X 107 IN.	EACH	E039								STD		Y						
2416-1160015	CULV CONC ENT PIPE 15 IN	LF	E018								STD	N							
2416-1165015	CULVERT, 2000D CONC ENTRANCE PIPE, 15 IN. DIA.	LF	E018								STD	N							
2416-1170015	CULVERT, 3000D CONC ENTRANCE PIPE, 15 IN. DIA.	LF	E018								STD	N							
2416-1190022	CULV CONC ARCH ENT PIPE, 22 IN. X 14 IN	LF	E018								STD	N							
2416-1190029	CULV CONC ARCH ENT PIPE, 29 IN. X 18 IN.	LF	E018								STD	N							
2416-1190037	CULV CONC ARCH ENT PIPE, 37 IN. X 23 IN.	LF	E018								STD	N							
2416-1190044	CULV CONC ARCH ENT PIPE, 44 IN. X 27 IN.	LF	E018								STD	N							
2416-1190052	CULV CONC ARCH ENT PIPE, 52 IN. X 32 IN.	LF	E018								STD	N							
2416-1190059	CULV CONC ARCH ENT PIPE, 59 IN. X 36 IN.	LF	E018								STD	N							
2416-1190065	CULV CONC ARCH ENT PIPE, 65 IN. X 40 IN.	LF	E018								STD	N							
2416-1190073	CULV CONC ARCH ENT PIPE, 73 IN. X 45 IN.	LF	E018								STD	N							
2416-1190088	CULV CONC ARCH ENT PIPE, 88 IN. X 54 IN.	LF	E018								STD	N							
2416-1190102	CULV CONC ARCH ENT PIPE, 102 IN. X 62 IN.	LF	E018								STD	N							
2416-1190115	CULV CONC ARCH ENT PIPE, 115 IN. X 72 IN.	LF	E018								STD	N							
2416-1192022	CULVERT, 2000D CONCRETE ARCH ENTRANCE PIPE, 22 IN. X 14 IN.	LF	E018								STD	N							
2416-1192029	CULVERT, 2000D CONCRETE ARCH ENTRANCE PIPE, 29 IN. X 18 IN.	LF	E018								STD	N							
2416-1192037	CULVERT, 2000D CONCRETE ARCH ENTRANCE PIPE, 37 IN. X 23 IN.	LF	E018								STD	N							
2416-1192044	CULVERT, 2000D CONCRETE ARCH ENTRANCE PIPE, 44 IN. X 27 IN.	LF	E018								STD	N							
2416-1192052	CULVERT, 2000D CONCRETE ARCH ENTRANCE PIPE, 52 IN. X 32 IN.	LF	E018								STD	N							
2416-1192059	CULVERT, 2000D CONCRETE ARCH ENTRANCE PIPE, 59 IN. X 36 IN.	LF	E018								STD	N							
2416-1192065	CULVERT, 2000D CONCRETE ARCH ENTRANCE PIPE, 65 IN. X 40 IN.	LF	E018								STD	N							
2416-1192073	CULVERT, 2000D CONCRETE ARCH ENTRANCE PIPE, 73 IN. X 45 IN.	LF	E018								STD	N							
2416-1192088	CULVERT, 2000D CONCRETE ARCH ENTRANCE PIPE, 88 IN. X 54 IN.	LF	E018								STD	N							
2416-1192102	CULVERT, 2000D CONCRETE ARCH ENTRANCE PIPE, 102 IN. X 62 IN.	LF	E018								STD	N							
2416-1192115	CULVERT, 2000D CONCRETE ARCH ENTRANCE PIPE, 115 IN. X 72 IN.	LF	E018								STD	N							
2416-1193022	CULVERT, 3000D CONCRETE ARCH ENTRANCE PIPE, 22 IN. X 14 IN.	LF	E018								STD	N							
2416-1193029	CULVERT, 3000D CONCRETE ARCH ENTRANCE PIPE, 29 IN. X 18 IN.	LF	E018								STD	N							
2416-1193037	CULVERT, 3000D CONCRETE ARCH ENTRANCE PIPE, 37 IN. X 23 IN.	LF	E018								STD	N							
2416-1193044	CULVERT, 3000D CONCRETE ARCH ENTRANCE PIPE, 44 IN. X 27 IN.	LF	E018								STD	N							
2416-1193052	CULVERT, 3000D CONCRETE ARCH ENTRANCE PIPE, 52 IN. X 32 IN.	LF	E018								STD	N							
2416-1193059	CULVERT, 3000D CONCRETE ARCH ENTRANCE PIPE, 59 IN. X 36 IN.	LF	E018								STD	N							
2416-1193065	CULVERT, 3000D CONCRETE ARCH ENTRANCE PIPE, 65 IN. X 40 IN.	LF	E018								STD	N							
2416-1193073	CULVERT, 3000D CONCRETE ARCH ENTRANCE PIPE, 73 IN. X 45 IN.	LF	E018								STD	N							
2416-1193088	CULVERT, 3000D CONCRETE ARCH ENTRANCE PIPE, 88 IN. X 54 IN.	LF	E018								STD	N							
2416-1193102	CULVERT, 3000D CONCRETE ARCH ENTRANCE PIPE, 102 IN. X 62 IN.	LF	E018								STD	N							
2416-1193115	CULVERT, 3000D CONCRETE ARCH ENTRANCE PIPE, 115 IN. X 72 IN.	LF	E018								STD	N							
2416-1200022	CULV CONC ARCH RDWY PIPE 22 IN. X 14 IN.	LF	E018								STD	N							
2416-1200029	CULV CONC ARCH RDWY PIPE 29 IN. X 18 IN.	LF	E018								STD	N							
2416-1200037	CULV CONC ARCH RDWY PIPE 37 IN. X 23 IN.	LF	E018								STD	N							
2416-1200044	CULV CONC ARCH RDWY PIPE 44 IN. X 27 IN.	LF	E018								STD	N							
2416-1200052	CULV CONC ARCH RDWY PIPE 52 IN. X 32 IN.	LF	E018								STD	N							
2416-1200059	CULV CONC ARCH RDWY PIPE 59 IN. X 36 IN.	LF	E018								STD	N							
2416-1200065	CULV CONC ARCH RDWY PIPE 65 IN. X 40 IN.	LF	E018								STD	N							
2416-1200073	CULV CONC ARCH RDWY PIPE 73 IN. X 45 IN.	LF	E018								STD	N							
2416-1200088	CULV CONC ARCH RDWY PIPE 88 IN. X 54 IN.	LF	E018								STD	N							
2416-1200102	CULV CONC ARCH RDWY PIPE 102 IN. X 62 IN.	LF	E018								STD	N							
2416-1200115	CULV CONC ARCH RDWY PIPE 115 IN. X 72 IN.	LF	E018								STD	N							
2416-1200122	CULV CONC ARCH RDWY PIPE 122 IN. X 78 IN.	LF	E018								STD	N							
2416-1200138	CULV CONC ARCH RDWY PIPE 138 IN. X 88 IN.	LF	E018								STD	N							
2416-1200154	CULV CONC ARCH RDWY PIPE 154 IN. X 97 IN.	LF	E018								STD	N							
2416-1200169	CULV CONC ARCH RDWY PIPE 169 IN. X 107 IN.	LF	E018								STD	N							
2416-1203022	CULVERT, 3750D CONCRETE ARCH ROADWAY PIPE, 22 IN. X 14 IN.	LF	E018								STD	N							
2416-1203029	CULVERT, 3750D CONCRETE ARCH ROADWAY PIPE, 29 IN. X 18 IN.	LF	E018								STD	N							
2416-1203037	CULVERT, 3750D CONCRETE ARCH ROADWAY PIPE, 37 IN. X 23 IN.	LF	E018								STD	N							
2416-1203044	CULVERT, 3750D CONCRETE ARCH ROADWAY PIPE, 44 IN. X 27 IN.	LF	E018								STD	N							
2416-1203052	CULVERT, 3750D CONCRETE ARCH ROADWAY PIPE, 52 IN. X 32 IN.	LF	E018								STD	N							
2416-1203059	CULVERT, 3750D CONCRETE ARCH ROADWAY PIPE, 59 IN. X 36 IN.	LF	E018								STD	N							
2416-1203065	CULVERT, 3750D CONCRETE ARCH ROADWAY PIPE, 65 IN. X 40 IN.	LF	E018								STD	N							
2416-1203073	CULVERT, 3750D CONCRETE ARCH ROADWAY PIPE, 73 IN. X 45 IN.	LF	E018								STD	N							
2416-1203088	CULVERT, 3750D CONCRETE ARCH ROADWAY PIPE, 88 IN. X 54 IN.	LF	E018								STD	N							
2416-1203102	CULVERT, 3750D CONCRETE ARCH ROADWAY PIPE, 102 IN. X 62 IN.	LF	E018								STD	N							
2416-1203115	CULVERT, 3750D CONCRETE ARCH ROADWAY PIPE, 115 IN. X 72 IN.	LF	E018								STD	N							
2416-1203122	CULVERT, 3750D CONCRETE ARCH ROADWAY PIPE, 122 IN. X 78 IN.	LF	E018								STD	N							
2416-1203138	CULVERT, 3750D CONCRETE ARCH ROADWAY PIPE, 138 IN. X 88 IN.	LF	E018								STD	N							
2416-1203154	CULVERT, 3750D CONCRETE ARCH ROADWAY PIPE, 154 IN. X 97 IN.	LF	E018								STD	N							
2416-1203169	CULVERT, 3750D CONCRETE ARCH ROADWAY PIPE, 169 IN. X 107 IN.	LF	E018								STD	N							Y
2416-1245078	CULV 3750D CONC RDWY PIPE 78 IN	LF	E018								STD	N							Y
2416-1245084	CULV 3750D CONC RDWY PIPE 84 IN	LF	E018								STD	N							
2416-8000104	STOCKPASS APRON, 4' X 6' PRECAST CONCRETE, RF-8	EACH	E039								SRP	N							

Item Code	Description	Units	Form	Support Forms							Meas/Pay	Plan Quantity N	Plan Quantity Y						
2416-8000105	STOCKPASS APRON, 5' X 7' PRECAST CONCRETE, RF-8	EACH	E039								SRP	N							
2416-8000154	STOCKPASS, 4' X 6' PRECAST CONCRETE, RF-8	LF	E018								SRP	N							
2416-8000155	STOCKPASS, 5' X 7' PRECAST CONCRETE, RF-8	LF	E018								SRP	N							
2417-1040015	CULV CMP ENT 15 IN	LF	E018								STD	N							
2417-1130015	CULV CORR POLYETHYLENE ENT PIPE 15 IN	LF	E018								STD	N							Y
2417-5895000	PIPE BEVELED+GUARD	EACH	E039								PLAN		Y						Y
2418-1220000	PIPE INSTALLED BY TRENCHLESS CONSTRUCTION	LF	E018								DS	N							Y
2418-1220015	CULV JACKED CONC RDWY PIPE 15 IN	LF	E018								STD	N							Y
2418-1220018	CULV JACKED CONC RDWY PIPE 18 IN	LF	E018								STD	N							Y
2418-1220021	CULV JACKED CONC RDWY PIPE, 21 IN.	LF	E018								STD	N							
2418-1220024	CULV JACKED CONC RDWY PIPE 24 IN	LF	E018								STD	N							
2418-1220027	CULV JACKED CONC RDWY PIPE, 27 IN.	LF	E018								STD	N							
2418-1220030	CULV JACKED CONC RDWY PIPE 30 IN	LF	E018								STD	N							
2418-1220036	CULV JACKED CONC RDWY PIPE 36 IN	LF	E018								STD	N							
2418-1220042	CULV JACKED CONC RDWY PIPE 42 IN	LF	E018								STD	N							
2418-1220048	CULV JACKED CONC RDWY PIPE 48 IN	LF	E018								STD	N							
2418-1220060	CULV JACKED CONC RDWY PIPE 60 IN	LF	E018								STD	N							
2418-1220066	CULV JACKED CONC RDWY PIPE, 66 IN.	LF	E018								STD	N							
2418-1220072	CULV JACKED CONC RDWY PIPE 72 IN	LF	E018								STD	N							
2418-1220078	CULV JACKED CONC RDWY PIPE, 78 IN.	LF	E018								STD	N							
2418-1220084	CULV JACKED CONC RDWY PIPE 84 IN	LF	E018								STD	N							
2418-1260018	CULV 3000D JACKED CONC RDWY PIPE 18 IN	LF	E018								STD	N							
2418-1260021	CULV 3000D JACKED CONC RDWY PIPE, 21 IN	LF	E018								STD	N							
2418-1260024	CULV 3000D JACKED CONC RDWY PIPE 24 IN	LF	E018								STD	N							
2418-1260027	CULV 3000D JACKED CONC RDWY PIPE, 27 IN	LF	E018								STD	N							
2418-1260030	CULV 3000D JACKED CONC RDWY PIPE 30 IN	LF	E018								STD	N							
2418-1260036	CULV 3000D JACKED CONC RDWY PIPE 36 IN	LF	E018								STD	N							
2418-1260042	CULV 3000D JACKED CONC RDWY PIPE 42 IN	LF	E018								STD	N							
2418-1260048	CULV 3000D JACKED CONC RDWY PIPE 48 IN	LF	E018								STD	N							
2418-1260054	CULV 3000D JACKED CONC RDWY PIPE 54 IN	LF	E018								STD	N							
2418-1260060	CULV 3000D JACKED CONC RDWY PIPE 60 IN	LF	E018								STD	N							
2418-1260066	CULV 3000D JACKED CONC RDWY PIPE 66 IN	LF	E018								STD	N							
2418-1260072	CULV 3000D JACKED CONC RDWY PIPE 72 IN	LF	E018								STD	N							
2418-1260078	CULV 3000D JACKED CONC RDWY PIPE, 78 IN	LF	E018								STD	N							
2418-1260084	CULV 3000D JACKED CONC RDWY PIPE 84 IN	LF	E018								STD	N							
2418-1262018	CULV 3750D JACKED CONC RDWY PIPE, 18 IN	LF	E018								STD	N							
2418-1262021	CULV 3750D JACKED CONC RDWY PIPE, 21 IN	LF	E018								STD	N							
2418-1262024	CULV 3750D JACKED CONC RDWY PIPE 24 IN	LF	E018								STD	N							
2418-1262027	CULV 3750D JACKED CONC RDWY PIPE, 27 IN	LF	E018								STD	N							
2418-1262030	CULV 3750D JACKED CONC RDWY PIPE 30 IN	LF	E018								STD	N							
2418-1262036	CULV 3750D JACKED CONC RDWY PIPE 36 IN	LF	E018								STD	N							
2418-1262042	CULV 3750D JACKED CONC RDWY PIPE, 42 IN	LF	E018								STD	N							
2418-1262048	CULV 3750D JACKED CONC RDWY PIPE 48 IN	LF	E018								STD	N							
2418-1262054	CULV 3750D JACKED CONC RDWY PIPE 54 IN	LF	E018								STD	N							
2418-1262060	CULV 3750D JACKED CONC RDWY PIPE 60 IN	LF	E018								STD	N							
2418-1262066	CULV 3750D JACKED CONC RDWY PIPE, 66 IN	LF	E018								STD	N							
2418-1262072	CULV 3750D JACKED CONC RDWY PIPE, 72 IN	LF	E018								STD	N							
2418-1262078	CULV 3750D JACKED CONC RDWY PIPE, 78	LF	E018								STD	N							
2418-1262084	CULV 3750D JACKED CONC RDWY PIPE, 84	LF	E018								STD	N							
2418-1265073	CULV JACKED CONC ARCH RDWY PIPE, 73 IN X 45 IN	LF	E018								STD	N							
2418-1265073	CULV JACKED CONC ARCH RDWY PIPE 73 X45	LF	E018								STD	N							
2422-1722015	CULV UNCL ENT PIPE 15 IN	LF	E018								STD	N							
2423-1010450	O'HD SIGN SUPPORT STRUCTURE, ALUMINUM SUPERSTRUCTURE, 45 FT. SF	EACH	E039								STD		Y						
2423-1011050	O'HD SIGN SUPPORT STRUCTURE, ALUMINUM SUPERSTRUCTURE, 105 FT. S	EACH	E039								STD		Y						
2423-1050280	O'HD SIGN SUPPORT STRUCTURE, CANTILEVERED, 28 Ft. ARM	EACH	E039								STD		Y						
2423-1050300	O'HD SIGN SUPPORT STRUCTURE, CANTILEVERED, 30 Ft. ARM	EACH	E039								STD		Y						
2423-1050320	O'HD SIGN SUPPORT STRUCTURE, CANTILEVERED, 32 Ft. ARM	EACH	E039								STD		Y						
2423-1050360	O'HD SIGN SUPPORT STRUCTURE, CANTILEVERED, 36 Ft. ARM	EACH	E039								STD		Y						
2423-1050380	O'HD SIGN SUPPORT STRUCTURE, CANTILEVERED, 38 Ft. ARM	EACH	E039								STD		Y						
2423-9225102	OVHD SIGN ASSMY TYPE 1 2 BRACKET ALUM	EACH	E039								PLAN	N							
2423-9225103	OVHD SIGN ASSMY TYPE 1 3 BRACKET ALUM	EACH	E039								PLAN	N							
2423-9225104	OVHD SIGN ASSMY TYPE 1 4 BRACKET ALUM	EACH	E039								PLAN	N							
2423-9225202	OVHD SIGN ASSMY TYPE 2 2 BRACKET ALUM	EACH	E039								PLAN	N							
2423-9226102	OVHD SIGN ASSMY TYPE 1 2 BRACKET STEEL	EACH	E039								PLAN	N							
2423-9226103	OVHD SIGN ASSMY TYPE 1 3 BRACKET STEEL	EACH	E039								PLAN	N							
2423-9226104	OVHD SIGN ASSMY TYPE 1 4 BRACKET STEEL	EACH	E039								PLAN	N							
2423-9226202	OVHD SIGN ASSMY TYPE 2 2 BRACKET STEEL	EACH	E039								PLAN	N							
2423-9235100	OVHD SIGN BRACKET MODIFICATIONS	EACH	E039								PLAN	N							
2423-9301000	CONCRETE DRILLED SHAFT FOR SUPPORT STRUCTURE, _____	LF	E039	E145							DS	N							
2423-9301025	CONCRETE DRILLED SHAFT FOR SUPPORT STRUCTURE, 2'-6 DIA.	LF	E039	E145							DS	N							
2423-9301030	CONCRETE DRILLED SHAFT FOR SUPPORT STRUCTURE, 3'-0 DIA.	LF	E039	E145							DS	N							
2423-9301035	CONCRETE DRILLED SHAFT FOR SUPPORT STRUCTURE, 3'-6 DIA.	LF	E039	E145							DS	N							
2423-9301040	CONCRETE DRILLED SHAFT FOR SUPPORT STRUCTURE, 4'-0 DIA.	LF	E039	E145							DS	N							
2423-9301045	CONCRETE DRILLED SHAFT FOR SUPPORT STRUCTURE, 4'-6 DIA.	LF	E039	E145							DS	N							
2423-9301050	CONCRETE DRILLED SHAFT FOR SUPPORT STRUCTURE, 5'-0 DIA.	LF	E039	E145							DS	N							
2423-9301055	CONCRETE DRILLED SHAFT FOR SUPPORT STRUCTURE, 5'-6 DIA.	LF	E039	E145							DS	N							
2423-9301060	CONCRETE DRILLED SHAFT FOR SUPPORT STRUCTURE, 6'-0 DIA.	LF	E039	E145							DS	N							
2426-0900075	CONC ENCASEMENT	CY	E004								PLAN	N							
2435-0100490	MANHOLE, RA-49	EACH	E039	E132	E145						STD	N							
2435-0100500	MANHOLE, RA-50	EACH	E039	E132	E145						STD	N							
2435-0100510	MANHOLE, RA-51	EACH	E039	E132	E145						STD	N							
2435-0200400	INTAKE, RA-40	EACH	E039	E132	E145						STD	N							
2435-0200410	INTAKE, RA-41	EACH	E039	E132	E145						STD	N							
2435-0200420	INTAKE, RA-42	EACH	E039	E132	E145						STD	N							
2435-0200430	INTAKE, RA-43	EACH	E039	E132	E145						STD	N							
2435-0200460	INTAKE, RA-46	EACH	E039	E132	E145						STD	N							
2435-0200471	BARRIER INTAKE, RA-47A	EACH	E039	E132	E145						STD	N							
2435-0200472	BARRIER INTAKE, RA-47B	EACH	E039	E132	E145						STD	N							
2435-0200481	BARRIER INTAKE, RA-48A	EACH	E039	E132	E145						STD	N							
2435-0200482	BARRIER INTAKE, RA-48B	EACH	E039	E132	E145						STD	N							
2435-0200600	INTAKE, RA-60	EACH	E039	E132	E145						STD	N							
2435-0200610	INTAKE, RA-61	EACH	E039	E132	E145						STD	N							
2435-0200620	INTAKE, RA-62	EACH	E039	E132	E145						STD	N							
2435-0200630	INTAKE, RA-63	EACH	E039	E132	E145						STD	N							
2435-0200640	INTAKE, RA-64	EACH	E039	E132	E145						STD	N							
2435-0200700	INTAKE, RA-70	EACH	E039	E132	E145						STD	N							
2435-0700000	CONNECTION TO EXISTING SANITARY SEWER MANHOLE	EACH	E039	E132							STD	N							
2499-0695002	BRIDGE END DRAIN AS PER PLAN	EACH	E039								PLAN	N							
2499-0695038	BRIDGE END DRAIN RF-38	EACH	E039								SRP	N							
2499-0695039	BRIDGE END DRAIN RF-39	EACH	E039								SRP	N							
2499-0695040	BRIDGE END DRAIN RF-40	EACH	E039								SRP	N							
2499-0695045	BRIDGE DRAIN ROCK SPLASH BASIN, RF-45	EACH	E039								PLAN	N							
2499-5000000	RAMMED AGGREGATE PIER	LF	E039								SP	N							
2501-4490010	JETTING	LS	E021								STD		Y						
2501-5410110	Piles, Drive Wood, (TT Found.)	LF	E039								STD	N							
2501-5410120	Piles, Drive O'size Wood (TT Found.)	LF	E039								STD	N							
2501-5410130	Piles, Drive Wood (TT Trestle)	LF	E039								STD	N							
2501-5410140	Piles, Drive O'size Wood (TT Trestle)	LF	E039								STD	N							
2501-5425036	PILING DRIVE STEEL BEAR HP 8X36	LF	E039								STD	N							
2501-5425042	PILING DRIVE STEEL BEAR HP 10X42	LF	E039								STD	N							
2501-5425053	PILING DRIVE STEEL BEAR HP 12X53	LF	E039								STD	N							
2501-5425057	PILING DRIVE STEEL BEAR HP 10X57	LF	E039								STD	N							

Item Code	Description	Units	Form	Support Forms							Meas/Pay	Plan Quantity N	Plan Quantity Y						
2501-5425063	PILING DRIVE STEEL BEAR HP 12X63	LF	E039								STD	N							
2501-5425073	PILING DRIVE STEEL BEAR HP 14X73	LF	E039								STD	N							
2501-5425074	PILING DRIVE STEEL BEAR HP 12X74	LF	E039								STD	N							
2501-5425084	PILING, DRIVE STEEL BEAR, HP 12X84	LF	E039								STD	N							
2501-5425089	PILING DRIVE STEEL BEAR HP 14X89	LF	E039								STD	N							
2501-5511110	Piles, Furnish Wood (TT Found.)	LF	E039	E116	E117						STD	N							
2501-5511120	Piles, Furn. O'size Wood (TT Found.)	LF	E039	E116	E117						STD	N							
2501-5511130	Piles, Furnish Wood (TT Trestle)	LF	E039	E116	E117						STD	N							
2501-5511140	Piles, Furn. O'size Wood (TT Trestle)	LF	E039	E116	E117						STD	N							
2501-5550036	PILING FURNISH STEEL BEAR HP 8X36	LF	E039	E116	E117						STD	N							
2501-5550042	PILING FURNISH STEEL BEAR HP 10X42	LF	E039	E116	E117						STD	N							
2501-5550053	PILING FURNISH STEEL BEAR HP 12X53	LF	E039	E116	E117						STD	N							
2501-5550057	PILING FURNISH STEEL BEAR HP 10X57	LF	E039	E116	E117						STD	N							
2501-5550063	PILING FURNISH STEEL BEAR HP 12X63	LF	E039	E116	E117						STD	N							
2501-5550073	PILING FURNISH STEEL BEAR HP 14X73	LF	E039	E116	E117						STD	N							
2501-5550074	PILING FURNISH STEEL BEAR HP 12X74	LF	E039	E116	E117						STD	N							
2501-5550084	PILING, FURNISH STEEL BEAR, HP 12X84	LF	E039	E116	E117						STD	N							
2501-5550089	PILING FURNISH STEEL BEAR HP 14X89	LF	E039	E116	E117						STD	N							
2501-5610114	Piles, Furn. Steel Pipe, 14"(P10A TYPE 1)	LF	E039	E116	E117						STD	N							
2501-5610116	Piles, Furn. Steel Pipe, 16"(P10A TYPE 1)	LF	E039	E116	E117						STD	N							
2501-5620114	Piles, Drive Steel Pipe, 14"(P10A TYPE 1)	LF	E039	E115							STD	N							
2501-5620116	Piles, Drive Steel Pipe, 16"(P10A TYPE 1)	LF	E039	E115							STD	N							
2501-5705012	PILING PPC FOUNDATION 12 IN(BR. STS.1046)	LF	E039								STD6		Y						
2501-8499030	CONCRETE DRILLED SHAFT, 30 INCH DIAMETER	LF	E039	E145							SS	N							
2501-8499036	CONCRETE DRILLED SHAFT, 36 INCH DIAMETER	LF	E039	E145							SS	N							
2501-8499042	CONCRETE DRILLED SHAFT, 42 INCH DIAMETER	LF	E039	E145							SS	N							
2501-8499048	CONCRETE DRILLED SHAFT, 48 INCH DIAMETER	LF	E039	E145							SS	N							
2501-8500000	CONCRETE DRILLED SHAFT, _____	LF	E039	E145							SS	N							
2501-8500012	LOAD CELL TEST	EACH	E039								SS	N							
2501-8500014	DEMONSTRATION SHAFT	LF	E039	E145							SS	N							
2501-8600024	PILE CASING, CORRUGATED METAL PIPE, 24 IN.	LF	E039								PLAN	N							
2502-2301200	WICK DRAIN	LF	E001								DS	N							
2502-8212014	SUBDRAIN LONGITUDINAL 4 IN	LF	E022								STD	N							
2502-8212016	SUBDRAIN LONGITUDINAL 6 IN	LF	E022								STD	N							
2502-8212103	SUBDRAIN PLASTIC PIPE 3 IN	LF	E001								STD	N							
2502-8212105	SUBDRAIN PLASTIC PIPE 5 IN	LF	E001								STD	N							
2502-8212203	SUBDRAIN PERFORATED PLASTIC PIPE 3 IN	LF	E001								STD	N							
2502-8212205	SUBDRAIN PERFORATED PLASTIC PIPE 5 IN	LF	E001								STD	N							
2502-8212215	SUBDRAIN PERFORATED PLASTIC PIPE 15 IN	LF	E001								STD	N							
2502-8213115	SUBDRAIN PVC 15 IN STD NON-PERFORATED	LF	E001								STD	N							
2502-8213124	SUBDRAIN PVC 24 IN STD NON-PERFORATED	LF	E001								STD	N							
2502-8214106	SUBDRAIN CORR ALUM PIPE 6 IN	LF	E001								STD	N							
2502-8214110	SUBDRAIN CORR ALUM PIPE 10 IN	LF	E001								STD	N							
2502-8214112	SUBDRAIN CORR ALUM PIPE 12 IN	LF	E001								STD	N							
2502-8215814	SUBDRAIN TILE 14 IN	LF	E001								STD	N							
2502-8220105	SUBDRAIN OUTLET, AS PER PLAN	EACH	E039								STD	N							
2502-8220106	SUBDRAIN OUTLET RF-22	EACH	E039								STD5	N							
2502-8220193	SUBDRAIN OUTLET (RF-19C)	EACH	E039								STD5	N							
2502-8220196	SUBDRAIN OUTLET, RF-19E	EACH	E039								STD5	N							
2502-8220197	SUBDRAIN OUTLET (RF-19F)	EACH	E039								STD5	N							
2502-8220204	SUBDRAIN OUTLET CMP 4 IN	EACH	E039								STD5	N							
2502-8220206	SUBDRAIN OUTLET CMP 6 IN	EACH	E039								STD5	N							
2502-8400172	TEMP SLOPE DRAIN	LF	E001								PLAN	N							
2503-0116218	STORM SEWER GRAVITY MAIN, TRENCHED, RCAP, 2000D (CLASS A-III), 18 IN	LF	E024								STD	N							
2503-0116222	STORM SEWER GRAVITY MAIN, TRENCHED, RCAP, 2000D (CLASS A-III), 22 IN. X 14 IN.	LF	E024								STD	N							
2503-0116226	STORM SEWER GRAVITY MAIN, TRENCHED, RCAP, 2000D (CLASS A-III), 26 IN	LF	E024								STD	N							
2503-0116229	STORM SEWER GRAVITY MAIN, TRENCHED, RCAP, 2000D (CLASS A-III), 29 IN. X 18 IN.	LF	E024								STD	N							
2503-0116237	STORM SEWER GRAVITY MAIN, TRENCHED, RCAP, 2000D (CLASS A-III), 37 IN	LF	E024								STD	N							
2503-0116244	STORM SEWER GRAVITY MAIN, TRENCHED, RCAP, 2000D (CLASS A-III), 44 IN. X 27 IN.	LF	E024								STD	N							
2503-0116252	STORM SEWER GRAVITY MAIN, TRENCHED, RCAP, 2000D (CLASS A-III), 52 IN	LF	E024								STD	N							
2503-0116259	STORM SEWER GRAVITY MAIN, TRENCHED, RCAP, 2000D (CLASS A-III), 59 IN. X 36 IN.	LF	E024								STD	N							
2503-0116265	STORM SEWER GRAVITY MAIN, TRENCHED, RCAP, 2000D (CLASS A-III), 65 IN	LF	E024								STD	N							
2503-0116273	STORM SEWER GRAVITY MAIN, TRENCHED, RCAP, 2000D (CLASS A-III), 73 IN. X 45 IN.	LF	E024								STD	N							
2503-0116288	STORM SEWER GRAVITY MAIN, TRENCHED, RCAP, 2000D (CLASS A-III), 88 IN	LF	E024								STD	N							
2503-0116418	STORM SEWER GRAVITY MAIN, TRENCHED, RCAP, 3000D (CLASS A-IV), 18 IN. X 11 IN.	LF	E024								STD	N							
2503-0116422	STORM SEWER GRAVITY MAIN, TRENCHED, RCAP, 3000D (CLASS A-IV), 22 IN. X 14 IN.	LF	E024								STD	N							
2503-0116426	STORM SEWER GRAVITY MAIN, TRENCHED, RCAP, 3000D (CLASS A-IV), 26 IN. X 16 IN.	LF	E024								STD	N							
2503-0116429	STORM SEWER GRAVITY MAIN, TRENCHED, RCAP, 3000D (CLASS A-IV), 29 IN. X 18 IN.	LF	E024								STD	N							
2503-0116437	STORM SEWER GRAVITY MAIN, TRENCHED, RCAP, 3000D (CLASS A-IV), 37 IN. X 23 IN.	LF	E024								STD	N							
2503-0116444	STORM SEWER GRAVITY MAIN, TRENCHED, RCAP, 3000D (CLASS A-IV), 44 IN. X 27 IN.	LF	E024								STD	N							
2503-0116452	STORM SEWER GRAVITY MAIN, TRENCHED, RCAP, 3000D (CLASS A-IV), 52 IN. X 32 IN.	LF	E024								STD	N							
2503-0116459	STORM SEWER GRAVITY MAIN, TRENCHED, RCAP, 3000D (CLASS A-IV), 59 IN. X 36 IN.	LF	E024								STD	N							
2503-0116465	STORM SEWER GRAVITY MAIN, TRENCHED, RCAP, 3000D (CLASS A-IV), 65 IN. X 40 IN.	LF	E024								STD	N							
2503-0116473	STORM SEWER GRAVITY MAIN, TRENCHED, RCAP, 3000D (CLASS A-IV), 73 IN. X 45 IN.	LF	E024								STD	N							
2503-0116488	STORM SEWER GRAVITY MAIN, TRENCHED, RCAP, 3000D (CLASS A-IV), 88 IN. X 54 IN.	LF	E024								STD	N							
2503-0126218	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCAP, 2000D (CLASS A-III), 18	LF	E024								STD	N							
2503-0126222	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCAP, 2000D (CLASS A-III), 22	LF	E024								STD	N							
2503-0126226	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCAP, 2000D (CLASS A-III), 26	LF	E024								STD	N							
2503-0126229	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCAP, 2000D (CLASS A-III), 29	LF	E024								STD	N							
2503-0126237	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCAP, 2000D (CLASS A-III), 37	LF	E024								STD	N							
2503-0126244	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCAP, 2000D (CLASS A-III), 44	LF	E024								STD	N							
2503-0126252	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCAP, 2000D (CLASS A-III), 52	LF	E024								STD	N							
2503-0126259	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCAP, 2000D (CLASS A-III), 58	LF	E024								STD	N							
2503-0126265	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCAP, 2000D (CLASS A-III), 65	LF	E024								STD	N							
2503-0126273	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCAP, 2000D (CLASS A-III), 73	LF	E024								STD	N							
2503-0126288	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCAP, 2000D (CLASS A-III), 88	LF	E024								STD	N							
2503-0126418	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCAP, 3000D (CLASS A-IV), 18	LF	E024								STD	N							
2503-0126422	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCAP, 3000D (CLASS A-IV), 22	LF	E024								STD	N							
2503-0126426	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCAP, 3000D (CLASS A-IV), 26	LF	E024								STD	N							
2503-0126429	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCAP, 3000D (CLASS A-IV), 29	LF	E024								STD	N							
2503-0126437	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCAP, 3000D (CLASS A-IV), 37	LF	E024								STD	N							
2503-0126444	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCAP, 3000D (CLASS A-IV), 44	LF	E024								STD	N							
2503-0126452	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCAP, 3000D (CLASS A-IV), 51	LF	E024								STD	N							
2503-0126459	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCAP, 3000D (CLASS A-IV), 58	LF	E024								STD	N							
2503-0126465	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCAP, 3000D (CLASS A-IV), 65	LF	E024								STD	N							
2503-0126473	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCAP, 3000D (CLASS A-IV), 73	LF	E024								STD	N							

Item Code	Description	Units	Form	Support Forms							Meas/Pay	Plan Quantity N	Plan Quantity Y						
2503-0126488	STORM SEWER GRAVITY MAIN, TRENCHLESS, RCAP, 3000D (CLASS A-IV), 88	LF	E024								STD	N							
2503-0136218	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCAP, 2000D	LF	E024								STD	N							
2503-0136222	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCAP, 2000D	LF	E024								STD	N							
2503-0136226	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCAP, 2000D	LF	E024								STD	N							
2503-0136229	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCAP, 2000D	LF	E024								STD	N							
2503-0136237	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCAP, 2000D	LF	E024								STD	N							
2503-0136244	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCAP, 2000D	LF	E024								STD	N							
2503-0136252	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCAP, 2000D	LF	E024								STD	N							
2503-0136259	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCAP, 2000D	LF	E024								STD	N							
2503-0136265	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCAP, 2000D	LF	E024								STD	N							
2503-0136273	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCAP, 2000D	LF	E024								STD	N							
2503-0136288	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCAP, 2000D	LF	E024								STD	N							
2503-0136418	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCAP, 3000D	LF	E024								STD	N							
2503-0136422	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCAP, 3000D	LF	E024								STD	N							
2503-0136426	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCAP, 3000D	LF	E024								STD	N							
2503-0136429	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCAP, 3000D	LF	E024								STD	N							
2503-0136437	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCAP, 3000D	LF	E024								STD	N							
2503-0136444	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCAP, 3000D	LF	E024								STD	N							
2503-0136452	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCAP, 3000D	LF	E024								STD	N							
2503-0136459	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCAP, 3000D	LF	E024								STD	N							
2503-0136465	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCAP, 3000D	LF	E024								STD	N							
2503-0136473	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCAP, 3000D	LF	E024								STD	N							
2503-0136488	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHED, RCAP, 3000D	LF	E024								STD	N							
2503-0146218	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCAP, 200	LF	E024								STD	N							
2503-0146222	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCAP, 200	LF	E024								STD	N							
2503-0146226	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCAP, 200	LF	E024								STD	N							
2503-0146229	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCAP, 200	LF	E024								STD	N							
2503-0146237	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCAP, 200	LF	E024								STD	N							
2503-0146244	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCAP, 200	LF	E024								STD	N							
2503-0146252	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCAP, 200	LF	E024								STD	N							
2503-0146259	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCAP, 200	LF	E024								STD	N							
2503-0146265	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCAP, 200	LF	E024								STD	N							
2503-0146273	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCAP, 200	LF	E024								STD	N							
2503-0146288	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCAP, 200	LF	E024								STD	N							
2503-0146418	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCAP, 300	LF	E024								STD	N							
2503-0146422	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCAP, 300	LF	E024								STD	N							
2503-0146426	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCAP, 300	LF	E024								STD	N							
2503-0146429	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCAP, 300	LF	E024								STD	N							
2503-0146437	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCAP, 300	LF	E024								STD	N							
2503-0146444	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCAP, 300	LF	E024								STD	N							
2503-0146452	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCAP, 300	LF	E024								STD	N							
2503-0146459	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCAP, 300	LF	E024								STD	N							
2503-0146465	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCAP, 300	LF	E024								STD	N							
2503-0146473	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCAP, 300	LF	E024								STD	N							
2503-0146488	STORM SEWER GRAVITY MAIN WITH CASING PIPE, TRENCHLESS, RCAP, 300	LF	E024								STD	N							
2503-0500380	BRIDGE END DRAIN, RF-38	EACH	E039								SRP	N							
2503-0500390	BRIDGE END DRAIN, RF-39	EACH	E039								SRP	N							
2503-0500390	BRIDGE END DRAIN, RF-39	EACH	E039								SRP	N							
2503-0500400	BRIDGE END DRAIN, RF-40	EACH	E039								SRP	N							
2503-3850011	GRATE RA-13A INTAKE, AS PER PLAN	EACH	E039								PLAN	N							
2503-4360001	INTAKE GRATE/CURB, SPECIAL AS PER PLAN	EACH	E039	E132	E145						PLAN		Y						
2503-4360002	INTAKE GRATE/CURB, AS PER PLAN	EACH	E039	E132	E145						PLAN		Y						
2503-4360005	INTAKE GUTTER, AS PER PLAN	EACH	E039	E132	E145						STD6		Y						
2503-4360110	INTAKE MODIFICATION	EACH	E039	E132	E145						PLAN		Y						
2503-4388011	INTAKE SPECIAL SINGLE, AS PER PLAN	EACH	E039	E132	E145						STD		Y						
2503-4388012	INTAKE SPECIAL DOUBLE, AS PER PLAN	EACH	E039	E132	E145						STD		Y						
2503-4388014	INTAKE SPECIAL, AS PER PLAN	EACH	E039	E132	E145						STD		Y						
2503-4388015	INTAKE SPECIAL AREA, AS PER PLAN	EACH	E039	E132	E145						STD		Y						
2503-4388016	INTAKE SPECIAL CURB	EACH	E039	E132	E145						STD		Y						
2503-4400000	INTAKE TOP ONLY, AS PER PLAN	EACH	E039	E132	E145						STD		Y						
2503-4425000	INTAKE WELL ONLY, AS PER PLAN	EACH	E039	E132	E145						STD2		Y						
2503-4450050	INTAKE RA-5	EACH	E039	E132	E145						STD5		Y						
2503-4450051	INTAKE RA-5 MODIFIED	EACH	E039	E132	E145						STD		Y						
2503-4450052	INTAKE RA-5 WELL ONLY	EACH	E039	E132	E145						STD		Y						
2503-4450053	INTAKE RA-5 TOP ONLY	EACH	E039	E132	E145						STD		Y						
2503-4450054	INTAKE RA-5 MODIFIED TOP ONLY	EACH	E039	E132	E145						STD		Y						
2503-4450055	INTAKE RA-5 DOUBLE	EACH	E039	E132	E145						STD		Y						
2503-4450245	INTAKE REBUILD, AS PER PLAN	EACH	E039	E132	E145						PLAN		Y						
2503-4450400	INTAKE TYPE A AS PER PLAN	EACH	E039	E132	E145						STD		Y						
2503-4450410	INTAKE TYPE B AS PER PLAN	EACH	E039	E132	E145						STD		Y						
2503-4450420	INTAKE TYPE C AS PER PLAN	EACH	E039	E132	E145						STD		Y						
2503-4450430	INTAKE TYPE D AS PER PLAN	EACH	E039	E132	E145						STD		Y						
2503-4450440	INTAKE TYPE E AS PER PLAN	EACH	E039	E132	E145						STD		Y						
2503-4460010	INTAKE TYPE 'M-A'	EACH	E039	E132	E145						STD		Y						
2503-4460020	INTAKE TYPE 'M-B'	EACH	E039	E132	E145						STD		Y						
2503-4460030	INTAKE TYPE 'M-C'	EACH	E039	E132	E145						STD		Y						
2503-4460040	INTAKE TYPE 'M-D'	EACH	E039	E132	E145						STD		Y						
2503-4460050	INTAKE TYPE 'M-E'	EACH	E039	E132	E145						STD		Y						
2503-4460060	INTAKE TYPE 'M-F'	EACH	E039	E132	E145						STD		Y						
2503-4460090	INTAKE, TYPE M-I	EACH	E039	E132	E145						STD		Y						
2503-4470400	INTAKE, RA-40	EACH	E039	E132	E145						SRP		Y						
2503-4470402	INTAKE, RA-40, WELL ONLY	EACH	E039	E132	E145						SRP		Y						
2503-4470404	INTAKE, RA-40, TOP ONLY	EACH	E039	E132	E145						SRP		Y						
2503-4470405	INTAKE, RA-40 MODIFIED	EACH	E039	E132	E145						SRP		Y						
2503-4470407	INTAKE, RA-40 MODIFIED, WELL ONLY	EACH	E039	E132	E145						SRP		Y						
2503-4470409	INTAKE, RA-40 MODIFIED, TOP ONLY	EACH	E039	E132	E145						SRP		Y						
2503-4470410	INTAKE, RA-41	EACH	E039	E132	E145						SRP		Y						
2503-4470412	INTAKE, RA-41, WELL ONLY	EACH	E039	E132	E145						SRP		Y						
2503-4470414	INTAKE, RA-41, TOP ONLY	EACH	E039	E132	E145						SRP		Y						
2503-4470415	INTAKE, RA-41 MODIFIED	EACH	E039	E132	E145						SRP		Y						
2503-4470417	INTAKE, RA-41 MODIFIED, WELL ONLY	EACH	E039	E132	E145						SRP		Y						
2503-4470419	INTAKE, RA-41 MODIFIED, TOP ONLY	EACH	E039	E132	E145						SRP		Y						
2503-4470420	INTAKE EXTENSION UNIT, RA-42	EACH	E039	E132	E145						SRP		Y						
2503-4470430	INTAKE, RA-43	EACH	E039	E132	E145						SRP		Y						
2503-4470432	INTAKE, RA-43, WELL ONLY	EACH	E039	E132	E145						SRP		Y						
2503-4470434	INTAKE, RA-43, TOP ONLY	EACH	E039	E132	E145						SRP		Y						
2503-4470435	INTAKE, RA-43 MODIFIED	EACH	E039	E132	E145						SRP		Y						
2503-4470437	INTAKE, RA-43 MODIFIED, WELL ONLY	EACH	E039	E132	E145						SRP		Y						
2503-4470439	INTAKE, RA-43 MODIFIED, TOP ONLY	EACH	E039	E132	E145						SRP		Y						
2503-4470460	INTAKE, RA-46	EACH	E039	E132	E145						SRP		Y						
2503-4470462	INTAKE, RA-46, WELL ONLY	EACH	E039	E132	E145						SRP		Y						
2503-4470464	INTAKE, RA-46, TOP ONLY	EACH	E039	E132	E145						SRP		Y						
2503-4470470	INTAKE, RA-47	EACH	E039	E132	E145						STD		Y						
2503-4470475	INTAKE, RA-47 MODIFIED	EACH	E039	E132	E145						STD		Y						
2503-4470477	INTAKE, RA-47 MODIFIED, WELL ONLY	EACH	E039	E132	E145						STD		Y						
2503-4470479	INTAKE, RA-47 MODIFIED, TOP ONLY	EACH	E039	E132	E145						STD		Y						
2503-4470480	INTAKE, RA-48	EACH	E039	E132	E145						SRP		Y						
2503-4470485	INTAKE, RA-48 MODIFIED	EACH	E039	E132	E145						SRP		Y						
2503-4470487	INTAKE, RA-48 MODIFIED, WELL ONLY	EACH	E039	E132	E145						SRP		Y						
2503-4470489	INTAKE, RA-48 MODIFIED, TOP ONLY	EACH	E039	E132	E145						SRP		Y						
2503-4470600	INTAKE, RA-60	EACH	E039	E132	E145						SRP		Y						
2503-4470602	INTAKE, RA-60, WELL ONLY	EACH	E039	E132	E145						SRP		Y						

Item Code	Description	Units	Form	Support Forms							Meas/Pay	Plan Quantity N	Plan Quantity Y						
2503-4470604	INTAKE, RA-60, TOP ONLY	EACH	E039	E132	E145						SRP		Y						
2503-4470605	INTAKE, RA-60 MODIFIED	EACH	E039	E132	E145						SRP		Y						
2503-4470610	INTAKE, RA-61	EACH	E039	E132	E145						SRP		Y						
2503-4470615	INTAKE, RA-61 MODIFIED	EACH	E039	E132	E145						SRP		Y						
2503-4470620	INTAKE, RA-62	EACH	E039	E132	E145						SRP		Y						
2503-4470622	INTAKE, RA-62, WELL ONLY	EACH	E039	E132	E145						SRP		Y						
2503-4470624	INTAKE, RA-62, TOP ONLY	EACH	E039	E132	E145						SRP		Y						
2503-4470625	INTAKE, RA-62 MODIFIED	EACH	E039	E132	E145						SRP		Y						
2503-4470630	INTAKE, RA-63	EACH	E039	E132	E145						SRP		Y						
2503-4470635	INTAKE, RA-63 MODIFIED	EACH	E039	E132	E145						SRP		Y						
2503-4470640	INTAKE, RA-64 (CASE 1 OR CASE 2)	EACH	E039	E132	E145						SRP		Y						
2503-4470700	INTAKE RA-70	EACH	E039	E132	E145						SRP		Y						
2503-4470702	NTAKE RA-70 WELL ONLY	EACH	E039	E132	E145						SRP		Y						
2503-4470704	INTAKE RA-70 TOP ONLY	EACH	E039	E132	E145						SRP		Y						
2503-4470705	INTAKE, RA-70 MODIFIED	EACH	E039	E132	E145						SRP		Y						
2503-4470800	BARRIER INTAKE, RA-80	EACH	E039	E132	E145						PLAN		Y						
2503-4470802	BARRIER INTAKE, WELL ONLY, RA-80	EACH	E039	E132	E145						PLAN		Y						
2503-4470804	BARRIER INTAKE, TOP ONLY, RA-80	EACH	E039	E132	E145						PLAN		Y						
2503-4470810	BARRIER INTAKE, RA-81	EACH	E039	E132	E145						PLAN		Y						
2503-4470812	BARRIER INTAKE, WELL ONLY, RA-81	EACH	E039	E132	E145						PLAN		Y						
2503-4470814	BARRIER INTAKE, TOP ONLY, RA-81	EACH	E039	E132	E145						PLAN		Y						
2503-4470820	BARRIER INTAKE, RA-82	EACH	E039								SRP		Y						
2503-4470822	BARRIER INTAKE, WELL ONLY, RA-82	EACH	E039								SRP		Y						
2503-4470824	BARRIER INTAKE, TOP ONLY, RA-82	EACH	E039								SRP		Y						
2503-4470830	BARRIER INTAKE, RA-83	EACH	E039								SRP		Y						
2503-4470832	BARRIER INTAKE, WELL ONLY, RA-83	EACH	E039								SRP		Y						
2503-4470834	BARRIER INTAKE, TOP ONLY, RA-83	EACH	E039								SRP		Y						
2503-4480490	UTILITY ACCESS, RA-49	EACH	E039	E132	E145						SRP		Y						
2503-4480492	UTILITY ACCESS, RA-49, WELL ONLY	EACH	E039	E132	E145						SRP		Y						
2503-4480494	UTILITY ACCESS, RA-49, TOP ONLY	EACH	E039	E132	E145						SRP		Y						
2503-4480495	UTILITY ACCESS, RA-49 MODIFIED	EACH	E039	E132	E145						SRP		Y						
2503-4480497	UTILITY ACCESS, RA-49 MODIFIED, WELL ONLY	EACH	E039	E132	E145						SRP		Y						
2503-4480499	UTILITY ACCESS, RA-49 MODIFIED, TOP ONLY	EACH	E039	E132	E145						SRP		Y						
2503-4480500	STORM SEWER UTILITY ACCESS, RA-50	EACH	E039	E132	E145						SRP		Y						
2503-4480502	STORM SEWER UTILITY ACCESS, RA-50, WELL ONLY	EACH	E039	E132	E145						SRP		Y						
2503-4480504	STORM SEWER UTILITY ACCESS, RA-50, TOP ONLY	EACH	E039	E132	E145						SRP		Y						
2503-4480505	STORM SEWER UTILITY ACCESS, RA-50 MODIFIED	EACH	E039	E132	E145						SRP		Y						
2503-4480507	STORMSEWER UTILITY ACCESS, RA-50 MODIFIED, WELLONLY	EACH	E039	E132	E145						SRP		Y						
2503-4480509	STORM SEWER UTILITY ACCESS, RA-50 MODIFIED, TOP ONLY	EACH	E039	E132	E145						SRP		Y						
2503-4480570	UTILITY ACCESS, RA-57 INLET CONTROL	EACH	E039	E132	E145						STD		Y						
2503-4504710	BARRIER INTAKE, RA-47A	EACH	E039	E132	E145						SRP		Y						
2503-4504712	BARRIER INTAKE, WELL ONLY, RA-47A	EACH	E039	E132	E145						SRP		Y						
2503-4504714	BARRIER INTAKE, TOP ONLY, RA-47A	EACH	E039	E132	E145						SRP		Y						
2503-4504720	BARRIER INTAKE, RA-47B	EACH	E039	E132	E145						SRP		Y						
2503-4504722	BARRIER INTAKE, WELL ONLY, RA-47B	EACH	E039	E132	E145						SRP		Y						
2503-4504724	BARRIER INTAKE, TOP ONLY, RA-47B	EACH	E039	E132	E145						SRP		Y						
2503-4504810	BARRIER INTAKE, RA-48A	EACH	E039	E132	E145						SRP		Y						
2503-4504812	BARRIER INTAKE, WELL ONLY, RA-48A	EACH	E039	E132	E145						SRP		Y						
2503-4504814	BARRIER INTAKE, TOP ONLY, RA-48A	EACH	E039	E132	E145						SRP		Y						
2503-4504820	BARRIER INTAKE, RA-48B	EACH	E039	E132	E145						SRP		Y						
2503-4504822	BARRIER INTAKE, WELL ONLY, RA-48B	EACH	E039	E132	E145						SRP		Y						
2503-4504824	BARRIER INTAKE, TOP ONLY, RA-48B	EACH	E039	E132	E145						SRP		Y						
2503-7100006	SWR CORR METAL STORM 6 IN	LF	E024								STD		Y						
2503-7100008	SWR CORR METAL STORM 8 IN	LF	E024								STD		Y						
2503-7100010	SWR CORR METAL STORM 10 IN	LF	E024								STD		Y						
2503-7100012	SWR CORR METAL STORM 12 IN	LF	E024								STD		Y						
2503-7100015	SWR CORR METAL STORM 15 IN	LF	E024								STD		Y						
2503-7100018	SWR CORR METAL STORM 18 IN	LF	E024								STD		Y						
2503-7100021	SWR CORR METAL STORM 21 IN	LF	E024								STD		Y						
2503-7100024	SWR CORR METAL STORM 24 IN	LF	E024								STD		Y						
2503-7100030	SWR CORR METAL STORM 30 IN	LF	E024								STD		Y						
2503-7100036	SWR CORR METAL STORM 36 IN	LF	E024								STD		Y						
2503-7100042	SWR CORR METAL STORM 42 IN	LF	E024								STD		Y						
2503-7100048	SWR CORR METAL STORM 48 IN	LF	E024								STD		Y						
2503-7100060	SWR CORR METAL STORM 60 IN	LF	E024								STD		Y						
2503-7181036	REMOVE STORM SEWER PIPE <= TO 36 IN.	EACH	E039								PLAN		Y						
2503-7181136	REMOVE STORM SEWER PIPE > 36 IN.	EACH	E039								PLAN		Y						
2503-7182036	RMV+REINSTALL STORM SWR PIPE <= TO 36	EACH	E039								PLAN		Y						
2503-7182136	RMV+REINSTALL STORM SWR PIPE > 36	EACH	E039								PLAN		Y						
2503-7260008	SWR CLAY STORM 8 IN	LF	E024								STD		Y						
2503-7260012	SWR CLAY STORM 12 IN	LF	E024								STD		Y						
2503-7265008	SWR DUCTILE IRON STORM 8 IN	LF	E024								STD		Y						
2503-7265012	SWR DUCTILE IRON STORM 12 IN	LF	E024								STD		Y						
2503-7265018	SWR DUCTILE IRON STORM 18 IN	LF	E024								STD		Y						
2503-7265024	SWR DUCTILE IRON STORM 24 IN	LF	E024								STD		Y						
2503-7265030	SWR DUCTILE IRON STORM 30 IN	LF	E024								STD		Y						
2503-7265060	SWR DUCTILE IRON STORM 60 IN	LF	E024								STD		Y						
2503-7275012	SWR 1500D STORM 12 IN	LF	E024								STD		Y						
2503-7275015	SWR 1500D STORM 15 IN	LF	E024								STD		Y						
2503-7275018	SWR 1500D STORM 18 IN	LF	E024								STD		Y						
2503-7275021	SWR 1500D STORM 21 IN	LF	E024								STD		Y						
2503-7275024	SWR 1500D STORM 24 IN	LF	E024								STD		Y						
2503-7275027	SWR 1500D STORM 27 IN	LF	E024								STD		Y						
2503-7275030	SWR 1500D STORM 30 IN	LF	E024								STD		Y						
2503-7275033	SWR 1500D STORM 33 IN	LF	E024								STD		Y						
2503-7275036	SWR 1500D STORM 36 IN	LF	E024								STD		Y						
2503-7275042	SWR 1500D STORM 42 IN	LF	E024								STD		Y						
2503-7275048	SWR 1500D STORM 48 IN	LF	E024								STD		Y						
2503-7275054	SWR 1500D STORM 54 IN	LF	E024								STD		Y						
2503-7275060	SWR 1500D STORM 60 IN	LF	E024								STD		Y						
2503-7275066	SWR 1500D STORM 66 IN	LF	E024								STD		Y						
2503-7275078	SWR 1500D STORM 78 IN	LF	E024								STD		Y						
2503-7275084	SWR 1500D STORM 84 IN	LF	E024								STD		Y						
2503-7277022	SEWER PIPE, 1500D STORM, CONCRETE ARCH, 22 IN. X 14 IN.	LF	E024								STD		Y						
2503-7277029	SEWER PIPE, 1500D STORM, CONCRETE ARCH, 29 IN. X 18 IN.	LF	E024								STD		Y						
2503-7277037	SEWER PIPE, 1500D STORM, CONCRETE ARCH, 37 IN. X 23 IN.	LF	E024								STD		Y						
2503-7277044	SEWER PIPE, 1500D STORM, CONCRETE ARCH, 44 IN. X 27 IN.	LF	E024								STD		Y						
2503-7277052	SEWER PIPE, 1500D STORM, CONCRETE ARCH, 52 IN. X 32 IN.	LF	E024								STD		Y						
2503-7277059	SEWER PIPE, 1500D STORM, CONCRETE ARCH, 59 IN. X 36 IN.	LF	E024								STD		Y						
2503-7277065	SEWER PIPE, 1500D STORM, CONCRETE ARCH, 65 IN. X 40 IN.	LF	E024								STD		Y						
2503-7277073	SEWER PIPE, 1500D STORM, CONCRETE ARCH, 73 IN. X 45 IN.	LF	E024								STD		Y						
2503-7277088	SEWER PIPE, 1500D STORM, CONCRETE ARCH, 88 IN. X 54 IN.	LF	E024								STD		Y						
2503-7325012	SWR 2000D STORM 12 IN	LF	E024								STD		Y						
2503-7325015	SWR 2000D STORM 15 IN	LF	E024								STD		Y						
2503-7325018	SWR 2000D STORM 18 IN	LF	E024								STD		Y						
2503-7325021	SWR 2000D STORM 21 IN	LF	E024								STD		Y						
2503-7325024	SWR 2000D STORM 24 IN	LF	E024								STD		Y						
2503-7325027	SWR 2000D STORM 27 IN	LF	E024								STD		Y						
2503-7325030	SWR 2000D STORM 30 IN	LF	E024								STD		Y						
2503-7325033	SWR 2000D STORM 33 IN	LF	E024								STD		Y						
2503-7325036	SWR 2000D STORM 36 IN	LF	E024								STD		Y						
2503-7325042	SWR 2000D STORM 42 IN	LF	E024								STD		Y						

Item Code	Description	Units	Form	Support Forms							Meas/Pay	Plan Quantity N	Plan Quantity Y						
2503-7325048	SWR 2000D STORM 48 IN	LF	E024								STD		Y						
2503-7325054	SWR 2000D STORM 54 IN	LF	E024								STD		Y						
2503-7325060	SWR 2000D STORM 60 IN	LF	E024								STD		Y						
2503-7325066	SWR 2000D STORM 66 IN	LF	E024								STD		Y						
2503-7325072	SWR 2000D STORM 72 IN	LF	E024								STD		Y						
2503-7325078	SWR 2000D STORM 78 IN	LF	E024								STD		Y						
2503-7325084	SWR 2000D STORM 84 IN	LF	E024								STD		Y						
2503-7325096	SWR 2000D STORM 96 IN	LF	E024								STD		Y						
2503-7326012	SWR 2000D JACKED STORM 12 IN	LF	E024								STD		Y						
2503-7326015	SWR 2000D JACKED STORM 15 IN	LF	E024								STD		Y						
2503-7326018	SWR 2000D JACKED STORM 18 IN	LF	E024								STD		Y						
2503-7326021	SWR 2000D JACKED STORM 21 IN.	LF	E024								STD		Y						
2503-7326024	SWR 2000D JACKED STORM 24 IN	LF	E024								STD		Y						
2503-7326027	SWR 2000D JACKED STORM 27 IN.	LF	E024								STD		Y						
2503-7326030	SWR 2000D JACKED STORM 30 IN.	LF	E024								STD		Y						
2503-7326036	SWR 2000D JACKED STORM 36 IN.	LF	E024								STD		Y						
2503-7326042	SWR 2000D JACKED STORM 42 IN.	LF	E024								STD		Y						
2503-7327022	SEWER PIPE, 2000D STORM, CONCRETE ARCH, 22 IN. X 14 IN.	LF	E024								STD		Y						
2503-7327029	SEWER PIPE, 2000D STORM, CONCRETE ARCH, 29 IN. X 18 IN.	LF	E024								STD		Y						
2503-7327037	SEWER PIPE, 2000D STORM, CONCRETE ARCH, 37 IN. X 23 IN.	LF	E024								STD		Y						
2503-7327044	SEWER PIPE, 2000D STORM, CONCRETE ARCH, 44 IN. X 27 IN.	LF	E024								STD		Y						
2503-7327052	SEWER PIPE, 2000D STORM, CONCRETE ARCH, 52 IN. X 32 IN.	LF	E024								STD		Y						
2503-7327059	SEWER PIPE, 2000D STORM, CONCRETE ARCH, 59 IN. X 36 IN.	LF	E024								STD		Y						
2503-7327065	SEWER PIPE, 2000D STORM, CONCRETE ARCH, 65 IN. X 40 IN.	LF	E024								STD		Y						
2503-7327073	SEWER PIPE, 2000D STORM, CONCRETE ARCH, 73 IN. X 45 IN.	LF	E024								STD		Y						
2503-7327088	SEWER PIPE, 2000D STORM, CONCRETE ARCH, 88 IN. X 54 IN.	LF	E024								STD		Y						
2503-7375012	SWR 3000D STORM 12 IN	LF	E024								STD		Y						
2503-7375015	SWR 3000D STORM 15 IN	LF	E024								STD		Y						
2503-7375018	SWR 3000D STORM 18 IN	LF	E024								STD		Y						
2503-7375021	SWR 3000D STORM 21 IN.	LF	E024								STD		Y						
2503-7375024	SWR 3000D STORM 24 IN	LF	E024								STD		Y						
2503-7375027	SWR 3000D STORM 27 IN.	LF	E024								STD		Y						
2503-7375030	SWR 3000D STORM 30 IN	LF	E024								STD		Y						
2503-7375036	SWR 3000D STORM 36 IN	LF	E024								STD		Y						
2503-7375042	SWR 3000D STORM 42 IN	LF	E024								STD		Y						
2503-7375048	SWR 3000D STORM 48 IN	LF	E024								STD		Y						
2503-7375054	SWR 3000D STORM 54 IN	LF	E024								STD		Y						
2503-7375060	SWR 3000D STORM 60 IN	LF	E024								STD		Y						
2503-7375066	SWR 3000D STORM 66 IN	LF	E024								STD		Y						
2503-7375072	SWR 3000D STORM 72 IN	LF	E024								STD		Y						
2503-7375078	SWR 3000D STORM 78 IN	LF	E024								STD		Y						
2503-7375084	SWR 3000D STORM 84 IN	LF	E024								STD		Y						
2503-7375096	SWR 3000D STORM 96 IN	LF	E024								STD		Y						
2503-7376012	SEWER PIPE, 3000D JACKED STORM, 12 IN. DIA.	LF	E024								STD		Y						
2503-7376015	SEWER PIPE, 3000D JACKED STORM 15 IN DIA.	LF	E024								STD		Y						
2503-7376018	SEWER PIPE, 3000D JACKED STORM, 18 IN. DIA.	LF	E024								STD		Y						
2503-7376021	SEWER PIPE, 3000D JACKED STORM, 21 IN. DIA.	LF	E024								STD		Y						
2503-7376024	SEWER PIPE, 3000D JACKED STORM, 24 IN. DIA.	LF	E024								STD		Y						
2503-7376027	SEWER PIPE, 3000D JACKED STORM, 27 IN. DIA.	LF	E024								STD		Y						
2503-7376030	SEWER PIPE, 3000D JACKED STORM, 30 IN. DIA.	LF	E024								STD		Y						
2503-7376036	SEWER PIPE, 3000D JACKED STORM, 36 IN. DIA.	LF	E024								STD		Y						
2503-7376042	SEWER PIPE, 3000D JACKED STORM, 42 IN. DIA.	LF	E024								STD		Y						
2503-7377022	SEWER PIPE, 3000D STORM, CONCRETE ARCH, 22 IN. X 14 IN.	LF	E024								STD		Y						
2503-7377029	SEWER PIPE, 3000D STORM, CONCRETE ARCH, 29 IN. X 18 IN.	LF	E024								STD		Y						
2503-7377037	SEWER PIPE, 3000D STORM, CONCRETE ARCH, 37 IN. X 23 IN.	LF	E024								STD		Y						
2503-7377044	SEWER PIPE, 3000D STORM, CONCRETE ARCH, 44 IN. X 27 IN.	LF	E024								STD		Y						
2503-7377052	SEWER PIPE, 3000D STORM, CONCRETE ARCH, 52 IN. X 32 IN.	LF	E024								STD		Y						
2503-7377059	SEWER PIPE, 3000D STORM, CONCRETE ARCH, 59 IN. X 36 IN.	LF	E024								STD		Y						
2503-7377065	SEWER PIPE, 3000D STORM, CONCRETE ARCH, 65 IN. X 40 IN.	LF	E024								STD		Y						
2503-7377073	SEWER PIPE, 3000D STORM, CONCRETE ARCH, 73 IN. X 45 IN.	LF	E024								STD		Y						
2503-7377088	SEWER PIPE, 3000D STORM, CONCRETE ARCH, 88 IN. X 54 IN.	LF	E024								STD		Y						
2503-7379022	SEWER PIPE, 3750D STORM, CONCRETE ARCH, 22 IN. X 14 IN.	LF	E024								PLAN		Y						
2503-7379029	SEWER PIPE, 3750D STORM, CONCRETE ARCH, 29 IN. X 18 IN.	LF	E024								PLAN		Y						
2503-7379037	SEWER PIPE, 3750D STORM, CONCRETE ARCH, 37 IN. X 23 IN.	LF	E024								PLAN		Y						
2503-7379044	SEWER PIPE, 3750D STORM, CONCRETE ARCH, 44 IN. X 27 IN.	LF	E024								PLAN		Y						
2503-7379052	SEWER PIPE, 3750D STORM, CONCRETE ARCH, 52 IN. X 32 IN.	LF	E024								PLAN		Y						
2503-7379059	SEWER PIPE, 3750D STORM, CONCRETE ARCH, 59 IN. X 36 IN.	LF	E024								PLAN		Y						
2503-7379065	SEWER PIPE, 3750D STORM, CONCRETE ARCH, 65 IN. X 40 IN.	LF	E024								PLAN		Y						
2503-7379073	SEWER PIPE, 3750D STORM, CONCRETE ARCH, 73 IN. X 45 IN.	LF	E024								PLAN		Y						
2503-7379088	SEWER PIPE, 3750D STORM, CONCRETE ARCH, 88 IN. X 54 IN.	LF	E024								PLAN		Y						
2503-7380012	SWR, 3750D STORM 12 IN	LF	E024								STD		Y						
2503-7380015	SWR 3750D STORM 15 IN	LF	E024								STD		Y						
2503-7380018	SWR 3750D STORM 18 IN	LF	E024								STD		Y						
2503-7380021	SWR 3750D STORM 21 IN.	LF	E024								STD		Y						
2503-7380024	SWR 3750D STORM 24 IN	LF	E024								STD		Y						
2503-7380027	SWR 3750D STORM 27 IN.	LF	E024								STD		Y						
2503-7380030	SWR 3750D STORM 30 IN	LF	E024								STD		Y						
2503-7380036	SWR 3750D STORM 36 IN	LF	E024								STD		Y						
2503-7380042	SWR 3750D STORM 42 IN	LF	E024								STD		Y						
2503-7380048	SWR 3750D STORM 48 IN	LF	E024								STD		Y						
2503-7380054	SWR 3750D STORM 54 IN	LF	E024								STD		Y						
2503-7380060	SWR 3750D STORM 60 IN	LF	E024								STD		Y						
2503-7380066	SWR 3750D STORM 66 IN	LF	E024								STD		Y						
2503-7380072	SWR 3750D STORM 72 IN	LF	E024								STD		Y						
2503-7380078	SWR 3750D STORM , 78 IN.	LF	E024								STD		Y						
2503-7380084	SWR 3750D STORM 84 IN	LF	E024								STD		Y						
2503-7381012	SWR 3750D JACKED STORM 12 IN	LF	E024								STD		Y						
2503-7381015	SWR 3750D JACKED STORM 15 IN	LF	E024								STD		Y						
2503-7381018	SWR 3750D JACKED STORM 18 IN	LF	E024								STD		Y						
2503-7381021	SWR 3750D JACKED STORM 21 IN	LF	E024								STD		Y						
2503-7381024	SWR 3750D JACKED STORM 24 IN	LF	E024								STD		Y						
2503-7381027	SWR 3750D JACKED STORM 27 IN	LF	E024								STD		Y						
2503-7381030	SWR 3750D JACKED STORM 30 IN	LF	E024								STD		Y						
2503-7381036	SWR 3750D JACKED STORM 36 IN	LF	E024								STD		Y						
2503-7381042	SWR 3750D JACKED STORM 42 IN	LF	E024								STD		Y						
2503-7381048	SWR 3750D JACKED STORM 48 IN	LF	E024								STD		Y						
2503-7382006	SWR PLASTIC STORM 6 IN	LF	E024								STD		Y						
2503-7382008	SWR PLASTIC STORM 8 IN	LF	E024								STD		Y						
2503-7382010	SWR PLASTIC STORM 10 IN	LF	E024								STD		Y						
2503-7382012	SWR PLASTIC STORM 12 IN	LF	E024								STD		Y						
2503-7382015	SWR PLASTIC STORM 15 IN	LF	E024								STD		Y						
2503-7382018	SWR PLASTIC STORM 18 IN	LF	E024								STD		Y						
2503-7382021	SWR PLASTIC STORM 21 IN	LF	E024								STD		Y						
2503-7382024	SWR PLASTIC STORM 24 IN	LF	E024								STD		Y						
2503-7382027	SWR PLASTIC STORM, 27 IN.	LF	E024								STD		Y						
2503-7382030	SWR PLASTIC STORM, 30 IN.	LF	E024								STD		Y						
2503-7382033	SWR PLASTIC STORM, 33 IN.	LF	E024								STD		Y						
2503-7382036	SWR PLASTIC STORM, 36 IN.	LF	E024								STD		Y						
2503-7382039	SWR PLASTIC STORM, 39 IN.	LF	E024								STD		Y						
2503-7382042	SWR PLASTIC STORM, 42 IN.	LF	E024								STD		Y						
2503-7382045	SWR PLASTIC STORM, 45 IN.	LF	E024								STD		Y						
2503-7382048	SWR PLASTIC STORM, 48 IN.	LF	E024								STD		Y						

Item Code	Description	Units	Form	Support Forms							Meas/Pay	Plan Quantity N	Plan Quantity Y						
2503-8462000	UTILITY ACCESS ABANDON	EACH	E039								PLAN	N							
2503-8462100	UTILITY ACCESS CONVERT INTAKE TO	EACH	E039	E115	E132	E145					PLAN	N							
2503-8462200	UTILITY ACCESS REBUILD	EACH	E039	E115	E132	E145					PLAN	N							
2503-8462300	UTILITY ACCESS SPECIAL	EACH	E039	E115	E132	E145					STD	N							
2504-4650007	UTILITY ACCESS, REBUILD SANITARY SEWER, TOP ONLY	EACH	E039	E115	E132	E145					STD	N							
2504-7000036	RMV SAN SWR PIPE <= TO 36 IN	LF	E024								PLAN		Y						
2504-7000136	RMV SAN SWR PIPE > 36 IN	LF	E024								PLAN		Y						
2504-7055004	SWR DUCTILE IRON SAN 4 IN	LF	E024								STD		Y						
2504-7055006	SWR DUCTILE IRON SAN 6 IN	LF	E024								STD		Y						
2504-7055008	SWR DUCTILE IRON SAN 8 IN	LF	E024								STD		Y						
2504-7055010	SWR DUCTILE IRON SAN 10 IN	LF	E024								STD		Y						
2504-7055012	SWR DUCTILE IRON SAN 12 IN	LF	E024								STD		Y						
2504-7055016	SWR DUCTILE IRON SAN 16 IN	LF	E024								STD		Y						
2504-7055018	SWR DUCTILE IRON SAN 18 IN	LF	E024								STD		Y						
2504-7055020	SWR DUCTILE IRON SAN 20 IN	LF	E024								STD		Y						
2504-7055024	SWR DUCTILE IRON SAN 24 IN	LF	E024								STD		Y						
2504-7055030	SWR DUCTILE IRON SAN 30 IN	LF	E024								STD		Y						
2504-7055033	SWR DUCTILE IRON SAN 33 IN	LF	E024								STD		Y						
2504-7055036	SWR DUCTILE IRON SAN 36 IN	LF	E024								STD		Y						
2504-7055042	SWR DUCTILE IRON SAN 42 IN	LF	E024								STD		Y						
2504-7056006	SWR JACKED DUCTILE IRON SAN, 6 IN.	LF	E024								STD		Y						
2504-7056008	SWR JACKED DUCTILE IRON SAN, 8 IN	LF	E024								STD		Y						
2504-7056010	SWR JACKED DUCTILE IRON SAN, 10 IN.	LF	E024								STD		Y						
2504-7056012	SWR JACKED DUCTILE IRON SAN, 12 IN.	LF	E024								STD		Y						
2504-7065004	SWR, PLASTIC SAN, 4 IN	LF	E024								STD		Y						
2504-7065006	SWR, PLASTIC SAN, 6 IN	LF	E024								STD		Y						
2504-7065008	SWR, PLASTIC SAN, 8 IN	LF	E024								STD		Y						
2504-7065010	SWR, PLASTIC SAN, 10 IN	LF	E024								STD		Y						
2504-7065012	SWR, PLASTIC SAN, 12 IN	LF	E024								STD		Y						
2504-7065015	SWR, PLASTIC SAN, 15 IN	LF	E024								STD		Y						
2504-7065018	SWR, PLASTIC SAN, 18 IN	LF	E024								STD		Y						
2504-7065021	SWR, PLASTIC SAN, 21 IN	LF	E024								STD		Y						
2504-7065024	SWR, PLASTIC SAN, 24 IN	LF	E024								STD		Y						
2504-7065027	SWR, PLASTIC SAN, 27 IN	LF	E024								STD		Y						
2504-7065030	SWR, PLASTIC SAN, 30 IN	LF	E024								STD		Y						
2504-7065033	SWR, PLASTIC SAN, 33 IN	LF	E024								STD		Y						
2504-7065036	SWR, PLASTIC SAN, 36 IN	LF	E024								STD		Y						
2504-7065039	SWR, PLASTIC SAN, 39 IN	LF	E024								STD		Y						
2504-7065042	SWR, PLASTIC SAN, 42 IN	LF	E024								STD		Y						
2504-7065045	SWR, PLASTIC SAN, 45 IN	LF	E024								STD		Y						
2504-7065048	SWR, PLASTIC SAN, 48 IN	LF	E024								STD		Y						
2504-7075012	SWR, CONC SAN, 1500D, 12 IN	LF	E024								STD		Y						
2504-7075015	SWR, CONC SAN, 1500D, 15 IN	LF	E024								STD		Y						
2504-7075018	SWR, CONC SAN, 1500D, 18 IN	LF	E024								STD		Y						
2504-7075021	SWR, CONC SAN, 1500D, 21 IN	LF	E024								STD		Y						
2504-7075024	SWR, CONC SAN, 1500D, 24 IN	LF	E024								STD		Y						
2504-7075027	SWR, CONC SAN, 1500D, 27 IN.	LF	E024								STD		Y						
2504-7075030	SWR, CONC SAN, 1500D, 30 IN.	LF	E024								STD		Y						
2504-7075036	SWR, CONC SAN, 1500D, 36 IN.	LF	E024								STD		Y						
2504-7075042	SWR, CONC SAN, 1500D, 42 IN.	LF	E024								STD		Y						
2504-7075048	SWR, CONC SAN, 1500D, 48 IN.	LF	E024								STD		Y						
2504-7075054	SWR, CONC SAN, 1500D, 54 IN.	LF	E024								STD		Y						
2504-7075060	SWR, CONC SAN, 1500D, 60 IN.	LF	E024								STD		Y						
2504-7080012	SWR CONC SAN 2000D 12 IN	LF	E024								STD		Y						
2504-7080015	SWR CONC SAN 2000D 15 IN	LF	E024								STD		Y						
2504-7080018	SWR CONC SAN 2000D 18 IN	LF	E024								STD		Y						
2504-7080021	SWR CONC SAN 2000D 21 IN	LF	E024								STD		Y						
2504-7080024	SWR CONC SAN 2000D 24 IN	LF	E024								STD		Y						
2504-7080027	SWR CONC SAN 2000D, 27 IN.	LF	E024								STD		Y						
2504-7080030	SWR CONC SAN 2000D, 30 IN.	LF	E024								STD		Y						
2504-7080036	SWR CONC SAN 2000D, 36 IN.	LF	E024								STD		Y						
2504-7080042	SWR CONC SAN 2000D, 42 IN.	LF	E024								STD		Y						
2504-7080048	SWR CONC SAN 2000D, 48 IN.	LF	E024								STD		Y						
2504-7080054	SWR CONC SAN 2000D, 54 IN.	LF	E024								STD		Y						
2504-7080060	SWR CONC SAN 2000D, 60 IN.	LF	E024								STD		Y						
2504-7085012	SWR CONC SAN 3000D, 12 IN.	LF	E024								STD		Y						
2504-7085015	SWR CONC SAN 3000D 15 IN	LF	E024								STD		Y						
2504-7085018	SWR CONC SAN 3000D 18 IN	LF	E024								STD		Y						
2504-7085033	SWR CONC SAN 3000D 33 IN	LF	E024								STD		Y						
2504-7085036	SWR CONC SAN 3000D 36 IN.	LF	E024								STD		Y						
2504-7085042	SWR CONC SAN 3000D, 42 IN.	LF	E024								STD		Y						
2504-7085048	SWR CONC SAN 3000D, 48 IN.	LF	E024								STD		Y						
2504-7085054	SWR CONC SAN 3000D, 54 IN.	LF	E024								STD		Y						
2504-7085060	SWR CONC SAN 3000D, 60 IN.	LF	E024								STD		Y						
2504-7090012	SWR CONC SAN 3750D, 12 IN.	LF	E024								STD		Y						
2504-7090015	SWR CONC SAN 3750D, 15 IN.	LF	E024								STD		Y						
2504-7090018	SWR CONC SAN 3750D, 18 IN.	LF	E024								STD		Y						
2504-7090021	SWR CONC SAN 3750D 21 IN	LF	E024								STD		Y						
2504-7090024	SWR CONC SAN 3750D 24 IN	LF	E024								STD		Y						
2504-7090027	SWR CONC SAN 3750D, 27 IN.	LF	E024								STD		Y						
2504-7090030	SWR CONC SAN 3750D 30 IN	LF	E024								STD		Y						
2504-7090036	SWR CONC SAN 3750D 36 IN	LF	E024								STD		Y						
2504-7090042	SWR CONC SAN 3750D, 42 IN.	LF	E024								STD		Y						
2504-7090048	SWR CONC SAN 3750D, 48 IN.	LF	E024								STD		Y						
2504-7090054	SWR CONC SAN 3750D, 54 IN.	LF	E024								STD		Y						
2504-7090060	SWR CONC SAN 3750D 60 IN	LF	E024								STD		Y						
2504-7225004	SWR, CLAY SAN, 4 IN	LF	E024								STD		Y						
2504-7225006	SWR CLAY SAN 6 IN	LF	E024								STD		Y						
2504-7225008	SWR CLAY SAN 8 IN	LF	E024								STD		Y						
2504-7225010	SWR CLAY SAN 10 IN	LF	E024								STD		Y						
2504-7225012	SWR CLAY SAN 12 IN	LF	E024								STD		Y						
2504-7225015	SWR CLAY SAN 15 IN	LF	E024								STD		Y						
2504-7250006	SWR CLAY SAN - EXTRA STRENGTH 6 IN	LF	E024								STD		Y						
2504-7250008	SWR CLAY SAN - EXTRA STRENGTH 8 IN	LF	E024								STD		Y						
2504-7250010	SWR CLAY SAN - EXTRA STRENGTH 10 IN	LF	E024								STD		Y						
2504-7250012	SWR CLAY SAN - EXTRA STRENGTH 12 IN	LF	E024								STD		Y						
2504-7398004	SWR SERVICE SAN 4 IN	LF	E024								STD		Y						
2504-7398006	SWR SERVICE SAN 6 IN	LF	E024								STD		Y						
2504-7398100	SWR SERVICE SAN NEW	EACH	E039								STD		Y						
2504-7398104	SWR SERVICE SAN CAST IRON 4 IN	LF	E024								STD		Y						
2504-7398106	SWR SERVICE SAN CAST IRON 6 IN	LF	E024								STD		Y						
2504-7398200	SWR SERVICE SAN RELOCATE	EACH	E039								PLAN		Y						
2504-7400000	SWR SERVICE SAN RISER	EACH	E039								PLAN		Y						
2504-7401000	SWR SERVICE SAN RISER PIPE	LF	E024								PLAN		Y						
2504-8455000	LAMP HOLE	EACH	E039								STD		Y						
2504-8462510	SANITARY SEWER UTILITY ACCESS (PRECAST) (RA-51)	EACH	E039	E132	E145						SRP		Y						
2504-8462520	SANITARY SEWER UTILITY ACCESS (PRECAST) (RA-52)	EACH	E039	E132	E145						STD		Y						
2504-8463500	UTILTY ACCESS, SANITARY SEWER, STANDARD	EACH	E039	E132	E145						STD		Y						
2505-4008100	REMOVAL OF GUARDRAIL	LF	E039								STD	N							
2505-4008200	INSTALLATION OF GUARDRAIL	LF	E039								STD		Y						
2505-4010005	G'RAIL BRIDGE CONNECTION MODIFIED	EACH	E039	E115							PLAN	N							
2505-4010010	G'RAIL BRIDGE CONNECTION SPECIAL, AS PER PLAN	EACH	E039	E115							PLAN	N							

Item Code	Description	Units	Form	Support Forms							Meas/Pay	Plan Quantity N	Plan Quantity Y						
2505-4020105	BRKWY END ANCHOR	EACH	E039	E115							STD	N							
2505-4020106	G'RAIL END ANCHOR BEAM BRKWY RAISE, AS PER PLAN	EACH	E039	E115							STD	N							
2505-4020153	G'RAIL END ANCHOR BEAM RE-53	EACH	E039	E115							STD	N							
2505-4020229	G'RAIL END ANCHOR CABLE RE-29A	EACH	E039	E115							STD	N							
2505-4021272	G'RAIL END ANCHOR BEAM RE-27B	EACH	E039	E115							STD	N							
2505-4021331	G'RAIL END ANCHOR BEAM RE-33A	EACH	E039	E115							STD	N							
2505-4021332	G'RAIL END ANCHOR BEAM RE-33B	EACH	E039	E115							STD	N							
2505-4021690	G'RAIL END ANCHOR BEAM RE-69	EACH	E039	E115							STD	N							
2505-4021762	G'RAIL TERMINAL BEAM FLARED RE-76	EACH	E039								STD	N							
2505-4021770	GUARDRAIL TERMINAL, BEAM, FLEAT-MT	EACH	E039								STD	N							
2505-4021771	GUARDRAIL TERMINAL, BEAM, TANGENT	EACH	E039								PLAN	N							
2505-4021900	GUARDRAIL TERMINAL, BEAM, MELT	EACH	E039								PLAN	N							
2505-4500370	GUARDRAIL, SPECIAL POST ADAPTER UNIT, RE-37	EACH	E039								SRP	N							
2505-4540140	GUARDRAIL, SPECIAL POST ADAPTER UNIT, AS PER PLAN (540-14)	EACH	E039								PLAN	N							
2505-6000110	WIRE ROPE SAFETY BARRIER	LF	E001								SP		Y						
2505-6000120	WIRE ROPE SAFETY BARRIER, END ANCHOR	EACH	E039								DS	N							
2505-6745740	REMOVAL OF G'RAIL END ANCHOR	EACH	E039								STD	N							
2507-6800020	REVETMENT CLASS B	SY	E003								STD	N							
2507-6800031	REVETMENT, CLASS C	SY	E003								STD	N							
2507-6850005	REVETMENT ROCK FURNISH AND PLACE	TON	E001								PLAN	N							
2507-6850016	REVETMENT ROCK HAUL AND PLACE	CY	E004								PLAN	N							
2507-6875001	RIPRAP RMV AND REPLACE	CY	E025								PLAN	N							
2509-0000010	TEMPORARY CRASH CUSHION, AS PER PLAN	EACH	E001								STD	N							
2509-0000012	TEMPORARY CRASH CUSHION	EACH	E001								STD	N							
2509-0000014	TEMPORARY CRASH CUSHION, REDIRECTIVE (R)	EACH	E001								STD	N							
2509-0000016	TEMPORARY CRASH CUSHION, SEVERE USE (SU)	EACH	E001								STD	N							
2509-0000020	PERMANENT CRASH CUSHION, AS PER PLAN	EACH	E001								STD	N							
2509-0000022	PERMANENT CRASH CUSHION	EACH	E001								STD	N							
2509-0000024	PERMANENT CRASH CUSHION, SEVERE USE (SU)	EACH	E001								STD	N							
2509-0000026	PERMANENT CRASH CUSHION SPARE PARTS KIT	EACH	E001								STD	N							
2511-7528100	DETECTABLE WARNINGS FOR CURB RAMPS	SF	E002								STD	N							
2512-1850000	CURB PRECAST CONC TYPE 1	LF	E001								STD	N							
2512-1850010	CURB PRECAST CONC TYPE 2	LF	E001								STD	N							
2513-0001010	CONCRETE BARRIER, BA-101	LF	E001	E115							STD5		Y						
2513-0001080	CONCRETE BARRIER RAIL, BA-108	EACH	E039	E115							STD5	N							
2513-0471046	BARRIER CONC APPROACH RE-46	EACH	E039	E115							STD5	N							
2513-0473441	BARRIER CONC RE-44A	LF	E001	E115							STD		Y						
2513-0473442	BARRIER CONC RE-44B	LF	E001	E115							STD		Y						
2513-0473443	BARRIER CONC RE-44C	LF	E001	E115							STD		Y						
2513-0473444	BARRIER CONC RE-44D	LF	E001	E115							STD		Y						
2513-0473445	BARRIER CONC RE-44E	LF	E001	E115							STD		Y						
2513-0473446	BARRIER CONC RE-44F	LF	E001	E115							STD		Y						
2513-0473447	BARRIER CONC RE-44G	EACH	E039	E115							STD5	N							
2513-0473448	BARRIER CONC RE-44H	EACH	E039	E115							STD5	N							
2513-0474441	BARRIER CONC RE-44A+FOOTING	LF	E001	E115							STD		Y						
2513-0474442	BARRIER CONC RE-44B+FOOTING	LF	E001	E115							STD		Y						
2513-0474443	BARRIER CONC RE-44C+FOOTING	LF	E001	E115							STD		Y						
2513-0474444	BARRIER CONC RE-44D+FOOTING	LF	E001	E115							STD		Y						
2513-0474445	BARRIER CONC RE-44E+FOOTING	LF	E001	E115							STD		Y						
2513-2350020	CONCRETE BARRIER (VEHICLE)	LF	E001	E115							Plan		Y						
2513-2350025	CONCRETE BARRIER END SECTION (VEHICLE)	Each	E001	E115							Plan		Y						
2515-2475000	DRIVES PCC	SY	E003	E110	E111	E115					STD		Y						
2516-6745375	RMVL OF CONC STEPS	CY	E039								STD		Y						
2516-6745400	RMVL OF CONC STEPS AND RETAINING WALL	CY	E039								STD		Y						
2516-6745877	RMVL OF RETAINING WALLS AND FOOTINGS	LS	E005								PLAN		Y						
2516-7825000	PCC STEPS	CY	E004	E115							STD		Y						
2516-8600000	COMBINED CONC DRIVE AND RETAINING WALL	CY	E004	E110	E115						STD		Y						
2516-8650000	COMBINED CONC STEPS AND RETAINING WALL	CY	E004	E115							STD		Y						
2516-9994109	NOISE BARRIER WALL	SF	E002								SP	N							
2516-9994110	PRECAST NOISE WALL	SF	E002								DS		Y						
2518-6889310	RD CLOSURE (RURAL), PERMANENT, RE-3A	LF	E039								SRP	N							
2518-6890031	RD CLOSURE (RURAL) PERMANENT RE-3A	EACH	E039								SRP	N							
2518-6890032	RD CLOSURE (URBAN) PERMANENT RE-3B	EACH	E039								SRP	N							
2519-1010010	FENCE, REMOVE AND REINSTALL CHAIN LINK, AS PER PLAN	LF	E025								PLAN	N							
2519-1010020	REMOVAL OF CHAIN LINK FENCE, AS PER PLAN	LF	E025								PLAN	N							
2519-1019018	FENCE UNDERLAYMENT, 18 INCH WIDE	LF	E001								PLAN	N							
2519-3000000	FLOOD PLAIN FENCE	LF	E001								STD	N							
2519-3275010	FENCE CHAIN LINK - VINYL COATED	STA	E001								STD	N							
2519-3275031	FENCE CHAIN LINK, AS PER PLAN	STA	E001								STD	N							
2519-3275035	FENCE CHAIN LINK 42 IN HEIGHT	STA	E001								STD	N							
2519-3275037	FENCE CHAIN LINK 48 IN HEIGHT	STA	E001								STD	N							
2519-3275040	FENCE CHAIN LINK 60 IN HEIGHT	STA	E001								STD	N							
2519-3275045	FENCE CHAIN LINK 72 IN HEIGHT	STA	E001								STD	N							
2519-3275046	FENCE CHAIN LINK W/SECUR TOP 72 HGT	STA	E001								STD	N							
2519-3275047	FENCE CHAIN LINK 72 HEIGHT ON WALL	STA	E001								STD	N							
2519-3275048	FENCE CHAIN LINK 84 IN HEIGHT	STA	E001								STD	N							
2519-3275050	FENCE CHAIN LINK 120 IN HEIGHT	STA	E001								STD	N							
2519-3275080	FENCE RMV+REINSTALL CHAIN LINK, AS PER PLAN	STA	E025								PLAN	N							
2519-3275151	FENCE CHANNEL CROSS TYPE A	STA	E001								STD	N							
2519-3275152	FENCE CHANNEL CROSS TYPE B	STA	E001								STD	N							
2519-3275155	FENCE CHANNEL CROSS CHAIN LINK, AS PER PLAN	STA	E001								STD	N							
2519-3275210	FLOOD PLAIN FENCE	STA	E001								STD	N							
2519-3275308	FENCE RMV+RECONSTRUCT FIELD	STA	E025								PLAN	N							
2519-3280039	FENCE, FIELD, TYPE 39	LF	E001								STD	N							
2519-3280047	FENCE, FIELD, TYPE 47	LF	E001								STD	N							
2519-3280510	REMOVE AND REINSTALL FIELD FENCE	LF	E025								PLAN	N							
2519-3300000	FENCE FIELD	STA	E001								STD	N							
2519-3300139	FENCE FIELD TYPE 39	STA	E001								STD	N							
2519-3300147	FENCE FIELD TYPE 47	STA	E001								STD	N							
2519-3300500	FENCE SAFETY	STA	E001								PLAN	N							
2519-3325000	FENCE TEMPORARY	STA	E001								PLAN	N							
2519-3600096	FENCE, DEER, 96 IN.	STA	E001								STD	N							
2519-3600200	CHANNEL CROSSING, DEER FENCE, TYPE A	STA	E001								PLAN		Y						
2519-3610010	FENCE UNDERLAYMENT, 18 INCH WIDE	STA	E001								STD	N							
2519-3700012	GATE DBL CHAIN LINK 12' WID 72 HGT	EACH	E039								STD	N							
2519-3700018	GATE DOUBLE CHAIN LINK ASSMY 18'	EACH	E039								STD	N							
2519-3700024	GATE DOUBLE CHAIN LINK ASSMY 24'	EACH	E039								STD	N							
2519-3700032	GATE DOUBLE CHAIN LINK ASSMY 32'	EACH	E039								STD	N							
2519-3710000	GATE ASSEMBLY, CHAIN LINK,	EACH	E039								STD5	N							
2519-3710003	GATE SINGLE CHAIN LINK 3' WID 72 HGT	EACH	E039								STD	N							
2519-3710014	GATE SINGLE CHAIN LINK ASSMY 14'	EACH	E039								STD	N							
2519-3710016	GATE SINGLE CHAIN LINK ASSMY 72 IN X 16'	EACH	E039								STD	N							
2519-3750016	GATE FIELD FENCE 16'	EACH	E039								STD	N							
2519-6745175	RMVL OF CHAIN LINK FENCE, AS PER PLAN	STA	E001								PLAN	N							
2523-0000300	HANDHOLES	EACH	E039								STD	N							
2523-8929500	LIGHTING UNIT, HAUL AND INSTALL	EACH	E039								PLAN	N							
2524-9080260	CONC FOOT -TYPE B BRKWY SIGN 2'X6' (RD-22A)	EACH	E039	E145							STD	N							
2524-9080265	CONC FOOT -TYPE B BRKWY SIGN 2'X6'6" (RD-22A)	EACH	E039	E145							STD	N							
2524-9080267	CONC FOOT -TYPE B BRKWY SIGN 2'X7' (RD-22A)	EACH	E039	E145							STD	N							
2524-9080275	CONC FOOT -TYPE B BRKWY SIGN 2'8 X7'6" (RD-22A)	EACH	E039	E145							STD	N							
2524-9080280	CONC FOOT -TYPE B BRKWY SIGN 2'8 X8' (RD-22A)	EACH	E039	E145							STD	N							
2524-9080285	CONC FOOT -TYPE B BRKWY SIGN 2'8 X8'6" (RD-22A)	EACH	E039	E145							STD	N							

Item Code	Description	Units	Form	Support Forms							Meas/Pay	Plan Quantity N	Plan Quantity Y						
2524-9080290	CONC FOOT -TYPE B BRKWY SIGN 2'8 X9' (RD-22A)	EACH	E039	E145							STD	N							
2524-9090001	DELINEATORS AS PER PLAN	EACH	E001								STD	N							
2524-9090010	DELINEATORS SINGLE WHITE(RE-7)	EACH	E001								STD	N							
2524-9090011	DELINEATORS DOUBLE WHITE(RE-7)	EACH	E001								STD	N							
2524-9090020	DELINEATORS SINGLE YELLOW	EACH	E001								STD	N							
2524-9090021	DELINEATORS DOUBLE YELLOW	EACH	E001								STD	N							
2524-9100000	END OF RD MARKER, AS PER PLAN	EACH	E039								PLAN	N							
2524-9130010	GUIDANCE MARKER CHEVRON W1-8	EACH	E039								PLAN	N							
2524-9210001	MILEPOST MARKERS D10-1	EACH	E039								STD	N							
2524-9210003	MILEPOST MARKERS D10-1A	EACH	E039								STD	N							
2524-9210004	MILEPOST MARKERS D10-2A	EACH	E039								STD	N							
2524-9210005	MILEPOST MARKERS D10-3A	EACH	E039								STD	N							
2524-9280090	STEEL BRKWY POSTS-TYPE B SIGNS W6 X 9	LF	E039								STD	N							
2524-9280121	POSTS STEEL BRKWY - TYPE B SIGNS W6X12	LF	E039								STD	N							
2524-9280150	POSTS STEEL BRKWY - TYPE B SIGNS W6X15	LF	E039								STD	N							
2524-9280180	POSTS STEEL BRKWY - TYPE B SIGNS W8X18	LF	E039								STD	N							
2524-9280210	POSTS STEEL BRKWY - TYPE B SIGNS W8X21	LF	E039								STD	N							
2524-9280322	POSTS STEEL BRKWY - TYPE B SIGNS W10X22	LF	E039								STD	N							
2524-9280326	POSTS STEEL BRKWY - TYPE B SIGNS W10X26	LF	E039								STD	N							
2524-9280426	POSTS STEEL BRKWY - TYPE B SIGNS W12X26	LF	E039								STD	N							
2524-9290000	SIGNING	LS	E005								PLAN		Y						
2524-9290007	SIGNS MODIFICATION OF EXIST	LS	E005								PLAN		Y						
2524-9380014	TYPE B SIGNS MODIFICATION, AS PER PLAN	LS	E005								PLAN		Y						
2524-9700000	SIGN, INSTALL ONLY	EACH	E039								PLAN	N							
2525-0000105	TRAFFIC SIGNAL INSTALLATION	LS	E005								DS		Y						
2525-2754930	REMOVAL OF SILT FENCE	LF	E039								STD	N							
2525-2754931	REMOVAL OF SILT FENCE DITCH CHECKS	LF	E039								STD	N							
2526-8286000	GLOBAL POSTIONING SYSTEM (GPS) MACHINE CONTROL GRADING	LS	E005								DS		Y						
2527-9263007	PLOWABLE PAVEMANT MARKERS	EACH	E001								SP	N							
2527-9263080	PAVT MARKINGS THERMOPLASTIC	STA	E026								SP	N							
2527-9263102	DURABLE PAINT AIRPORT PAVEMENT MARKINGS	SF	E002								SP	N							
2527-9263105	TEMPORARY CLOSED RUNWAY SYMBOL	EACH	E001								PLAN	N							
2527-9263106	TEMPORARY CLOSED TAXIWAY SYMBOL	EACH	E001								SP2	N							
2527-9263145	THERMOPLASTIC SYMBOL AND LEGEND	EACH	E039								SP	N							
2528-5160210	LANE AND/OR SHOULDER CLOSURE INCENTIVE PMT(or discentive)	CDAY	E039								SS	N							
2528-6765001	RMV+REINSTALL CROSSOVER BARRICADES	EACH	E025								PLAN	N							
2528-8400000	ATTENUATOR SPARE PARTS KIT,	EACH	E039								PLAN	N							
2528-8400010	SAND-FILLED BARREL ARRAY, PERMANENT	EACH	E039								PLAN	N							
2528-8400032	IMPACT ATTENUATOR, AS PER PLAN	EACH	E039								PLAN	N							
2528-8400034	IMPACT ATTENUATOR, INSTALL ONLY AS PER PLAN	EACH	E039								PLAN	N							
2528-8400036	IMPACT ATTENUATOR, REMOVE AND REINSTALL	EACH	E039								PLAN	N							
2528-8400038	IMPACT ATTENUATOR, FOAM FILLED CARTRIDGES	EACH	E039								PLAN	N							
2528-8400040	TEMP ATTENUATORS	EACH	E039								STD	N							
2528-8400041	TEMPORARY ATTENUATOR, AS PER PLAN	EACH	E039								SS	N							
2528-8400042	TEMP ATTENUATORS,SAND FILLED RE-73	EACH	E039								STD	N							
2528-8400060	TEMPORARY ATTENUATORS, NON-REDIRECTIVE (NR)	EACH	E001								STD	N							
2528-8400070	TEMPORARY ATTENUATORS, REDIRECTIVE ®	EACH	E001								STD	N							
2528-8400080	TEMPORARY ATTENUATORS, SEVERE USE (SU)	EACH	E001								STD	N							
2528-8400090	TEMPORARY ATTENUATORS, NON-REDIRECTIVE (NR) OR REDIRECTIVE (R) OR SEVERE USE (SU)	EACH	E001								STD	N							
2528-8400188	PERMANENT ATTENUATORS, NARROW, RE-88	EACH	E001								PLAN	N							
2528-8400189	PERMANENT ATTENUATORS, WIDE, RE-89	EACH	E001								PLAN	N							
2528-8400240	PERMANENT ATTENUATOR, AS PER PLAN	EACH	E001								SS	N							
2528-8400270	PERMANENT ATTENUATOR, REDIRECTIVE (R)	EACH	E001								SS	N							
2528-8400280	PERMANENT ATTENUATOR, SEVERE USE (SU)	EACH	E001								SS	N							
2528-8400300	PERMANENT ATTENUATOR SPARE PARTS KIT	EACH	E001								SS	N							
2528-8401010	TEMPORARY CRASH CUSHION, AS PER PLAN	EACH	E001								STD	N							
2528-8401012	TEMPORARY CRASH CUSHION, NON-REDIRECTIVE (NR)	EACH	E001								STD	N							
2528-8401014	TEMPORARY CRASH CUSHION, REDIRECTIVE (R)	EACH	E001								STD	N							
2528-8401016	TEMPORARY CRASH CUSHION, SEVERE USE (SU)	EACH	E001								STD	N							
2528-8401018	TEMPORARY CRASH CUSHION, NON-REDIRECTIVE (NR) OR REDIRECTIVE (R) OR SEVERE USE (SU)	EACH	E001								STD	N							
2528-8401020	PERMANENT CRASH CUSHION, AS PER PLAN	EACH	E001								STD	N							
2528-8401022	PERMANENT CRASH CUSHION, REDIRECTIVE (R)	EACH	E001								STD	N							
2528-8401024	PERMANENT CRASH CUSHION, SEVERE USE (SU)	EACH	E001								STD	N							
2528-8401026	PERMANENT CRASH CUSHION SPARE PARTS KIT	EACH	E001								STD	N							
2528-8445112	FLAGGERS	DAY	E029								STD	N							
2528-8445114	PILOT CARS	DAY	E029								STD	N							
2528-9109010	MODULAR LANE SEPARATOR SYSTEM	LF	E001								DS	N							
2528-9290002	SIGN CHANGEABLE MESSAGE,AS PER PLAN	EACH	E039								SP2	N							
2528-9290003	CHANGEABLE MESSAGE SIGN, PORTABLE	EACH	E039								SP2	N							
2528-9290004	CHANGEABLE MESSAGE SIGNS, PORTABLE	CDAY	E039								STD	N							
2529-9919100	WORK REQUIRED TO BE DONE DURING "OVER NIGHT" HOURS	UNIT	E039								SS	N							
2535-2000421	MECHANICALLY STABILIZED EARTH RETAINING WALL	SF	E002								SS	N							
2535-2000425	TWO-STAGE MECHANICALLY STABILIZED EARTH RETAINING WALL	SF	E002								SP	N							
2535-2000440	MODULAR BLOCK RETAINING WALL	SF	E002								SS	N							
2535-2000460	SEGMENTAL RETAINING WALL	SF	E002								SS	N							
2542-1006010	CRACK AND JOINT CLEANING AND SEALING (PCC)	MILE	E001								STD	N							
2547-0000100	TEMPORARY STREAM ACCESS	LS	E005								STD		Y						
2548-0000400	ASPHALT EMULSION FOR FOG SEAL (RUMBLE STRIPS)	GAL	E001								STD	N							
2549-0006310	RUBBER CHIMNEY SEAL	EACH	E039								STD	N							
2590-0000010	QUALITY MANAGEMENT - CONTRACTOR	LS	E005								DS		Y						
2590-0000100	PROGRESS SCHEDULING (CRITICAL PATH METHOD)	LS	E005								SP		Y						
2594-8995030	BENCHES	EACH	E039								SP2	N							
2594-8995310	CLEAN SEWAGE LAGOON	LS	E005								SP2		Y						
2594-8995580	PUMPING STATION, RA-58	EACH	E039	E132	E145						SRP	N							
2594-8995590	SANITARY DISPOSAL STATION (RA-59)	EACH	E039	E132	E145						SRP	N							
2594-8995660	SAN DISPOSAL STATION	EACH	E039								SRP	N							
2594-8996114	WATER METER	EACH	E039								SP2	N							
2594-8996156	MISCELLANEOUS PLUMBING WORK	LS	E005								SP2		Y						
2594-8996186	WATER LINE RD CROSS	EACH	E039								SP2	N							
2594-8996187	VALVES AIR RELEASE	EACH	E039								SP2	N							
2595-0000010	RAILROAD INSURANCE PROVISIONS	LS	E005								SP		Y						
2595-0000011	INSURANCE WHEN WORKING IN RAILROAD RIGHT-OF-WAY, STANDARD, FOR	LS	E005								SP2		Y						
2595-0000011	INSURANCE WHEN WORKING IN RAILROAD RIGHT-OF-WAY, STANDARD {FOR	LS	E005								SP2		Y						
2595-0000012	INSURANCE WHEN WORKING IN RAILROAD RIGHT-OF-WAY, MODIFIED, FOR	LS	E005								SP		Y						
2595-0000012	INSURANCE WHEN WORKING IN RAILROAD RIGHT-OF-WAY, MODIFIED {FOR	LS	E005								SP		Y						
2595-0000013	LIABILITY INSURANCE, MODIFIED, FOR	LS	E005								SP		Y						
2595-0000013	LIABILITY INSURANCE, MODIFIED {FOR	LS	E005								SP		Y						
2595-0000100	UPRR INSURANCE PROVISIONS	LS	E005								DS		Y						
2595-0000105	BNSFRR INSURANCE PROVISIONS	LS	E005								SS		Y						
2595-0000106	BNSF AND NS INSURANCE PROVISIONS	LS	E005								SP		Y						
2595-0000110	CBEC INSURANCE PROVISIONS	LS	E005								SP		Y						
2595-0000115	CCP INSURANCE PROVISIONS	LS	E005								SP		Y						
2595-0000127	CRANDIC INSURANCE PROVISIONS	LS	E005								SP		Y						
2595-0000130	D & I INSURANCE PROVISIONS	LS	E005								SP		Y						
2595-6676100	RAILROAD CROSS RUBBER	TLF	E001								SP2	N							
2598-0993500	CORPORATION STOP 3/4 IN	EACH	E039								SP2	N							
2598-0993600	CORPORATION STOP 1 IN	EACH	E039								SP2	N							
2598-0993650	CORPORATION STOP 1-1/2 IN	EACH	E039								SP2	N							
2598-0993700	CORPORATION STOP 2 IN	EACH	E039								SP2	N							
2598-1979034	CURB STOP 3/4 IN	EACH	E039								SP2	N							

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2598-1979100	CURB STOP 1 IN	EACH	E039								SP2	N							
2598-1980034	CURB STOP+VALVE BOX 3/4 IN	EACH	E039								SP2	N							
2598-1980100	CURB STOP+VALVE BOX 1 IN	EACH	E039								SP2	N							
2598-1980150	CURB STOP+VALVE BOX 1-1/2 IN	EACH	E039								SP2	N							
2598-1980200	CURB STOP+VALVE BOX 2 IN	EACH	E039								SP2	N							
2598-3380005	ADJUST FIRE HYDRANT ADJUST	EACH	E039								SP2	N							
2598-3380010	FIRE HYDRANT ASSEMBLIES	EACH	E039								SP2	N							
2598-3380040	RELOCATE FIRE HYDRANT	EACH	E031								SP2	N							
2598-3777004	GATE VALVE 4 IN	EACH	E039								SP2	N							
2598-3777006	GATE VALVE 6 IN	EACH	E039								SP2	N							
2598-3777008	GATE VALVE 8 IN	EACH	E039								SP2	N							
2598-3777012	GATE VALVE 12 IN	EACH	E039								SP2	N							
2598-3778002	GATE VALVE+VALVE BOX 2 IN	EACH	E039								SP2	N							
2598-3778004	GATE VALVE+VALVE BOX 4 IN	EACH	E039								SP2	N							
2598-3778006	GATE VALVE+VALVE BOX 6 IN	EACH	E039								SP2	N							
2598-3778008	GATE VALVE+VALVE BOX 8 IN	EACH	E039								SP2	N							
2598-3778010	GATE VALVE+VALVE BOX 10 IN	EACH	E039								SP2	N							
2598-3778012	GATE VALVE+VALVE BOX 12 IN	EACH	E039								SP2	N							
2598-3778016	GATE VALVE+VALVE BOX , 16 IN.	EACH	E039								SP2	N							
2598-4254900	HYDRANTS	EACH	E039								SP2	N							
2598-5925134	PIPE COPPER 3/4 IN	LF	E001								SP2	N							
2598-5925200	PIPE COPPER 1 IN	LF	E001								SP2	N							
2598-5926200	PIPE COPPER 2 IN	LF	E001								SP2	N							
2598-5955020	PIPE PVC 2 IN. DIA.	LF	E001								SP2	N							
2598-5955030	PIPE PVC 3 IN. DIA.	LF	E001								SP2	N							
2598-5955040	PIPE PVC 4 IN. DIA.	LF	E001								SP2	N							
2598-5955060	PIPE PVC 6 IN. DIA.	LF	E001								SP2	N							
2598-5955080	PIPE PVC 8 IN. DIA.	LF	E001								SP2	N							
2598-5955100	PIPE PVC 10 IN. DIA.	LF	E001								SP2	N							
2598-5955120	PIPE PVC 12 IN. DIA.	LF	E001								SP2	N							
2598-6745755	RMVL OF FIRE HYDRANT	EACH	E039								SP2	N							
2598-8502060	VALVE BOX 6 IN	EACH	E039								SP2	N							
2598-8502080	VALVE BOX 8 IN	EACH	E039								SP2	N							
2598-8502160	VALVE BOX 16 IN	EACH	E039								SP2	N							
2598-8504160	VALVE BUTTERFLY 16 IN	EACH	E039								SP2	N							
2598-8800000	PREPARE EXCAVATION FOR TAPPING SLEEVE	EACH	E039								SP2	N							
2598-8805603	WATER MAIN, DUCTILE IRON, 3 IN.	LF	E001								SP2	N							
2598-8805604	WATER MAIN DUCTILE IRON 4 IN	LF	E001								SP2	N							
2598-8805606	WATER MAIN DUCTILE IRON 6 IN	LF	E001								SP2	N							
2598-8805608	WATER MAIN DUCTILE IRON 8 IN	LF	E001								SP2	N							
2598-8805610	WATER MAIN DUCTILE IRON 10 IN	LF	E001								SP2	N							
2598-8805612	WATER MAIN DUCTILE IRON 12 IN	LF	E001								SP2	N							
2598-8805615	WATER MAIN, DUCTILE IRON, 15 IN	LF	E001								SP2	N							
2598-8805616	WATER MAIN DUCTILE IRON 16 IN	LF	E001								SP2	N							
2598-8805620	WATER MAIN DUCTILE IRON 20 IN	LF	E001								SP2	N							
2598-8805624	WATER MAIN DUCTILE IRON 24 IN	LF	E001								SP2	N							
2598-8805802	WATER MAIN PVC 2 IN	LF	E001								SP2	N							
2598-8805803	WATER MAIN PVC 3 IN	LF	E001								SP2	N							
2598-8805804	WATER MAIN PVC 4 IN	LF	E001								SP2	N							
2598-8805806	WATER MAIN PVC 6 IN	LF	E001								SP2	N							
2598-8805808	WATER MAIN, PVC, 8 IN	LF	E001								SP2	N							
2598-8805810	WATER MAIN, PVC, 10 IN	LF	E001								SP2	N							
2598-8805812	WATER MAIN PVC 12 IN	LF	E001								SP2	N							
2598-8805816	WATER MAIN, PVC, 16 IN.	LF	E001								SP2	N							
2598-8810000	WATER MAIN ENCASEMENT	LF	E001								SP2	N							
2598-8810200	WATER MAIN FITTINGS	LB	E039								SP2	N							
2598-8815400	WATER MAIN REMOVE AS PER PLAN	LF	E001								SP2	N							
2598-8821000	WATER SERVICE DISCONNECT	EACH	E039								SP2	N							
2598-8821001	WATER SERVICE CHECK DEPTH OF	EACH	E039								SP2	N							
2598-8821002	LOWER WATER SERVICE	EACH	E039								SP2	N							
2598-8821003	WATER SERVICE LOWER W/COPPER	EACH	E039								SP2	N							
2598-8821007	WATER SERVICE INVESTIGATION	EACH	E039								SP2	N							
2598-8821010	WATER SERVICE NEW	EACH	E039								SP2	N							
2598-8821034	WATER SERVICE PIPE COPPER 3/4 IN	LF	E039								SP2	N							
2598-8821100	WATER SERVICE PIPE COPPER 1 IN	LF	E039								SP2	N							
2598-8821150	WATER SERVICE PIPE COPPER 1-1/2 IN	LF	E039								SP2	N							
2598-8821200	WATER SERVICE PIPE COPPER 2 IN	LF	E039								SP2	N							
2598-8821300	WATER SERVICE RELOCATE	EACH	E031								SP2	N							
2598-8821301	WATER SERVICE RELOCATE STOP BOXES	EACH	E031								SP2	N							
2598-8821302	ADJUST WATER SERVICE STOP BOXES	EACH	E039								SP2	N							
2598-8821602	WATER VALVE GATE MECHANICAL JOINT 2	EACH	E039								SP2	N							
2598-8821603	WATER VALVE GATE MECHANICAL JOINT 3	EACH	E039								SP2	N							
2598-8821604	WATER VALVE GATE MECHANICAL JOINT 4	EACH	E039								SP2	N							
2598-8821606	WATER VALVE GATE MECHANICAL JOINT 6	EACH	E039								SP2	N							
2598-8821608	WATER VALVE GATE MECHANICAL JOINT 8	EACH	E039								SP2	N							
2598-8821610	WATER VALVE GATE MECHANICAL JOINT 10	EACH	E039								SP2	N							
2598-8821612	WATER VALVE GATE MECHANICAL JOINT 12	EACH	E039								SP2	N							
2599-2300010	DRAIN CURB MODIFICATION	LS	E005								PLAN		Y						
2599-6300145	POSTS STEEL, AS PER PLAN	EACH	E039								PLAN	N							
2599-8580000	WALL, NOISE BARRIER	SF	E002								SP	N							
2601-2636040	CROWNVETCH SEEDING	ACRE	E033	E123							STD	N							
2601-2636042	SEEDING + FERTILIZING + MULCHING	ACRE	E034	E123	E124						STD	N							
2601-2638130	SLOPE PROTECTION JUTE MESH	SQ	E036								STD	N							
2601-2638351	SLOPE PROTECTION, WOOD EXCELSIOR MAT (RC-14)	SQ	E036								STD	N							
2601-2638610	CONCRETE SLOPE PROTECTION	SY	E003	E115							PLAN	N							
2601-2638620	MACADAM STONE SLOPE PROTECTION	SY	E039	E100							PLAN	N							
2601-2638630	SLOPE PROTECTION, WASHED GRAVEL	SY	E039	E100							PLAN	N							
2601-2638650	BRIDGE WING ARMORING - EROSION STONE	SY	E039	E100							PLAN	N							
2601-2638660	BRIDGE WING ARMORING - MACADAM STONE	SY	E039	E100							PLAN	N							
2601-2640251	SPECIAL DITCH CONTROL, JUTE MESH (RC-13)	SQ	E036								STD	N							
2601-2640300	SPECIAL DITCH CONTROL JUTE MESH OVER SOD	SQ	E036								STD	N							
2601-2642500	TURF GRASS MAINTENANCE, RESTAREA FALL APPLICATION	ACRE	E039	E123							STD	N							
2601-2642505	TURF GRASS MAINTENANCE, RESTAREA LATE FALL APPLICATION	ACRE	E039	E123							STD	N							
2601-2642510	TURF GRASS MAINTENANCE, RESTAREA SPRING APPLICATION	ACRE	E039	E123							STD	N							
2601-2643400	TURF REINFORCED MAT	SQ	E036								PLAN	N							
2601-2643401	TURF REINFORCEMENT MAT	SQ	E036								STD	N							
2602-0000060	REMOVAL OF SILT FENCE	LF	E001								STD	N							
2602-0000070	REMOVAL OF SILT FENCE FOR DITCH CHECKS	LF	E001								STD	N							
2602-0000090	CLEAN-OUT OF SILT FENCE	LF	E001								STD	N							
2602-0000100	CLEAN-OUT OF SILT FENCE FOR DITCH CHECK	LF	E001								STD	N							
2602-0000210	FLOATING SILT CURTAIN, MOVING WATER (RC-18)	LF	E001								SRP	N							
2602-0000211	FLOATING SILT CURTAIN, MOVING WATER	LF	E001								SRP	N							
2602-0000220	FLOATING SILT CURTAIN, STILL WATER (RC-18)	LF	E001								SRP	N							
2602-0000221	FLOATING SILT CURTAIN, STILL WATER	LF	E001								SRP	N							
6100-2303010	(EWO) HMA MIX, INCORPORATED W/HYDRATED LIME (PRE-EST. PRICE)	TON	E001								STD	N							
6100-2402050	(EW0) FOUNDATION TREATMENT	CY	E004								STD	N							
6100-2501030	(EW0)UNINCORPORATED PILES	LF	E001								STD	N							
6100-2529010	(EW0)INCREASE DEPTH SUBBASE FD PATCHES	SY	E003								STD	N							
6100-2529020	(EW0)ADD COST FOR PC FINISH PATCHES	SY	E003								STD	N							
6100-2529030	{EWO} PROFILOMETER TESTING & EVALUATION ON FULL-DEPTH FINISH PAT	EACH	E039								STD	N							
6100-2599010	(EW0)REIMBURSEMENT FOR OJT TRAINING	HOUR	E032								SS	N							
6200-2301010	(PRICE ADJUST)PCC THICKNESS DEFICIENT	SY	E003								STD	N							

Item Code	Description	Units	Form	Support Forms							Meas/Pay	Plan Quantity N	Plan Quantity Y						
6200-2301011	{PRICE ADJUSTMENT} PCC PAVEMENT STD THICKNESS, DEFICIENT (BY SCHEDULE)	EACH	E039								STD	**N**							
6200-2301020	(PRICE ADJUST)PCC THICKNESS INCENTIVE	SY	E003								STD	**N**							
6200-2301021	(PRICE ADJUST)PCC THICKNESS INCENTIVE	EACH	E039								STD	**N**							
6200-2301030	{PRICE ADJUSTMENT} QM-C PCC PAVEMENT, WORKABILITY FACTOR VS. COARSENESS FACTOR, DEFICIENT (BY SCHEDULE)	SY	E003								STD	**N**							
6200-2301031	{PRICE ADJUST} QM-C PCC PAVEMENT, WORKABILITY FACTOR VS. COARSENESS FACTOR, DEFICIENT (BY SCHEDULE)	EACH	E039								DS	**N**							
6200-2301040	{PRICE ADJUSTMENT} QM-C PCC PAVEMENT, WORKABILITY FACTOR VS. COARSENESS FACTOR, INCENTIVE (BY SCHEDULE)	SY	E003								STD	**N**							
6200-2301041	{PRICE ADJUST} QM-C PCC PAVEMENT, WORKABILITY FACTOR VS. COARSENESS FACTOR, INCENTIVE (BY SCHEDULE	EACH	E039								DS	**N**							
6200-2303050	{PRICE ADJUST} HMA MIXTURE LABORATORY VOIDS (FORMULA - BY PAY FA	EACH	E039	APPROPRIATE DOC. AS NEEDED							DS	**N**							
6200-2303052	{PRICE ADJUST} HMA MIXTURE FIELD VOIDS (FORMULA - BY PAY FACTOR)	EACH	E039	APPROPRIATE DOC. AS NEEDED							DS	**N**							
6200-2502010	(PRICE ADJUST)GUARDRAIL INCOMPLETE INSTALL	DAY	E039	APPROPRIATE DOC. AS NEEDED							STD	**N**							
6200-2601010	{PRICE ADJUSTMENT} MOWING, PENALTY FAILURE TO COMPLETE WORK IN ALLOTED TIME (PRE-ESTABLISHED PRICE)	DAY	E039	APPROPRIATE DOC. AS NEEDED							DS	**N**							
6200-2601020	{PRICE ADJUSTMENT} WATERING, PENALTY FOR FAILURE TO COMPLETE WORK IN ALLOTED TIME (PRE-ESTABLISHED PRICE}	CDAY	E039	APPROPRIATE DOC. AS NEEDED							DS	**N**							
6200-7000011	(PRICE ADJUST)FAILURE TO MEET DBE COMMIT.	EACH	E039	APPROPRIATE DOC. AS NEEDED							STD	**N**							
6200-7000032	{PRICE ADJUST} INCENTIVE FOR HMA PAVEMENT SMOOTHNESS (BY SCHEDULE)	EACH	E039	APPROPRIATE DOC. AS NEEDED							STD	**N**							
6200-7000041	(PRICE ADJUST)INCENTIVE SMOOTHNESS PCC	EACH	E039	APPROPRIATE DOC. AS NEEDED							STD	**N**							

INDEX OF FORMS
April 2001

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Daily Diary			Daily2
Generic (Sta to Sta)		Blank	E001,E001A
Area		SF	E002,E002A
Area		SY	E003,E003A
Volume		CY	E004,E004A
Lump Sum		LS	E005,E005A
Excavation Haul		CY	E006,E006A
Material - required, placed, yield		Blank	E007,E007A
Compaction - M & D		CY	E008,E008A
Volume - disposal (Boulders)		CY	E009,E009A
Overhaul		Sta Yds	E010,E010A
Removed & Placed		CY	E011,E011A
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Compaction - lift		Miles	E014,E014A
Compaction - lift		Tons	E015,E015A
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Pipe		Blank	E018,E018A
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Piling - test		LS	E021,E021A
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Pavement Markings		Miles	E027,E027A
Loop Detectors		Each	E028,E028A
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Mobilization		Dollars	E030
Remove and Relocate		Blank	E031,E031A
Trainee Reimbursement - field		Hours	E032,E032A

Fertilizer and Mulch		Blank	E033,E033A
Overseeding - seed, fertilizer		Acres	E034,E034A
Native Grass and Wild Flowers		Acres	E035,E035A
Ditch Control		Sq	E036,E036A
Water Record		MGal	E037,E037A
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Generic		Sq	E040,E040A
Tree & Shrub Furnish & Install		Each	E041,E041A
AC Pavements - shoulders		SY	E042,E042A
PCC Structures Field Page	^^^	CY	E039,E039A

AC Paving Projects

Use Form E020A in Excel for documentation when tack is incidental to the mix bid item.

PC Paving Projects

*** Use Form E023 as the pay form when using a hard copy pay system. Use Form E137 as a supporting document when using the Field BK, Field BK2 pay system.

PC Structures Projects

^^^ Use Form E039 as the pay form when using a hard copy pay system. Use Form E145 as a supporting document when using the Field BK, Field BK2 pay system.

Supporting

Drawings and Calculations	Blank	E100
Drawings		E101
Calculations	Blank	E102
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Scale Check		E106
Field Moisture Test		E107
Proctor Test		E108
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PC Concrete Item Check List		E111

Texture Tolerance Checks	E112
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PC Concrete Beam Record	E114
Concrete - air, slump	E115
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Pile Cutoffs - calculations	E117
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Maturity Meter Data Recording Sheet - (Grade)	M142
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Maturity Meter Validation Curve - (Plant)	M144
Structural Concrete Weekly (Grade)	E145

Additional support documents may be required on certain pay items.

Just because a support document is not listed, does not mean that one is no

longer required, specifications and requirements do change!!!!!

These support documents do not replace the 800 series report forms....
The 800 series Reports are as follows:

Concrete Core Measurement Report (9 pointing)	**800130**
ACC Thickness Q.I. Report	**800131**
PCC Plant Report	**800240**
ACC Plant Report	**800241**
PC Absolute Volume Calculations	**820150**
Aggregate Gradations	**820180**
Portland Cement Shipment Yield Report	**820912**
M & D Embankment Construction - Nuclear	**821258**
Density Of Plastic PC Concrete - Nuclear	**821297**
Log Of Piling	**830209**
PC Ready Mix Concrete Truck Tickets	**830212**

Exercises – Selecting field book forms

Make a list of all worksheets you will need to properly document the items on the contract.

Line No	Item Number Item Description	Unit	Form	Support Forms
0010	2102-2710070 EXCAVATION, CLASS 10, ROADWAY AND BORROW	CY		
0020	2105-8425005 TOPSOIL, FURNISH AND SPREAD	CY		
0030	2107-0875000 COMPACTION WITH MOISTURE AND DENSITY CONTROL	CY		
0040	2123-7450020 SHOULDER FINISHING, EARTH	STA		
0050	2213-6745500 REMOVAL OF CURB	STA		
0060	2213-7100400 RELOCATION OF MAIL BOXES	EACH		
0070	2301-1033095 STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 9.5 IN.	SY		
0080	2301-4874106 MEDIAN, DOWELLED P.C. CONCRETE, 6 INCH	SY		
0090	2301-4875006 MEDIAN, P.C. CONCRETE, 6 IN.	SY		
0100	2301-6911722 PORTLAND CEMENT CONCRETE PAVEMENT SAMPLES	LUMP		

Line No	Item Number Item Description	Unit	Form	Support Forms
0110	2302-1200095 PORTLAND CEMENT CONCRETE PAVEMENT WIDENING, 9.5 IN.	SY		
0120	2401-6745356 REMOVAL OF CONCRETE FOOTINGS OF LIGHT POLES	EACH		
0130	2401-6745765 REMOVAL OF LIGHT POLES	EACH		
0140	2401-6750001 REMOVALS, AS PER PLAN	LUMP		
0150	2402-0425031 GRANULAR BACKFILL	TON		
0160	2403-0100000 STRUCTURAL CONCRETE (MISCELLANEOUS)	CY		
0170	2404-7775005 REINFORCING STEEL, EPOXY COATED	LB		
0180	2414-6460000 ORNAMENTAL METAL RAILING	LF		
0190	2435-0251000 INTAKE, SW-510	EACH		
0200	2435-0254500 INTAKE, SW-545	EACH		

Job No.	3807	**Letting Date**	12/15/2009
Job Name	Johnston 86th St. PCC Widening	**Letting Time**	10:00 AM
BO	106	**Work Hours**	NA
Proposal ID No.	77-3827-611		
Project No.	ESL-3827(611)--7S-77		

Engineer/City

Position	Company	Contact	Phone No.	Cell No.
Inspector	HR Green	Patrick Hider	515-278-2913	
Civil Engineer	HR Green	Ryan Simbro	515-278-2913	515-208-0622
Public Works Director	City of Johnston	Dave Cubit	515-278-0822	
Public Works Superintendent	City of Johnston	Brian Wilson	515-278-0822	
Public Works Utility Locates	City of Johnston	Bob Reese	515-278-0822	

Manatts, Inc. (Metro Des Moines)

Position	Company	Contact	Phone No.	Cell No.
General Supt.	Manatts, Inc.	Larry Adair	515-278-0247	515-249-0394
Supt.	Manatts, Inc.	Mark Adair	515-278-0247	515-249-2987
Paving Foreman	Manatts, Inc.	Todd Nuckolls	515-278-0247	515-249-2561
Grading Foreman	Manatts, Inc.	Lewayne Luers	515-278-0247	515-577-4610
Saw/Seal	Manatts, Inc.	Brian Breon	515-278-0247	515-954-0406
PCC QC	Manatts, Inc.	Larry Wishon	515-278-0247	515-250-2404
PCC QC	Manatts, Inc.	Jerry Carlson	515-278-0247	515-249-5125
Equipment Manager	Manatts, Inc.	Kelly Adair	515-278-0247	515-249-3658
Safety Manager	Manatts, Inc.	Pat Jackson	515-278-0247	515-249-0022
Project Manager/Estimator	Manatts, Inc.	Cameron Green	515-278-0247	720-939-6564
Office	Manatts, Inc.	Sheri Leisure	515-278-0247	--

Manatt Subcontractors & Suppliers

Trade/Material	Company	Contact	Phone No.	Cell No.
PCC Materials	Construction Materials	Tim Paul	(515) 263-9006	(515) 770-5312
Traffic Control/Pavement Marking/Mailboxes/Delineators	Road Safe Traffic Systems		515-284-5276	
Traffic Control/Pavement Marking/Mailboxes/Delineators	Road Safe Traffic Systems	PJ Fogarty	515-284-5277	515-314-2685
Traffic Control/Pavement Marking/Mailboxes/Delineators	Road Safe Traffic Systems	Tom Busta	515-284-5277	
Survey	Aldrich Land Surveyors	Mark Fowler	515-986-4922	515-491-2617
Survey	Aldrich Land Surveyors	Chris Aldrich	515-986-4922	515-491-0110
Earthwork & Utilities	J & K Contracting	Dave Anderson	641-522-9206	515-450-6960
Earthwork & Utilities	J & K Contracting	Mick Bockenstedt	641-522-9206	515-509-3000
Earthwork & Utilities	J & K Contracting	Jeremy Feldmann	641-522-9206	(515) 450-6815
PCC Subcontractor	Rocky Hurst Construction	Rocky Hurst	(515) 210-9093	(515) 210-8860
PCC Subcontractor	Leader Construction	Bob Leader	(515) 262-3141	(515) 988-8988
Structural Concrete	Absolute Concrete	Matt Triggs	(515) 228-3030	(515) 210-4900
Ornamental Fence	American Fence Co. Of IA.	Jeff Husmann	515-265-6100	515-707-6759
Signalization/Lighting	Iowa Signal Inc.	Wayne	(515) 255-7748	(515) 249-5076
Signalization/Lighting	Iowa Signal Inc.	Ron Johnsen	(515) 255-7748	(515) 249-3151
Erosion Control/Sod/Seed	Soil Tek	Anton Nichols	888-764-5835	515-208-2572
Erosion Control/Sod/Seed	Soil Tek	Ryan Bright	888-764-5835	515-208-8106
Erosion Control/Sod/Seed	Soil Tek	Brian Denham	888-764-5835	515-208-5169

Line No.: 0060

Item Code: 2213-7100400 **Page No.:** 1

Description: Relocation of Mail Box **Category No.:**

Project No.: ESL-3827(611)--7S-77 **Contract ID:** 3827-611-77

Date	Location Sta	Today ( )	To Date ( )	Remarks	By
03/29/10	138+76.22, 28.32' RT	1.000	1.000	Placed on LM Lane.	PH
06/16/10	170+67.78 31.86' RT	1.000	2.000	Relocate by Kum N Go	PH
06/28/10	143+92.13, 27.40' LT	1.000	3.000	Placed on LM Dr/87th	PH
			0.000		
			0.000		
			0.000		
			0.000		
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			0.000		
			0.000		
			0.000		

Qty. Awarded: 5.000 **Method of Measurement:**

CO Adjust.: **Basis of Payment:**

Authorized: 5.000 **Checked By:**

Quantity Paid: 3.000 **Audited By:**

% Authorized: 60.0

Line No.: 0070

Item Code: 2301-1033095

Page No.: 1

Description: Std. / Slip PCC Cl. C Cl. 3 - 9.5 in.

Category No.:

Project No.: ESL-3827(611)--7S-77

Contract ID: 77-3827-611

Date	Station From	Station To	Lane	Mix No.	Time Start	Time Stop	Length (ft)	Width (ft)	Estimated CY Today	Used (CY) Today	Used (CY) To Date	Est. Used (%)	Slip or Fixed (S / F)	Cold Wethr (Y / N)	Pay Today (SY)	Pay to Date (SY)	By
05/28/10	39+83.48	40+05.54	-	3WRC20S2	1:00 PM	2:30 PM	22.06	Varies	13.87	15.00	15.000	108.2	F	N	51.667	51.667	PH
06/01/10	67+46.50	67+81.50	-	3WRC20S2	10:00 AM	11:45 AM	35.00	24.00	24.63	26.50	41.500	107.6	F	N	93.333	145.000	PH
06/04/10	39+85.48	40+01.88	-	3WRC20S2	1:30 PM	3:30 PM	16.40	Varies	14.91	16.00	57.500	107.3	F	N	55.620	200.620	PH
06/09/10	67+44.50	67+81.50	Rt	3WRC20S2	1:00 PM	4:00 PM	37.00	Varies	18.22	19.50	77.000	107.0	F	N	67.120	267.739	PH
06/11/10	67+44.50	67+81.50	Lt	3WRC20S2	10:00 AM	1:00 PM	37.00	Varies	15.80	19.00	96.000	120.3	F	N	57.926	325.665	PH
07/27/10	66+46.50	66+81.50	-	3WRC20S2	10:00 AM	12:00 PM	35.00	24.00	24.63	27.00	123.000	109.6	F	N	93.333	418.998	PH
07/29/10	66+46.50	66+83.50	Lt/Rt	3WRC20S2	12:00 PM	2:00 PM	37.00	Varies	34.97	39.00	162.000	111.5	F	N	132.525	551.523	PH
05/14/10*	71+57.63	71+72.63	Rt	3WRC20S2	-	-	15.00	3.50	-	-	162.000	-	F	N	6.000	557.523	PH
09/11/10	38+81.48	39+22.48	-	3WRC20S2	8:00 AM	12:00 PM	41.00	Varies	49.06	55.00	217.000	112.1	F	N	185.920	743.444	PH
10/04/10	170+71.15	171+76.45	-	C4WRC20	1:30 PM	3:30 PM	105.30	Varies	29.24	30.50	247.500	104.3	F	N	110.822	854.265	PH
							0.00				0.000	0.0			0.000	0.000	
							0.00				0.000	0.0			0.000	0.000	
							0.00				0.000	0.0			0.000	0.000	
							0.00				0.000	0.0			0.000	0.000	
							0.00				0.000	0.0			0.000	0.000	
							0.00				0.000	0.0			0.000	0.000	

* Forgotten quantity from intake boxout

Qty. Awarded: 859.000

Method of Measurement:

CO Adjust.:

Basis of Payment:

Authorized: 859.000

Checked By:

Quantity Paid: 854.265

Audited By:

% Authorized: 99.4

Air Content During Burr 5/20/10

@ ~ 173+00 (1st 100 yards) 6.6 %

@ ~ 171+00 (2nd 100 yards) 7.4 %

w/ Brian Burr Burr @ 7.1% ✓

@ ~ 170+00 (still in the 2nd 100 yards) 6.2%

Tests witnessed

Jerry Carlson of Manatts ~ 170+00 6.7%

~ 169+60 (new truck and air mix) = 8.0%

Depth checks

~ 173+00	6' EOP		Face Curb
	10"		9.75"
~ 172+00	6' EOP	9' EOP	Face Curb
	10.75"	9.75"	10.5"
~ 171+00	1' EOP		
	9.75"		
~ 170+00	3' EOP	5' EOP	
	9.9"	9.9"	

Yield → Concrete Used 128.5 yd^3

MATURITY - FIELD DATA

PROJECT: ESL-3827(611)--75-77
COUNTY: Polk
CONTRACTOR: Manatts
MATURITY CURVE #: Johnston

DATE PLACED: 4/15/10
MIX: C3-WRC20
SLUMP: 3.75"
AIR: 7.2
SLAB DEPTH: 6"

SECTION OF PAVEMENT FOR OPENING BY MATURITY
FROM LOCATION Derby & 40th (MW 87th)
TO PROBE LOCATION Clarkson Property

SECTION OF PAVEMENT FOR OPENING BY MATURITY
FROM LOCATION
TO PROBE LOCATION

REQUIRED TTF: 1077

PROBE #1

Date	Time	Diff.	Age (hours)	Temp (deg C)	TTF at age (deg C-hr)	Sum TTF (deg C-hr)
4/15/10	12:00 pm		0.00	20.3		
4/16/10	8:00 pm	20	20	13.0	533	
4/17/10	12:00 pm	24	44	15.5	582	1115
4/19/10	8:00 pm	44	88	11.2	1027.4	2142.4

PROBE #2

Date	Time	Diff.	Age (hours)	Temp (deg C)	TTF at age (deg C-hr)	Sum TTF (deg C-hr)
			0.00			

TTF [ ]
Value in box should be equal to or greater than required TTF.

TTF [ ]
Value in box should be equal to or greater than required TTF.

$$TTF_i = \left(\frac{Temp_R + Temp_{R-1}}{2} + 10\right)(Age_i - Age_{i-1})$$

CONTRACTOR REPRESENTATIVE

MATURITY - FIELD DATA

PROJECT: NW 86th ST Widening ESL-3827(611)--75-77
COUNTY: Polk
CONTRACTOR: Manatts
MATURITY CURVE #: Johnston #3

DATE PLACED: 5/6/10, 5/11/10
MIX: C3 WTCC20/$20
SLUMP: 4"
AIR:
SLAB DEPTH: 9.5"

SECTION OF PAVEMENT FOR OPENING BY MATURITY
FROM LOCATION Patches (S-8), (S-11), (S-18)
TO PROBE LOCATION

SECTION OF PAVEMENT FOR OPENING BY MATURITY
FROM LOCATION Patches (S-11), (E167+90 RT),
TO PROBE LOCATION (S-24), (S-27), (S-21)

REQUIRED TTF: 1488

PROBE #1

Date	Time	Diff.	Age (hours)	Temp (deg C)	TTF at age (deg C-hr)	Sum TTF (deg C-hr)
5/6/10	4:30 pm		0.00	15.8	—	—
5/7/10	6:30 am	16.0	16.0	18.8	436.8	
5/8/10	11:00 am	28.5	44.5	12.1	725.3	1162.1
5/10/10	10:00 pm	47.0	91.5	11.6	1026.9	2189.0

TTF [ ]
Value in box should be equal to or greater than required TTF.

PROBE #2

Date	Time	Diff.	Age (hours)	Temp (deg C)	TTF at age (deg C-hr)	Sum TTF (deg C-hr)
5/11/10	3:00 pm		0.00	15.1		
5/12/10	6:30 am	15.5	15.5	10.6	354.2	
5/13/10	6:30 am	24.0	39.5	11.0	499.2	853.4

TTF [ ]
Value in box should be equal to or greater than required TTF.

$$TTF_i = \left(\frac{Temp_i + Temp_{i-1}}{2} + 10\right)(Age_i - Age_{i-1})$$

CONTRACTOR REPRESENTATIVE

MATURITY - FIELD DATA

PROJECT: NW 86th ST WIDENING ESL-3827(601)--75-77
COUNTY: POLK
CONTRACTOR: MANATTS
MATURITY CURVE #: JOHNSTON #3

DATE PLACED: 5/24/10, 5/25/10
MIX: C3-WRC20/520
SLUMP:
AIR:
SLAB DEPTH: 9.5"

SECTION OF PAVEMENT FOR OPENING BY MATURITY
FROM LOCATION RIGHT SIDE WIDENING FROM
TO PROBE LOCATION ~~1+84~~ 169+39 TO 160+44

SECTION OF PAVEMENT FOR OPENING BY MATURITY
FROM LOCATION RIGHT SIDE WIDENING FROM
TO PROBE LOCATION 149+84 TO 133+63

REQUIRED TTF: 1488

PROBE #1

Date	Time	Diff.	Age (hours)	Temp (deg C)	TTF at age (deg C-hr)	Sum TTF (deg C-hr)
5/24/10	3:00 pm		0.00	27.2		
5/25/10	5:30 AM	15.5	15.5	29.0	590.6	
5/25/10	5:00 PM	11.5	27.0	39.1	506.6	1097.2
5/26/10	6:00 AM	13.0	40.0	22.0	527.2	1624.4

TTF [ ]
Value in box should be equal to or greater than required TTF.

PROBE #2

Date	Time	Diff.	Age (hours)	Temp (deg C)	TTF at age (deg C-hr)	Sum TTF (deg C-hr)
5/25/10	4:00 pm		0.00	24.4		
5/26/10	6:00 AM	14.0	14.0	27.0	499.8	
5/27/10	6:00 AM	24.0	38.0	22.0	828.0	1327.8
5/28/10	12:30 pm	30.5	68.5	23.2	994.3	2322.1

TTF [ ]
Value in box should be equal to or greater than required TTF.

$$TTF_i = \left(\frac{Temp_R + Temp_{R-1}}{2} + 10\right)(Age_i - Age_{i-1})$$

CONTRACTOR REPRESENTATIVE

MATURITY - FIELD DATA

PROJECT: 86th ST. WIDENING LESL-3927(611)--75-77
COUNTY: POLK
CONTRACTOR: Manatts
MATURITY CURVE #: J-3

DATE PLACED: @ 6/1/10, 6/2/10
MIX: C3-WRL 20 1320
SLUMP:
AIR:
SLAB DEPTH: 9.5"

SECTION OF PAVEMENT FOR OPENING BY MATURITY
FROM LOCATION Center 24' of Crescent Chase (East)
TO PROBE LOCATION & outside 2/3 of 7" DR @ 137+25

SECTION OF PAVEMENT FOR OPENING BY MATURITY
FROM LOCATION Middle 1/3 of 7" DR. @ 137+25
TO PROBE LOCATION

REQUIRED TTF: 1488

PROBE #1

Date	Time	Diff.	Age (hours)	Temp (deg C)	TTF at age (deg C-hr)	Sum TTF (deg C-hr)
6/1/10	12:00 pm		0.00	24.6		
6/2/10	6:00 pm	18.0	18.0	24.8	624.6	
6/3/10	6:00 am	24.0	42.0	18.0	753.6	1378.2
6/3/10	3:00 pm	9.0	51.0	26.0	288.0	1666.2

TTF [ ]
Value in box should be equal to or greater than required TTF.

PROBE #2

Date	Time	Diff.	Age (hours)	Temp (deg C)	TTF at age (deg C-hr)	Sum TTF (deg C-hr)
6/2/10	9:30 am		0.00	24.6		
6/3/10	6:00 am	27.5	27.5	17.0	847	
6/3/10	3:00 pm	9.0	36.5	26.0	283.5	1130.5
*Santa 1/2 of Long Meadow Lane (East)						
6/4/10	4:00 pm		0.00	29.8		
6/5/10	12:00 pm	20.0	20.0	25.1	749	
6/6/10	8:30 am	20.5	40.5	22.7	695.0	1444

TTF [ ]
Value in box should be equal to or greater than required TTF.

$$TTF_i = \left(\frac{Temp_i + Temp_{i-1}}{2} + 10\right)(Age_i - Age_{i-1})$$

CONTRACTOR REPRESENTATIVE

Line No.: 0240

Item Code: 2502-6745952 **Page No.:** 1

Description: Rmvl of Subdrain **Category No.:**

Project No.: ESL-3827(611)--7S-77 **Contract ID:** 77-3827-611

Date	Location Sta	Sta	(Side)	Today ( )	To Date ( )	By
04/06/10		135+50	RT	41.000	41.000	PH
04/07/10		137+88.50	RT	40.000	81.000	PH
04/08/10		143+75	RT	40.000	121.000	PH
04/12/10		147+81	RT	38.000	159.000	PH
04/18/10		162+51.50	RT	37.000	196.000	PH
04/18/10		165+97	RT	37.000	233.000	PH
05/03/10		169+49	RT	42.000	275.000	PH
05/03/10		170+79	RT	39.000	314.000	PH
06/16/10		170+79	LT	19.000	333.000	PH
06/24/10		169+49	LT	32.000	365.000	PH
06/29/10		165+97	LT	32.000	397.000	PH
07/05/10		165+97	LT	10.000	407.000	PH
07/07/10		162+51.50	LT	32.000	439.000	PH
07/12/10		147+87	LT	32.000	471.000	PH
07/16/10		143+75	LT	32.000	503.000	PH
07/23/10		166+60	LT	35.000	538.000	PH
07/23/10		167+30	LT	40.000	578.000	PH
07/29/10		138+88.50	LT	32.000	610.000	PH
08/16/10		135+50	LT	32.000	642.000	PH
					0.000	
					0.000	
					0.000	
					0.000	
					0.000	

Qty. Awarded: 576.000 **Method of Measurement:**

CO Adjust.: **Basis of Payment:**

Authorized: 576.000 **Checked By:**

Quantity Paid: 642.000 **Audited By:**

% Authorized: 111.5

Line No.: 0470

Item Code: 2518-6910000 **Page No.:** 1

Description: Safety Closure **Category No.:**

Project No.: ESL-3827(611)--7S-77 **Contract ID:** 3827-611-77

Date	Location Sta	Today ( )	To Date ( )	Remarks	By
04/19/10	137+25 Rt.	1.000	1.000	Mercy Access	PH
04/19/10	67+50	1.000	2.000	Crescent Chase	PH
04/19/10	70+75	1.000	3.000	Crescent Chase	PH
06/14/10	64+25	1.000	4.000	Crescent Chase	PH
06/14/10	66+75	1.000	5.000	Crescent Chase	PH
07/24/10	38+25	1.000	6.000	LM Dr	PH
07/24/10	39+15	1.000	7.000	LM Dr	PH
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			0.000		
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			0.000		
			0.000		

Qty. Awarded: 9.000 **Method of Measurement:**

CO Adjust.: **Basis of Payment:**

Authorized: 9.000 **Checked By:**

Quantity Paid: 7.000 **Audited By:**

% Authorized: 77.8

Line No.: 0630 **Project No.:** ESL-3827(611)--7S-77

Item Code: 2529-5070110 **Category No.:**

Description: Full Depth Patch, Area **Contract ID:** 77-3827-611 **Page No.:** 1

Date	Patch Location Sta	Sta	(Side)	Length (ft)	Width (ft)	Patch (SY)	Plan Patch Thickness (in)	Measured Pavement Thickness (in)	Adjusted (SY)	To Date (SY)	By:
05/06/10	138+83	NBL	RT	16.50	5.0	9.243	9.500	9.833	9.243	9.243	PH
05/06/10	143+71	NBL	RT	23.33	5.5	14.259	9.500	9.900	14.259	23.502	PH
05/06/10	162+50	NBL	RT	5.67	11.5	7.241	9.500	9.933	7.241	30.743	PH
05/10/10	135+46	NBL	RT	52.1	5.5	31.829	9.500	9.770	31.829	62.572	PH
05/11/10	147+79	NBL	RT	14.5	5.5	8.861	9.500	10.800	9.747	72.319	PH
05/11/10	165+95	NBL	RT	11.1	5.6	6.876	9.500	10.967	7.564	79.883	PH
05/11/10	169+47	NBL	RT	15.8	5.5	9.625	9.500	9.733	9.625	89.508	PH
05/11/10	170+80	NBL	RT	19.8	9.4	20.573	9.500	9.600	20.573	110.081	PH
05/20/10	174+12	NBL	RT	1.00	0.5	2.000	9.500	5.000	1.600	111.681	PH
05/20/10	173+32	NBL	RT	1.00	0.5	2.000	9.500	5.000	1.600	113.281	PH
05/20/10	170+13	NBL	RT	8.30	1.5	2.000	9.500	9.750	2.000	115.281	PH
06/11/10	67+90	WBL	RT	15.00	5.92	9.861	9.500	9.750	9.861	125.142	PH
07/16/10	170+78	SBL	RT	20.25	10.0	22.406	9.500	10.243	22.406	147.548	PH
07/21/10	169+49	SBL	RT	14.50	4.8	7.653	9.500	10.350	7.653	155.201	PH
07/21/10	166+52	SBL	RT	21.25	Varies	8.869	9.500	10.000	8.869	164.070	PH
07/21/10	165+97	SBL	RT	9.83	5.4	5.918	9.500	10.100	5.918	169.988	PH

Remarks: 5 inch patches shown are small partial depth patches to correct previously existing faults in pavement.

Qty. Awarded: 411.000 **Authorized:** 411.000 **Method of Measurement:**

CO Adjust.: **Quantity Paid** 509.532 **Basis of Payment:**

% Authorized: 124.0 **Checked By:**

Line No.: 0640

Item Code: 2529-5070120 **Page No.:** 1

Description: Full Depth Patch by Count **Category No.:**

Project No.: ESL-3827(611)--7S-77 **Contract ID:** 3827-611-77

Date	Location Sta	Today ( )	To Date ( )	Remarks	By
05/06/10	138+83 NBL RT	1.000	1.000		PH
05/06/10	143+71 NBL RT	1.000	2.000		PH
05/06/10	162+50 NBL RT	1.000	3.000		PH
05/10/10	135+46 NBL RT	1.000	4.000		PH
05/11/10	147+79 NBL RT	1.000	5.000		PH
05/11/10	165+95 NBL RT	1.000	6.000		PH
05/11/10	169+47 NBL RT	1.000	7.000		PH
05/11/10	170+80 NBL RT	1.000	8.000		PH
05/20/10	174+12 NBL RT	1.000	9.000		PH
05/20/10	173+32 NBL RT	1.000	10.000		PH
05/20/10	170+13 NBL RT	1.000	11.000		PH
06/11/10	67+90 WBL LT	1.000	12.000	Additional request by city	PH
07/16/10	170+78 SBL RT	1.000	13.000		PH
07/21/10	169+49 SBL RT	1.000	14.000		PH
07/21/10	166+52 SBL RT	1.000	15.000		PH
07/21/10	165+97 SBL RT	1.000	16.000		PH
07/21/10	162+51.50 SBL RT	1.000	17.000		PH
08/05/10	147+87 SBL RT	1.000	18.000		PH
08/05/10	143+75 SBL RT	1.000	19.000		PH
09/03/10	138+88.50 SBL RT	1.000	20.000		PH
09/03/10	135+50 SBL RT	1.000	21.000		PH
10/05/10	170+54 BOTH LT	2.000	23.000		PH
10/05/10	159+95 BOTH LT	2.000	25.000		PH
10/05/10	166+53 SBL LT	1.000	26.000		PH

Qty. Awarded:

CO Adjust.:

Authorized:

Quantity Paid:

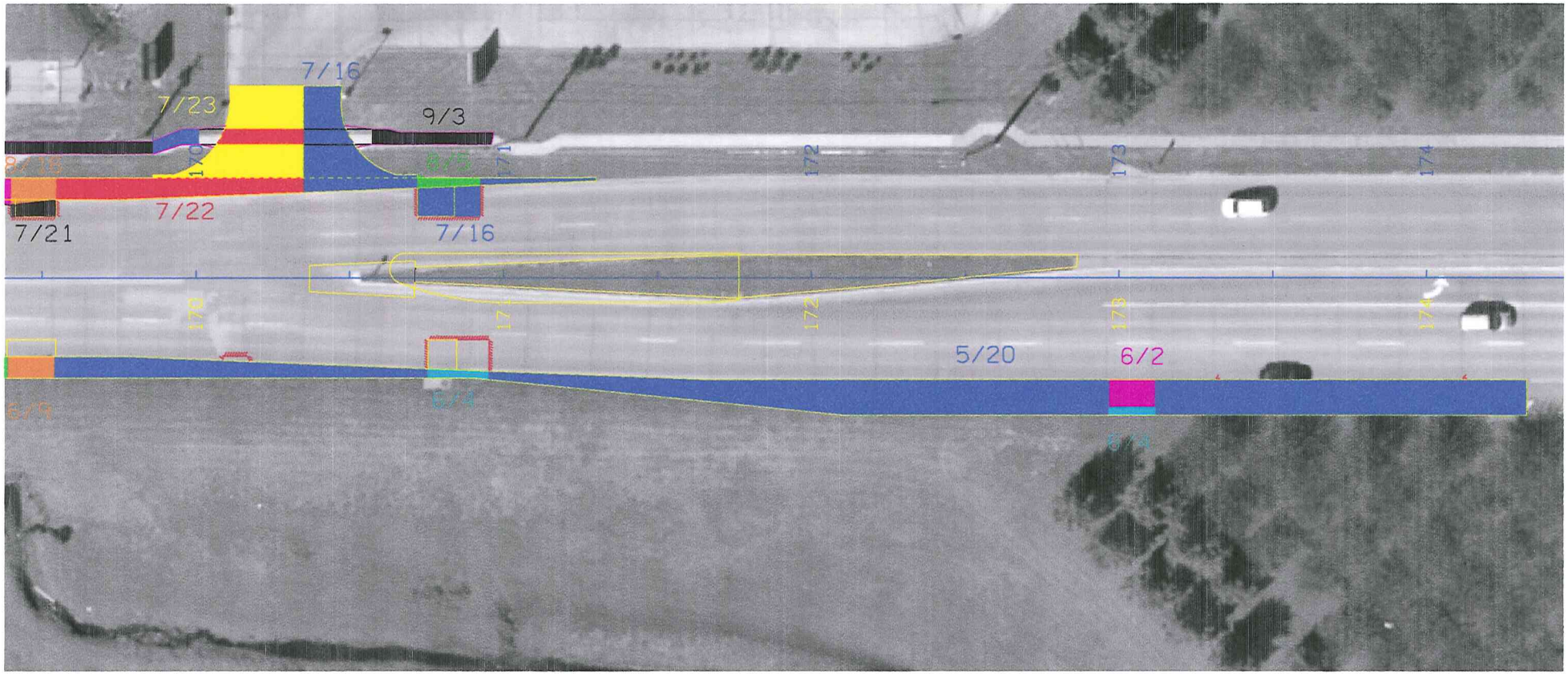
% Authorized: 0.0

Method of Measurement:

Basis of Payment:

Checked By:

Audited By: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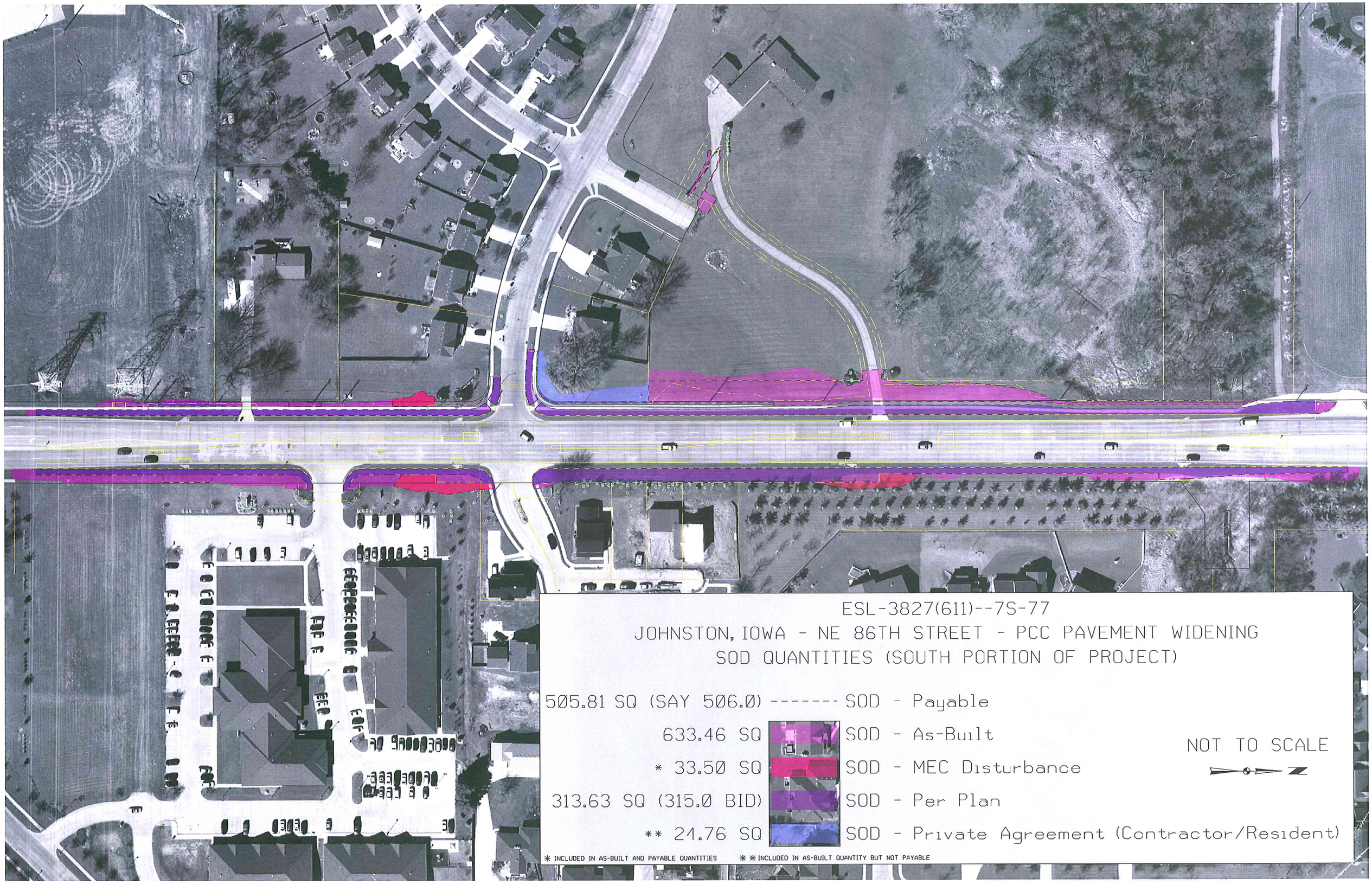

ESL-3827(611)--7S-77
JOHNSTON, IOWA - NE 86TH STREET - PCC PAVEMENT WIDENING
SOD QUANTITIES (SOUTH PORTION OF PROJECT)
505.81 SQ (SAY 506.0) ------- SOD - Payable
633.46 SQ SOD - As-Built
* 33.50 SQ SOD - MEC Disturbance
313.63 SQ (315.0 BID) SOD - Per Plan
** 24.76 SQ SOD - Private Agreement (Contractor/Resident)
NOT TO SCALE
N
* INCLUDED IN AS-BUILT AND PAYABLE QUANTITIES
** INCLUDED IN AS-BUILT QUANTITY BUT NOT PAYABLE

ESL-3827(611)--7S-77

JOHNSTON, IOWA - NE 86TH STREET - PCC PAVEMENT WIDENING

SOD QUANTITIES (NORTH PORTION OF PROJECT)

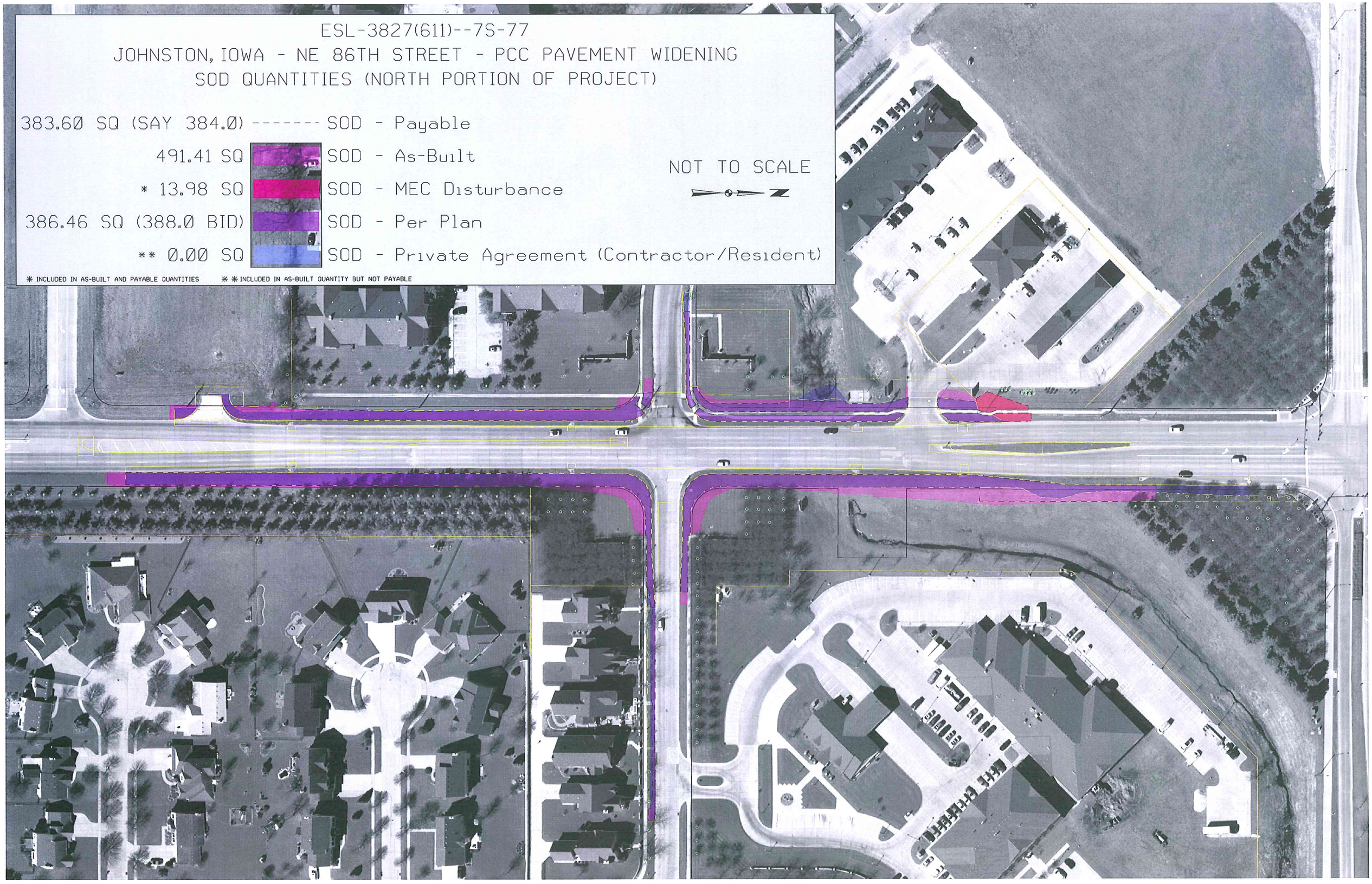
383.60 SQ (SAY 384.0)	-------	SOD - Payable
491.41 SQ		SOD - As-Built
* 13.98 SQ		SOD - MEC Disturbance
386.46 SQ (388.0 BID)		SOD - Per Plan
** 0.00 SQ		SOD - Private Agreement (Contractor/Resident)

NOT TO SCALE

N

* INCLUDED IN AS-BUILT AND PAYABLE QUANTITIES

** INCLUDED IN AS-BUILT QUANTITY BUT NOT PAYABLE



Page No.: 150

Project No.: ESL-3827(611)--7S-77 Contract ID: 77-3827-611

Date:	10/08/10	Sunrise:	07:18	High:	86 F	Day Charged:	1.0
Weather:	Sunny	Sunset:	18:44	Low:	44 F	Total to Date:	83.0

Controlling Operation: Retaining Wall

Arrived on site at 7:30 am. Absolute was forming the wall and ran into an issue with the staking throughout the radius of the wall. At the beginning the wall is 7 inches tall, yet Aldrich Surveying showed the wall to be only 0.36 feet or 4.3 inches tall. We informed Gary of Aboslute that he should follow the existing walk profile and the heights of the wall shown on the plan, and ignore the staking as it seemed to be inaccurate. This change may affect the sloping of the land behind the wall slightly based on the accuracy of the staking of the sidewalk, but we didn't forsee any issues that would cause problems.

Leader had finished forming and poured the patch/nose at 139+01. This was poured within spec for air and slump and was properly consolidated and finished. The nose was properly shaped to slope from 6 inches down to 1.25" in the nose radius. After that they poured the most southern stretch of median from 133+63 to 138+91. This being my first time seeing this method for median I paid close attention to their operations. In the end, the median was done correctly with no loose or exposed wires and with very smooth and well finished sides and edges. I left the site at 5 pm.

By: Patrick Hidder

Daily Traffic Control Diary

Date: 6/24/2010 Prime Contractor: Manatts Inc.

Day: Thurs. Subcontractor: RoadSafe

Project Number: ESL-3827(611)--75-77

Traffic Control Standard(s) or Plan Sheet(s) Used: U.1-U.10, TC-1, TC-233, TC-419, TC-433

NB Lane (Right / Left): _____ Sta. (MP.) 121+90 (Road Work Ahead Sign) to Sta.(MP.) 184+20 (End Road Work Sign)

SB R+ 187+50 121+90

Direction (EB / NB): + SB Time Traffic Control Observed: 8 am / pm

Review of Traffic Control and Traffic Operations:

	Yes	No
All signs & devices installed correctly:	✓	✓
All signs & devices in acceptable condition:	✓	
All signs & devices reflective at night:	✓	
All warning lights working (day & night):	✓	
All temporary luminaires working:	✓	

If checked "no" above, when were corrections completed:
All Stage 2 Devices in. Needed minor adjustment.
All stage 1 now in "stage 2" position

Any changes or modifications to the project's traffic control?

Flagger Name	Start Time	End Time	Hours

Signature: [signature] Printed: Cameron Green Company: Manatts Inc.

Note: The listing of flaggers may be submitted daily as a separate form.

Daily Traffic Control Diary

Date: Oct 4 /2010 Prime Contractor: Manatts Inc.

Day: Fri Subcontractor: RoadSafe

Project Number: ESL-3827(611)--75-77

Traffic Control Standard(s) or Plan Sheet(s) Used: U.1-U.10, TC-1, TC-253, TC-419, TC-43

Lane (Right / Left): _____ Sta. (MP.) 121+90 (Road Work Ahead Sign) to Sta.(MP.) 184+20 (End Road Work Sign)

Direction (EB / NB): _____ Time Traffic Control Observed: 7 am / pm

Review of Traffic Control and Traffic Operations:

	Yes	No
All signs & devices installed correctly:	✓	—
All signs & devices in acceptable condition:	✓	
All signs & devices reflective at night:	✓	
All warning lights working (day & night):	✓	
All temporary luminaires working:	✓	

If checked "no" above, when were corrections completed:

Minor

Any changes or modifications to the project's traffic control?

—

Flagger Name	Start Time	End Time	Hours

Signature: [signature] Printed: Cameron Green Company: Manatts Inc.

Note: The listing of flaggers may be submitted daily as a separate form.